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External Affairs
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Affaires extérieures
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***Electronic
Products
for World
Markets***



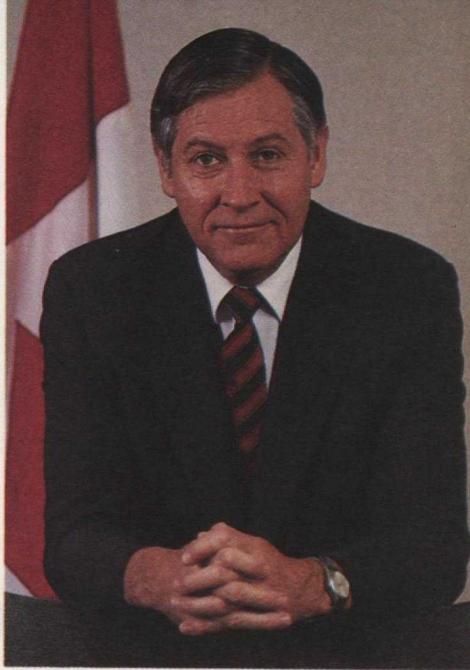
Canada

For further information about Canada's electronics export capabilities, please contact the Trade Division of the nearest Canadian Embassy or Consulate, or the Electronics Directorate of the Department of Regional Industrial Expansion, Ottawa, Canada K1A 0H5 or its nearest regional office in Canada.

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Foreword

The range of Canadian electronic products includes a wide variety of sophisticated systems and components that are used for pollution detection, process control, satellite communications and over 100 industrial and public service applications. This catalogue describes some of the numerous existing and new products that represent the most modern technology. They meet international standards and requirements and are offered on world-wide markets.

The contents of this catalogue reflect the interests of Canadian inventors, engineers, managers and workers who invite you to consider them not only as suppliers of high-technology products or services, but also as potential business partners. Canada is proud of its own achievements in export trade, but at the same time welcomes foreign ideas and investment.

I would like to thank the many Canadian companies that participated in this project. I wish them, and their new and already established clients, every success in their business endeavours.

*Technology Development Division
External Affairs
Canada*
James Kelleher

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Min. des Affaires extérieures

NOV 20 1986

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Acknowledgements

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We are also grateful for the participation, direct or through the use of their catalogues or rosters, of the following organizations:

- *Department of Communications*
- *Department of Energy, Mines and Resources*
- *Statistics Canada*
- *Provincial Economic and Trade Departments*
- *Canadian Advanced Technology Association*
- *Electrical and Electronic Manufacturers Association of Canada*
- *Canadian Exporters Association*
- *Canadian Manufacturers Association*
- *Provincial Electronic Manufacturers Associations*

*Technology Development Division
Department of External Affairs
Canada*

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Electronic Products for World Markets

This brochure is directed to Canada's trading partners for their convenience in locating, contacting and doing business with the most active Canadian suppliers of electronic products, equipment, components and services.

Canada has developed world-class electronic products to support its major agricultural, mining, transportation and manufacturing industries.

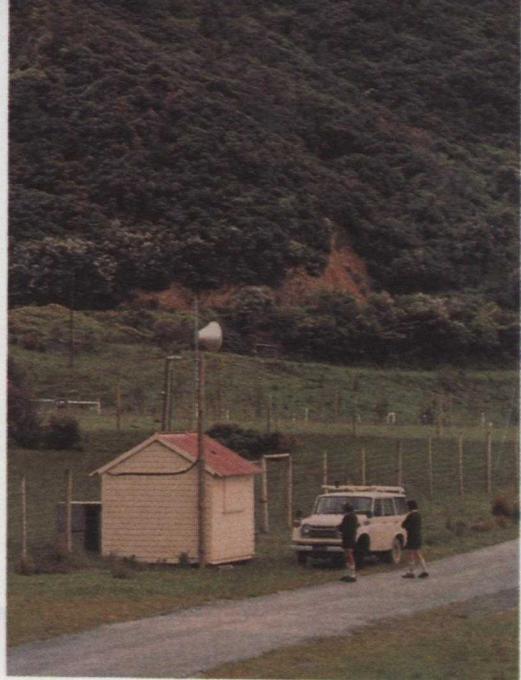
Innovative people and an influx of foreign ideas and investments have created unique strengths in advanced communications, transportation, harvesting of natural resources and processing technologies to meet the challenges of harsh climate and widely scattered population. All developments leading to systems described in this brochure were also strongly influenced by a will to overcome the limitations of a relatively small domestic market and respond to the expectations of international clients.

The Canadian electronics companies are proficient at adapting their equipment, systems and services to fit the needs of overseas markets, starting with the United States and moving more and more to other countries. In 1984, a full two-thirds of the industry's \$6,000 million production was shipped to export markets. From satellite earth stations for communications networks in the People's Republic of China to industrial process controls for pulp and paper mills in Brazil, from aircraft simulators in Japan to rural subscriber systems in Zimbabwe, Canadian firms have earned a world-class reputation for competitiveness, quality, reliability and service. The industry stands committed to "more and better."

The following pages highlight some of the outstanding Canadian capabilities in telecommunications, transportation electronics, instrumentation and process controls, sub-assemblies and microelectronics.

The reader is invited to become acquainted with the selected suppliers of equipment, system components and electronics services, to use the convenient product/companies cross-index and to contact firms of his or her choice. Canadian trade officers can also assist in locating the best potential suppliers.

Telecommunications



From the invention of the telephone and the inaugural long distance telephone call in 1876, to the world's first packet-switching network a century later, Canada leads the way in telecommunications.

Canada has the world's most advanced telecommunications infrastructure. It includes microwave systems totalling over 160,000 kilometres (100,000 route miles), the world's first commercial satellite communications network with over 100 earth stations, and will be enhanced by the recently-announced plans to construct the world's longest fibre optic network. Canada ranks fourth in the world in terms of telephones per capita with more than 19 million telephones in service, or 76 per 100 population.

These accomplishments have shaped an industry with immense capability and vast experience. Led by Northern Telecom Limited, Canadian industry has established itself at the forefront of digital switching technology. Northern Telecom broke ground in this competitive international field with the introduction of a family of fully digital central office switching and transmission systems. Today, the company is the world's leading supplier of such equipment. In private telephone exchanges, Mitel Corporation has achieved international acclaim with sales of analog and digital PBXs to more than 80 countries.

Another prominent Canadian exporter, SR Telecom, produces point-to-multipoint microwave radio systems that can be found in remote locations throughout Africa and the Middle East. Canadian manufacturers export a wide selection of other leading-edge communications products ranging from electronic telephones and network monitoring and control systems to broadcast switchers and cable television amplifiers.

SR Telecom Inc. microwave radio outstation in a remote location in New Zealand. SR exports point-to-multipoint digital microwave radio systems to more than 30 countries around the world.

Telecommunications



Fibre Optics

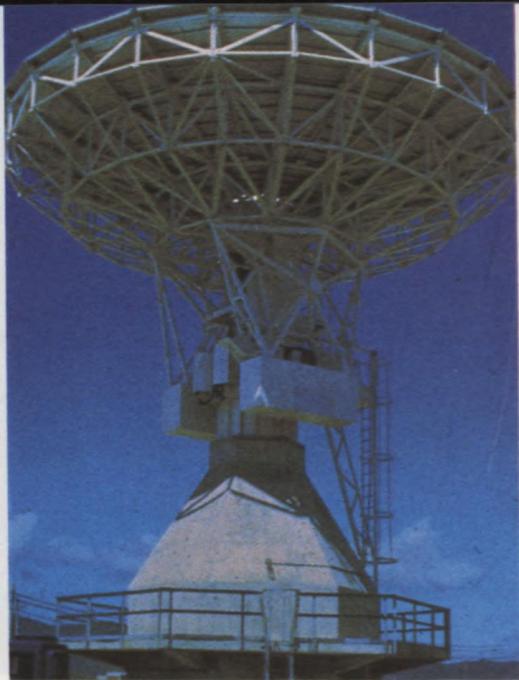
As the backbone of future telecommunications networks, fibre optics systems are under intense development in Canada. Since Canadian lightwave field trials began in 1976, a number of major fibre optics projects have been undertaken, including the installation of an extensive 3,200 km network in Saskatchewan that provides a broad range of communications and broadcast services to all cities and some 40 major towns in the province.

The Saskatchewan achievement will soon be eclipsed by a \$200 million plan by Telecom Canada to build a 7,000 km cross-Canada fibre optic network by the end of the decade. As well, in a \$100 million joint venture, CNCP Telecommunications and CN Rail will construct a fibre optic trunk linking Montreal, Ottawa and Toronto in eastern Canada, and another between Edmonton and Vancouver, in the western part of the country.

Canadian industry is already primed to meet the product and service demands of these domestic projects as well as those planned by telecommunications carriers outside Canada. Completely integrated systems — fibre optic cable and associated electronic and optical equipment — are produced by Northern Telecom and Canada Wire and Cable Limited teamed with its Canstar Communications subsidiary. Other major cable suppliers include Phillips Cables, and Pirelli Cables.

Northern Telecom employee removes graphite crucibles from a furnace used for growing multi-layer semiconducting structures. The layers are later processed into lasers for fibre optics systems.

Telecommunications



Space Communications

As the third nation following the Soviet Union and the United States to design, build and successfully operate a space satellite, Canada is a respected member of the orbital space community. Canada's prime satellite contractor, Spar Aerospace Limited, heads up a growing list of Canadian firms involved in space communications.

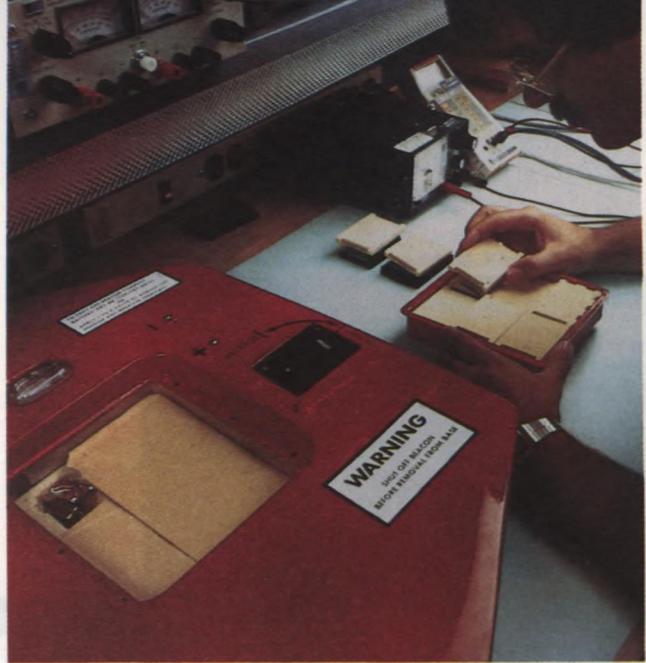
Spar's noteworthy international achievements include the design and supply of the remote manipulator system (Canadarm) for the U.S. Space Shuttle program and the provision of Brazil's domestic communications satellite. The Brazilsat project forged a powerful Canadian team with Spar as lead contractor for the flight hardware and SED Systems Inc. as a major subcontractor responsible for the telemetry, tracking and control earth station.

Other world-class Canadian spacecraft equipment suppliers include Canadian Astronautics Limited, whose enormous pool of engineering talent has produced search and rescue satellite earth stations as well as scientific instrument payloads, spacecraft antennae, batteries and power conditioning equipment; and Com Dev Limited, an internationally recognized manufacturer of space qualified microwave sub-systems.

For the earth segment of a satellite system, Canada also has a number of distinguished suppliers. A rising star in this field is Microtel, whose "Spacotel" satellite communications system is ideally suited for the transmission of voice and television signals to remote locations. The Spacotel system was recently selected by the Department of National Defence for an extensive communications network in northern Canada.

This 14.2 m telemetry, tracking and control antenna is part of the ground control segment designed and built by SED Systems Inc. for the Brazilsat project. SED teamed up with prime contractor Spar Aerospace Ltd. on Brazilsat, Canada's eminently successful entry into the communication satellite systems export market.

Transportation Electronics



Aviation

With the world's fifth largest aerospace industry, Canada has become a fertile ground for the development of aviation electronics. Canadian firms produce equipment for air traffic control (ATC), navigation, avionics, aircraft control, maintenance, simulation and passenger support.

A driving force behind present and future industrial developments is the Canadian Air-space Systems Plan (CASP) of the Canadian Department of Transport. This series of modernization programs is scheduled to be completed by the year 2000 at a cost of \$3,500 million (1984 Cdn. dollars). CASP initiatives such as the Radar Modernization Program (RAMP) and the Microwave Landing Systems (MLS) program provide the work-bench for Canadian firms to move to the forefront of modern aviation technology. As prime contractor on two RAMP projects, Raytheon Canada is becoming a world leader in primary radars, displays and related data processing equipment.

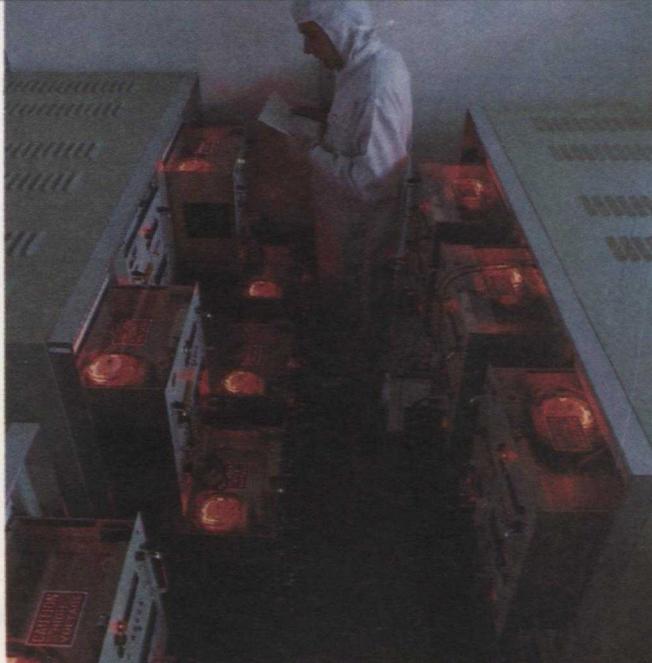
Among the many Canadian suppliers of navigation aids, Canadian Marconi Company is breaking new ground with its airborne MLS and global positioning satellite receivers. In the aircraft instrumentation field, Litton Systems Canada is gaining acclaim with its revolutionary flat panel multifunction cockpit displays. In a similar way, Leigh Instruments is making significant inroads abroad with its flight data recorders and crash position indicators.

One of Canada's best-known companies in aviation electronics, CAE Electronics, has captured a substantial share of the world market for flight training simulators. Another successful firm in the simulator business, Atlantis Flight Research, is expert in maintenance/procedural training systems for such specialties as flight control and hydraulics.

Other notable Canadian accomplishments include passenger information systems by Ferranti Packard Electronics and the unique advances made in gas turbine fuel controls and temperature control systems by Bendix Avelex and Garrett Canada.

Engineer at Leigh Instruments Ltd. places solid-state modules into a flight data recorder (FDR) which will then be fitted into a deployable airfoil. Leigh's FDRs are installed aboard a variety of commercial and military aircraft in Canada, the United States and Europe.

Transportation Electronics



Road Transportation

Canada's expertise in vehicle monitoring and mobile data transmission systems has been developed through the innovations of such companies as Gandalf Data Limited and Mobile Data International (MDI). Gandalf is a leader in the design of modems for taxi dispatch systems, while MDI has attained international recognition for the application of its rugged mobile data terminals to fleet management and control systems for police, security, fire and courier dispatch customers.

Another key company is B. E. L-Tronics Limited, one of the world's largest producers of speed measuring radar detectors.

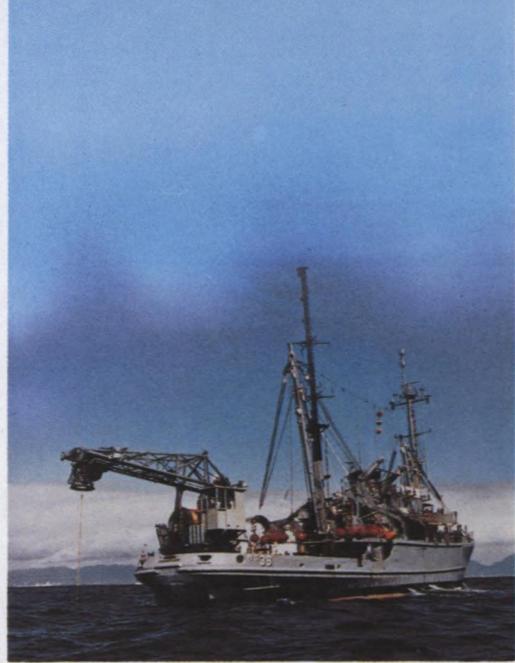
Other systems are developed by small highly specialized Canadian firms that tailor systems according to clients' needs using the best available technology. Prior Data Sciences, for example, designs and installs automated vehicle monitoring systems for buses and ambulances. Other areas of recognized Canadian know-how include speed measuring radar detectors, urban traffic control systems, freeway management systems and vehicle support systems.

Railway and Urban Mass Transit

Although relatively small in number, Canadian firms in the railway technology business have demonstrated a diverse base of skills. Products range from trackside communications equipment (Bayly Engineering) and locomotive performance analyzers (MPB Technologies), to digital radar systems for train speed monitoring (Tribar Industries) and automatic train control systems (ITT SEL Canada).

Production of ring laser gyro inertial navigation systems (INS) for aircraft at Litton Systems Canada Ltd. Litton has produced over 5,000 INSs which are installed in more than 80 of the world's airlines.

Transportation Electronics



Canadian capabilities in railway electronics are meeting the challenge of the major North American railway modernization undertaking, Advanced Train Control Systems (ATCS), a project with a \$5,000 million market potential. A joint effort of the Railway Association of Canada and the American Association of Railroads, ATCS will foster developments of systems and components for train detection, route monitoring, warning devices, switch monitoring and control, train control, and the management of train systems.

Canadian ingenuity in urban mass transit technology can be found in the areas of vehicle location and monitoring, vehicle scheduling, passenger counting systems and information displays. RMS Industrial Controls has become a first-rate supplier through its novel approach to integrating single-board computers, UHF radios and data modems for bus and light rail location and monitoring systems.

Marine

Many of the same navigation aids produced for aeronautical applications have been designed or adapted for maritime use. Examples include Internav's Loran C navigating receivers and Nautel's solid-state non-directional radio-beacon systems.

In the field of underwater acoustic technology, such companies as C-Tech Limited, Hermes Electronics and Sparton of Canada, have become world-renowned for their work on sonars and sonobuoys.

Other notable Canadian accomplishments include passenger information systems by Ferranti-Packard Electronics and the unique advances made in gas turbine fuel controls and temperature control systems by Bendix Avalex and Garrett Canada.

Crane produced by Techwest, a Division of Fleet Aerospace Corp., includes an on-board real-time microprocessor to drive the motion compensation system.

Instrumentation and Process Control



Geological/Geophysical Instrumentation

Canada's rich base of mineral resources has given rise to an unparalleled geophysical instrumentation industry. About 75% of all geophysical mining equipment now used in the non-Communist world is of Canadian origin.

Some 30 Canadian companies produce instruments for both airborne and ground-based geophysical and geochemical exploration. Products include magnetometers, spectrometers, data acquisition systems, induced polarization equipment and radon detectors.

Scintrex, a leading manufacturer of such equipment, recently introduced an advanced portable integrated geophysical system (IGS). Supporting this system are two new peripherals, a proton magnetometer and an electromagnetic sensor.

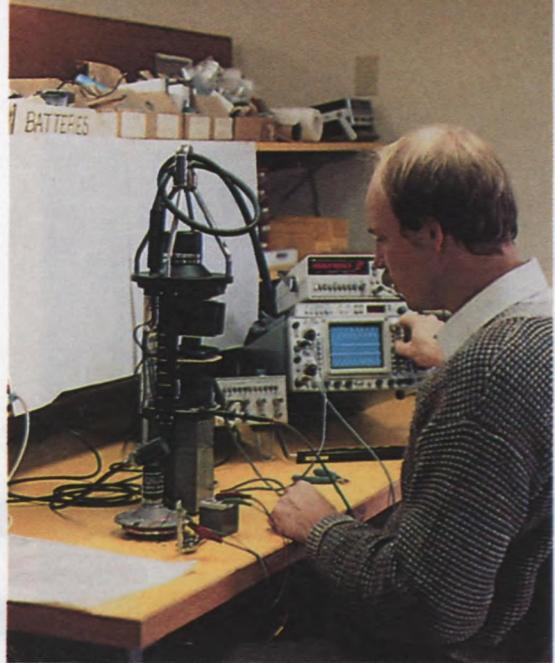
Another prominent company, Barringer Research, works extensively in the fields of geochemistry, electro-optics, magnetics and atmospheric physics. A promising new venture in this field is Instantel, a specialist in digital seismograph instruments.

Remote Sensing

As a space-age solution to managing Canada's vast and wide-spread natural resources, remote sensing technology plays an increasing role in the Canadian economy. Remote sensing image interpretation and mapping services are used in agriculture, environmental analysis, exploration geology, forestry, ice reconnaissance, land use, map making and revision, route selection, and terrain and water quality analyses. Backed by the Canada Centre for Remote Sensing, a division of the Department of Energy, Mines and Resources established in 1972, Canadian industry is pushing the frontiers of development in this field.

Instantel Inc.'s DS-377 digital seismograph records ground vibration and sound pressures resulting from an explosives blast at a mine site. Instantel is pioneering the application of microcomputer technology to the resource industries.

Instrumentation and Process Control



MacDonald Dettwiler and Associates (MDA) has built a thriving business supplying more than half the world market of remote sensing satellite earth stations. In digital image analysis, MDA and Dipix Systems have claimed a substantial share of the market for minicomputer-based systems, and have devised the most efficient software available for microcomputer-based systems. Canada also has world-class expertise in synthetic aperture radars, side-looking airborne radars, colour image recorders (digital to film), airborne solid-state multispectral scanners, laser altimeters and laser bathymetry.

Canada's commitment to this technology will be reinforced by Radarsat, an international remote sensing satellite project. If approved by the government, Canada could contribute up to 60% of the estimated \$540 million cost of this program.

Oceanographic Instrumentation

With approximately 4,800 kilometres (3,000 miles) of coastline bordering the Atlantic, Arctic and Pacific oceans, Canada is home to a growing number of companies developing instruments for the measurement, recording and processing of seabed characteristics. Canadian-made products range from tide gauges and wave height recorders, to instrumented buoys and underwater telemetry systems.

An industry with highly specialized skills supports the research of the Bedford Institute of Oceanography in Dartmouth, Nova Scotia, and the Institute of Ocean Sciences (ISO) in Sydney, British Columbia. About 20 new companies have evolved to develop potential products researched in the ISO's labs.

Among these, notable exporters include Seastar Instruments, the developer of the world's first and only commercial electronic water sampler; Guildline Instruments, a manufacturer of conductivity, temperature and depth measurement systems; and Applied Microsystems, a specialist in custom engineered systems for underwater research, monitoring and analysis.

Technician at Seastar Instruments Ltd. testing the company's new low cost, compact, high-speed underwater acoustic telemetry system.

Instrumentation and Process Control



Scientific Instrumentation

Canadian companies producing scientific instruments tend to develop families of products. Some of the technology is derived from the work of research establishments such as the National Research Council (NRC) and Atomic Energy of Canada, from the country's many universities, or from the identified needs of the private sector.

Founded in 1970 to exploit a new laser technology, Lumonics Inc. has mushroomed into the world's third largest manufacturer of commercial laser-based products. Now a multi-national corporation, Lumonics produces a variety of gas and solid-state lasers for marking, materials processing, scientific and medical applications.

Other Canadian success stories include Bomem and the Sciex division of MDS Health Group. Bomem's Fourier Transform Spectrophotometers are regarded as the highest performance infrared spectrophotometers commercially available. Export sales to Europe, Japan and Australia account for 75% of its production.

Through pioneering work in atmospheric pressure chemical ionization mass spectrometry, Sciex has developed one of the world's most advanced mass spectrometers for trace chemical analysis. Systems have been installed in Canada, the U.S. and the U.K.

Test and Measuring Equipment

The burgeoning demand for automated test and measuring tools, particularly in the electronics and automotive industries, has inspired a number of unique Canadian developments in this field. Canadian-made products range from capacitor leakage testers to telecommunications protocol analyzers.

Mechanical designer checks tolerances on a radiation monitor manufactured at Pylon Electronic Development Co. Ltd. Pylon is a leading Canadian supplier of nuclear test equipment to customers worldwide.

Instrumentation and Process Control



In the automotive field, leading suppliers include Diffracto and Interautomation. Diffracto's successful application of machine vision systems and sensor modules to industrial automation and inspection has attracted General Motors as an equity partner. Interautomation has applied microprocessor-based systems to automated testing of automobile engines, transmissions, fuels and lubricants.

Canadian firms manufacturing electrical and electronic test equipment are now beginning to flourish. Last year, Mosaid Systems released its first in a series of digital random access memory (RAM) chip testers, a 10 MHz system that interfaces with an IBM PC or equivalent. Another emerging company, Thalamus Electronics, recently added a non-contact oscilloscope probe to its line of printed circuit board test equipment.

Industrial Process Controls

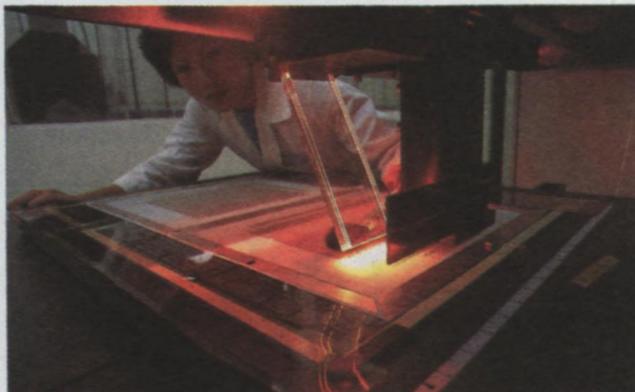
Canada's dependence on natural resource extraction and refining has induced considerable industrial capability in industrial process controls and supervisory control and data acquisition (SCADA). More than 50 companies supply systems to end-users involved in pulp and paper, minemill processing, petrochemicals; gas processing, transportation and distribution; primary metal production, textiles, food processing; oil production, refining; and transportation and electric power generation, transmission and distribution.

Willowglen stands out for its resounding success in export markets. Its achievements include a system for a water treatment and distribution facility in Los Angeles, maintenance and security management systems for state-owned apartment buildings in Singapore and a recent contract for an oil pipeline monitoring system in the Soviet Union.

One of the world's largest suppliers of pulp and paper process controls, Sentrol Systems was the first company to introduce on-line web-scanning measurement of colour, formation and ash constituents to the papermaking industry. Sentrol maintains an outstanding reputation in the design and production of sensors based on infrared, X-ray, gamma-ray, optical, chromatographic and laser techniques.

Employee at Willowglen Systems Ltd. receives training in printed circuit card assembly. Willowglen is a major Canadian exporter of supervisory control and data acquisition (SCADA) systems.

Sub-assemblies and Components



Some Canadian manufacturers specialize in engineered sub-assemblies and components to meet the demands of commercial and military electronic equipment suppliers both at home and abroad. The five main areas of Canadian sub-assembly and component expertise are printed circuit boards, electronic connectors, power supplies, crystals and transformers.

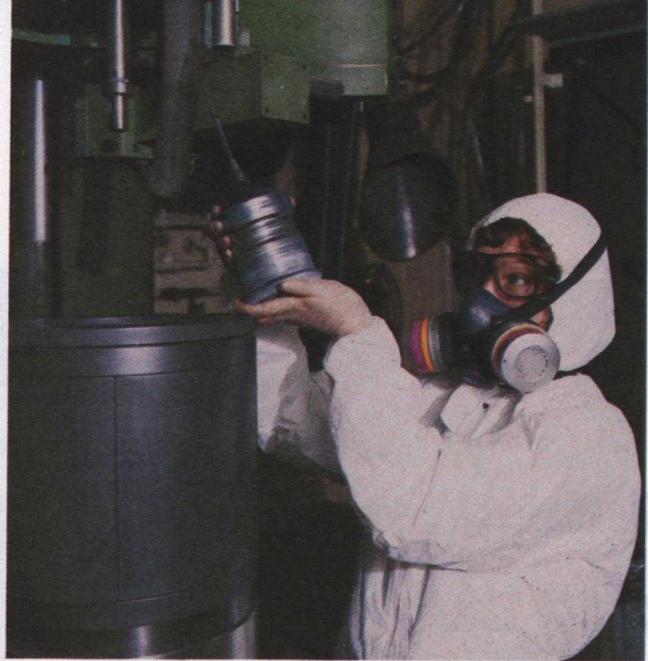
Canada is home to about 50 circuit board exporters with Circo Craft, Graphico Electronics Group and Helix Circuits ranked as the three largest. Suppliers can handle a complete range of needs from simple single-sided to complex boards with up to 30 layers.

Compar Connectors and EDAC make printed circuit board edge card connectors for the telecommunications, computer and instrumentation sectors. ITT Canon Canada has unique capability in furnishing connectors for hostile environments such as jet engines and nuclear power plants.

In the magnetics (transformer) and switching power supply business, Hammond Manufacturing and Tectrol have achieved great credibility in export markets. As a specialist in high frequency overtone crystals, Croven Crystals has earned a solid reputation with aerospace customers abroad.

Helix Circuits Inc.'s PC World division in Toronto specializes in the most advanced printed circuit board technology offered anywhere in North America. This automatic optical scanning unit is used in quality control of multilayer board production.

Microelectronics



Although small by international standards, Canada's semiconductor industry enjoys considerable success. Integrated circuits for telecommunications is its chief strength. Northern Telecom and Mitel maintain semiconductor assembly plants capable of producing some of the world's most complex VLSI circuitry. While Northern's output is captive, Mitel delivers about half its production to overseas customers.

Linear Technology and Siltronics, both specialists in bipolar integrated circuits (ICs), are prospering by concentrating on a narrow segment of the microchip market. Linear is a supplier of audio amplifiers to hearing aid manufacturers worldwide, while Siltronics is carving its niche as a producer of chips for radio pagers. Both companies are also involved in semi-custom and custom IC design and production for a variety of customers.

Other smaller but noteworthy players in the microcircuit industry include Mosaid, whose forte is memory chip design and test equipment; Calmos Systems, producer of Canada's first standard microprocessor; and Pacific Microcircuits, a specialist in custom CMOS IC design and test. Also worthy of mention is the Canadian Semiconductor Design Association, a private sector co-operative that is collecting a library of macrocell designs.

Undergoing explosive growth in Canada is the thin- and thick-film hybrid circuits industry and related surface mount technologies. Circo Craft and Tech Rep Electronics, two recent entrants into this field, along with Epitek International and Anatek Microcircuits, are aggressively expanding their operations.

More established hybrid manufacturers like Canadian Marconi and Garrett continue to build on their solid reputation as suppliers to the aerospace and defence electronics sectors.

Technician recovers a four-inch diameter gallium arsenide crystal from one of five high-pressure crystal growing furnaces at Cominco Electronic Materials.

Manufacturers

19

and Suppliers

of Products

and Components

The following alphabetical list includes nearly 500 profiles of Canadian export capabilities and interests in the field of electronic equipment and systems.

It deliberately excludes exporters of computers, software, systems and peripherals, office automation equipment and electrical products. They are featured in other more narrowly focussed publications on, for example, telecommunications, security, defence, aerospace, and solar energy. These publications are available from the Canadian government trade office nearest you.

2001 S.N.I. (Satellite Network Inc.)

203 — 1107 Homer Street
Vancouver, British Columbia
Canada
V6B 2Y1
Telephone: (604) 669-2001
Telex: 04-508406

Supplier of both C band and Ku band satellite communications systems and decoders.

4C Technologies Ltd./Ltée

2291 Guénette Street
Montreal, Quebec
Canada
H4R 2E9
Telephone: (514) 335-4555
Telex: 055-62171

Designer and manufacturer of portable protocol analyzers/simulators for data communications service groups, development engineers, data network operators and end-users. The SEPTA line of analyzers, designed with multilingual user interfaces and operating at 128 kbps, can monitor and simulate asynchronous, synchronous, and bit-oriented protocols, such as CCITT X.25, HDLC, SDLC, IBM 3270 AND IBM SNA.

A. Comeau & Associates Ltd.

4718 — 90A Avenue
Edmonton, Alberta
Canada
T6B 2P9
Telephone: (403) 465-9961

Manufacturer of electronic controls for submersible pumping systems; motor controllers; back spin detectors; phase rotation meters; bottom hole pressure transmitters; heavy duty lightning filters for three-phase motors; surge counters; well-head automation systems; RTUs; custom designed electronic controls; and SCADA systems.

Electrical design for gas plants, injection facilities, oilfield batteries and satellites, power system surveys and disturbance analysis.

A.E.I. Telecommunications (Canada) Ltd.

419 Notre Dame Avenue
Winnipeg, Manitoba
Canada
R3B 1R3
Telephone: (204) 942-7221
Telex: 07-57588
TWX: 610-641-9534
Cable: Assoclect

Manufacturer of "ANIPAK", an automatic telephone number identification system that generates and forwards to a billing centre the identity of the calling telephone number during long distance calls. ANIPAK can be added to electro-mechanical exchanges such as Step by Step, Crossbar, Semi-electronic. Over 800 systems installed in Canada, U.S.A., Jordan, Columbia, Pakistan. Also manufactures "TELEPAK/ERS", an emergency reporting system, that is microprocessor controlled with redundant processors and solid-state matrix, up to seven consoles answering "one-number emergency" calls, such as "911"; "999", serving 63 incoming lines 48 outgoing lines, provides calling number display, printout, street address interface; "TAS" Cord-type telephone answering switchboards, 100 lines; "EPC" Electronic Programmable Controller.

A.T.S. Inc. (Automation Tooling Systems Inc.)

80 Alpine Road
Kitchener, Ontario
Canada
N2E 1A1
Telephone: (519) 744-4400
Telex: 06-955193

Producer of fully integrated robotic manufacturing systems; intelligent vision systems; electronic component lead preparation systems; electronic component insertion systems; and soldering equipment.

Abroyd Communications Limited

614 Colby Drive
Waterloo, Ontario
Canada
N2V 1A2
Telephone: (519) 746-1743
Telex: 06-955187

Suppliers of towers for broadcast and communications industry; tower accessories; inspection and maintenance services. Also provide engineering services, consulting, and turn-key installation.

Accurate & Automatic Scale Companies Ltd.

2040 Ellesmere Road, Unit 15
Scarborough, Ontario
Canada
M1H 3A8
Telephone: (416) 438-4722
Telex: 06-526129

Developer of a software package for management information data collection that allows multiple weigh stations and other peripheral equipment such as bar code, label printers and scanners to be networked to a computer. Systems produce an audit trail record of all individual transactions and produce daily, weekly and monthly production, inventory and quality control records. Custom software program capabilities allow the flexibility to design systems to exact customer requirements; full turnkey responsibility.

ACDS Graphic Systems Inc.

100 Edmonton Street, #1
Hull, Québec
Canada
J8Y 6N2
Telephone: (819) 770-9631

Manufacturer, assembler and supplier of turnkey CAD/CAM systems. Software products run the UNIX operating system in the 'C' language. Products include systems for cartography, surveying, civil engineering, facilities management, utilities design and management, architecture, and engineering. Applications are available in 2D and 3D with an integrated data base management system. Hardware includes a full 32-bit super-micro computer with multi-workstation configuration capability.

ACME Engineering Products Ltd.

5706 Royalmount Avenue
Montreal, Quebec
Canada
H4P 1K5
Telephone: (514) 342-5656
Telex: 055-60546

Manufacturer of carbon monoxide detection and control units and central panels with multiple points of detection; diesel fumes control systems — combined gasoline and diesel detection systems with application in parking and service garages, tunnels, platforms for buses and truck terminals; air quality monitor controllers based on carbon dioxide concentration to control fresh air, with application in schools, public areas, hospitals, offices, and for industries using carbon dioxide to control their production.

Acrolab Instrument Ltd.

P.O. Box 2425, Walkerville PO
3421 Wyandotte Street East
Windsor, Ontario
Canada
N8Y 4S2
Telephone: (519) 944-5900
Telex: 064-77624

Manufacturer of heat pipes and super thermal conductive heat sinks used for cooling high density circuit arrays and high power semiconductors. Applications include communications systems, microwave systems, radar, and radio and television transmitters.

Adaptive Microelectronics Ltd.

97 Glen Cameron Road
Thornhill, Ontario
Canada
L3T 1N8
Telephone: (416) 881-4112
Telex: 06-986766

Manufacturer of a computerized security and energy management control system with full colour graphics display.

AEA Electronic Ltd.

P.O. Box 850
142 Perth Street
Richmond, Ontario
Canada
K0A 2Z0
Telephone: (613) 838-2554
Telex: 053-3878

Manufacturer of automatic test systems to test data modems, telephone channel simulators, wire line simulators.

AECL Medical (Atomic Energy of Canada Ltd.)

P.O. Box 13140
413 March Road
Kanata, Ontario
Canada
K2K 2B7
Telephone: (613) 592-2790
Telex: 053-4982
Cable: NEMOTA

Manufacturer of cobalt therapy machines.

AED Satellite Systems

5770 Royalmount Avenue
Montreal, Quebec
Canada
H4P 1K5
Telephone: (514) 739-1771

Manufacturer of satellite receivers for 3.7-4.2 GHz and 10.9-12.7 GHz; down-converters for use with C band TVRO systems; stereo processors for TVRO use; TVRO receivers for use in European marketplace (10.9-11.7 GHz) with internal antenna positioner and remote control; commercial quality C band detent tuning SMATV receivers.

Aerovox Canada Ltd.

P.O. Box 250
Chandler Road, Industrial Park
Amherst, Nova Scotia
Canada
B4H 3Z2
Telephone: (902) 667-3886
Telex: 019-22828
TWX: 610-272-4465

Manufacturer of capacitors, oil-filled and dry, primarily for AC applications such as power supplies, lighting and air conditioning.

AIT (Advanced Information Technologies) Corporation

1390 Prince of Wales Drive
Ottawa, Ontario
Canada
K2C 3N6
Telephone: (613) 226-7800
Telex: 053-3262

Manufacturer of optical character readers for automatic data entry of textual pages and documents, which read typed and printed text, numeric handprint, and marks for computer entry and document verification. Products include IMAGER 1000, IMAGER 1010, IMAGER 1020, IMAGER-EA, IMAGER-PV1, IMAGER-PV2, IMAGER-PS; and document scanner/digitizers.

Consulting services and turnkey computer systems development for communications, monitoring and control, and aerospace applications.

Alcohol Countermeasure Systems Inc.

1765 Shawson Drive
Mississauga, Ontario
Canada
L4W 1N8
Telephone: (416) 671-2288
Telex: 069-68538

Manufacturer of proprietary instrumentation for analyzing alcohol in the body through breath sampling, blood analysis and other techniques. Traditional customers have been governments, military, police and industry. Newer instruments have been designed for hospitals and clinics.

ALIS Inc., Arabic/Latin Information Systems Inc.

3410 Griffith Street
Saint-Laurent, Quebec
Canada
H4T 1A7
Telephone: (514) 738-9171
Telex: 05-824537

Manufacturer of bilingual (Arabic/Latin) computer peripherals and microcomputers. Bilingual, VT-100 compatible ALIS-970 video terminal; heavy duty cycle Arabic GENICOM 3304 printer; Arabic operating systems extension (BCON) for any MD-DOS based personal computer — enables any PC to handle Arabic without changing application software. Consultation services to Arabize existing computer systems with maximum cost-effectiveness.

Allotropac Inc.

33 Cranfield Road
Toronto, Ontario
Canada
M4B 3H2
Telephone: (416) 755-1191

Specialists in the production of printed wiring boards and interconnects. Standard and sculptured TM flexible circuits, commercial and military printed circuit boards from customer supplied negatives or artwork, multilayer boards up to sixteen layers, as well as complex double sided plated through hole boards. Batten Technologies Ltd., Toronto, and Hylogic Inc., Montreal and Ottawa, are subsidiary companies.

Allied Amphenol Products

44 Metropolitan Road
Scarborough, Ontario
Canada
M1R 2T9
Telephone: (416) 291-4401
Telex: 065-25210

Manufacturer and distributor of electrical/electronic connectors, coaxial cables and interconnector devices. These specialities are produced for the military/aerospace, business equipment, telecommunications and CATV markets.

Almax Industries Ltd.

61 Needham Street
Lindsay, Ontario
Canada
K9V 4Z7
Telephone: (705) 324-5100
Telex: 06-962907

Specialists in custom designed and manufactured lead zirconate/lead titanate piezoelectric ceramics type I, type II, type III, as well as surface acoustic wave devices, high frequency ceramics for microwave industry, SPN (sodium potassium niobate) for NDE and medical ultrasound imaging. Also manufacture B" alumina for TEG and high temperature zirconia kilns.

alphaNuclear Co.

1125 Derry Road East
Mississauga, Ontario
Canada
L5T 1P5
Telephone: (416) 676-1364
Telex: 06968073

Manufacturer of instrumentation for the exploration, geophysics, mining and environmental monitoring industries, particularly relating to uranium and its decay products (radon).

Amber Electro Design Inc.

4810 Jean-Talon Street West
Montreal, Quebec
Canada
H4P 2N5
Telephone: (514) 735-4105
Telex: 05-827598

Manufacturer of high performance audio analysers; distortion and noise measuring systems; transmission measurement and test systems; high speed plotters; PC-based instrument controller; audio filters.

Amdahl Communications Inc.

2330 Millrace Court
Mississauga, Ontario
Canada
L5N 1W2
Telephone: (416) 821-9900
TWX: 610-4928860

Designer and manufacturer of digital communications equipment, including multiplexing products that operate at trunk speeds from 56 kbps to 2.048 Mbps over such media as a 4-wire line, terrestrial microwave link, or satellite circuits. Channel rates range from 110 bps to 768 kbps. Also, limited-distance data sets, network synchronization equipment and digital repeater units. The company has broad experience in large networks and is one of the major suppliers to Canada's Dataroute® (the longest digital communications network in the world.)

®Dataroute is a registered trademark of Telecom Canada

Antares Telecommunications Inc.

38 Antares Drive
Nepean, Ontario
Canada
K2E 7Z2
Telephone: (613) 727-0334

Manufacturer of telephone sets, including the executive desk organizer BDD 600/610. The BDD is a telephone combined with leather blotter, calculator and clock. The telephone has 112-number memory, redials, hold link, handsfree, etc. functions.

Apollo Microwaves Ltd.

687 Lépine Avenue
Dorval, Quebec
Canada
H9P 1G3
Telephone: (514) 631-7644
TWX: 610-422-3043

Manufacturer of microwave components and subsystems for satellite communications, terrestrial relay systems, radar systems and special applications. Frequencies covered from 1 GHz to 40 GHz. Main products are filters; ferrite devices; couplers; terminations; adapters; high power components; diplexers; combining and switching networks.

Amnicon Corporation

340 Wildcat Road
Downsview, Ontario
Canada
M3J 2N5
Telephone: (416) 667-8461

Manufacturer of computer furniture; computer workstations; printer cabinets; custom moulding for computer and related products.

Applied Microsystems

2035 Mills Road
Sidney, British Columbia
Canada
V8L 3S1
Telephone: (604) 656-0771
Telex: 049-7181

Specialists in state-of-the-art design and manufacturing of instrumentation for oceanographic and geophysical applications worldwide. Engineering and design capabilities include development of sophisticated custom systems for underwater research, monitoring and data analysis. Extensive experience in custom electronics design for industrial and military applications. Wide range of field-tested, high performance instruments on a sale or lease basis, including devices to record tides, currents and waves; monitor conductivity, temperature, depth, and salinity; and measure ocean floor sediment temperature.

Anatek Microcircuits Inc.

240 Brooksbank Avenue
North Vancouver, British Columbia
Canada
V7J 2C1
Telephone: (604) 980-7061

Manufacturer of custom thick film hybrid microcircuits, active filters, RF filters/amplifiers/oscillators.

Andrew Antenna Company Limited

606 Beech Street
Whitby, Ontario
Canada
L1N 5S2
Telephone: (416) 668-3348
Telex: 06-981269
TWX: 610-384-2754
Cable: ANDCORP WHITBY

Designer and manufacturer of a complete line of terrestrial microwave antennae covering 1 to 23 GHz (0.6 to 4.6 m) and associated microwave components; complete line of earth station antennae covering 4 to 40 GHz (1.8 to 12 m); waveguide and coaxial cable; air traffic and weather radar antennae; navigation and landing aid antennae; special application antennae designed to exacting customer requirements; fully equipped anechoic chamber and test range facilities; production to internationally recognized government/military quality standards.

Aptec Engineering Limited

4251 Steeles Avenue West
Downsview, Ontario
Canada
M3N 1V7
Telephone: (416) 661-9722
Telex: 06527210

Manufacturer of hand and foot personnel contamination monitors; laundry monitors; floor monitors; geiger-mueller tubes; PC-based multichannel analyzer systems; high purity germanium gamma spectrometers; real time gamma analyzers.

Arlink Industries Div. of Arbell Inc.

P.O. Box 215
1187 King Road
Burlington, Ontario
Canada
L7R 3Y2
Telephone: (416) 632-9494
Telex: 061-8408

Manufacturer of workbenches, workstations, assembly and storage systems for field support, service and maintenance of general electronic, telecommunications and computer products. Systems can also be supplied as integral components or for manufacturing purposes related to same. All systems are supplied in kit form as modular components for customer erection on site. Light fixtures and electrical outlet modules adaptable to most commonly used electrical standards.

Armstrong Monitoring Corp.

215 Colonnade Road South
Nepean, Ontario
Canada
K2E 7K3
Telephone: (613) 225-9531
Telex: 0534895

Manufacturer of a complete product line in both fixed and portable systems capable of detecting a wide range of hazardous gases, such as hydrogen sulphide, carbon monoxide, ammonia, chlorine, methane, and oxygen deficiencies, etc.

Audor Communications Inc.

2700 Lancaster Road
Ottawa, Ontario
Canada
K1B 4T7
Telephone: (613) 523-9933
Telex: 053-3172

Manufacturer of air and marine traffic control communications systems, turnkey projects; voice communications control equipment — solid state and micro-processor based radio/telephone patching, radio/antenna switch systems; VHF direction finders — Quasi Doppler, VHF/UHF transmitters/receivers; lightning protectors; digital clocks; master slave systems. Custom design of ATC and marine CC systems, installation, training off-shore.

B&K Industries Ltd. Vacuum Platers Inc.

9790 Meunier Street
Montreal, Quebec
Canada
H3L 2Y8
Telephone: (514) 381-8031
Telex: 05-826511

Manufacturer of knobs used for electronic devices — plastic with aluminum or brass bushings and set screws; die cast, plastic nameplates, epoxy filled or hot stamped; facilities to shield plastic cases or enclosures against electromagnetic and radio frequency interference; push buttons; slide controls; bar knobs; and escutcheons.

B&L Coaxial Connections Limited

50 Silver Star Boulevard, Unit 209
Scarborough, Ontario
Canada
M1V 3L3
Telephone: (416) 292-3906
Telex: 065-25165

Manufacturer of a complete line of field installable rf coaxial BNC/TNC connectors. Completely reusable, these devices are a one-piece design and require no special tools; they can be terminated in 40 seconds or less. Also manufacture twin axial rf coaxial connectors.

B. E. L-Tronics Limited

2422 Dunwin Drive
Mississauga, Ontario
Canada
L5L 1J9
Telephone: (416) 828-1002
Telex: 06-960397

Designer and manufacturer of high technology electronic products which include a complete satellite system consisting of dish antennae, LNB, block downconverter, stereo receiver and satellite accessories; and the Micro Eye radar detector line consisting of Micro Eye Supreme, Micro Eye Vector and Micro Eye Express.

Bach-Simpson Limited

1255 Brydges Street
London, Ontario
Canada
N5W 2C2
Telephone: (519) 452-3200
Telex: 064-5843

Manufacturer of electronic instruments for measuring electrical quantities for educational, maintenance and laboratory testing, both as portable instruments and panel meters. Also make a wide range of special products, including an illuminated speedometer for locomotives.

Bailey Controls

860 Harrington Court
Burlington, Ontario
Canada
L7N 3N4
Telephone: (416) 639-8840
Telex: 061-8506

Supplier of microprocessor based industrial control systems including modulating control, sequential control, data acquisition and supervisory control. Complete control requirements for industrial boilers and for fossil and nuclear generating stations.

Ballard Technologies Corp.

1164 — 15 Street West
North Vancouver, British Columbia
Canada
V7P 1M9
Telephone: (604) 986-9367
Telex: 04-352848

Manufacturer of equipment for lithium battery production; turnkey battery plants; specialized battery packaging.

Technical services in all aspects of portable energy — chemical systems research product development and manufacturing equipment design.

Barringer Research Ltd.

304 Carlingview Drive
Rexdale, Ontario
Canada
M9W 5G2
Telephone: (416) 675-3870
Telex: 06-989183

A high technology research and development and hydro-carbon and mineral exploration company whose skills include geochemistry, electro-optics, electromagnetics, magnetics and atmospheric physics. The company's research and development efforts have resulted in patented and proprietary instruments, instrument systems and techniques used in airborne and ground exploration, environmental monitoring, process control and metal detection. Products and services exported include COSPEC®, a remote sensor of SO₂ and NO₂; field portable hand held ratioing radiometer, visible and IR; total field marine and base station magnetometers; REFSPEC™, a field visible and near infrared spectro-radiometer; heavy water on-line analyzers for the nuclear industries; geo-chemical training.

Base Ten Canada Ltd.

301 Weston Street, Unit E
Winnipeg, Manitoba
Canada
R3E 3H4
Telephone: (204) 786-1416

Designer and manufacturer of customized electronic devices for the telecommunications and health care industries. Products have been developed to interface with Base Ten Versus derived local channel alarm transport system.

Bayly Engineering Ltd.

167 Hunt Street
Ajax, Ontario
Canada
L1S 1P6
Telephone: (416) 683-8200
Telex: 06981293

Manufacturer of voice/data multiplexers — drop and insert, T1 or CCITT standard program channels, digital/analog, stereo; party line signalling equipment; control systems for radio and telephone communications; open wire carrier; telecommunications; filters and wire-wound components; line conditioning products; FM broadcast transmitters and associated products. Electrical and electronic subcontract manufacturing.

Beel Electronics Inc.

2650 Pitfield Boulevard North
Montreal, Quebec
Canada
H4S 1G9
Telephone: (514) 334-6500
Telex: 05-824775

Manufacturer of solid state controllers for motor speed control, including dc and ac adjustable speed drives; electronic motor brakes; solid state motor starters; static regulators for voltage, current, speed; ac power controllers for torque, heat; power rectifiers for cranes, magnets, hoists.

Bendix Avelex Inc.

200 Laurentian Boulevard
Montreal, Quebec
Canada
H4M 2L5
Telephone: (514) 744-2811
Telex: 05-826688

Manufacturer of land navigation systems for military vehicles; gun alignment units; aircraft engine fuel controls; infrared links; computerized field test equipment; torque measuring systems; electronic limiters. Custom engineered products and aerospace quality precision machining, as well as repair and overhaul services.

Beta Monitors & Controls Ltd.

300 - 1615 - 10 Avenue Southwest
Calgary, Alberta
Canada
T3C 0J5
Telephone: (403) 245-5300

Manufacturer of electronic instruments for the maintenance of rotating and reciprocating equipment. Predictive maintenance based on direct communication between instrument and personal computer is a reality for both these equipment types. Recip-Trap especially is unique with all the capabilities of engine analyzers but is "worn", takes data in seconds and provides history and trending.

BGI/Automatec

7700, rue de Lamartine
Montreal, Quebec
Canada
H1U 2A8
Telephone: (514) 353-8940
Telex: 05-828680

Manufacturer of SCADA systems; fault location systems; sequence of events recorder; intelligent annunciators; transient fault recorders; remote terminal units; utility power distribution; sub-station equipment; programmable controllers; motors and variable speed drivers.

Biosig Instruments Inc.

5471 Royalmount Avenue
Montreal, Quebec
Canada
H4P 1J3
Telephone: (514) 733-3362
Telex: 05-826653

Designer and manufacturer of biomedical electronics. Products include heart rate monitors for all applications; muscle analysers; EMG monitors; anti-tension devices; anti-headache devices; exercise devices. Brand names: INSTA-PULSE, TELE-PULSE, ELECTRONIC GYM, MINI INSTA-PULSE, ANTENSE, ANTACHE, EXERLOPERS.

BMB Compuscience Canada Limited

500 Steeles Avenue
Milton, Ontario
Canada
L9T 3P7
Telephone: (416) 876-4741

Manufacturer of Imaginet, a medium performance (up to 2 Mbps) local area network for microcomputers, using a low-cost dual twisted pair transmission medium and an SDLC-based communication protocol. Interfaces are available for IBM PC (and compatibles) and DEC Rainbow computers. Through the network, computers are able to share disk images up to 32 Mbytes and printer devices, with several levels of protection. On the IBM PC, the network can be configured transparently so that any floppy-based operating system can access the network without requiring a driver. With MS-DOS, drivers can be installed to gain more capabilities.

Bolriet Technologies Inc.

P.O. Box 53
150 Mill Street
Carleton Place, Ontario
Canada
K7C 3P3
Telephone: (613) 257-7131

Manufacturer of standard and custom microwave and millimetre wave circuits and components, utilizing a proprietary thin film process on substrates; strip-line, microstrip, finline, and E-plane filters, phase shifters, oscillators, couplers etc.

Bomem Inc.

625, rue Marais
Vanier, Quebec
Canada
G1M 2Y2
Telephone: (418) 683-1707
Telex: 051-3438

Manufacturer of Fourier Transform Infrared Spectrophotometers (FTIR), research grade infrared spectrophotometers with capability to cover optional spectral ranges from far infrared (5 cm^{-1}) through to soft ultraviolet ($50,000\text{ cm}^{-1}$). The spectral resolution of the base system is 0.02 cm^{-1} , which may be optionally increased to 0.002 cm^{-1} . A complete line of sample handling accessories include gas cells; liquid cells; Attenuated Total Reflection (ATR), Diffuse Reflection (DRIFT); specular reflection; IR microscope; photoacoustic spectroscopy accessory; gas chromatograph interface, etc. Systems for remote source and environmental monitoring are also available.

Boston Insulated Wire Limited

P.O. Box 70, Station B
118 Shaw Street
Hamilton, Ontario
Canada
L8L 7V3
Telephone: (416) 529-7151
Telex: 061-8684

Manufacturer of multi-conductor shielded and non-shielded control cables; combination cables incorporating power control and communications in one cable; underwater umbilical cables; TV assemblies complete with connectors; elevator control cables; mil-spec cables. Special design features available to meet severe environmental conditions.

Bristol Aerospace Limited

P.O. Box 874
660 Berry Street
Winnipeg, Manitoba
Canada
R3C 2S4
Telephone: (204) 775-8331
Telex: 07-57774
TWX: 610-671-3598

Manufacturer of automatic aviation weather stations (READAC) performing local data storage as well as interfacing with GOES Satellite, VHF radio etc.; meteorological and hydrological data collection systems (HYDROMET) interfacing with anemometers, water level sensors, lightning detectors, ice out sensors etc.; telemetry equipment; high altitude research rockets and payloads; data instrumentation for satellite payloads; portable SAR beacons compatible with SRSAT; and various devices under development.

Bristol of Canada

234 Attwell Drive
Rexdale, Ontario
Canada
M9W 5B3
Telephone: (416) 675-3820
Telex: 069-89176

Manufacturer of distributed telecontrol systems (SCADA systems); distributed process control systems; tele-metering equipment, analog and digital; recorders; controllers, electronic and pneumatic; transmitters; voltmeters and ammeters (recording); pressure and temperature gauges.

Brown Manufacturing Ltd.

31 Progress Avenue, Units 14-17
Scarborough, Ontario
Canada
M1P 4S6
Telephone: (416) 298-0560
Telex: 065025175

Manufacturer of switching power supplies from 70 to 1500 watts and 2 to 1000 volts; high performance, high density ($>3W/cu. in.$) multiple output supplies for computers and telecom with CSA, UL, TUV, FCC approvals; custom, semi-custom and standard products 25-200 kHz, using proprietary magnetic amplifiers and in-house magnetics; SMPS with integrated UPS (battery backup). Application assistance available.

Broy Engineering Ltd.

92 Advance Road
Toronto, Ontario
Canada
M8Z 2T7
Telephone: (416) 231-5535

Manufacturer of deflection yokes for use in CRT displays and video monitors at scanning frequencies up to 64 kHz.

Bryston Ltd.

57 Westmore Drive
Rexdale, Ontario
Canada
M9V 3Y6
Telephone: (416) 746-1800
Telex: 06-989548

Manufacturer of high quality audio products, principally power amplifiers and pre-amplifiers for use in the industrial, broadcast, professional and home Hi-Fi audio markets.

Bumdy Inc.

80 Bullock Drive
Markham, Ontario
Canada
L3P 4P7
Telephone: (416) 294-6634
Telex: 06-986890

Manufacturer of electrical connectors and wiring accessories, including IC sockets; printed circuit edge connectors; terminal bugs and links; wire splices; and nylon cable ties.

C-Tech Ltd.

525 Boundary Road
Cornwall, Ontario
Canada
K6H 6N7
Telephone (613) 933-7970
Telex: 05-811538

Manufacturer of sonar systems and subsystems; underwater acoustic transducers, 50 Hz to 200 kHz; electronic scan switches; multiplexers; filters; power amplifiers; power supplies; transformers and inductive components; radar components and subsystems; standard electronic modules to MIL-M-28787; wire harnesses; wire-wrap assemblies; and custom electronic assemblies.

C.L. Computer Logics Ltd.

6330 Viscount Road
Mississauga, Ontario
Canada
L4V 1H3
Telephone: (416) 671-2715
Telex: 06-968636

Manufacturer of electronic printed circuit boards, single-sided, double-sided, and multi-layered, to be used with computer software, industrial controls, security systems, intercoms, etc. Also make communication boards that are the hardware components of emulation packages.

C.R. Snelgrove Company Div. of Leigh Instruments Ltd.

141 Bond Avenue
Don Mills, Ontario
Canada
M3B 1M2
Telephone: (416) 447-8531
Telex: 069-66626

Manufacturer of quartz crystals (5 kHz to 200 MHz); quartz crystal filters (30 kHz to 120 MHz); crystal oscillators including temperature compensated types (TCXOs), clock oscillators and voltage controlled crystal oscillators (VCXDs); crystal ovens; frequency synthesizers. Quality levels: Canadian DND 1015; USA MIL-Q-9858; NATO; AOAP-1.

C.V.D.S. Inc.

160 Graveline Street
Saint-Laurent, Quebec
Canada
H4T 1R7
Telephone: (514) 342-9861
Telex: 05-824778

Manufacturer of power supplies for computer and similar applications, (100 watts to 1000 watts); tele-protection and remote control monitoring systems for hydro utilities and airports; specialized communications equipment for voice and data applications; communications modems (Speech Plus); filters, transformers and inductive components for communications systems, etc.

Cable Assembly Systems Ltd.

P.O. Box 607
432 Elgin Street
Brantford, Ontario
Canada
N3T 5P9
Telephone: (519) 759-4401

Manufacturer of computer cable interface assemblies; connectors; and switch boxes.

Cableshare Inc.

20 Enterprise Drive
London, Ontario
Canada
N6A 4L6
Telephone: (519) 686-2900
Telex: 064-5693

Manufacturer of communications products such as X.25 packet networks, front-end processors, data concentrators, PADS, custom software; other electronic marketing products include Touch N' Shop interactive videodisc/computer graphics/touch screen systems, picture painter graphics workstation; and business systems accounting software, cable television accounting software, and electronic mail.

Cadence Computer Corporation

P.O. Box 13025
303 Legget Drive
Kanata, Ontario
Canada
K2K 1X3
Telephone: (613) 592-5780

Manufacturer of the SP1018 MRP accelerator, a special purpose parallel processing computer that runs full MRP (material requirements plan) within five minutes. Data is extracted from a user's existing MIS system and transferred to the SP1018 where it may be manipulated between iterative MRP runs.

CAE Electronics Ltd.

P.O. Box 1800
8585 Cote de Liesse Road
Saint-Laurent, Quebec
Canada
H4T 1G6
Telephone: (514) 341-6780
Telex: 05-824856
TWX: 610-422-3063

Manufacturer of flight and tactical mission simulators, power plant simulators, supervisory control and data acquisition (SCADA) systems, energy management systems, magnetic anomaly detection (MAD) systems, multi-axis hand controllers.

Califone Industries Ltd.

1305 Odium Drive
Vancouver, British Columbia
Canada
V5L 3M1
Telephone: (604) 254-5148
Telex: 04-54521

Manufacturer of high quality rugged audio visual equipment designed specifically for the educational/industrial and institutional training markets. Products include heavy duty classroom phonographs; PA systems; tape recorders; listening centers; headphones; and language laboratories.

Calmos Systems Inc.

20 Edgewater Street
Kanata, Ontario
Canada
K2L 1V8
Telephone: (613) 836-1014
Telex: 053-4501

Manufacturer of VLSI (very large scale integrated circuits) chips based on the CMOS (complimentary metal-oxide semiconductor) process. Main products and services: CMOS microprocessors and related products; digital signal processing products; defence-oriented products designed into VHSIC (very high speed integrated circuitry) radiation hardened technology; custom and semi-custom IC designs.

Camptech Circuits Inc.

81 Bentley Street
Markham, Ontario
Canada
L3R 3L1
Telephone: (416) 298-9974
Telex: 06-986642

Manufacturer of single-sided, double-sided, multi-layer and prototype printed circuit boards.

Canada Wire and Cable Limited

250 Ferrand Drive
Don Mills, Ontario
Canada
M3C 3J4
Telephone: (416) 424-5276

Manufacturer of electronic wire and cable and communications cables, including fibre optics. Cables are used in instrumentation, computer applications and telecommunications systems.

Canadian Applied Technology (CAT)

16th Avenue
Buttorville Airport
Markham, Ontario
Canada
L3P 3J9
Telephone: (416) 477-6681
Telex: 06986511

Designer and manufacturer of data acquisition, telemetry and processing systems for environmental and industrial remote monitoring and control. Applications include air quality and meteorological monitoring, water resource management, water distribution system monitoring and control, efficiency monitoring for fossil fuel fired boilers. Product line consists of the 2200 series of data loggers/RTUs; 8110 central control/processing units; personal computer compatible RDAS software. Turnkey suppliers for small stand-alone systems to large networks.

Canadian Astronautics Limited

1050 Morrison Drive
Ottawa, Ontario
Canada
K2H 8K7
Telephone: (613) 820-8280
Telex: 053-3937

Manufacturer of TASS — RF signal simulators for electronic warfare training, maintenance and evaluation; space hardware — scientific instruments, spacecraft antennae, and power management, space studies; SARSAT ground stations for search and rescue systems; fast-multidimensional processing system (FMPS) — high volume processor for classification of LANDSAT-D images; direct reading radiation dosimeters; sonar — sonar and sonobuoy processing and display equipment, acoustic signal simulators, beamformers; radar systems — side-looking airborne radar (SLAR), terrestrial radar, antennae, phase shifters, microwave-landing system components, synthetic aperture radar (SAR); hydrographic instruments; Arctic acoustic research and development; unattended navigation and communications beacons for remote areas; and electronic message system.

Canadian Cabinets Company Limited

P.O. Box 11336, Station H
25F Northside Road
Nepean, Ontario
Canada
K2H 7V1
Telephone: (613) 829-1433
Telex: 053-3590

Manufacturer of laminar flow clean air work stations; fume hoods; glove boxes; polypropylene wet stations; HEPA filter ceiling modules; modular clean rooms; air showers; electronic work tables. High quality environmental air control equipment for use in such fields as bio-engineering, microelectronics, computer assembly, aerospace, small parts assembly, radioisotope handling and electronics.

Canadian General Electric

100 Wingold Avenue
Toronto, Ontario
Canada
M6B 1R2
Telephone: (416) 530-5841

Manufacturer and supplier of commercial mobile communications products and systems. Special applications can be addressed with hardware and software design capabilities. Mobile portable and station products can be supplied in the 30, 150, 450, and 800 MHz bands.

Canadian Instrumentation and Research Ltd.

2211 Durwin Drive
Mississauga, Ontario
Canada
L9T 2Y3
Telephone: (416) 828-1456

Custom designer of fibre optic-based subsystems for U.S.-based aerospace OEMs and the Canadian government. Also a manufacturer of standard fibre optic sensors and couplers, optical-based interferometers and power supplies. Products include a fibre optic gyro sensor, used as a rotational device in navigation systems; and a fibre optic-based hydrophone for anti-submarine warfare applications. Turnkey systems capability also provided.

Canadian Larsen Electronics Ltd.

149 West 6th Avenue
Vancouver, British Columbia
Canada
V5Y 1K3
Telephone: (604) 872-8517
Telex: 04-54666

Manufacturer of two-way radio antennas.

Canadian Marconi Company

2442 Trenton Avenue
Montreal, Quebec
Canada
H3P 1Y9
Telephone: (514) 341-7630
Telex: 05-827822
TWX: 610-421-3564

Design, development, manufacture and support of specialized high technology equipment for military and commercial markets, exporting more than 80% of production. Generic product categories encompass avionics, specialized components, data communications, defence communications and navigational/surveillance radar.

Canadian RGL Electronics Div. of Direct Digital Industries

34 Continental Place
Scarborough, Ontario
Canada
M1R 2T4
Telephone: (416) 292-2286
Telex: 065-25248

Manufacturer of micro-computer-based tank gauging and oil movement control systems for the chemical and petroleum industries, utilizing hydrostatic techniques as well as float-type gauging. Full supervisory control systems based on multiplexing techniques with both "dumb" and "smart" remote terminal units. Accepts digital, 4/20 mA, and low-level analog, pulse and micro-computer-based inputs.

Canadian Scale Company Limited

305 Homer Avenue
Toronto, Ontario
Canada
M8W 1Z4
Telephone: (416) 259-1111
Telex: 06967599
Cable: CANSCALE

Manufacturer of electronic weigh scales and computer systems; in-motion railroad and motor truck scales; static railroad and motor truck scales; electronic hopper and tank scales; electronic industrial platform scales; batching and control systems; indoor and outdoor display signs; electronic livestock auction systems; electronic crane scales. Repair and overhaul.

Canadian Thermostats and Control Devices Ltd.

8415 Mountain Sights Avenue
Montreal, Quebec
Canada
H4P 2B8
Telephone: (514) 739-3274
Telex: 05-825619

Manufacturer of NTC switching thermistors, brand-named Moxies®. Units are commonly used as over-temperature protectors in electronic equipment, and as heat detecting sensors in consumer appliances (i.e. the heat detection component of a smoke and fire detector).

Canstar Communications Div. of Canada Wire and Cable Limited

1240 Ellesmere Road
Scarborough, Ontario
Canada
M1P 2X4
Telephone: (416) 293-9722
Telex: 065-25403

Manufacturer of fibre optic cables, systems and sub-systems; local area networks; fibre optic couplers and cords. Complete EF&I (Engineer, Furnish and Install) capability on all products.

Canutel Industries Ltd.

P.O. Box 610
Canutel Avenue
College Heights, Alberta
Canada
T0C 0Z0
Telephone: (403) 782-4838

Contract assembly and manufacturing of high technology professional equipment developed and designed by the customers. Approved for military specifications: MIL-I-45208A, MIL-LTD-454.

Carriere Technical Industries Inc.

195 Nantucket Boulevard
Scarborough, Ontario
Canada
M1P 2P3
Telephone: (416) 757-5103
Telex: 06-963779

Manufacturer of cables and wiring harnesses for the computer, telecommunications and business equipment industries.

Caulfield Engineering

P.O. Box 607
2003 — 5 Street
Nisku, Alberta
Canada
T0C 2G0
Telephone: (403) 955-7290

Complete computer interface engineering services, specializing in state-of-the-art sonar technologies, including stereo sub scan, sub-bottom analysis and ship's speed meter. All computer-based work is on the CE7000 and CE8000, ruggedized field computers built in-house. Current work involves the development of a high-speed ultrasonics metal inspection system, marketed largely to the oil and gas and defense industries.

CD Power Measurement Ltd.

6702 Rajpur Place
Victoria, British Columbia
Canada
V8X 3X1
Telephone: (604) 652-5118
Telex: 049-7347

Manufacturer of digital power monitoring systems, providing digital readout, 36-day non volatile memory, remote access by terminal or computer and ASCII formatted data. Continuous readings are taken of voltages, currents, and hertz for all three phases in 3-phase systems. The information may be used to monitor performance, energy surveys, reduce demand or energy charges, reduce incidence of unscheduled shutdowns.

Celibec

307A Saint-Georges Street
Trois-Rivières, Quebec
Canada
G9A 2K4
Telephone: (819) 373-2367

Manufacturer of a computer assisted design and drafting system for architectural, engineering, municipal services and special applications. Includes basic software, graphic interface and drivers for peripheral equipment.

Cemcorp

1300 Bay Street
Toronto, Ontario
Canada
M5R 3K8
Telephone: (416) 922-4180

Designer and manufacturer of educational microcomputer products. The ICON system includes an advanced student workstation including voice and colour capabilities networked in the classroom using a 70MB file server. Canadian manufactured software from Watcom and Quantum is bundled in the system with an advanced ICONIC user interface.

Central Dynamics Ltd.

147 Hymus Boulevard
Pointe-Claire, Quebec
Canada
H9R 1G1
Telephone: (514) 697-0810
Telex: 05-821506
TWX: 610-422-3906

Manufacturer of television and video production equipment for use by broadcasters, common carriers, and other industrial and commercial users of professional video, switching, distribution and processing equipment. The product line encompasses video production switchers; video and audio routing switchers; master control switchers; distribution amplifiers; and keying equipment.

Centrodyne Inc.

3485 Thimens Boulevard
Montreal, Quebec
Canada
H4R 1V5
Telephone: (514) 331-8760
Telex: 05824659

Electronic taxi meters, electronic trip recorders.

Chimo Equipment Ltd.

909 — 7 Avenue Southwest
Suite 100
Calgary, Alberta
Canada
T2P 1A6
Telephone: (403) 264-2245
Telex: 03-826585

Manufacturer of Watchdog electronic drilling instrumentation: Watchdog Model 101, flow sensor and trip monitor; Model 202, trip guard; Model 303, pit volume totalizer; Model 404, H₂S and combustible gas detector; Model 505, pump stroke counter; Model 606, loss/gain indicator; and Model 1010, surface and system.

Chubb Security Systems Div. of Racal-Chubb Canada Limited

5201 Explorer Drive
Mississauga, Ontario
Canada
L4W 4H1
Telephone: (416) 629-2600
Telex: 06-960136

Manufacturer of computerized, multiplexed card access control systems for commercial and industrial applications; computerized monitoring systems for security, building management and fire alarm systems applications; Halon and CO₂ fire extinguisher systems; fire alarm systems. Full engineering and design assistance as well as turn-key capabilities for all systems.

Circo-Craft Company Inc.

17600 Trans Canada Highway
Kirkland, Quebec
Canada
H9J 3A3
Telephone: (514) 694-8000
Telex: 05-823523
TWX: 610-531-6600

Manufacturer of printed circuit boards — high density, double-sided with plated-through-holes; multi-layer boards; back panels; stripline circuits; microwave circuits; solder mask over bare copper with selective solder coating; surface mount components; controlled impedance, heatsink and metal core boards. Microelectronics and surface mount — thick-film circuits, surface mount assembly for telecommunications, computers, high reliability electronic equipment manufacturers and non-commercial manufacturers.

Circuit Graphics Ltd.

8030 Winston Street
Burnaby, British Columbia
Canada
V5A 2H5
Telephone: (604) 420-3313

Manufacturer of printed circuit boards up to double side plated through holes.

Collison-Goll Limited

41 Millwick Drive
Weston, Ontario
Canada
M9L 1Y4
Telephone: (416) 741-8981

Manufacturer of fuel pump and automatic choke parts; electrical component parts made from bar stock; mounts for electron microscopes; other screw machine products.

Com Dev Ltd.

155 Sheldon Drive
Cambridge, Ontario
Canada
N1R 7H6
Telephone: (519) 622-2300
TWX: 610-366-3164

Designer and manufacturer of millimetre-wave, microwave and SAW enhanced subsystems; applications include defence, radar communication satellite and earth station systems; with related systems engineering and consulting services. Manufactured products include contiguous and non-contiguous dual-mode multiplexers; filters; antenna subsystems; isolators; terminations; telemetry and command preselect filters; variable power dividers; antenna diplexers; polarization switches and beam reconfiguring subsystems for critical high power and low loss applications.

Com-Sat Systems Ltd.

1230 Sherwin Road
Winnipeg, Manitoba
Canada
R3H 0V3
Telephone: (204) 694-0198

Manufacturer of antennas which are very compact and easy to ship; electronic components; and a wide variety of satellite tracking devices, cable, and other forms of TVRO equipment.

Cominco Ltd. Electronic Materials Division Semiconductor Plant #1

Trail, British Columbia
Canada
V1R 4L8
Telephone: (604) 364-4782
Telex: 04-14426

Manufacturer of seventeen pure metals, in purity levels ranging from 5/9 pure to 7/9 pure (or higher), produced primarily for the solid state electronics industry; plus seven compound semiconductors in polycrystalline, single crystal, and finished wafer form, produced for use in manufacturing infrared detectors, discrete devices, ICs. (Gallium arsenide, indium antimonide, cadmium mercury telluride, cadmium telluride, mercury telluride, indium arsenide, gallium antimonide, and germanium.)

Commercial Electronics Ltd.

1335 Burrard Street
Vancouver, British Columbia
Canada
V6Z 1Z7
Telephone: (604) 669-5525
Telex: 04-54470

Manufacturer of audio visual control systems; multi-image programming systems; sound imaging systems.

Communication Devices Inc.

670 Progress Avenue
Scarborough, Ontario
Canada
M1H 3A4
Telephone: (416) 439-6320
Telex: 065-25428

Manufacturer of teledata components consisting of jacks; jack panels; coaxial components; attenuators; matrix selector switches; digital cross connect jack-fields; rocker and toggle switches; patch cords; and fibre optic components.

Compar Connectors Div. of DGW Electronics Corporation

85 Spy Court
Markham, Ontario
Canada
L3R 4Z4
Telephone: (416) 475-8500
Telex: 06-966600

Manufacturer of printed circuit edge cards, and Delta "D" subconnectors and accessories for the telecommunications and computer industries.

Comptec International Ltd.

7847 Venture Street
Burnaby, British Columbia
Canada
V5A 1V1
Telephone: (604) 420-2830
Telex: 04354548

Manufacturer of two-shot moulded keytops for computer peripheral devices; electronic keyboard components (plastics); sublimated keytops; sublimation systems; custom moulded products; custom pad printing of plastic components; custom packaging of keytops and related components. Recognized leader in the engineering and manufacture of custom membrane switches, keypads and digitizer grids; capabilities include complete engineering, prototyping and production. Design features include tactile feel switching, graphics with options such as embossing and selective texturing, packaging of LED readouts and incorporation of interfacing plastic components for total package capability.

Computational Methods Ltd.

81 Jean-Proulx Street
Hull, Quebec
Canada
J8Z 1W2
Telephone: (819) 778-2053
Telex: 053-3530

Manufacturer of communication switching systems for applications such as air traffic control, military command and control, police communications and switching systems for civilian uses; voice and data switching systems for the OEM market incorporating TDM and PCM digital technologies; and data-over-voice modems for 4-wire transmission facilities.

Computer Assembly Systems Ltd. (COMPAS)

1245 California Avenue
Brockville, Ontario
Canada
K6V 5Y6
Telephone: (613) 342-5041
Telex: 066-36574

Provider of contract electronic manufacturing services to the electronics industry, including automatic printed circuit board assembly, soldering and test. Final assembly and product packaging can also be provided. The firm's facilities can handle high volume production runs as well as prototype quantities and development orders. Associated firms also provide contract design and product development capabilities.

**Computing Devices Company
Div. of Control Data Canada Ltd.**

P.O. Box 8508
3685 Richmond Road
Nepean, Ontario
Canada
K1G 3M9
Telephone: (613) 596-7000
Telex: 053-4139
TWX: 610-563-1632

Manufacturer of defence electronics systems and subsystems, including anti-submarine warfare; acoustic signal processing and display systems for airborne, shipboard and submarine applications; digital fire control systems for tanks, combat vehicles and artillery; digital display systems, comprising raster scan conversion TV and electroluminescent flat panel techniques; security intrusion detection systems using guided radar and automatic video processing principles; military jet engine; thrust computing systems; and infrared processing equipment.

Computrol Systems Ltd.

755 Terminal Avenue
Vancouver, British Columbia
Canada
V6B 3X9
Telephone: (604) 684-5961

Manufacturer of access control systems utilizing protected card building access, hosted on IBM/XT, up to 228 readers, state-of-the-art security software; and stand-alone fuel control systems designed for industrial environments.

Comspec Communications Inc.

153 Bridgeland Avenue, Unit 5
Toronto, Ontario
Canada
M6A 2Y6
Telephone: (416) 787-0617

Manufacturer of micro-computer peripherals and accessories; multi-user networking and sharing systems permitting multiple users to share common resources; printer buffering devices; expansion memory boards. Products designed for use by Commodore and IBM PCs, which can also be used on wide variety of computers.

Comterm Inc.

110 Hymus Boulevard
Pointe-Claire, Quebec
Canada
H9R 1E8
Telephone: (514) 694-4332
Telex: 05-821812

Designer and manufacturer of IBM-compatible and ASCII-type terminal systems (terminals, printers and controllers) with multilingual capabilities, as well as bilingual (French-English) IBM-compatible microcomputers. The company is also involved in designing and implementing custom-tailored office systems designed to meet the individual office automation needs of its customers. In addition, the company manufactures various kinds of electronic equipment and components, designs circuit boards and mounts and tests circuit board assemblies.

Conspec Controls Ltd.

44 Martin Ross Avenue
Downsview, Ontario
Canada
M3J 2K8
Telephone: (416) 661-0500

Manufacturer of a wide range of systems designed to monitor, control and integrate the operations of underground mining equipment and above-ground preparation plants. Also provides management data such as preventative maintenance work orders, stoppage analysis and custom reports. The system features a unique multiplexer which connects to each individual device rather than wiring to large multiplexer panels.

Consulab Inc.

415, avenue des Laurentides
Beauport, Quebec
Canada
G1C 4R9
Telephone: (418) 661-3701
Telex: 051-3078

Manufacturer of products for teaching electricity and electronics, practical exercises on rotary machines, on transmission lines and as introduction to electricity and electronics. Producer of power rating regulating systems; systems and control panels, and telemetry; starters for heating and ventilation systems. Offers design and engineering services in automation systems for industrial and commercial uses.

Consultronics Ltd.

160 Drumlin Circle
Concord, Ontario
Canada
L4K 2T9
Telephone: (416) 738-3741

Manufacturer of digital network monitors for multiplexed transmission including DS-3, DSO, DS-1, DS-K, DS-A, DS-4, 2.0 MB/S, 8.0 MB/S, 34 MB/S, 140 MB/S; down converters — DS-3 to DS-1; analog transmission monitor for the measurement of drop-outs, level deviation, phase hits, phase jitter, amplitude hits impulse noise, S/N ratios on voice frequency transmission lines; audio analyzer systems; power line monitors; modem test systems; transducers for the power industry; signal generators (low distortion); fixed frequency generators; "Jitterbug" — hand held phase jitter meter.

Control and Metering

One Westside Drive
Toronto, Ontario
Canada
M9C 1B2
Telephone: (416) 626-8411
Telex: 06967647

Manufacturer of industrial instrumentation products for the continuous weighing and controlled rate metering (feeding) of dry chemicals and the batch feeding of chemicals. Gravitric feeders include both belt type and continuous loss in weight. Feeder controllers are microprocessor based and high accuracy is provided. Environmental controls include complete programmable controller based systems with colour graphic operator interface. All software is proprietary.

Control Data Canada, Ltd.

1855 Minnesota Court
Mississauga, Ontario
Canada
L5N 1K7
Telephone: (416) 826-8640

Designer and manufacturer of all CYBER 810 and 830 full-scale computer systems marketed worldwide by Control Data Corporation. A division, Computing Devices Company (see separate listing), designs, develops and manufactures a number of aerospace and defence industry computer-based products marketed worldwide.

Control Dynamics (Kitchener) Inc.

P.O. Box 485
507 Frederick Street
Kitchener, Ontario
Canada
N2G 4A2
Telephone: (519) 576-4311

Manufacturer of digital telecommunications control peripheral features for telephone system. These include both hardware and software components. Specific products include IBM- and Apple-compatible accounting systems; toll denial; tone-to-pulse converters; and S-100 peripherals.

Corrigan Instrumentation Services Ltd.

330 Guelph Street, Unit 8
Georgetown, Ontario
Canada
L7G 4B5
Telephone: (416) 877-2273
Telex: 06-97862

Manufacturer of cabinet type and conveyor belt X-ray security systems; X-ray quality control systems for process production systems; security walk-through and conveyerized metal detectors; and a magnetic analyser primarily used in the mining industry.

Cramco Solder Alloys Division of Hanson Inc.

80 Sinnott Road
Scarborough, Ontario
Canada
MIL 4M7
Telephone (416) 757-2876
Telex: 06-963850

Manufacturer of solder creams for surface mount components; preforms and spheres for automation soldering; flux cored wire — water soluble rosin ww rosin meeting specs for r, rma, ra, organic core including sc77 for stainless steel, acid core; ribbon from 0.075 mm to 6.5 mm thick up to 100 mm wide; wire-bar-ingot — "ultralloy" high purity alloys and MIL spec alloys; plating anodes — various shapes and alloys; fluxes and chemicals — water soluble rosin, ww rosins, organics, acids, thinners, solvents, cleaners, lectro lotion, temporary solder mask, wave solder pot cover to prevent oxides and dross while conserving energy, chemicals for printed circuit board manufacturing.

Crest Circuit Co. Ltd.

690 Progress Avenue, Unit 10
Scarborough, Ontario
Canada
M1H 3A6
Telephone: (416) 439-9515

Manufacturer of single- and double-sided printed circuit boards. Design and preparation of artwork.

Criterion Instruments Ltd.

30 Progress Avenue
Scarborough, Ontario
Canada
M1P 4W8
Telephone: (416) 299-6666

Manufacturer of high-voltage test sets; panel and portable meters; school demonstration apparatus; public utility testing equipment; power supplies; insulation-resistance testers; isolation systems.

Croven Crystals Ltd.

500 Beech Street
Whitby, Ontario
Canada
L1N 5S5
Telephone: (416) 668-3324
TWX: 610-384-2750

Designer, manufacturer and packager of a wide range of custom designed quartz crystals for electronics and aerospace industries, specializing in high frequency overtone crystals used in military, telecommunications and test equipment applications where high reliability is essential.

Crowder Communications Corporation

4312 Norfolk Street
Burnaby, British Columbia
Canada
V5G 4J9
Telephone: (604) 437-4433
Telex: 04-356590

Satellite systems integrator, providing services in maintenance and operations management, plus equipment installation and engineering design. Present systems offered include SMATV/MATV/CATV coaxial cable; TV/radio re-broadcast; data networking and satellite earth stations.

CTF Systems Inc.

15 — 1750 McLean Avenue
Port Coquitlam, British Columbia
Canada
V3C 1M9
Telephone: (604) 941-8561
Telex: 04-353622

Manufacturer of high-sensitivity digital superconducting magnetometers for applications in biomagnetometry, rock magnetometry, geophysics and pure research; superconducting magnets; non-magnetic liquid helium dewars; ultrasonic tube corrosion analyzer for ship boilers; non-destructive testing equipment; data-acquisition systems for the above applications; signal-processing systems; research and development in electronics, cryogenics and applied physics.

CTS of Canada, Limited

80 Thomas Street
Streetsville, Ontario
Canada
L5M 1Y9
Telephone: (416) 826-1141
Telex: 06-97508

Manufacturer of static inverters; uninterruptible power supply systems, including start-up assistance; dc-dc (static) converters; battery chargers; rectifier-power supplies; variable resistors; selector switches; trimming potentiometers; crystals; filters; rectifiers; inverters; solenoids; microminiature components and circuit packages; and custom wire harnesses.

Cybernex Limited

1257 Algoma Road
Ottawa, Ontario
Canada
K1B 3W7
Telephone: (613) 741-1540
Telex: 053-4419

Designer and manufacturer of alphanumeric and graphic display terminals. Standard protocol terminals work on mainframes/minicomputers manufactured by Burroughs, Control Data, Digital Equipment, Data General, Honeywell, Hewlett Packard, IBM, MAI Basic Four, and others. Current graphics products include a 1024 x 780 resolution plug replacement for Tektronix 4014, a 1024 x 781 colour resolution controller for Tektronix 4100 type applications, and a 1024 x 800 resolution NAPLPS decoder for high quality videotext uses. The company also performs custom work and sells licences, where applicable.

**Cyberscope Industries Inc.
Div. of Russell Ultra-Sound Services Ltd.**

4909 — 75 Avenue
Edmonton, Alberta
Canada
T6B 2S3
Telephone: (403) 468-2023
Telex: 037-2966

Manufacturer of radiation detectors, personal alarms and audible alarms; electromagnetic inspection instruments for the inspection of ferrous and non-ferrous heat exchanger tubing, and electric probe launchers and probes for these instruments.

Danex Microwave Inc.

275 Woodland Drive
Vancouver, British Columbia
Canada
V5L 3S7
Telephone: (604) 251-2218

Manufacturer of satellite dishes, mount and receive only feeds of 1.2, 1.5, 1.8, and 2.2 metre sizes for C and Ku band transmission.

Dantec Electronics Limited

495 Dotzert Court
Waterloo, Ontario
Canada
N2L 6A7
Telephone: (519) 885-4302

Manufacturer of a computerized grain dryer control system with moisture analyzer. System used in the process of drying various grains to a target moisture and optimizing energy and operational cost while reducing shrinkage of the product.

Data Images, Inc.

1283 Algoma Road
Ottawa, Ontario
Canada
K2B 3W7
Telephone: (613) 744-3773
Telex: 053-4885

Manufacturer of liquid crystal displays and display modules — twisted nematic and dichroic types; full custom capability and complete research and development facilities; capabilities extend to avionics and military liquid crystal displays and modules; full line of twisted nematic standard parts.

Datagram Inc.

1451 Graham Bell Street
Boucherville, Quebec
Canada
J4B 6A1
Telephone: (514) 655-3200
Telex: 05-26821

Specialists in the design and manufacture of two major product lines: the intelligent statistical multiplexer with integrated data compressor software, that operates on a synchronous and asynchronous environment up to 54 ports, usually used in networking with well-known mainframes such as IBM, HP, Data General and others; and the cluster controller PABX and protocol converter used with Burroughs computers.

Datap Systems Div. of Swan Wooster Engineering Ltd.

202 — 1167 Bowness Road
Northwest
Calgary, Alberta
Canada
T2N 3J6
Telephone: (403) 283-3601
Telex: 038-21572

Custom software house specializing in real-time computer programming. Products include IRIS7, a SCADA system with applications in oil and gas, telecommunications, electric power grids and bulk materials handling facilities; CADET, a computer-aided dispatch system for service vehicles, which can interface with IRIS7; and IMMS, an interactive maintenance management system. The company also offers a custom real-time problem solving service.

Dataradio Inc.

1819 Dorchester Boulevard West
Suite 400
Montreal, Quebec
Canada
H3H 2P5
Telephone: (514) 932-6600
Telex: 055-60435

Manufacturer of radio based data communication equipment that provides error corrected point-to-point or point-to-multipoint transparent data communications in either synchronous or asynchronous environments. Network data rate is 4800 bps for a throughput of up to 512 cps on a standard 16 kHz EM voice channel. Units incorporate radios and a host of power supply options. Up to 255 independent stations may occupy each radio channel in standard configurations.

Datek Industries Limited

8522 Davies Road
Edmonton, Alberta
Canada
T6E 4Y5
Telephone: (403) 465-1530
Telex: 037-42726

Manufacturer of turnkey supervisory control and data acquisition equipment for the energy and utility sectors; custom hardware and software design services. Products include mini- and microprocessor-based supervisory control systems; microprocessor-based remote terminal units; Intel multibus-compatible boards and systems; and plated-through-hole printed circuit boards.

DBA Communication Systems Inc.

1201 East 4th Street
North Vancouver, British Columbia
Canada
V7J 1G8
Telephone: (604) 985-9521
Telex: 04352848

Manufacturer of multiline telephone systems for small business applications. Simplex 10, 4-trunk 10-station 1A2 type key telephone system; "Smalltalk" 2-trunk 8-station system requires no common control unit. Provides line access, intercom, hold, paging and other features in self-contained proprietary telephone set.

Dees Communications Engineering Ltd.

6475C — 64 Street
Delta, British Columbia
Canada
V4K 4E2
Telephone: (604) 946-8433
Telex: 04-357749

Manufacturer of telephone equipment for central office applications, including conversion from divided to bridged ringing on dedicated party lines both coded and frequency selective; and 2-party ANI (automatic number identification). The company also makes subscriber premises outside network interface housing containing ANI markers, ring isolators 4-party ring selectors, conversion from divided-to-bridged ringing, rid-subscriber line disconnect all on shared party lines. Subscriber premises inside power failure multi-trunk PBX bypass unit busy lamp (stations) for key systems, 7 trunk conversion unit to common ringers — electronic ringers 24 V dc and 48 V dc for key and PBX systems — 3 trunk automatic ground start unit for PBX power fail mode. Complete tester for telephone sets. High power line operated 90 V ac ringer for noisy locations. External speaker amplifier for key systems.

Detronics Limited

Bloomington Road
R.R. 4
Stouffville, Ontario
Canada
L0H 1L0
Telephone: (416) 640-1216

Manufacturer of special electronic test equipment, including telecommunications testers, high pot testers, harness testers and component testers; portable traffic control equipment such as Arrow board controller, high intensity flasher, portable radio operated lane control system (portable traffic lights).

Develcon Electronics Ltd.

856 — 51 Street
Saskatoon, Saskatchewan
Canada
S7K 5C7
Telephone: (306) 664-3777
Telex: 074-2780

Designer and manufacturer of electronic data communications equipment, particularly in the limited-distance transmission and data-switching fields; DATA-SWITCH 9000 series offers flexibility and control over the communications network; DATA SET 500 series provides economic short-distance transmission capabilities.

Dicon Systems Limited

719 Clayson Road
Weston, Ontario
Canada
M9M 2H4
Telephone: (416) 745-6044
Telex: 06-969667

Manufacturer of residential and commercial smoke alarms; residential burglar alarms.

Dictograph Corporation

107 Glen Cameron Road
Thornhill, Ontario
Canada
L3T 1N8
Telephone: (416) 881-0074

Manufacturer of automatic telephone dialers (tone-pulse switchable) for consumer and commercial use; multiline phones with multiple automatic dialing features built-in; cordless dialers; intercom systems (industrial).

Didak Manufacturing Limited

P.O. Box 41
90 Decosta Street
Arrnprior, Ontario
Canada
K7S 3H2
Telephone: (613) 623-7901
Telex: 0533548

Manufacturer of 3½ in. and 5¼ in. floppy diskettes under the brand name AXIOM. A complete range of formatted diskettes, private label, software duplication, copy protection and bulk product is offered. All diskettes are manufactured to the highest standards of the industry and exceed ANSI, ISO and ECMA standards, and are 100% certified and guaranteed for life.

DiffRACTO Ltd.

6360 Hawthorne Drive
Windsor, Ontario
Canada
NBT 1J9
Telephone: (519) 945-6373
Telex: 064-77875

Manufacturer of machine vision systems and sensor modules for industrial automation and inspection applications. The product line spans the total range of applications in automotive and related industry; high resolution defect detection and precision measurements are a speciality. Standard products also exist for car body gauging, robot guidance surface finish evaluation and OD dimensions.

Dighem Surveys & Processing Inc.

228 Matheson Boulevard East
Mississauga, Ontario
Canada
L4Z 1X1
Telephone: (416) 890-0313
Telex: 06-961334

Manufacturer of helicopter-borne electromagnetic geophysical systems used for ore prospecting, geological mapping, freshwater and ocean bathymetry and sea-ice thickness measurement. Also performs surveys using its own and other airborne geophysical instruments.

Digital Graphics Div. of Helix Circuits Inc.

90 Don Park Road
Markham, Ontario
Canada
L3R 1C4
Telephone: (416) 475-9633
Telex: 06-986843

Computer-aided design and manufacture of prototype printed circuit boards, including documentation for electronic manufacturers. The company utilizes a variety of CAD/CAM equipment to design and photo-plot artwork with accuracy of 0.0005 in.

Digital Video Systems Corp.

120 Middlefield Road
Scarborough, Ontario
Canada
M1S 4M6
Telephone: (416) 299-6888

Manufacturer of transmission products via satellite — BMAC scrambling technology; uplinks; downlink descramblers; test signal generators; suitable for both C band and Ku band, wide-screen capabilities, teletext, multiple digital audio, data channels, scrambled video and encrypted audio; and studio products — time base correctors; synchronizers; test signal generators; TBC/framestore; security and surveillance.

Digitech Inc.

2366 Galvani Street
Sainte-Foy, Quebec
Canada
G1N 4G4
Telephone: (418) 688-0779
Telex: 051-31646

Manufacturer of data capture products including handheld microcomputer, concentrator, case containing printer modem charger cables and accessories; communications software (DIGITEL); communications manager software (MEMODOS) for handheld microcomputer (MEMO) communicating both ways on front lines. Product used in inventory, forest survey, distribution, invoicing, memo pad scientific portable instruments, meter reading, production control, ordering, etc. Multiplex equipment.

Digitrol Computers Inc.

440 Phillip Street, Unit 9
Waterloo, Ontario
Canada
N2L 5R9
Telephone: (519) 884-4541

Manufacturer of computerized concrete and asphalt batching system; monitoring system for plastic injection moulding industry; universal machine data acquisition units; multi-user PC software package; educational electronics training package.

Dipix Systems Limited

120 Colonnade Road
Ottawa, Ontario
Canada
K2E 7J5
Telephone: (613) 224-5175
Telex: 053-3946

Manufacturer of the ARIES-III image processing system. The unit is a turnkey system based on Digital Equipment PDP and VAX processors. The strength of the ARIES-III system is in its display architecture and highly flexible image memory. Other display features include smooth, continuous zoom and roam; up to 255 overlays and four groups of lookup tables. The ARIES-III system allows real time or near real time interactive processing as well as processing in batch mode. An optional high speed, pipelined image processor called the ARIES Pixel Processor (APP) may be added to speed up spatial operations such as resampling, convolutions, filtering and image arithmetic operations.

Documented Circuits

P.O. Box 8, Postal Station A
Kingston, Ontario
Canada
K7M 6P9
Telephone: (613) 549-5522
Telex: 066-3223

Manufacturer of CAE/CAD/CIM software for printed circuit board engineering, design and manufacturing; operates on Digital Corp's VAX computers.

Dorchester Electronics Div. of Apollo Electronics Limited

49 Fima Crescent
Toronto, Ontario
Canada
M8W 3R1
Telephone: (416) 252-6301
Telex: 06-984699

Manufacturer of compact stereos and music centres. Features of some or all of the products include AM/FM radio, stereo 2-speed belt driven turntable, stereo cassette player with fast forward and eject mechanisms, ported speakers, balanced tonearm, headphone jack, and a removable hinged dust cover. The company also manufactures children's cassette and record players. All models are approved by CSA, UL and the FCC where applicable.

Dowty Canada Electronics Limited

774 Rye Street
Peterborough, Ontario
Canada
K9J 6W9
Telephone: (705) 743-6903

Manufacturer of electronic nosewheel steering systems for aircraft; electronic health monitoring of complex vehicles/systems/processes; designer and manufacturer of microprocessor-based monitoring and control of vital circuits on transportation equipment; specialized avionics to customer specifications; display and information systems (fixed and mobile; installation also); build-to-print of aerospace and industrial electronics systems; panels and printed circuitry.

DY-4 Systems Inc.

888 Lady Ellen Place
Ottawa, Ontario
Canada
K1Z 5M1
Telephone: (613) 728-3711
Telex: 053-4822

Manufacturer of a wide range of industry standard VMEbus modules using 16-bit and 32-bit microprocessor chips. All products are designed to suit customer applications in commercial and military systems. The extensive DY-4 product family includes 16/32-bit single board computers; mass memory modules; intelligent I/O; LAN controllers and peripheral controllers (floppy disk, SMD, SASI, SCSI, 9-track tape); system chassis; development systems and software and test systems.

Dualtec Electronics

6040 Kestrel Road
Mississauga, Ontario
Canada
L5T 1V7
Telephone: (416) 674-6244

A new division of Magna International (Canada) Inc., currently supplying the North American auto industry with electromechanical relays, electronic switches and electronic modules. Dualtec has a license agreement with Niles Parts Co. Ltd. of Tokyo, which is a primary supplier to Nissan Motor Co. Ltd. for electronics, and will distribute and manufacture under this licence in Canada.

Dynalectron Systems Inc.

37 Martin Ross Avenue
Downsview, Ontario
Canada
M3J 2L3
Telephone: (416) 661-3766
Telex: 06-23025

Supplier of turnkey systems for industrial control; integration and manufacture of equipment and software; installation and service as required.

Dynamic Circuits Corporation Limited

9 Pinelands Avenue
Stoney Creek, Ontario
Canada
L8E 3A4
Telephone: (416) 662-2331

Manufacturer of single-sided, double-sided and multilayer printed circuit boards.

Duracell Inc.

2333 North Sheridan Way
Mississauga, Ontario
Canada
L5K 1A7
Telephone: (416) 823-4410
Telex: 06-982253

Manufacturer of batteries and portable lighting products — alkaline, mercury, lithium, zinc, zinc-air, gelled-maintenance free, nickel-cadmium, silver-oxide, from 1.2 V to 510 V, from 30 MAH to 1350 AH per cell; battery packs to any specification — industrial, OEM, military approvals and specifications; complete range of flashlights and lanterns.

Dynapro Systems Inc.

400 — 177 West 7th Avenue
Vancouver, British Columbia
Canada
V5Y 1L8
Telephone: (604) 872-8631
Telex: 043532848

Manufacturer of the ADVISOR2, a system that provides the man-machine interface for industrial process/supervisory control in many industrial applications and incorporates both a multitasking processor and a real-time operating system. Other products include a series of data communications devices for industrial applications, such as the KF2. In addition, the company markets the DSI DYNALINK, an intelligent, 16-port microprocessor controlled serial data switch.

EDA Instruments Inc.

4 Thomcliffe Park Drive
Toronto, Ontario
Canada
M4H 1H1
Telephone: (416) 425-7800
Telex: 06-23222
Cable: INSTRUMENTS TORONTO

Manufacturer of data communications products primarily suited for the packet switching market — assemblers/disassemblers, switches and statistical multiplexers; and instruments for geophysical, geochemical, environmental earth physics, and mining/milling applications.

EDAC Inc.

20 Rainside Road
Don Mills, Ontario
Canada
M3A 1A4
Telephone: (416) 445-2292
TWX: 610-492-1398

Manufacturer of printed circuit edge-card connects; 2-piece metal-to-metal printed circuit connectors; DIN-41612 printed circuit connectors; rectangular rack and panel connectors; contacts on strips; contacts on reels; card guides; connector tools. Applications in computer, telecommunications and instrumentation industries.

EDO Canada Ltd.

6320 — 11 Street Southeast,
Unit #8
Calgary, Alberta
Canada
T2H 2L7
Telephone: (403) 255-6667
Telex: 03-825895

Manufacturer of satellite survey receivers, satellite data processing systems and marine navigation systems. Products include a Navstar Global Positioning Satellite (GPS) receiver specially designed for pre-survey applications; a transit satellite receiver capable of 50 cm relative positioning accuracies; turnkey systems for processing data collected by its own satellite receivers and Magnavox MX-1502 receivers; and a navigation processor that uses a mix of inputs, including transit and GPS receivers, Loran-C, Omega, speed log, and gyrocompass to provide optimal estimates of position and speed.

Edwards International

6465 Airport Road
Mississauga, Ontario
Canada
L4V 1E4
Telephone: (416) 678-6767
Telex: 069-68768

Manufacturer of fire alarm detection systems; security systems; nurses call and clock systems; and a full range of components, including smoke and heat detectors; manual stations; polarized signals; door contactors for individual signalling system, bells, horns, chimes and buzzers. All devices available in weather-proof and explosion-proof design.

Electric Power Equipment Ltd.

1285 Homer Street
Vancouver, British Columbia
Canada
V6B 2Z2
Telephone: (604) 682-4221
Telex: 0451171

Manufacturer of underground mining switchgear; portable substations for underground and above surface mining applications; medium voltage switchgear; mine hoists; SCR power supplies; UPS systems; and regulated power supplies. Also involved in consulting engineering.

Electrical Testing Instruments Ltd.

3015 Kennedy Road, Unit #12
Scarborough, Ontario
Canada
M1V 1E7
Telephone: (416) 292-8181
Telex: 06-986766

Manufacturer of electrical test equipment including relay test sets; high voltage test sets; transformer ratio-meters; micro-ohmmeters; contact resistance testers; capacitance bridges; insulation testers; circuit breaker testers; high current test sets; and variable frequency generators.

Electro Arts Ltd.

235 Nugget Avenue
Scarborough, Ontario
Canada
M1S 3L3
Telephone: (416) 293-1147
Telex: 065-26118

Manufacturer of data switching and data concentration remote test systems for telecommunications (data and voice) "DVACS".

Electro Rubber Ltd.

770 Dupont Street
Toronto, Ontario
Canada
M6G 1Z6
Telephone: (416) 533-7958
Telex: 06-986391

Manufacturer of custom wiring harnesses and moulded power supply cords for use with business machines, computers, communications, electrical and electronic equipment; small and large appliances; automotive electrical and electronic equipment.

Electro-Vox Inc.

2626 Bates Road
Montreal, Quebec
Canada
H3S 1B2
Telephone: (514) 731-3771
Telex: 05-268741

Manufacturer of fire alarm systems integrated with emergency voice communication and fire fighter telephone system. Also manufacture specialized amplifiers for fire alarm systems; speakers; metal boxes; cabinets; plates, etc.; and small fire alarm panels for 1, 2, 4, 8, 16 and 24 zones.

Electrohome Limited

909 Wellington Street North
Kitchener, Ontario
Canada
N2G 4J6
Telephone: (519) 744-7111
Telex: 069-55449
Cable: DEIL KTCH

Electronics products include Electrohome brand and open frame monochrome and colour video displays manufactured in a variety of screen sizes; large screen data/graphics and video projection systems that interface with most computers; commercial master antenna (MATV) satellite receiving systems and high end consumer satellite receivers; computer graphics videotex terminals to NAPLPS standards; contract assembly products for both consumer and commercial customers; PCB assemblies; single-sided and double-sided circuit boards; and metal stampings.

Electroline Television Equipment Inc.

8750 — 8 Avenue, Suite 2
Montreal, Quebec
Canada
H1Z 2W4
Telephone: (514) 374-6335
Telex: 055-62171

Manufacturer of cable TV equipment — addressable systems, power dividers, directional couplers, filters, power inserters, amplifiers, rf-rf equalizers; LAN-wiring devices; security systems. Bandwidth of most equipment is in the 5-900 MHz range; hospital and hotel television and pay TV systems.

Electromed International Limitée

395 Industrial Boulevard
Saint-Eustache, Quebec
Canada
J7R 5R3
Telephone: (514) 491-2100
Telex: 05835506

Manufacturer of AVIONIX, a baggage X-ray inspection system; EDEC-100, a high performance KV regulator coupled with a dedicated microprocessor selection control X-ray terminal for special procedures; and EDEC-2000, a complete X-ray generator using a unique solid-state X-ray technology, for special procedures.

Electronic Craftsmen Ltd.

73 Schaefer Street
Waterloo, Ontario
Canada
N2L 4C4
Telephone: (416) 884-2210

Manufacturer of magnetics, transformers, inductors and coils, specializing in custom design of power transformers, signal transformers and switchmode magnetics to 1 kVA. Also makes power supplies, custom SMPS up to 1.5 kVA and over 150 VA.

Electronic Hardware Specialties Ltd.

175 Eileen Avenue
Toronto, Ontario
Canada
M6N 1W3
Telephone: (416) 769-0585
Telex: 06-969870

Manufacturer of vitreous enamel wire-wound resistors. Types include axials, ranging from 2 W to 2.5 W; tubulars, ranging from 5 W to 225 W; and ribflex, ranging from 75 W to 550 W. Tolerances vary from 1 per cent to 10 per cent; 5 per cent is standard. All, except the axials, can be made to a fixed or adjustable style.

Electronic Surveillance Corp.

270 Ferrier Street
Markham, Ontario
Canada
L3R 2Z5
Telephone: (416) 475-0552
Telex: 06-986952

Manufacturer of computerized proprietary security, fire monitoring systems, including fire alarm systems, fire detectors, high security alarm communications equipment, multiplex equipment, control and enunciation devices, keypad systems, computer interface systems (direct wire McCulloh, multiplex and digital); computer-aided dispatch systems; computer-assisted graphics display systems and large scale display systems.

Electrovert Ltd.

1305 Industrial Boulevard
Laprairie, Quebec
Canada
J5R 2E4
Telephone: (514) 659-8901
Telex: 55-60387

Manufacturer of wave soldering machines used to solder printed circuit boards, small to large to automated and fully computerized; PCB cleaning machines used to clean printed circuit boards, small to large to automated to fully computerized; component lead cutting and forming equipment used to cut and form leads of electronic components prior to mounting on circuit boards; dip tinning systems used to solder/tin leads of integrated circuit packages, small and large volumes; PCB repair modules used to repair soldered circuit boards. Also provides consulting services through an affiliated company, ECS Limited, teaching soldering in workshops and advising customers on trends, equipment needs, etc.

Elinca Communications Ltd.

20 Toronto Street
Toronto, Ontario
Canada
M5C 2B8
Telephone: (416) 362-3911
Telex: 06-22267

A turnkey systems consortium composed of a number of Canadian equipment manufacturers who make HF, VHF, UHF, cellular transmitter/receivers; antennae, transmission lines and accessories; microwave, satellite earth stations, satellite subsystems, communications; data transmission; weather, air, marine radars; radio relays; mobile telephones; transmitters, studio, STL of air retransmission, as applied to systems for terrestrial and satellite communications, supervisory control and data acquisition, radio and TV broadcast, private and public switching, air traffic control, coastal communications, mobile communications, computer-aided dispatching, navigational aids. Systems are completed with the required civil works — power, shelter and tower equipment. Services include turnkey supply; installation; operation and maintenance of systems.

Elma Engineering Services Ltd.

P.O. Box 930, R.R. 5
2540 Delzotto Avenue
Ottawa, Ontario
Canada
K1G 3N3
Telephone: (613) 822-7866
Telex: 053-3758

Manufacturer of a Cactus fixturing system which interfaces to any automatic test equipment, in-circuit and functional testers, for testing double-sided printed circuit boards with surface mounted components, as well as any standard board mix with dimensions up to 8 in. x 9.5 in. and 12 in. to 16 in.

Elmec Engineering Ltd.

1410 Crown Street
North Vancouver, British Columbia
Canada
V7J 1G5
Telephone: (604) 985-4721
Telex: 04-352503

Manufacturer of electrical, electronic, fibre optic, mechanical custom-made control devices.

Enercorp Instruments Ltd.

25 Shorncliffe Road
Islington, Ontario
Canada
M9B 3S4
Telephone: (416) 231-5335
Telex: 06984741
Cable: ENERCORP TORONTO

Manufacturer of humidity and temperature sensors, indicators, recorders and controllers.

Engelhard Industries of Canada Limited

P.O. Box 340
100 Engelhard Drive
Aurora, Ontario
Canada
L4G 3N1
Telephone: (416) 727-3191
Telex: 06-23214
Cable: BAKERPLAT, AURORA

Manufacturer of material and components made of precious metals (gold, silver, platinum, palladium, rhodium) and base metals that are used in PABX, switching, connectors, printed circuit boards, hybrids and capacitors; controls (motor, safety, etc.); crystal ovens, electronic hardware; motors (subfractional horsepower); plating; solder and fluxes; switches; telephone components; transformers and inductive components.

Epic Data Inc.

7280 River Road
Richmond, British Columbia
Canada
V6X 1X5
Telephone: (604) 273-9146
Telex: 043-55701

Designer, manufacturer and service supplier of electronic data collection systems and components primarily for the factory data collection market. The system will accept a variety of input media such as bar codes, punched badges, magnetic stripes, punched cards and keyboard entries. The components are based on standard microprocessor architecture and are generally modularly designed so that they can be adapted to collect data in a variety of applications such as inventory status, job costing, production control and time and attendance.

Epitek International Inc.

100 Schneider Road
Kanata, Ontario
Canada
K2K 1Y2
Telephone: (613) 592-2240
Telex: 053-3544

Manufacturer of custom thin- and thick-film hybrid microcircuits; active filters; single-in-line resistor networks; dual-in-line resistor networks; complex chip and wire hybrid circuits; standard digital to analog converters for video applications.

Eramosa Technology Corp.

95 Curtis Road
Guelph, Ontario
Canada
N1H 1E5
Telephone: (519) 822-2960
Telex: 91-6452

Manufacturer of power supplies; transformers; inductors; and coils.

Ernst Leitz (Canada) Ltd.

328 Ellen Street
Midland, Ontario
Canada
L4R 2H2
Telephone: (705) 526-5401
Telex: 06-875561

Manufacturer of photographic equipment, including LEICA family of products; precision lenses for reconnaissance, space underwater and electronics applications; laser heads for optical data storage devices, particularly suited for harsh environments; custom designed products and sub-systems such as laser scanning equipment and quality control instruments; integrated sighting systems, periscopes, fire-control systems and rangefinders using visual and infrared optics; night vision equipment.

Esmond Manufacturing Inc.

455 Milner Avenue, Unit #3
Scarborough, Ontario
Canada
M1B 2K4
Telephone: (416) 299-5090
Telex: 065-26283

Manufacturer of electrical and electronic wire harnesses; multiconductor and coaxial cable assemblies; terminated wire leads; full automatic termination equipment for large volume users or semi-automatic equipment for small volume and prototypes. Solder termination facilities.

Exide Electronics Canada, Inc.

5200 Dixie Road, Unit #20
Mississauga, Ontario
Canada
L4W 1E4
Telephone: (416) 625-9627
Telex: 06-961272

Manufacturer of a range of static uninterruptible power systems (UPS) in the range 15 to 750 kVA, 50 and 60 Hz three phase, 1.5 to 0 kVA single phase and 50/60 to 415 Hz frequency converters. Exide's systems are used in transportation, controls, airports, radars, ground stations, telecommunications, nuclear/electrical power generation, processing controls, government, defence, police security, safety, hospitals and data centres in finance and industry. High reliability solid-state modular design with built-in diagnostics and self-test features permits ease of maintenance and minimum downtime. Manufacturing quality programs are to Canadian Standards CSA Z299.2 and NATO AQAP-1.

Extel Communications (Canada) Ltd. Div. of NEI Canada Limited

121 McPherson Street
Markham, Ontario
Canada
L3R 3L3
Telephone: (416) 475-1693
Telex: 06-966895

Manufacturer of telecommunications terminals — Telex, TWX, DDD and private wire applications.

Fathom Atlantic Limited

P.O. Box 1286
473A Windmill Road
Dartmouth, Nova Scotia
Canada
B2Y 4B9
Telephone: (902) 463-3344
Telex: 019-31409

Manufacturer of electronic test and measuring equipment, analog or digital produced to customer specifications; multimeters, single function meters, logic boards, electronic educational systems; sonar equipment, microwave equipment to 18,000 MHz. Repairs and overhauls all types of electronic test instrumentation.

Fathom Oceanology Limited

6760 Campobello Road
Mississauga, Ontario
Canada
L5N 2L8
Telephone: (416) 821-8730
Telex: 06-218222

Manufacturer of flexnose and rigstream fairings; controllable and cable dominated towed bodies; vortex shedding suppressors for marine structures and hull-mounted sonar domes; pipe-stream fairings; variable depth sonar; mine counter-measures; towed line array handling systems; and other custom marine winching systems. The H.I. Thompson Division produces high temperature heat shields for the aerospace industry, and various webbing and related products for the military. The Atlantic Division offers a complete range of repair and overhaul services for all types of instrumentation.

Ferritronics Limited

222 Newkirk Road
Richmond Hill, Ontario
Canada
L4C 3G7
Telephone: (416) 884-3180
Telex: 069666680

Manufacturer of radio signalling equipment and systems, including programmable and tuneable CTCSS, DCSI DPL, DTMF, in-band, and burst tone; automatic vehicle identification systems with status reporting option; data retrieval systems and equipment including automatic polling of remote stations; automatic station identifiers, base terminals and control stations.

Filtran Ltd.

229 Colonnade Road
Nepean, Ontario
Canada
K2E 7K3
Telephone: (613) 226-1626
Telex: 053-4957

Designer and manufacturer of filter networks; transformers; inductors; chokes for the OEM market. Customers are large OEMs in Canada in telecommunications and computer industries; clients serviced throughout the United States. Products have been exported to Portugal, UK, Caribbean, South America and the Far East.

Focal Marine Limited

1378 Bedford Highway
Bedford, Nova Scotia
Canada
B4A 1E2
Telephone: (902) 835-1217
Telex: 019-22888

Manufacturer of fibre optic local area networks (LAN); opto-electronic circuit boards; fibre optic sliprings (rotary joints); fibre optic sensors (strain, liquid level); fluorometer remote head for underwater use.

Consulting expertise in fibre optic data acquisition, transmission and communications systems including shipboard and underwater applications; fibre optic training courses; fire and security systems; fibre optic system design, installation, testing and support.

Foundation Instruments Inc.

24 Colonnade Road
Nepean, Ontario
Canada
K2E 7J6
Telephone: (613) 226-4000
Telex: 053-4153

Manufacturer of fibre optic products, including the FI-9000 series single mode transmission systems and the FI-7000 series multimode transmission systems for video, data and voice; the PFS-200SM, "the intelligent" single mode and multimode fusion splicer; the DMX-20, a 20 channel synchronous data multiplexer with speeds up to 56 kb/s; the PFS-101 multimode portable fusion splicer; optical fibre cable and the OATS optical attenuation test equipment, plus all supporting hardware components required in a system.

FTS Forest Technology Systems Ltd.

2665 Sooke Road
Victoria, British Columbia
Canada
V9B 1Y5
Telephone: (604) 478-5561

Designer and manufacturer of weather monitoring and telemetry equipment. The weather monitoring equipment ranges from microprocessor-based hand-held wind monitors to complete turnkey weather stations. Such stations can be interrogated manually and operated as stand-alone systems, or interrogated through a telemetry system. The telemetry equipment includes UHF and VHF systems, and radio-telephone combinations. All telemetry subsystems are microprocessor-based and incorporate such features as packet switching and error detection/correction.

G & B Automated Equipment Limited

580 Supertest Road
Downsview, Ontario
Canada
M3J 2M7
Telephone: (416) 661-1500
Telex: 06-219609

Manufacturer of a complete production system for the manufacture of bonded abrasives from raw material batching to final product packaging, through the use of robotics controlled by computers. Also, engineering services including abrasive technology, building design, plant layout on turn-key or semi-turnkey basis for the grinding wheel industry.

Gandalf Data Limited

100 Colonnade Road
Nepean, Ontario
Canada
K2E 7M4
Telephone: (613) 226-6500
Telex: 053-4728

Primarily a manufacturer of local data sets; limited-distance and long-range modems; private automatic computer exchanges (PACX); and data-over-voice, time-division and statistical multiplexers. In addition, the company markets devices that integrate local networks with longer distance packet-switching networks, and provides complete systems capability in office automation, factory data collection and computer dispatching for taxi companies.

Gandalf Systems Group Inc.

880 Wellington Street, Suite 701
Ottawa, Ontario
Canada
K1R 6K7
Telephone: (613) 238-5779

Designers of INITIATIVE, a sophisticated office software product integrating word processing, electronic mail and messaging, electronic filing and time management. The system is designed to support a multi-user, multitasking environment, enabling the user to work on more than one thing at a time. Each task is presented in its own window and these windows can be stacked and overlapped in much the same way an office worker might stack information on a regular desk top. The system is function-key driven, with "soft" function keys displayed at the bottom of the screen showing the capabilities of the current window. INITIATIVE provides the novice user with a full featured help system.

Garlin Design & Manufacturing Ltd.

154 Victoria Street South
Kitchener, Ontario
Canada
N2G 2B5
Telephone: (519) 576-9150

Manufacturer of printed circuit boards including prototype, medium and large volume production; design capability; single-sided boards, plated and non-plated; SMOBC double-sided plated through hole boards; multilayer boards; flexible circuits.

Garrett Canada

255 Attwell Drive
Rexdale, Ontario
Canada
M9W 5B8
Telephone: (416) 675-1411
Telex: 06-989142

Designer, developer and manufacturer of a wide range of products for the world aerospace industry. Products include aircraft cabin, cockpit and bay temperature control systems; aircraft windshield temperature control systems; electronic air flow sensing systems; emergency radios; emergency locator transmitters and personal locator beacons; survivable battlefield antennae (SAB); air traffic control radios; instrument landing system signal analyzers; illuminated information panels; MIL Std 1772 thin- and thick-film hybrid microcircuits; aircraft peripheral vision cockpit displays. Offers advanced systems manufacturing and subcontract services.

GEAC Computer Corporation

350 Steelcase Road West
Markham, Ontario
Canada
L3R 1B3
Telephone: (416) 475-0525
Telex: 06986-833

Online information processing company, providing a full vertically-integrated service with high performance proprietary technology. Products are designed to serve specific markets of libraries and financial institutions. Software products include GEAC financial systems; GEAC library systems; Autostar, an international banking reconciliation product; and GEAC signature systems used in a banking environment to check signatures on-line against those on file.

GEC Canada Ltd.

5112 Timberlea Boulevard
Mississauga, Ontario
Canada
L4W 2S5
Telephone: (416) 624-8300
Telex: 06-961280

Manufacturer of power conditioning units — totally enclosed, high performance inverter for ac traction applications; advanced high performance, low cost, variable frequency ac drives for 20 to 500 HP motors; SCADA equipment for a wide range of applications, from building automation to power supply distribution systems; transient fault data recorder (TFDR) optimized for the monitoring of large power transmission and distribution systems; RTUs for SCADA and TFDR systems; panels for protection and control of high voltage transmission lines and transformers.

GEM Systems, Inc.

105 Scarsdale Road
Don Mills, Ontario
Canada
M3B 2R5
Telephone: (416) 441-3210
Telex: 06-966566

Manufacturer of magnetometers for mineral and oil exploration — proton precession types, standard and overhauser effect, portable, solar powered, memory, airborne high sensitivity; airborne gradiometers — vertical and multisensor; long term monitoring of magnetic field; field computers and data collection units.

General Instrument of Canada Ltd. RF Systems Division

65 Waverly Street
Delhi, Ontario
Canada
N4B 1E8
Telephone: (519) 582-0710
Telex: 061-81174

Manufacturer of domestic, heavy-duty and commercial TV/FM receiving antennas; towers (self-supporting to 64 feet, guyed to 150 feet and bracketed models); TV distribution electronics (SMATV equipment); satellite receiving equipment.

General Production Devices

P.O. Box 338
1 Hunter's Road
Vandorf, Ontario
Canada
L0H 1G0
Telephone: (416) 727-1905

Manufacturer of CF-7 Axial component lead former, straight cut and bend; CF-8 Axial lead component former for horizontal and vertical mounted components (snap-in, stand-off, flush mount, re-flow, etc.) designed to military specifications (the CF7 and CF8 have 3 feeding options — reel and tape, bulkfeeder and cardfeeder); CF-9 Radial component lead former, accurately forms and cuts radial taped components such as capacitors, transistors, LEDs, etc. in stand-off and snap-in forms; CF10 Radio component lead former will form many types of loose feed radial component leads — bowl feeding, in-line vibratory feed or handfeed.

Genesys Group Inc.

1775 Courtwood Crescent
Ottawa, Ontario
Canada
K2C 3J2
Telephone: (613) 226-8740

Service bureau, consultant, EDP systems developer and software/hardware systems integrator (Digital Equipment Corp. OEM) specializing in text and graphics database management and communications systems. Products include interactive videodisc/videotex systems; computer graphics management systems; business graphics systems; electronic newsletter distribution systems; directories; computer to computer communications software; and front-end database systems/terminal control.

Gentec Inc.

2625, rue Dalton
Sainte-Foy, Quebec
Canada
G1P 3S9
Telephone: (418) 651-8000
Telex: 051-31591

Manufacturer of joulemeters; wattmeters; high frequency probes; power sensing devices of volts, watts and vars. A scientific team does consulting in electro-optics and energy management for clients such as the Canadian Army, Hydro-Quebec, Bell Canada, etc.

Gentian Electronics Ltd.

P.O. Box 1240
Stittsville, Ontario
Canada
K0A 3G0
Telephone: (613) 836-3987

Manufacturer of Hi-State precision coordinate digitizers — complete range of sizes and optional cursors, three accuracies to ± 0.003 in., all with 0.001 in. resolution, microprocessor controller versatility, dual-port RS-232 output, keyboard with display and power pedestal optional; Hi-State stereoplotter digitizers with 4 axes display and utility counter, RS-232 output; Hi-State desk-top digitizers: 24 in. x 36 in. working area, 16-button cursor, 0.010 in. accuracy, 0.001 in. resolution, imbedded electronics, RS-232 output, eight output formats, options include X-Y LCD display and menu set-up, numerous applications include AUTO-CAD; Hi-State RS-232 streamer interface with streaming magnetic tape drive used as data storage media and disk back-up, baud rate to 19.2 k, 1600 BPI.

Geomin Computer Services Corporation

408 Kapilano 100
West Vancouver, British Columbia
Canada
V7T 1A2
Telephone: (604) 922-9367
Telex: 04-352896

Specialists in computer applications for resource exploration, mining, and engineering. The company develops and supports a comprehensive library of modular, integrated software based on concepts of ease of use, interactive graphics, and the computer workstation. Systems have been successfully installed and implemented in mine sites and office locations worldwide.

Systems are designed for efficient use by engineers and geologists without any requirement for specialized assistance or in-depth computer knowledge. The workstation combines super-microprocessor, CRT graphics, plotter, digitizer, disk drive and software.

Geonics Limited

1745 Meyerside Drive, Unit #8
Mississauga, Ontario
Canada
L5T 1C5
Telephone: (416) 676-9580
Telex: 06-968688

Supplier of geophysical instrumentation employing electromagnetic techniques for both geological mapping through terrain conductivity and the direct detection of conductive ore-bodies.

Geoprobe Ltd.

1640 Bonhill Road, Units #10-11
Mississauga, Ontario
Canada
L5T 1C8
Telephone: (416) 673-1527
Telex: 06-983639

Manufacturer of geophysical prospecting equipment, the MAXI-PROBE EMR-16 (MK-IV) system. This is an artificial source electromagnetic type equipment consisting of transmitter, receiver, antenna, power generating system. The MAXI-PROBE system operates on 256 discrete pre-selected frequencies in the range of 1 to 60,000 Hz. The receiver is a two-channel recording device which records both channels simultaneously. The maximum power of the transmitter is 5 kW. The receiver can be operated at a maximum distance of about 1.5 km from the transmitter. Maximum depth penetration is about 2 km. The equipment is portable and can be used both for mineral detection and geological mapping of stratified layers.

George Kelk Limited

48 Lesmill Road
Don Mills, Ontario
Canada
M3B 2T5
Telephone: (416) 445-5850
Telex: 06-966670

Manufacturer of sensors for rolling mills to measure force, pressure, tension, displacement, and product dimensions; ac line voltage regulators (to 450 kVA).

Geotech Ltd.

101 Amber Street, Unit #20
Markham, Ontario
Canada
L3R 3B2
Telephone: (416) 475-6669
Telex: 06-986391

As a dedicated research and development establishment, the company designs, manufactures and assembles custom engineered sophisticated computer-based geophysical systems for use in the search for ground water and base metal exploration. Systems are installed in aircraft or vehicles by Geotech personnel on an international basis. As a supplier of electronic instrumentation and services to the earth sciences community, Geotech manufactures the only 4-frequency helicopter electromagnetic system currently available in the world. Also manufactures a closed circuit TV system for flight path recovery on airborne geophysical surveys, and provides contract exploration services for airborne, marine and borehole environments.

Gigatek Limited

31 Progress Court
Scarborough, Ontario
Canada
MIG 3V5
Telephone: (416) 439-4104
Telex: 065-25431
Cable: ELECTOR

Manufacturer of a range of high resolution colour data/graphic displays operating from 15-40 kHz, with either analog or TTL inputs, and a video bandwidth of 40 MHz. Screen sizes range from 9 in. to 20 in., and can accommodate resolution up to 1280 × 1024 pixels.

Glenayre Electronics Ltd.

1570 Kootenay Street
Vancouver, British Columbia
Canada
V5K 5B8
Telephone: (604) 293-1611
Telex: 04-354808

Designer and manufacturer of radio paging terminals and transmitters; IMTS radiotelephone terminals; IMTS and cellular mobile telephones; base stations; telephone answering and messaging equipment; radio data modems; and dc-dc converters.

Global Sound Systems Ltd.

135 Torbay Road
Markham, Ontario
Canada
L3N 1G7
Telephone: (416) 475-6560
Telex: 06-986689

Manufacturer of several quality brands of loudspeakers (in enclosures), catering to all segments of the audio market, from economically priced high efficiency rock monitors to speakers of the highest standards of audiophile performance. Also manufacture-to-order on an OEM basis.

Brand names include Energy; Mirage; Paisley Research; Sound Dynamics; dBPLUS, Audio Pulse; and Forum.

Global Thermoelectric Power Systems Ltd.

P.O. Box 400
Bassano, Alberta
Canada
T0J 0B0
Telephone: (403) 641-3512
Telex: 03-848141

Manufacturer of a line of dependable dc power systems for unattended operation in any climatic extreme. Specialty is custom designed systems for unique applications.

GNB Batteries (Canada) Inc.

275 Lewis Street
Fort Erie, Ontario
Canada
L2A 5N6
Telephone: (416) 871-5600
Telex: 061-5117

Manufacturer of lead acid electric storage batteries for telephone and switch-gear application; batteries and chargers for electric lift truck and mine locomotive operation; truck and bus, railroad diesel starting and car lighting use; batteries for hearing aids.

Graphico Electronics Group

1100 Bellamy Road North
Scarborough, Ontario
Canada
M1H 1H2
Telephone: (416) 438-6076
TWX: 610-492-4371

Manufacturer of a complete range of printed circuit boards, including print and etch, single-sided, double-sided, multilayer, rigid flexible, and flexible circuitry for the commercial and military fields. Offers a complete service from PCB artwork (CAD) design to prototype and full production runs; MIL-P-55110D in both glass and polyamide, as well as UL approval. Also manufactures EDGE-LIT (illuminated) panels for both military and commercial applications; fully approved to MIL-P-7788 types IV and V.

Grove Telecommunications Ltd.

P.O. Box 9190
152 Water Street
St. John's, Newfoundland
Canada
A1A 2X9
Telephone: (709) 753-8587
Telex: 016-4926

Manufacturer of the FMS-1000, a computer based processor capable of analysing fish to gather statistics such as species, weight and length, and to utilize this information to sort, reject, totalize and/or categorize. The data gathered can be displayed in a report format that can be accessed locally or output via on-board modems to telephone, satellite or private switched networks. Users can purchase the Fishscan software package, with the species already developed, or use the Fishscan algorithms to develop their own species. The system includes a variable speed fish presentation mechanism and an optional fish sorting device which operates under the direction of the vision processor.

Guildline Instruments Ltd.

P.O. Box 99
21 Gilroy Street
Smiths Falls, Ontario
Canada
K7A 4S9
Telephone: (613) 283-3000
Telex: 053-3028

Supplier of instrumentation and standards to over 26 national standards laboratories throughout the world. Producer of a full range of dc and LF metrology instrumentation as well as oceanography instrumentation with an unprecedented degree of metrology and accuracy.

DC Metrology: resistance standards and voltage standards, high resolution current comparator potentiometers and resistance bridges, microprocessor controlled baths, temperature measurement.

LF Metrology: current and potential transformer test sets, capacitance bridges, microprocessor controlled ac-dc thermal transfer standards, precision watt-meters.

Marine Sciences: laboratory salinometer "Autosal", instrument platform batfish, C.T.D. profiling systems. Provides installations, service and calibration.

Hamilton Engraving Co. Ltd.

P.O. Box 181, Station B
24 Clark Avenue
Hamilton, Ontario
Canada
L8L 7V7
Telephone: (416) 527-0718

Manufacturer of printed circuit boards, both single-sided and double-sided and plated through holes. Finishes are available in gold, tin-lead (reflowed) nickel, tin, copper solder resist. Also offers silk screen processing and pantograph engraving.

Hammond Manufacturing Co. Ltd.

394 Edinburgh Road North
Guelph, Ontario
Canada
N1H 1E5
Telephone: (519) 822-2960
Telex: 91-6452

Manufacturer of transformers and cabinetry for the electronic and electrical industry.

Harris Farinon Canada Inc.

657 Orly Avenue
Dorval, Quebec
Canada
H9P 1G1
Telephone: (514) 636-0974
Telex: 05-821893
TWX: 610-422-4122

Producer of low/medium capacity analog and digital microwave radios and accessories for point-to-point or point-to-multipoint communication links; complete turnkey systems; complete engineering services.

Helix Circuits Inc.

8421 Darnley Road
Montreal, Quebec
Canada
H4T 1X2
Telephone: (514) 733-7181
Telex: 05-824243

Manufacturer of printed circuit boards, including double-sided, multilayer, rigid-flex and other sophisticated boards. The company's multilayer boards may incorporate such features as internally and externally laminated heat sinks, buried vias, high temperature materials and assembled hardware.

Henotex (1981) Inc.

1625 Chabanel Street West,
Room 483
Montreal, Quebec
Canada
H4N 2S7
Telephone: (514) 382-6120
Telex: 05-825626

Manufacturer of metal detectors for airport security; and surgical instrument detectors (metal detectors) for hospitals.

Hermes Electronics Limited

P.O. Box 1005
40 Atlantic Street
Dartmouth, Nova Scotia
Canada
B2Y 4A1
Telephone: (902) 466-7491
Telex: 019-21744

Specialists in the design and manufacture of ASW sonobuoys and bathythermograph sonobuoys. Designer and manufacturer of ocean data products such as platforms for obtaining meteorological and oceanographic information in remote areas, drifting and moored ocean buoys; H/F communication equipment including aperiodic loop antenna arrays and high power ionospheric sounding transmitters and associated receivers. The company has also qualified a transmitter for use with the Argos satellite system.

High Vacuum Systems Inc.

6040 Shawson Drive
Mississauga, Ontario
Canada
L5T 1P5
Telephone: (416) 673-9310
Telex: 06-986766

Designer and manufacturer of vacuum systems and related components, including thin-film coating systems for microelectronics, optics and other functions; thermal vacuum systems for environmental testing of satellite components; and vacuum furnaces and ovens. Also manufactures components for use in systems such as liquid nitrogen level controllers, glow discharge power supplies, gas loading systems, etc.

Honeywell Amplitrol Inc.

100 Montcalm Boulevard
Candiac, Quebec
Canada
J5R 1B7
Telephone: (514) 659-9111

Manufacturer of high security, bank/mercantile vault, safe, ATM alarm systems; high security alarm telecommunications equipment; ULC listed, mercantile premise burglar alarms and fire/sprinkler supervisory control panels; private alarm monitoring receivers and network components.

Hovey Industries Ltd.

2378 Holly Lane
Ottawa, Ontario
Canada
K1V 7P1
Telephone: (613) 731-1200
Telex: 053-4922

Manufacturer of EPROM programmers; remote controlled robot vehicle for bomb disposal; microprocessor control systems; small integrated satellite earth stations for wide area telephone service in remote locations, pre-fabricated from mobile or fixed applications; military type telecommunications and radar equipment shelters for truck or trailer mounting equipped with or without power generating equipment, telecommunications equipment or radar equipment. Complete telecommunications systems for mobile or fixed installation, prime power generating systems.

Telecommunications system and equipment consulting; system integration; feasibility studies; project management; marketing; engineer, furnish and installation services; transmission, switching and prime power system engineering.

Huntec (70) Limited

1750 Brimley Road
Scarborough, Ontario
Canada
M1P 4X7
Telephone: (416) 299-4100
Telex: 06-963640

Designer and manufacturer of specialized geoscientific instrumentation. Systems engineers in the fields of inertial navigation systems, underwater acoustics and multisensor integration technology. Products include marine survey systems, a family of high resolution seismic sub-bottom profilers available with side-scan sonar; induced polarization receivers and transmitters for geophysical surveys.

ICC Canada

Subsidiary of the SDW Computer Group Ltd.

461 Alden Road, Unit #28
Markham, Ontario
Canada
L3R 3L4
Telephone: (416) 477-0566
Telex: 06-966637

Manufacturer of a complete product line of 'D' subminiature connectors including 9, 15, 25, 37, and 50 positions; plastic, metallized plastic and die cast zinc backshells for 9, 15, 25 and 37 positions; crimp snap-in style contacts for 20-24 AWG and 26-28 AWG wire on continuous reels; solder-cup connectors in 9, 15 and 25 positions and a complete range of right-angle connectors.

Iconopower Ltd.

1485 Triole Street
Ottawa, Ontario
Canada
K1B 3S4
Telephone: (613) 744-3670
Telex: 053-4898

Manufacturer of power supplies of 25 to 500 W output, dc or ac input up to 300 V, with single or multiple outputs to 60 V dc; controlled or uncontrolled rectifiers to 25 MW, air cooled or water cooled for electrochemical processes, motor control, welding, battery chargers, track-side supplies.

ILP Manufacturing Inc.

3950 Chesswood Drive
Downsview, Ontario
Canada
M3J 2W5
Telephone: (416) 636-9418
Telex: 06-219798

Manufacturer of toroidal transformers for power supplies, isolation transformers; audio transformers; power rating 30 VA to 625 VA in nine standard sizes; custom transformers to customer requirements; multiple primaries and secondaries.

Imapro Inc.

1760 Courtwood Crescent
Ottawa, Ontario
Canada
K2C 3L3
Telephone: (613) 226-4080

Manufacturer of high resolution presentation graphics equipment; digital film recorders for 35 mm slides and sheet film; high resolution IBM-compatible vector-raster processors supporting Ink-Jet printers, thermal copiers and film recorders. IBM PC AT-based graphics systems and custom software.

Indal Technologies Inc.

3570 Hawkestone Road
Mississauga, Ontario
Canada
L5C 2V8
Telephone: (416) 275-5300
Telex: 06-961482

Manufacturer of custom-designed microwave landing system (MLS); antenna enclosures and frangible support structures; instrument landing system (ILS); antenna frangible support structures; radar support towers and radomes; microwave and other miscellaneous antenna support structures.

Infrascan Inc.

102 — 7080 River Road
Richmond, British Columbia
Canada
V6X 1X5
Telephone: (604) 273-8655

Manufacturer of image processing systems specially designed for the laboratory environment. Areas of interest include forensic sciences, medical labs and other labs (R&D, geological, etc.). Also manufactures remote sensing surveillance packages including infrared in combination with image enhancement functions, and a helicopter mount for remote sensing equipment. Also involved in specialty software applications for image processing.

InstanTel Inc.

8 Brewer Hunt Way
Kanata, Ontario
Canada
K2K 2B5
Telephone: (613) 592-4642

Manufacturer of seismographic equipment. Products include a digital portable seismograph that provides hard-copy printout of the measurements of the after-effects of man-made disturbances such as blasting operations; an LCD-based seismograph which records values manually at periodic intervals; and a microseismic mine monitoring system to determine source location magnitude and energy levels of microseismic activities/events.

Instrumar Limited

P.O. Box 13246, Station A
Peet Street
St. John's, Newfoundland
Canada
A1B 4A5
Telephone: (709) 726-8460

New product and prototype development and production for the commercial market; manufacturing of hand-held industrial colour measuring equipment for quality control in the fish and food industries; supplier of specialized instrumentation and cold ocean technology to the fishing and offshore oil and gas industries.

Interactive Circuits & Systems Ltd.

3101 Hawthorne Road
Ottawa, Ontario
Canada
K1G 3V8
Telephone: (613) 521-0590
Telex: 053-3928

Manufacturer of VMEbus digital signal processor boards capable of performing 20 million and more arithmetic operations per second; real-time sonar beamforming systems; custom signal processing equipment for radar, communications, electronic warfare and remote sensing.

Interautomation Inc.

1115 North Service Road West
Oakville, Ontario
Canada
L6M 1N1
Telephone: (416) 827-7755
Telex: 06-982294

Manufacturer of computer-based systems for automating the testing of engines, transmissions, fuels and lubricants; computer-based systems for production monitoring, maintenance management, energy management; industrial process control systems.

Intercontinental Data Control Corp. Ltd. (INTERDACO)

2373 Stevenage Drive
Ottawa, Ontario
Canada
K1G 3W1
Telephone: (613) 733-4440
Telex: 053-4274

Manufacturer of data transmission products — time division multiplex (TDM) systems; frequency division multiplex (FDM) systems; 24-channel terminals to all CCITT recommendations; 18-channel terminals to North American standards; single-channel subscriber sets; speech plus duplex systems; data sets; limited-distance modems; dc-dc converters; telegraph power supplies; hubbing systems; regenerative repeaters; polar adapters; remote loop-back devices; special telegraph test sets; wire adapters; 2-4 wire terminating sets; EIA current converters.

Interface Technologies Inc.

325 Evans Avenue
Toronto, Ontario
Canada
M8Z 1K2
Telephone: (416) 255-5551
Telex: 06-984627

Manufacturer of electronic cable assemblies and harnesses for the computer and telecommunications industries. Designer and manufacturer of circuit cards for computer applications, mainly expansion products for IBM PC XT/AT, and compatibles.

International Road Dynamics Inc.

211 — 3502 Taylor Street East
Saskatoon, Saskatchewan
Canada
S7H 5H9
Telephone: (306) 955-3626
Telex: 074-2432

Manufacturer of traffic monitoring equipment to count, classify, weigh and identify vehicles. IRD traffic monitors include traffic counters; vehicle speed and length classifiers; vehicle type classifiers; axle load classifiers; automatic vehicle identification system, that identifies the passage of vehicles to the computer with the unique vehicle identification or electronic license plate number; vehicle and axle sensing equipment; static rail and vehicle scales; wheel load and axle scales; dynamic scales (weigh-in-motion scales); and on-board truck scales.

Products incorporate computer electronics, and feature independent operation, flexible power requirements, multilingual software systems, reliability and user-friendly software. Products are used by government, highway and traffic agencies, private trucking and transportation agencies, industrial operations and rail operations.

International Sigma Security Inc.

562 Eglinton Avenue East, Suite 103
Toronto, Ontario
Canada
M4P 1B9
Telephone: (416) 488-4450

Manufacturer of an electronic article surveillance or anti-shoplifting system. The system has three components: a passive tag that is hidden on the item to be protected; a pair of computer-controlled sensing panels (detection gates), that recognize and alarm upon the passage of the tag between them; and the de-activators, that make the tags transparent to the gates. The use of a low frequency electromagnetic search field, a complex tag signal and a sophisticated computer-based pattern recognition algorithm makes this system highly insensitive to outside interference. The system may be used wherever article (merchandise, documents, equipment) protection is required.

International Verifact Inc.

175 Jardin Drive
Concord, Ontario
Canada
L4K 1X5
Telephone: (416) 738-2211
Telex: 06-964825

Manufacturer and distributor of on-line and dial-up terminals that facilitate the electronic authorization of credit cards for point-of-sale and the electronic transfer of funds. Terminals include PIN pads with DES encryption and data security modules.

Internav Limited

Sydport Industrial Park
P.O. Box 1261
Sydney, Nova Scotia
Canada
B1P 6J9
Telephone: (902) 564-2043
Telex: 01935126

Manufacturer of Loran 'C' navigation receivers for marine craft, survey, hydrography and monitoring; new airborne Loran 'C' complete system for commuter airliners and business aviation; and Loran 'C' sensor for accurate position inputs to flight management systems.

Inventronics Limited

P.O. Box 1135
1420 Van Home Avenue East
Brandon, Manitoba
Canada
R7A 6A4
Telephone: (204) 725-2054
Telex: 07-502787

Manufacturer of cabinets, chassis, enclosures and related hardware for electronic, telecommunications and power equipment. Manufacturing from sheet metal and plastics to military specifications.

IRD Mechanalysis Limited

333 Barton Street East
Stoney Creek, Ontario
Canada
L8E 2L1
Telephone: (416) 662-7577
Telex: 061-8453

Manufacturer of vibration, sound and spike energy meters; vibration, sound and spike energy analyzers including FFT; vibration and spike energy data collectors; software to condense information from data collectors; vibration and condition monitors and systems; portable dynamic balancing instruments; dynamic balancing machines 0.5 kg to 250,000 kg rotor weight capacity; dedicated dynamic balancing instruments.

ISB Ltd.

875 Montee de Liesse
Saint-Laurent, Quebec
Canada
H4T 1P5
Telephone: (514) 739-1795
Telex: 055-62171

Manufacturer of modulated infrared light guard for machine tools; programmable microprocessor control panel for machine tools; programmable back gauge for press brake; KWIKSHOP digital measuring system; and LUMAID emergency lighting units.

ITL Circuits Ltd.

90 Don Park Road
Markham, Ontario
Canada
L3R 1C4
Telephone: (416) 475-6658

Manufacturer of custom multilayer printed circuit boards for industrial applications.

ITT Cannon Canada

Four Cannon Court
Whitby, Ontario
Canada
L1N 5V8
Telephone: (416) 668-8881
Telex: 06-981357

Designer and manufacturer of electrical multi-pin connectors for hostile environments; specialized connectors for shipboard and jet engine applications, nuclear power plants, geophysical exploration, oil drilling (well logging). Major products include high density/high shock naval shipboard connectors approved to MIL-C-28840 and MIL-C-5015; miniature aircraft firewall connectors approved to MIL-C-83723 Series III; and high pressure/high temperature connectors designed to withstand 30,000 psi at 600 degrees F.

ITT Sel Canada

180 Duncan Mill Road, 3rd Floor
Don Mills, Ontario
Canada
M3B 1Z6
Telephone: (416) 445-8600
Telex: 06-986112

Manufacturer of Intersig, an electronic interlocking system for urban transit and mainline operation; Selcom, an AAR type remote control system; lcom, an inductive transmission system for light rail applications to control switches, pre-emptive signalling, passenger information, etc.; Seltrain, a transponder-based advanced train control system for mainline operation; and Seltrac, an automatic train control system for urban transit.

Jatom Systems Inc.

294 Albert Street, Suite 600
Ottawa, Ontario
Canada
K1P 6E6
Telephone: (613) 236-6917

Manufacturer of telecommunications products with telephone applications — dialed number recorder; loop extender; slave systems. All enable local or remote monitoring of telephone line activity.

Design and acquisition of security systems for professional user communities such as corrections, airports, hospitals, plant areas, exposed production facilities (i.e. refineries, oil extraction facilities, remote activities).

K.W. Wilk Associates

Div. of United Telephone Company Ltd.

34 Capital Drive
Nepean, Ontario
Canada
K2G 0E9
Telephone: (613) 226-6860
Telex: 053-3521

Designer and manufacturer of marine communications systems. Internal stand-alone systems offer features such as marine automatic telephone, loudhailer, intercom/talkback, public address, entertainment, crew call, fire alarm and general alarms. The company designed the KWA integrated shipboard communication system for the Canadian Coast Guard and has installed approximately 100 systems. These integrate internal shipboard communications systems and long range radio communications by means of a common wiring network and central control device. The internal system approach permits maximum flexibility, ease of operation, reduced costs and higher reliability.

KB Electronic Limited

150 Bluewater Road
Bedford, Nova Scotia
Canada
B4B 1G9
Telephone: (902) 835-7268
Telex: 019-21779

Manufacturer of electronic power conversion equipment; power supplies; converters; frequency changers; UPS systems up to 50 kVA to full MIL-spec; up to 200 kVA industrial-commercial helicopter starting systems; special power supplies/converters for weapon systems. The company is NATO certified 38370 with AQAP-1 & 6 MIL-spec test certification laboratory vibration, EMI, environmental, acoustic noise testing. Products are used in merchant marine and most major defence programs in Canada, U.S. and Europe.

Kom Inc.

145 Spruce Street
Ottawa, Ontario
Canada
K1R 6P1
Telephone: (613) 238-7766
Telex: 053-4916

Manufacture and service support of a computer hardware/software package that uses optical "write-once" disk drives to produce a multiple write/read, file server system; and the manufacture and service support of custom configured minicomputer systems and computer communication products.

Konar Ltd.

123 Marville Road
Scarborough, Ontario
Canada
MIL 4J4
Telephone: (416) 751-5980
Telex: 06-963542

Manufacturer of printed circuit boards for telecommunications, industrial and military applications. Board configurations include multilayer, double-sided and surface mount. Also manufactures backpanels.

Kraus Industries Ltd.

P.O. Box 250
204 Day Street
Winnipeg, Manitoba
Canada
R2C 1A8
Telephone: (204) 224-1616
Telex: 07-57829

Manufacturer of petroleum marketing equipment such as self-serve control systems/POS terminals; electronic retrofit pump computers; electronic air pressure regulators (tire inflators); electronic self-contained tire inflator systems; remote price sign systems; rapidcom remote credit card verification terminals; and command start remote control car engine starters for the consumer market.

L.H. Frost Limited

1130 Eighth Line
Oakville, Ontario
Canada
L6H 2R4
Telephone: (416) 844-6681

Manufacturer of powdered iron and ferrite components.

La Cie d'Électronique Normex Ltée

55 Montpellier Boulevard
Saint-Laurent, Quebec
Canada
H4N 2G3
Telephone: (514) 748-7811

Manufacturer of Telnox L-O, a telephone used by radio and TV broadcasters incorporating microprocessors and many automatic operations, providing intelligent management of requirements. The telephone can conference 10 lines simultaneously without loss of power.

Lab-Volt Ltd.

4555 Metropolitan Boulevard East
Suite 102
Montreal, Quebec
Canada
KIR 1Z4
Telephone: (514) 376-2120
Telex: 05-25415

Manufacturer of educational equipment such as electro-mechanical systems; synchro servo; winding kit; dissectible machines and motor winding systems; control of industrial motors; transmission line systems; analog communications systems; instrumentation and process control; refrigeration, heating and air conditioning training systems; power technology training

systems; basics of power electronics systems; micro-processor, microcomputer, practical electronics; digital electronics; robotics; fluid power, hydraulics and pneumatics; air logic; electro-hydraulic servo valve; fundamental digital communications analog; and digital telecommunication training systems.

Lanpar Technologies Inc.

85 Torbay Road
Markham, Ontario
Canada
L3R 4B4
Telephone: (416) 475-9123
Telex: 06-986179

Manufacturer of video display terminals, the highest performance DEC-compatible terminals in the industry with enhancements such as memory pages, windows, graphics and user programmable intelligent function key systems. Producer of Burroughs-compatible models. Also maker of metal, metalized and plastic connector covers; private labelled for major OEMs, cable houses and connector manufacturers.

Larcan Communications Equipment Inc.

6520 Northam Drive
Mississauga, Ontario
Canada
L4V 1H9
Telephone: (416) 678-9970
Telex: 06-968055

Designer and manufacturer of a line of TV and FM transmitters. VHF television transmitters range from the all solid-state 100 W units up to 50 kW units which use only two tubes. Transmitters are multi-channel, sound compatible for the North American System, and can be used for broadcasting the new stereo, separate audio program (SAP) and professional channel services. FM radio transmitter line ranges from the all solid-state 30 W unit to the single tube-25 kW model. Also manufactures the Ultrapower series of VHF slot antennae as well as combiners, diplexers and filters.

Lazare Electronics

15887 Gouin Boulevard West
Sainte-Geneviève, Quebec
Canada
H9H 1C5
Telephone: (514) 620-1230

Manufacturer of a broad range of transformers and inductive components, including power transformers; ferro resonant; constant voltage; voltage regulating; control; auto; three phase auto; three phase; P.C. type transformers; and chokes-inductors.

Lazer-Tech Limited

33 Melford Drive, Unit #1
Scarborough, Ontario
Canada
M1B 2G6
Telephone: (416) 291-7727
Telex: 065-25308

Manufacturer of single-side, double-sided and multi-layer printed circuit boards.

Leblanc & Royle Communications Inc.

P.O. Box 880
514 Chartwell Road
Oakville, Ontario
Canada
L6J 5C5
Telephone: (416) 844-1242
Telex: 06-982226

Designer, manufacturer and installer of communication towers for HF, VHF, UHF, M/W and broadcast; testing and commissioning of communication systems; total turnkey projects including site development; 10 in. to 12 foot face guyed masts up to 2300 feet and self-supporting towers to 800 feet

Leeds & Northrup, Canada Div. of General Signal Limited

41 Constellation Court
Rexdale, Ontario
Canada
M9W 1K4
Telephone: (416) 675-7711
Telex: 06989146

Manufacturer of distributed control systems; process control instruments; pH analyzers and controllers; conductivity analyzers and controllers; recorders; data loggers; supervisory control systems; SCADA systems; pressure transmitters; thermocouple gas and liquid sampling panels; particle size analyzers; surface area analyzers; precision lab equipment; resistance standards.

Leigh Instruments Limited

2680 Queensview Drive
Ottawa, Ontario
Canada
K2B 8J9
Telephone: (613) 820-9720
Telex: 053-4129

Manufacturer of electronic and electromechanical avionics, including crash position indicators, mechanical strain recorders, flight data recorders, ice detection systems, video map generators and edge-lit information panels; air traffic control and flight information display systems; vessel traffic management systems; mobile and fixed ground-based TACAN and VORTAC equipment. Affiliated companies manufacture frequency control devices, hermetic seals, and printed circuit and terminal boards to specification.

Leigh Navigation Systems Ltd.

7 Bovis Drive
Pointe-Claire, Quebec
Canada
H9R 4W3
Telephone: (514) 695-8130
Telex: 05-821529

Systems integrator of air traffic control tower systems; runway lighting systems; communication switching systems; radio spectrum management systems; and custom systems

Leitch Video International Inc.

10 Dyas Road
Don Mills, Ontario
Canada
M3B 1V5
Telephone: (416) 445-9640
Telex: 06-986241

Manufacturer of television broadcast and production equipment including synchronizing pulse generators; video processing and distribution equipment; video test equipment; audio distribution equipment; audio and video switching equipment; master clock systems; analog and digital clocks; vertical internal test equipment.

Lindsay Specialty Products Ltd.

50 Mary Street West
Lindsay, Ontario
Canada
K9V 4S7
Telephone: (705) 324-2196
Telex: 06962-860

Manufacturer of antennae—professional antennae for broadcast, cable television and communications; full line of TVRO satellite dishes in 8 ft., 9 ft., 10 ft., 11 ft., 12 ft., both solid and mesh material; CATV hardware—complete line of state-of-the-art trunk bridger stations with feed-forward and power doubling technology to 450 MHz; line extenders to 500 MHz, mini-trunk and trunk bridger combinations with power doubling; line passives to 550 MHz and subscriber taps to 500 MHz; full line of coaxial connectors and subscriber drop metal.

Linear Technology Inc.

P.O. Box 489, Station A
970 Fraser Drive
Burlington, Ontario
Canada
L7R 3Y3
Telephone: (416) 632-2996
Telex: 061-8525

Designer and manufacturer of linear bipolar integrated circuits. Products exported include low voltage, low power audio-frequency amplifier integrated circuits in LTI proprietary miniature plastic surface mount packages; custom and semicustom integrated circuits designed to meet customer specifications in industry standard DIP plastic and cerdip packages; and special purpose integrated circuits such as AGC amplifiers and video switches in industry standard DIP plastic and cerdip packages.

Lionmount & Co. Ltd.

315 Albany Avenue
Toronto, Ontario
Canada
M5R 3E2
Telephone: (416) 537-9874
Telex: 065-25481

Manufacturer of Decade resistance boxes, Decade inductance boxes, Decade capacitance boxes.

Liquid Transfer Systems Ltd.

1325 Shawson Drive
Mississauga, Ontario
Canada
L4W 1C4
Telephone: (416) 678-6314
Telex: 06-968509

Manufacturer of automotive fuel dispensers (gasoline, diesel, propane, natural gas); electronic computers for fuel dispensers with features such as automatic temperature compensation, cash/credit pricing, island card terminals for fleet fueling; service station automation equipment including point-of-sale terminals, pump controllers, automated fuel dispensers with grade blending capabilities; and liquid level tank gauging systems for storage tanks, above or underground.

Lisle-Metrix Ltd.

49 Sheffield Street
Toronto, Ontario
Canada
M6M 3E5
Telephone: (416) 249-9151
Telex: 06-969682

Manufacturer of process control instrumentation.

Litton Systems Canada Limited

25 City View Drive
Etobicoke, Ontario
Canada
M9W 5A7
Telephone: (416) 249-1231
Telex: 06-989406

Manufacturer of inertial navigation systems; marine gyro-compasses; command, control and communications systems; airborne search radar automated test equipment; flight inspection systems; light emitting diode; liquid crystals and cathode ray tube display systems; integrated security systems.

Lloyd Controls Ltd.

3046 Westwood Street
Port Coquitlam, British Columbia
Canada
V3C 3L7
Telephone: (604) 464-8505
Telex: 04-353563

Manufacturer of electrical and electronic controls for the forest products industry, crane industry and bulk handling. Areas of specialization are variable speed motor control (ac or dc), computerized process control (Motorola MC68000), and programmable logic controls.

Lumonics Inc.

105 Schneider Road
Kanata, Ontario
Canada
K2Y 1Y3
Telephone: (613) 592-1460
Telex: 053-4503

Manufacturer of high energy pulsed TEA CO₂ lasers for spectroscopy, materials research, propagation studies and plasma/fusion research; lasers operating with such gases as carbon monoxide, hydrogen fluoride, hydrogen bromide and deuterium fluoride; industrial lasers for use in production marking of a variety of non-metallic surfaces; excimer UV/VIs pulse lasers for research; yag laser systems; ophthalmological surgical systems; dye lasers.

Madsen Electronics (Canada) Limited

P.O. Box 535
2370 Speers Road
Oakville, Ontario
Canada
L6J 5B4
Telephone: (416) 825-0122
Telex: 06-982298

Manufacturer of clinical and diagnostic instruments for audiology, otology and neurology. Complete line of audiometric instruments including clinical audiometers; screening audiometers; impedance audiometers; automatic tympanometer; brainstem evoked response audiometer and evoked potential measuring system; visible speech training system for the training of hearing impaired handicaps; and insertion gain optimizer for the evaluation of hearing aids.

Magnetic Metals Ltd.

P.O. Box 1118
10 Spalding Drive
Brantford, Ontario
Canada
N3T 5T3
Telephone: (519) 753-8675
Telex: 061-81267

Manufacturer of transformer laminations in standard EI shapes and custom shapes and sizes; electric motor laminations in integral fractional and sub-fractional sizes, custom and universal shapes. Press capacity 30 to 100 tons; annealing capabilities

Main Prototypes Ltd.

15 Raglin Place
Cambridge, Ontario
Canada
NIR 7J2
Telephone: (519) 622-2291

Manufacturer of bezels, key-boards, cabinetry, housings, etc., produced by thermo-forming super plastic zinc. Parts are produced in metal while offering a plastic appearance; excellent EMI shielding is achieved — non-flammable with good impact qualities. Ideally suited for low volume runs (200-10,000 per year); lead times and tooling costs are much less than for plastics. The metal is an alloy of zinc and aluminum which becomes very supple when heated; after forming and cooling, it retains its metal qualities and shape. Final operations: trimming, piercing, applying fasteners and painting make the component complete.

Mallory Components

222 Dixon Road
Weston, Ontario
Canada
M9P 3S5
Telephone: (416) 244-4230
Telex: 064-74132

Manufacturer of extreme application electrolytic capacitors for photoflash, power electronics and welding applications; potentiometers and rheostats for audio, industrial and commercial applications up to 12.5 W RMS ratings; inductors, variable ganged inductors for oscillators, stiff preselects and various high "Q" applications.

Manutronics Div. of Microtel Ltd.

100 Strowger Boulevard
Brockville, Ontario
Canada
K6V 5W8
Telephone: (613) 342-6621
Telex: 066-36532
Twx: 610-525-1061

Offers custom electronic manufacturing to both the military and commercial markets. From piece part to complete "black box" systems, the company offers design expertise, manufacturing engineering, quality assurance and materials management to support full-scale manufacturing. Services include sheet-metal fabrication; printed circuit board design, layout and fabrication; printed wiring card assembly and test; automated backplane wiring; final assembly and systems testing.

Marine Safe Electronics of Canada Ltd.

37 Staffern Drive
Concord, Ontario
Canada
L4K 2X2
Telephone: (416) 738-3744
Telex: 06-964698

Manufacturer of the FAILSAFE electric motor/generator protector, an early warning preventative maintenance device. By continuously monitoring the insulation resistance of idle electric motors, generators and cable networks, FAILSAFE eliminates the need for frequent meggering, and eliminates surprise burnouts and costly downtime. FAILSAFE is suitable for the protection of any rotating electrical machinery. With extensive application for operations in harsh or moist environments, FAILSAFE has been approved or certified by the following: Loyds Register of Shipping Certificate No. 880351, DET Norske Veritas, Germanischer Lloyd, U.L. File No. 73395(M), American Bureau of Shipping, U.S. Coast Guard, CSA.

Matrox Electronics Systems Ltd.

1055 Saint-Regis Boulevard
Dorval, Quebec
Canada
H9P 2T4
Telephone: (514) 685-2630
Telex: 05-822798

Manufacturer of video and computer boards and systems. Board level products include 2D and 3D graphics controllers; imaging controllers; and alphanumeric controllers for the Multibus, IBM PC BUS, Q-Bus, VME-bus and STD-BUS; also, 32, 8-bit CPU boards; memory boards; and peripheral controller boards for the Multibus. System level products include a complete disk based microcomputer; a high-end graphics terminal; and a complete range of microcomputer peripherals, card cages and monitors. Also engaged in the design and manufacture of custom designed display systems for OEMs with special requirements.

MDDC Systems Ltd.

75 Hymus Boulevard
Pointe-Claire, Quebec
Canada
J5R 3Z5
Telephone: (514) 697-3307
Telex: 05-823516

Supplier of computer integrated manufacturing systems for the pulp and paper industry, including software and hardware components for order entry; production planning; quality control; mill accounting; power house; pulp mill; recovery area; paper machine control; finishing; warehouse and shipping.

Mechron Energy Ltd.

2437 Kaladar Avenue
Ottawa, Ontario
Canada
K1V 8B9
Telephone: (613) 733-3855
Telex: 053-4271

Manufacturer of power systems for critical applications such as telecommunications, defense, navigation, computer systems — prime power including diesel, photovoltaic and hybrid; uninterruptible power systems; rectifiers and dc power systems.

Megatel Computer Technologies Div. of F&K Manufacturing Co. Ltd.

150 Turbine Drive
Weston, Ontario
Canada
M9L 2S2
Telephone: (416) 745-7214
Telex: 27453065

Manufacturer of single-board computers for the OEMs. Specific applications include industrial control, protocol converters, biomedical instrumentation and SCADA. The company currently exports 80 per cent of its production.

Memotec Data Inc.

600 McCaffrey Street
Montreal, Quebec
Canada
H4T 1N1
Telephone: (514) 738-4781
Telex: 05-824228

Designer and manufacturer of sophisticated communications processing products that allow customers to link computers, terminals, word processors and other electronic support devices through X.25 communications, including packet assemblers/disassemblers (PAD) concentrators, that transfer data to packet switching network for transmission to its destination; switching processors which route and concentrate X.25 data to its proper destination; network control centre, software programs for network management and configuration, billing and statistics management; multi-protocol switching node to integrate a variety of computers and related components on one network.

Mesotech Systems Ltd.

2830 Huntington Place
Port Coquitlam, British Columbia
Canada
V3C 4T3
Telephone: (604) 464-8144
Telex: 04-353637

Designer, developer and manufacturer of underwater acoustic equipment, including imaging and profiling sonars; transducers; echo sounders; underwater telephones; acoustic navigation systems; acoustic telemetry systems; acoustic and electromechanical releases/transponders; and pingers.

Micronav Ltd.

P.O. Box 1523
Sydport Industrial Park
Sydney, Nova Scotia
Canada
B1P 6R7
Telephone: (902) 564-8833

Manufacturer of microwave landing systems; ground equipment to international civil aviation (ICAO) specifications; full systems and turnkey installations.

Microtel Limited

401 West Georgia Street, Suite 2100
Vancouver, British Columbia
Canada
V6B 5C8
Telephone: (604) 683-3575
Telex: 04-354603
TWX: 610-922-6096

Manufacturer of telecommunications systems and equipment, including satellite communications systems (Spacotel); digital and analog switching systems; analog and digital multiplex equipment; network management systems (System 51); building entrance control and communications system (Enterphone); digital access and cross-connect system (Daxcon); specialized telephone test equipment.

Capabilities and services, including custom manufacturing (Manutronics, see separate listing); development and presentation of conventional and computer-based training courses (Microtel Learning Services); computer-assisted technical documentation production; contract research and development; turnkey operations; systems consulting and custom design; systems design and engineering.

Microtronix Systems Ltd.

120 Bessemer Road
London, Ontario
Canada
N6E 1R2
Telephone: (519) 681-3430
Telex: 064-5642

Manufacturer of the Model 60 telephone test set, that fully integrates all important tests in one system. The set can display various loudness ratings directly, fully measure DTMF and Rotary diallers, measure the fundamental frequencies and amplitudes of an electronic ringer and provide automation control features that completely eliminate operator intervention. The modular design of the Model 60 allows expansion on a custom basis to accommodate special interfaces to solve particular telephone testing problems.

Miller Communications Systems Ltd.

300 Legget Drive
Kanata, Ontario
Canada
K2K 1Y5
Telephone: (613) 592-3020
Telex: 053-4164

The company's Advanced Systems Division performs system design studies, analyses and simulations, mainly in communications and electronic warfare. It has capabilities in the areas of digital modulation and coding, spread spectrum techniques, channel modelling and propagation analysis, emitter location and identification, spectrum analysing receivers, fixed/mobile satellite system design, satellite navigation and positioning, and interference effects analysis.

The Monitoring Systems Division produces computer-controlled instrumentation for communications monitoring, research and simulation. Products for both military and commercial applications include systems for spectrum surveillance, satellite monitoring, and satellite-mobile propagation simulation.

The Telemetry Systems Division produces data downlink systems designed to transmit high-speed information, such as digitized SLAR radar video in real time from an aircraft to a ship or ground station. Data downlink system products include a high-resolution airborne data acquisition system.

Milltronics

P.O. Box 4225
730 The Kingsway
Peterborough, Ontario
Canada
K9J 7B1
Telephone: (705) 745-2431
Telex: 09-962851

Manufacturer of control devices for industrial use; ultrasonic measurement equipment; gravitational weigh devices (belt scale); and motion failure alarms.

Milton Roy Industries Ltd.

P.O. Box 2260
300 Milroy Drive
Peterborough, Ontario
Canada
K9J 7Y8
Telephone: (705) 743-6550
Telex: 06-962845

Developer and manufacturer of instruments and systems for metering, analysing, purifying, recording and controlling fluids. Major product lines are chemical metering pumps and electronically controlled chemical injection systems; electronic coagulant control instrument using the streaming current principle; ultrasonic liquid level detector with a transducer that does not penetrate the vessel; custom designed electric and electronic control panels; and a line of industrial chemical mixers.

Mirtone Industries Ltd.

425 Alness Street
Downsview, Ontario
Canada
M3J 2H4
Telephone: (416) 667-1211
Telex: 06-217501

Manufacturer of fire alarms; emergency voice communications; intercoms.

Mitec Electronics

104 Gun Avenue
Pointe-Claire, Quebec
Canada
H9R 3X3
Telephone: (514) 694-6666

Designer and manufacturer of microwave components and subsystems for communication systems, earth satellite stations and defense systems operating in the 1-50 GHz range.

Mitel Corporation

350 Legget Drive
Kanata, Ontario
Canada
K2K 1X3
Telephone: (613) 592-2122
Telex: 053-4596
TWX: 610-562-8529

Manufacturer of telecommunications equipment and semiconductor devices, including innovative electronic telephone switching systems (PABXs) for voice and data. The company also manufactures specialized telephone sets, voice/data terminals, and call cost accounting equipment to provide a comprehensive range of communications services.

Mitsubishi Electronics Industries Canada Inc.

1000 Wye Valley Road
Midland, Ontario
Canada
L4R 4L8
Telephone: (705) 526-7871
Telex: 06-875851

Manufacturer of cathode ray tubes for colour televisions.

Mobile Data International Inc.

Riverside Industrial Park
11411 Number 5 Road
Richmond, British Columbia
Canada
V7A 4Z3
Telephone: (604) 277-1511
Telex: 04-355865

Manufacturer of wireless data communications systems. Products include a variety of vehicular and portable communications terminals for two-way transmission of high integrity data at high speed over radio frequency. Wireless data systems for police departments, taxi companies, public utilities, hospitals, automobile associations, ambulance and fire brigades are supplied to customers in the United States, Western Europe and Asia. Also, a supplier of transmission products to network operators who wish to offer public wireless data communications to smaller user groups.

Modern Power Conversion Inc.

7100 Warden Avenue, Unit #3
Markham, Ontario
Canada
L3R 5M7
Telephone: (416) 477-3387
Telex: 06-986107

Manufacturer of FET switch-mode power supplies ranging from 35 watts to over 1000 watts in free-air. Efficiency for these products is typically greater than 78 per cent under full load conditions.

Moli Energy Ltd.

3958 Myrtle Street
Burnaby, British Columbia
Canada
V5C 4G2
Telephone: (604) 437-6927
Telex: 04-356708

Manufacturer of rechargeable lithium batteries.

Mosaid Systems Inc.

P.O. Box 13579
Kanata, Ontario
Canada
K2K 1X6
Telephone: (613) 836-3134
Telex: 053-4986

Manufacturer of memory test systems. Mosaid Inc., an affiliated company, offers consulting and research and development services including design of integrated circuits; design analysis of integrated circuits; and CAD software, the MOSFET model parameter extractor.

Motorola Information Systems Ltd.

9445 Airport Road
Brampton, Ontario
Canada
L6S 1J3
Telephone: (416) 793-5700
Telex: 06-97565

Manufacturer of data communications equipment, including modems (data sets); line drivers (local distribution units); multiplexers; data switching; packet switches; circuit access and test systems; and array signal processors.

MPB Technologies Inc.

1725 North Service Road
Dorval, Quebec
Canada
H9P 1J1
Telephone: (514) 683-1490
Telex: 05-823509
Cable: MPBTCAN

Manufacturer of lasers and laser systems for industrial processes, scientific measurements and communications; high definition graphics and character generator systems for TV broadcast applications; radar, radiometers and scatterometers operating in the 5,000-140,000 MHz bands; optical fibre isolators, coders, decoders and communications systems. Design and development of custom control and data acquisition systems, custom control software and systems test equipment for space applications.

MSE Engineering Systems Ltd.

265 Canarctic Drive
Downsview, Ontario
Canada
M3J 2N7
Telephone: (416) 661-5646
Telex: 06-23982

Systems designer and manufacturer of microprocessor-based systems for security, SCADA, CCTV, oceanographic (CCTV) and nuclear (CCTV). Products include underwater television cameras and systems; underwater lighting; radiation hardened television cameras and systems; radiation hardened lighting; camera housings; CCTV sync generator; CCTV sync and video distribution amplifiers; CCTV sync and video equalization amplifiers.

Muirhead Systems Ltd.

50 Galaxy Boulevard, Unit #4
Rexdale, Ontario
Canada
M9W 4Y5
Telephone: (416) 675-7450
Telex: 06-989264

Manufacturer of equipment and custom software for the processing, transmission, display and printing of meteorological satellite pictures as well as for the newspaper industry, handling projects involving digital and/or analog computer photo processing. Products manufactured for export include Viewfax I and Muirhead Electronic Picture Desk (MEPD), based on DEC computers and Viewfax III, that uses IBM PCs.

Multi-Amp Canada Limited

445 Finchdene Square
Scarborough, Ontario
Canada
M1X 1B7
Telephone: (416) 298-6770
Telex: 065-25453

Manufacturer of instruments for measuring voltage, current, phase angle, power, dielectric strength of power apparatus, dealing only with power frequency type equipment. Also involved with accuracy measurement of metrology oriented apparatus, i.e. watt-hour meters, instrument transformers and wattmeter standards.

Multi-Vox Limitée

9967, boulevard Saint-Michel
Montreal, Quebec
Canada
H1H 5G7
Telephone: (514) 321-3130

Manufacturer of intercommunication devices for schools, hospitals, apartment blocks, businesses, industries, etc. General calling devices.

Multilin Inc.

7 Heritage Road
Markham, Ontario
Canada
L3P 1M3
Telephone: (416) 294-9405
Telex: 069-66503

Manufacturer of electronic motor protection relays; 3 phase transformer fan controls; heat tracing controls; 600 V circuit breaker static trip relays; temperature controls/alarms; scanners.

Multiplex Systems and Computers Ltd.

7171 Torbram Road
Mississauga, Ontario
Canada
L4T 3W4
Telephone: (416) 678-1261

Manufacturer of multiplex signalling equipment and associated control panels for alarm systems.

Murata Erie North America Ltd.

5 Fraser Avenue
Trenton, Ontario
Canada
K8V 5S1
Telephone: (613) 392-2581
Telex: 06-62279

Designer and manufacturer of high quality EMI filters and filtering systems, including PI section EMI filters T-section filters; L-section filters; feed-through filters; MIL F-15733; MIL-C-39014; ac line filters; transient suppression filters; filter D-connectors; filtered cylindrical connectors; high voltage power supplies; filter pins; and ceramic capacitors.

MacDonald, Dettwiler and Associates Ltd.

3751 Shell Road
Richmond, British Columbia
Canada
V6X 2Z9
Telephone: (604) 278-3411
Telex: 04-355599

Manufacturer of remote sensing groundstations; image analysis systems; mapping systems; airborne and spaceborne SAR systems; meteorological systems and groundstations; electro-optical products with applications in graphic arts, printed circuit boards, seismic plotting and digital page makeup systems.

McCurdy Radio Industries Limited

108 Camforth Road
Toronto, Ontario
Canada
M4A 2L4
Telephone: (416) 751-6262
Telex: 06-963533

Audio and video professional equipment for the radio, television, communications, film and telephony/common carrier market. Products include: audio/video distribution equipment, audio/video routing and switching, analog and digital intercom systems, digital delay units, audio mixing consoles, test and measurement devices, turntable systems. In addition full facilities for engineering systems design, manufacturing and integration including cabinetry and furniture.

McNeill Electronics Ltd.

19 Colville Road
Toronto, Ontario
Canada
M6M 2Y2
Telephone: (416) 247-7429

Manufacturer of inductor coils and small transformers; choke and hash filters; pot core transformers and other ferrite assemblies. Winds bobbins and toroidal coils and assembles printed circuit boards.

National Business Systems Inc.

3206 Orlando Drive
Mississauga, Ontario
Canada
L4V 1R5
Telephone: (416) 671-3334
Telex: 06-968657

Supplier of a complete package of equipment and services to issuers of all types of plastic transaction and ID cards. Products include plastic card embossers; encoders; imprinters; automatic transaction/authorization terminals (POS); and sophisticated high speed, non-impact printers. Also manufactures plastic cards, photo identification products and holograms. Through its service bureaus, the company embosses, encodes and mails plastic transaction cards for banks, oil companies, retailers, governments, universities and hospitals.

Nautel (Nautical Electronic Labs Ltd.)

R.R. 1
Tantallon, Halifax County,
Nova Scotia
Canada
BOJ 3J0
Telephone: (902) 823-2233
Telex: 019-22552

Manufacturer of high power, totally solid-state radio transmitter technology with power levels up to 50 kW. Additional products include antennae, matching units, control systems and other associated equipment. Product lines are available for AM broadcasting — high efficiency totally solid-state transmitters for 54C-1700 kHz band at power levels from 400 to 50,000 watts; civil aviation — non directional beacons from 50 to 4000 watts (16,000 watts PEP); coastal radio — non directional marine beacons for single or sequenced operation; and MF telegraph transmitters, 415 to 540 kHz with emissions A1A, A2A and F1B.

Navair Limited

P.O. Box 214, Malton Postal Station
2450 Derry Road, Hangar No. 2
Mississauga, Ontario
Canada
L4T 3B6
Telephone: (416) 676-4150
Telex: 06-968631

Manufacturer of avionics products including the Navair IRIS 2000 ATE for airline avionics manufacturers and military customers; sold with application software for RF units and non-RF aircraft. The company offers custom designed avionics training courses for avionic technicians; courses vary in depth from low-level familiarization to high-level line III (component replacement on the bench including re-calibration); and product turnkey avionics maintenance service facilities supplied and installed by Navair's experienced personnel.

NEI Canada Limited

121 Industry Street
Toronto, Ontario
Canada
M6M 4M3
Telephone: (416) 762-3661
Telex: 06-969825

Manufacturer of electronic display systems and components, incorporating light reflecting, permanent memory, electromagnetic disk technology. Components are used in vehicle destination signs, gasoline price signs, status indicators, computer boards, utility instruments and other applications where permanent memory is a desirable feature. Electronic systems include information signs for highway and highly-travelled roads, tunnels and bridges; passenger information for airport, bus, rail and boat terminals; status information boards for telephone, electronics, water utilities; floor trading information for stock exchanges and commodity analyses; and information signs for forthcoming events for convention and entertainment centres. Extensive installation and field service operations accompany these systems.

Neosid (Canada) Ltd.

10 Vansco Road
Toronto, Ontario
Canada
M8Z 5J4
Telephone: (416) 251-2831

Manufacturer of powdered iron and ferrite components, particularly plain cores, sleeve cores, toroidal cores (including high permeability iron toroids), hollow cores, suppression beads and baluns, insert cores, including tuning cores, threaded cores and coil forms with leads. These parts are generally made to the Metal Powders Industry Federation (MPIF) specifications or custom made to specific requirements. Also available are thread rolled small diameter studs with or without milled end flats or slots. Ferrite rods and complete impellers for high frequency tube mills.

Network Data Systems Ltd.

245 Yorkland Boulevard, Suite 301
Willowdale, Ontario
Canada
M2J 4W9
Telephone: (416) 497-0910

Manufacturer of the Tex-Com 2400, a communicating word processor that includes ASCII, telex and teletex communications standards. The computer can use a variety of electronic typewriters as input/output, or a standard keyboard and printer; an internal modem allows baud rates to 2400 bps; the teletex standard requires memory-to-memory transmission at 2400 baud, 309 different characters can be displayed. The product meets rigid CCITT standards.

Nexus Engineering Corp.

4181 McConnell Drive
Burnaby, British Columbia
Canada
V5A 3J7
Telephone: (604) 420-5322

Manufacturer of equipment for the reception and distribution of commercial satellite television, audio and data signals, including television modulators; processors; satellite receivers for C and Ku bands; stereo generation and modulation equipment; combining networks. Lower power television and FM broadcast transmitters and translators including filter and combining networks. All components are available in both NTSC and PAL formats. High frequency circuit design and manufacture of specialty components generally, but not limited to, telecommunications.

Nordco Limited

P.O. Box 8833
34 Glencoe Drive Donavons
St. John's, Newfoundland
Canada
A1B 3T2
Telephone: (709) 364-1200

A research and development based consulting/services company providing contract R&D, consulting management services and products to the ocean resource development sector. Services include: fish harvesting, marine engineering, environmental, remote sensing, geophysical and geotechnical, as well as hydrocarbon studies for offshore development; geophysical surveys, sea state forecasting, oceanographic measurements. Products include: SVB sea drilling/sampling systems, environmental monitoring, motion and stability monitoring, ballast control and marine supervisory systems.

Norpak Corporation

10 Hearst Way
Kanata, Ontario
Canada
K2L 2P4
Telephone: (613) 592-4164
Telex: EOS063666

Developer and manufacturer of teletext and videotex products and systems which implement the EIA North American basic teletext specification (NABTS) and ANSI North American presentation level protocol syntax (NAPLPS) standards. The company has dedicated its resources to these technologies and is the only firm providing a full range of videotex and teletext database creation, delivery and terminal systems. Also provides technical, creative, consulting and engineering development services.

Norsat International Inc.

302 — 12886 — 78 Avenue
Surrey, British Columbia
Canada
V3W 8E7
Telephone: (604) 591-3334
Telex: 04-508306

Manufacturer of satellite communications equipment and integrated packaged systems for TVRO, SMATV, CATV and data. Satellite receivers; low noise amplifiers; low noise block down converters; accessory products. Custom design and manufacture of satellite terminals to user requirements. All products available to operate in either C or Ku band.

Northern Telecom Canada Ltd.

304 The East Mall
Islington, Ontario
Canada
M9B 6E4
Telephone: (416) 232-2000
Telex: 06-984607
TWX: 610-492-6311

Manufacturer of common-control crossbar telephone switching exchanges; stored-program electronic digital and analog telephone switching exchanges; microwave radio and coaxial transmission systems — long and short-haul; light and heavy route multiplex — digital and analog; private branch exchanges — crossbar and analog and digital electronic; digital data switching system; distributed data processing and terminal equipment; key telephone systems; business interphone systems; telephone sets — business and residential; integrated voice and data systems; telephone head sets — light-weight and standard; coin telephone sets — box and panel; test equipment; connecting blocks; loading coils; filters; protectors; power plants; amplifiers. Produces fibre optics systems for telecommunications applications. Product trade names

include the Meridian SL1 and SL100 integrated services network; Pulse — a PBX; Imagination, Contempra and Logic Harmony, Unity, and Signature telephone sets and Companion, a handsfree speakerphone; DMS, a complete family of digital transmission and central office switching exchanges; DMS-1 and DMS-1A digital subscriber carrier systems; and TOPS, the traffic operator position system, a member of the SP-1 family of switches; DPN (digital packet network) family of data packet switching systems; Display-phone integrated voice and data terminal.

Nova Scotia Research

P.O. Box 790
100 Fenwick Street
Dartmouth, Nova Scotia
Canada
B2Y 3Z7
Telephone: (902) 424-8670
Telex: 019-22719

Manufacturer of fibre optical rotary joints; electrical slip rings; marine multiplexer systems; marine sub-bottom profilers.

Novatech Designs Ltd.

820 Cormorant Street
Victoria, British Columbia
Canada
V8W 1R1
Telephone: (604) 381-1121
Telex: 049-7535

Manufacturer of self-powered radio beacons, 100 — 250 MHz range; and xenon flashers for use at sea, on land and in the polar regions for location, tracking recovery, search and rescue and warning applications. Available in full ocean depth rated pressure cases for locating surfacing oceanographic equipment.

Novatel Communications Ltd.

Western Canadian Place
700 — Ninth Avenue Southwest
Calgary, Alberta
Canada
T2P 3V4
Telephone: (403) 298-0444
Telex: 03-821264

Designer and manufacturer of mobile radiotelephone operating systems including controllers, switching and base station equipment, available on full turnkey or furnish-only basis for operation in either 400 MHz or 800 MHz bands; cellular mobile radiotelephones for use on 400 MHz, 800 MHz or 900 MHz cellular systems; IMTS mobile radiotelephones operating at 150 MHz.

Novatronics of Canada Ltd.

P.O. Box 610
677 Erie Street
Stratford, Ontario
Canada
N5A 6V6
Telephone: (519) 271-3880
Telex: 06-955394

Manufacturer of synchro motors; servomotors; digital mag wheels; custom engineered electromechanical devices; stepping motors; brushless dc motors. The company lends its expertise to manufacturers requiring assistance with small parts production equipment, small valves and hydraulic servo valves, metering pumps, robotic manipulators, medical equipment, electro-optical equipment, aerospace control systems, automated office equipment, computer systems, electromechanical displays, industrial workpiece-positioning devices, geophysical exploration equipment, farm implements, off-road vehicles, bearing housings and shafts, power and utility equipment, air and gas samplers.

Novax Industries Corporation

658 Derwent Way
New Westminster, British Columbia
Canada
V3M 5P8
Telephone: (604) 525-5644
Telex: 04-351152

Manufacturer of microcomputer based traffic signal controllers — pretimed, fixed time, semi- and fully actuated; two to eight phases plus four pedestrian phases, integral real time clock and time base coordination; nine timing plans, eight offsets per plan, three signal plans; control and timing parameters in RAM and EAROM; six preemption sequences for railway and emergency vehicles; integral software programmable CICU with selectable modes for international standards on 2- or 4-wire, half- or full-duplex.

OMVPE Technologies Inc.

4345, rue Poirier
Saint-Laurent, Quebec
Canada
H4R 2A4
Telephone: (514) 337-1711

Manufacturer of compound semiconductor epitaxial structures for microwave or opto-electronic applications; custom designed GaAs buffer, active layers and contact doped P and N type; III — V alloys.

Optech Systems Corp.

701 Petrolia Road
Downsview, Ontario
Canada
M3J 2N6
Telephone: (416) 661-5904
Telex: 06-217577

Manufacturer and distributor of the laser-based products developed by a sister company, Optech Inc., which specialises in the design and building of customized laser radar systems, using solid-state, injection and gas discharge lasers, including excimers. The company produces fully computerized systems, if required, and develops ruggedized laser systems for field use in vehicles and aircraft. The laser radar systems can be used for atmospheric diagnostics, pollution monitoring, water depth sounding, terrain profiling, wave height measurement and range finding. Company activities include custom electro-optical systems, consulting and design services, and research and development and engineering services. The company has completed testing of an airborne scanning laser bathymeter, that provides a means of surveying shallow coastal or inland waters from the air, and offers depth and position accuracy to International Hydrographic Organization standards.

Optikon Corporation Ltd.

410 Conestogo Road
Waterloo, Ontario
Canada
N2L 4E2
Telephone: (519) 885-2551
Telex: 069-55373

Manufacturer of optical benches and accessories; laser alignment systems; laser beam displacement monitors; automotive photometric systems; interferometers; optomechanical component design and manufacture; fibre optic positioners; vibration isolation systems for special NMR and other spectrometers.

Opto-Electronics Inc.

2538 Speers Road, Unit #9
Oakville, Ontario
Canada
L6L 5K9
Telephone: (416) 827-6214
Telex: 06-982392

Designer and manufacturer of a wide range of electro-optical devices and systems. The main areas of expertise are in fast optical sources and detectors; high-speed and signal-averaging electronics; and optical communications test instrumentation and optical data systems.

Optotek Ltd.

1283 Algoma Road
Ottawa, Ontario
Canada
K1B 3W7
Telephone: (613) 746-3100
Telex: 053-3524

Manufacturer of light-emitting diode displays and associated electronic systems for visual and photoexposure applications; gallium arsenide monolithic microwave integrated circuits for communications applications (frequency range 4-18 GHz); and infrared detector components and subsystems (wave length range 5-15 microns).

Orcatech Inc.

28 Steacie Drive
Kanata, Ontario
Canada
K2K 2A9
Telephone: (613) 592-7650
Telex: 053-3868

Designer and manufacturer of graphics workstations used in printed circuit board design, electrical and mechanical engineering and design applications. Turnkey CAD systems marketed include ORCADD, 2-D design; TRAX-PCB used in PCB design; a McAuto emulator; and a new, fully functional 3-D CAD system.

P.G. Electronics Ltd.

90 Signet Drive, Unit #19
Weston, Ontario
Canada
M9L 1T5
Telephone: (416) 741-7682
Telex: 065-27349

Manufacturer of ultra linear receiver multicouplers (antenna couplers) for military and commercial mobile radio systems.

Pachena Scientific & Industrial Electronics Inc.

1395 Boundary Road
Vancouver, British Columbia
Canada
V5K 4T9
Telephone: (604) 291-2025
Telex: 04-351183

Supplier of custom electronic assembly services. Designer and manufacturer of electronic training, mass transit information systems and digital displays — ELEC-trainer is a series of products and courses for the study of electricity, electronics, transistor fundamentals and digital logic; the automated transit vehicle information system (ATVIS) provides passenger count and vehicle location data; digital automated vehicle information display (DAVID) is an electronically-controlled destination, status and message sign.

Pacific Meter Inc.

P.O. Box 1011, Station A
6475 — 64 Street
Delta, British Columbia
Canada
V4M 3T2
Telephone: (604) 946-9620

Designer and manufacturer of non-invasive ultrasonic flowmeters, employing Doppler shift principle, for measuring the velocity of liquid flowing in a pipeline. Called the SONIC 1010, the flowmeter is furnished with receive and transmit transducers, with integral coax cables, that can be clamped to the outside of the pipe in order to measure liquid flow in the pipe without penetrating the pipe wall. Typical users include municipal authorities, as well as the chemical-plastic, pulp and paper, power and mining industries.

Pacific Microcircuits Ltd.

1645 — 140 Street
White Rock, British Columbia
Canada
V4A 4H1
Telephone: (604) 536-1886

Custom CMOS analog and digital IC circuit design, fabrication and test; support ICs for the Texas Instruments TMS320 family of digital signal processors; development boards for TMS320 interface development.

Palco Telecom Ltd.

7825 Flint Road South East
Calgary, Alberta
Canada
T2J 5X2
Telephone: (403) 255-4481

Manufacturer of electronic and plastics components for telecommunications terminal devices, and repair and service for telephone companies, retailers and end users; custom production of integrated circuitry and microprocessor-based products; plastic moulding capabilities for telephone housings, handles, caps, faceplates, windows, etc.

Payton Scientific Limited

120 Milner Avenue, Unit #9
Scarborough, Ontario
Canada
M1S 3R2
Telephone: (416) 298-9600

Manufacturer of medical products; platelet aggregation analyzers — electronic instruments to evaluate the function of blood platelets in the hemostatic process, including bioluminescence to measure ATP release and chemiluminescence to study phagocytosis; under development, FLAGG, a platelet aggregation analyzer that also measures platelet cytoplasmic ionized calcium. Forensic products include Visuprint and Portaprint systems for the development of latent fingerprints. Fuming chemical polymerizes and fixes otherwise in-

visible finger and palm prints; lumaprint specialized light source causes latent fingerprints to fluoresce naturally or with the aid of special dyes.

PC World Div. of Helix Circuits Inc.

250 Finchdene Square
Scarborough, Ontario
Canada
M1X 1A5
Telephone: (416) 299-4000

Manufacturer of printed circuit boards approved to MIL-P-55110 for both epoxy fiberglass and polyamide laminate. Also unapproved and approved to MIL-S-45743. Product types include high density multilayer (up to 22 layers); multilayer with buried vias; multilayer with external heatsinks (copper or aluminum); metal core (copper or aluminum) boards and Rigid-Flex multilayer; surface mount boards; dry-film solder mask; solder levelling; plasma etchback; vacuum lamination; micro-section and electrical test in-house capabilities. New equipment being set up with capability to manufacture boards with 3 MIP line and space.

Perle Systems Ltd.

360 Tapscott Road
Scarborough, Ontario
Canada
M1B 3C4
Telephone: (416) 299-4999
Telex: 065-26123

Specialists in the design, development, manufacture and service of data communications products and custom data communications systems. The Perle product range includes three standard protocol converters which interface non-IBM peripherals to IBM host computers and a fault tolerant front-end processor for electronic funds transfer transactions and automated teller machine and POS terminal device control and concentration.

Philips Electronics Ltd.

601 Milner Avenue
Scarborough, Ontario
Canada
M1B 1M8
Telephone: (416) 292-5161
Telex: 065-25100

Manufacturer of high-frequency glass-encapsulated piezoelectric quartz crystals for the communications market; custom designed electronic display units for use in office computers, terminals and word processors. Customers include IBM, Digital and other leading North American computer manufacturers. Also, assembles mobile radio units for use by governments and emergency services.

Phillips Cables Ltd.

100 Consilium Place, Suite 300
Scarborough, Ontario
Canada
M1H 3E3
Telephone: (416) 296-0250
Telex: 00636512

Manufacturer of communications wire and cable; submarine cable; low and high voltage power cable; overhead line (ACSR) conductors; downwell pump cable; copper rod; fibre optic cable.

Philtek Electronics Ltd.

2520 G. Simpson Road
Richmond, British Columbia
Canada
V6X 2P9
Telephone: (604) 270-4642
Telex: 04-357770

Manufacturer of uninterruptible power supplies (UPS) used to provide clean continuous power unaffected by faults present in normal utility power. By placing their UPS between the utility power and computer system or any computer-based system, such a system will operate more accurately and dependably without fear of power failures or power related problems of any kind.

Photovac Inc.

134 Doncaster Road, Unit #2
Thornhill, Ontario
Canada
L3T 1L3
Telephone: (416) 881-8225
Telex: 06-964634

Manufacturer of portable gas chromatometers for trace gas detection; mini handheld air analysers; and large installed multipoint analysers for factory surveillance of toxic air pollutants.

Picker International Canada Inc.

70 Bramalea Road
Brampton, Ontario
Canada
L6T 2W8
Telephone: (416) 791-3422
Telex: 06-97631

Manufacturer of diagnostic imaging systems, equipment and subsystems; single phase radiographic and fluoroscopies; X-ray generators; automated chest examination stance; automated general radiographic table; routine radiographic tables; mammography systems; Buckeys and cassette stand holders.

Pinpoint Retail Systems Inc.

P.O. Box 4029, Station A
2300 Yonge Street, 21st Floor
Toronto, Ontario
Canada
M5W 1K3
Telephone: (416) 968-5354

Manufacturer of a full range of electronic funds transfer at Point-of-Sale and retail store automation equipment including full function terminals with credit authorization, data capture, storage and forwarding capability. High level programmability and extensive expandability. Proprietary portable data capture device for PIN entry as well as for inventory and other entry.

Pirelli Cables Inc.

198 McGill College Avenue
Montreal, Quebec
Canada
H3A 2X6
Telephone: (514) 282-1540
Telex: 055-61392

Manufacturer of a wide range of copper conductor communication cables; loose-tube and tight-jacketed design fibre optic cables; copper conductor and fibre-optic cables can be supplied for aerial, direct buried, duct or on-site installation.

Planar Circuits — Electrohome Ltd.

25 — 27 Keefer Road
P.O. Box 2400, Station B
St. Catharines, Ontario
Canada
L2M 7M7
Telephone: (416) 937-2991

Manufacturer of double-sided plated-through-hole, and multi-layer printed circuit boards.

Polestar Communications Ltd.

P.O. Box 2280
Highway #2
Morinville, Alberta
Canada
T0G 1P0
Telephone: (403) 939-6577
Telex: 037-42509

Manufacturer of HF-SSB products (system design, installation and service); global positioning satellite receivers; and selective calling units for HF/VHF/UHF radios.

Polyply (Canada) Limited

284 Fairall Street
Ajax, Ontario
Canada
L1S 1R6
Telephone: (416) 683-1280

Manufacturer of unclad and copperclad epoxy glass laminates for use in electrical equipment and printed circuits; laminates have UL approval No. E-82624(M), MIL spec P-13949 and Northern Telecom approval. Types made are FR-4, FR-5, G-10, G-11 in rigid and multilayer versions. Laminates are made also to special thicknesses of up to 4½ in. — blue, black and natural; size 36 in. to 48 in. (only sheet size). Also manufactures polyester/glass reinforced rods for pole hardware; polyester glass reinforced sheets (GPO types).

Positron Industries Inc.

4810 Jean-Talon Street West
Montreal, Quebec
Canada
H4P 2N5
Telephone: (514) 731-3715
Telex: 05-825739

Designer and manufacturer of state-of-the-art telecommunications systems. Main product areas include trading turrets; answering positions; mobile radio and telephone/radio control consoles; alarm reporting; remote control and telemetry systems; 911 emergency call enhancement systems; power station wire-line communications protection systems.

Pra International Inc.

45 Meg Drive
London, Ontario
Canada
N6E 2V2
Telephone: (519) 686-2950
Telex: 064-7597

Manufacturer of fluorescence lifetime instruments; pulsed light sources including conventional xenon flask sources and nitrogen-pumped dye laser systems; continuous light sources for broadband illumination; long-life helium neon lasers; photon counting system for low-light level detection; and a multi-element simultaneous plasma spectrometer. Also manufactures power supplies, monochrometers, energy meters and flash photolysis, and performs contract research and development.

Precision Electronic Components Limited

19 Hafis Road
Toronto, Ontario
Canada
M6M 2V6
Telephone: (416) 249-7103
Telex: 06-969671

Manufacturer of hot moulded and cermet base potentiometers and trimmers. Product is of the highest quality QPL listed, and MIL-R-94 approved. Supplies to the following agencies and OEM: United States Defense (DCASR), AT&T, IBM (Toronto and Italy), Bendix Corp., Brunswick Defense Corp., Honeywell, Hughes Aircraft, etc.

Precision Photomask Inc.

4950 Fisher Street
Saint-Laurent, Quebec
Canada
H4T 1J6
Telephone: (514) 737-7030

Microelectronic and hybrid technologies photomasks, including artwork generation; photo reduction; step and repeat; working copies of emulsion, iron oxide and chrome glass plates; blow-backs and overlays can also be provided. Also creates complete artwork design of printed circuit boards, from customer's schematic drawings; outputting positive and/or negative photo plotted artwork of all required levels, i.e. interconnect (one to multilayer); solder masks; silkscreen, and others as required. Data can be supplied in drawing or computer tape forms; design rules checking can be performed on all artwork generated.

Presentey Engineering Products Limited

P.O. Box 919, R.R. 5
2784 Fenton Road
Gloucester, Ontario
Canada
K1G 3N3
Telephone: (613) 822-1251

Manufacturer of visibility and runway visual range systems; specialized voice recording reproducing equipment, ground and airborne; telephone-to-radio interface VOX; converter patch panels for secure handling of cryptocircuits; custom design of small dc brushless motors; repair and overhaul of airborne navaid equipment; pollution monitoring devices and custom design and manufacture of electronic equipment.

The company also offers telecommunications systems study, planning, tendering, and construction supervision; airport communications and navaid studies; and international market research.

Prime Mover Controls Inc.

3901 East Second Avenue
Burnaby, British Columbia
Canada
V5C 3W9
Telephone: (604) 294-6205
Telex: 04-354781

Manufacturer of engine-room and remote propulsion control systems; CP propeller controls with PID functions, automatic load control, maximum load selection and remote pitch indication; diesel engine/machinery monitoring and supervisory control; propulsion telegraph systems; solid state navigation light control panels with 24-hour monitoring; control station transfer systems with lever line-up options; complete ship control systems including integrated custom built consoles, fully wired, tested and documented. Full service facilities for all electronic products, including electronic engine governors.

Prior Data Sciences Ltd.

39 Robertson Road, Suite 232
Nepean, Ontario
Canada
K2H 8R2
Telephone: (613) 820-7235
Telex: 053-3356

Prior Data is a real-time software engineering company. Industrial control systems designed and implemented by the company include the Ontario Lakeview Generating Station system and the Ottawa Hydro supervisory control system. These are fully operational SCADA systems that include master stations, RTUs and sensors, colour displays and historical data retention.

Process Technology Limited

281 Restigouche Road
Oromocto, New Brunswick
Canada
EZV 2H2
Telephone: (506) 357-9821
Telex: 014-46274

Manufacturer of low-pressure chemical vapour deposition equipment for the semiconductor industry. This equipment is used in the fabrication of integrated circuits (microchips).

Promac Controls Inc.

1375 Morningside Avenue
Scarborough, Ontario
Canada
M1B 3C5
Telephone: (416) 284-8440
Telex: 065-25220

Manufacturer of data acquisition systems; data event loggers; temperature scanners; smart remote electronic controllers; telemetering systems; flow computing totalizers; signal transmitters; and portable instrument calibrators.

Pulsar Circuits Inc.

2500 South Service Road
Trans Canada Highway
Pointe-Claire, Quebec
Canada
H9R 1B1
Telephone: (514) 694-8875

Manufacturer of printed circuit boards — double-sided; multilayer; carbon boards; prototype; fast turnaround.

Pylon Electronic Development Company Ltd.

147 Colonnade Road
Nepean, Ontario
Canada
K2G 3Z2
Telephone: (613) 226-7920
Telex: 053-4961

Manufacturer of nuclear and electronic instrumentation—calibrated radon and thoron gas generators, alpha detection and contamination monitoring equipment; uninterruptible power systems, converters, inverters, ringing generators, transmit cases; telephony test equipment.

Pyrotronics Canada Limited

55 Idema Road
Markham, Ontario
Canada
L3R 1A9
Telephone: (416) 475-6966
Telex: 06-986592

Manufacturer and distributor of a wide range of fire alarm systems, monitoring systems for security and fire, fire extinguishing systems (HALON 1301) and security systems. Products include residential smoke alarms; smoke detectors; bells; horns; emergency voice alarm systems; manual stations; thermal detectors; multiplex XL-3 fire alarm systems with intelligent detectors; central station monitoring systems, etc.

Quality Circuits Manufacturing Ltd.

4478 Chesswood Drive,
Units #8-12
North York, Ontario
Canada
M3J 2B9
Telephone: (416) 635-0451
Telex: 06-218135

Manufacturer of printed circuit boards, including single-sided, double-sided, multi-layer and flexible circuits; UL and military approved. Also, designs and generates PCB artwork.

Quality Communication Products (1979) Ltd.

P.O. Box 1328
239 Mountain Street
Morden, Manitoba
Canada
R0G 1J0
Telephone: (204) 822-4431
Telex: 07-55205

Manufacturer of telephone loading coils and cable build-out networks; precision toroid coils; close tolerance wire-wound resistors and mylar film capacitors; voice frequency networks; wiring harnesses.

Questel Telecommunications Inc.

P.O. Box 1409
303 Ann Street
Almonte, Ontario
Canada
K0A 1A0
Telephone: (613) 256-3511
Telex: 053-4789

Manufacturer of telex terminals; OEM supplier to 3M Canada. Products include single port electronic telex terminals; large multipoint communications terminals (telex, DDD, PDN); data switches — 8-port and 32-port automatic electronic data switches for peripheral sharing; telex central office equipment — speech plus current loop/RS-232, RS-422 converters, telex test equipment; data security — software and hardware encrypters.

Quindar Products Ltd. Div. of QEI

106 Rayette Road
Concord, Ontario
Canada
L4K 1B6
Telephone: (416) 669-1272
Telex: 06-964574

Manufacturer of electronic equipment for remote control supervision and telemetry; multiplexing systems; data modems; communications amplifiers; and related equipment and accessories.

R.F. Mote Limited

214 Newkirk Road
Richmond Hill, Ontario
Canada
L4C 3G7
Telephone: (416) 880-6533

Manufacturer of an electronic work station, the K Bench, a multistation assembly bench, with its K leg design enabling unhampered leg movement, or the PCB Rail with a variable presentation angle. Mix and match modular components allow the end user to suit individual needs. All components are precision made, simplifying assembly. Construction of heavy gauge metal, coated in mar-resistant finish results in a long-lasting maintenance-free unit.

Racal-Decca Canada Inc. Insulators Division

71 Selby Road
Brampton, Ontario
Canada
L6W 1K5
Telephone: (416) 457-8720
Telex: 06-97699

Manufacturer of guy strain insulators; base insulators; mast/tower lighting isolation transformers; and static drain resistors for radio transmitting guyed masts and self-supporting towers.

Radionics Medical Inc.

1240 Ellesmere Road
Scarborough, Ontario
Canada
M1P 2X4
Telephone: (416) 292-6441
Telex: 065-25335

Manufacturer of diagnostic medical instruments. Proprietary products include an ultrasound biometer, with A-scan data display capability for ophthalmologists; and ultrasonic pachymeter system, with graphic printer, for measuring corneal thickness. Also, an OEM for U.S.-based Humphrey Instrument's ultrasonic biometer and ultrasonic pachometer.

Ramsey R.E.C. Ltd.

385 Enford Road
Richmond Hill, Ontario
Canada
L4C 3G2
Telephone: (416) 883-1881
Telex: 06-986722

Manufacturer of bulk material sampling equipment and controls, for use primarily in the mining sector; weighing equipment and process controls for any industrial application; nuclear instrumentation and non-contacting measuring devices to measure density, flow, moisture, etc.

Rantech Electronics Limited

230 Canarctic Drive
Downsview, Ontario
Canada
M3J 2P4
Telephone: (416) 661-9319
Telex: 06-217661

Manufacturer of supervisory control and data acquisition systems; computer-aided dispatch systems for mobile radio; dedicated line modems; voice plus data modems; surge withstand equipment to interface computer I/O in harsh environments.

Raytheon Canada Ltd.

400 Phillip Street
Waterloo, Ontario
Canada
N2J 4K6
Telephone: (519) 885-0110
Telex: 069-55431

Designer, developer, manufacturer and installer of complete air traffic control systems for military and civil use. The company is prime contractor to the Government of Canada for the radar modernization project — a multimillion dollar program to replace the national network of ATC radars with new totally solid-state equipment at more than 40 sites across Canada. Raytheon Canada will provide primary radars, displays and automation equipment.

RCA Inc.

22001 Dumberry Road
Vaudreuil, Quebec
Canada
J7V 7X3
Telephone: (514) 457-9000
Telex: 058-23646

Manufacturer of optoelectronic components and modules, including infrared emitting diodes; semiconductor injection lasers; PIN photodiodes; avalanche photodiodes; detector preamplifier modules; transmitters and receivers for the transmission and detection of radiation in the spectral range 400 nanometers to 1700 NMS. Devices can be supplied with integral optical fibres specifically for use in fibre optic communications.

Redicode Inc.

176 Queen Street West
Wellesley, Ontario
Canada
N0B 2T0
Telephone: (519) 656-2720

Designer and manufacturer of industrial quality audio tone signalling equipment used with radio communications systems; encoder microphones used by power utilities, oil and gas companies, railroads, police departments, telephone companies and government departments; microcomputer based versions with automatic identification of caller; ground to aircraft signalling for airlines; and specialized decoding units.

Redifacts Advanced Manufacturing Aids Ltd.

P.O. Box 70
R.R. 4
Pakenham, Ontario
Canada
K0A 2X0
Telephone: (613) 624-5278
Telex: 053-3945

Manufacturer of a factory data collection system designed to gather information from the manufacturing shop floor. The system consists of CADET factory terminals that are distributed to each workstation on the shop floor. These terminals are available in metal and plastic

versions and include an audio beeper, visual alert light, bar code slot reader, keypad and display. They are used to collect product information such as WIP, inventory and operator efficiency. Information is gathered from the CADETS by a central concentrator called FACTS 2000. This in turn sends information to the host computer in real-time.

Reliance Telecommunication Products Ltd.

122 Edward Street
St. Thomas, Ontario
Canada
N5P 1Z2
Telephone: (519) 631-0780
Telex: 064-73521
Twx: 610-356-6703

Manufacturer of power equipment for telecommunications industry, including battery chargers, rectifiers, power supplies, dc distribution systems; UPS/inverter systems, single-phase up to 10 kVA; power conversion equipment; telephone office testing, transmission and termination equipment.

Reltek Inc.

44 Steacie Drive
Kanata, Ontario
Canada
K2K 2A9
Telephone: (613) 592-2411

Manufacturer of data communications components and subsystems available for a variety of host systems, including DEC, VME and other major buses. These subsystems can be configured as multiplexers, protocol assembly disassembly (PAD) units or as protocol converters in an X.25, TCP/IP or other data communication system. Test and measuring equipment includes remote access test equipment for telephone company central offices that are usually custom designed for specific applications.

Renfrew Electric Co. Ltd.

1210 Birchmount Road
Scarborough, Ontario
Canada
M1P 2C3
Telephone: (416) 752-4611
Telex: 06-963527

Manufacturer of electro-mechanical relays; solid state timing devices; temperature control panels; barrier terminal blocks; wire wound resistors.

Reuter-Stokes Canada Ltd.

P.O. Box 970
465 Dobbie Drive
Cambridge, Ontario
Canada
N1R 5X9
Telephone: (519) 623-4880
Telex: 069-59327

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Manufacturer of self-powered neutron detectors, used in nuclear power plants as reactor in-core power range flux monitors. Mineral insulated cable is capable of functioning in hostile high-temperature corrosive environments, and is used in reactor cabling, enhanced oil recovery, process plants, aircraft industry, and other industrial instrumentation systems. Heat stress instrumentation measures environmental factors affecting human performance and comfort in the workplace, athletic training programs and in military applications.

Richard Brancker Research Ltd.

27 Monk Street
Ottawa, Ontario
Canada
K1S 3Y7
Telephone: (613) 233-1621
Telex: 053-4761

Manufacturer of plant productivity fluorometers used by universities and plant breeders in monitoring photosynthetic activity and by environmental groups in monitoring agricultural pollution; bore hole locator used by mining companies in locating pilot holes; touch sensitive circuit tester used in repair of battle-damaged aircraft.

RMS Industrial Controls Inc.

1100 Lansdowne Street
Port Coquitlam, British Columbia
Canada
V3B 5E2
Telephone: (604) 464-2315
Telex: 04-353612

Manufacturer of data and voice communications system for transportation; remote radio control system for unmanned submarines or submersibles; radio data modems; remote alarm monitoring systems; OEM radio module designs; remote alarm/security systems.

Rockwell International of Canada Ltd., Collins Canada Division

150 Bartley Drive
Toronto, Ontario
Canada
M4A 1C7
Telephone: (416) 757-1101
Telex: 06-963573

Manufacturer of telecommunications products consisting of a family of HF-80 radio equipment; a new general purpose VLF/LF/MF/HF receiver featuring digital signal processing; a miniature general purpose synthesized HF receiver; a lightweight HF packset for tactical communications; a lightweight airborne HF system

designed for the needs of the airborne tactical user; a new generation of automatic airborne direction finders and self-contained transportable HF communication shelters for optimum operation in tactical military environments.

Rockwell International of Canada Ltd., Wescom Canada Division

45 Sinclair Avenue
Georgetown, Ontario
Canada
L7G 4X4
Telephone: (416) 877-0191
Telex: 06-97777
Twx: 610-492-2646

Manufacturer of communication and transmission equipment, including VF interchange and subscriber conditioning equipment; microprocessor - controlled telephone systems including audio conferencing, dial access paging, base station telephone interfaces; digital carrier and multiplex equipment; subscriber interface equipment.

Roctest Ltd./Ltée

680, avenue Birch
Saint-Lambert, Quebec
Canada
J4P 2P4
Telephone: (514) 465-1113
Telex: 055-61134

Supplier of instrumentation and data acquisition systems for behaviour evaluation and in situ measurements in the geotechnical and structural fields. Products include pressuremeters; dilatometers; plate loading and shear test rigs; flat jacks; piezocones; vanes; permeameters; inflatable packers; extensometers; stressmeters; fissurometers; piezometers; core orientators; borehole deformation gauges; water level indicators; water samplers; and clinometers.

Rohde & Schwarz Canada Inc.

25D Northside Road
Nepean, Ontario
Canada
K2H 8S1
Telephone: (613) 829-3944
Telex: 053-3662

Manufacturer of radio direction finding systems for air traffic and military applications, frequencies from 2 - 1300 MHz, capability of D/F on frequency hopping communications equipment, fixed station or mobile systems.

Ross Video

P.O. Box 220
500 John Street
Iroquois, Ontario
Canada
K0E 1K0
Telephone: (613) 652-4886
Telex: 05-811579

Manufacturer of seven models of video production switchers for use by the TV broadcast and production industries.

Roy Ball Associates Ltd.

1750 Courtwood Crescent,
Suite 300
Ottawa, Ontario
Canada
K2C 2B5
Telephone: (613) 226-7890
Telex: 053-4712

A systems company experienced in image processing, signal processing, pattern recognition, data acquisition and control, and modelling and simulations. Microprocessor-based products include PMS 2000, data acquisition and analysis system used for monitoring performance and evaluating perimeter intrusion detection systems; FST 4000, fence system tester used in the installation and maintenance of fence protection systems; SPS 3000, signal processing system in an Intel multibus microprocessor-based system; and IMAVISION 1000, an IBM-based image analysis system.

Consulting services involve the engineering and evaluation of security systems for correctional institutions and high security facilities. Engineering and management consulting of security systems includes perimeter intrusion detection systems, fence, wall and ground base systems, video motion detection systems, and access control systems.

S.G. Smallwood Limited

699 Wabanaki Drive
Kitchener, Ontario
Canada
N2C 2G4
Telephone: (519) 894-2280

Manufacturer of a broad range of inductive components, including transformers; RF, TV and monitor coils; inductors, reactors and chokes; electromagnets; audio crossovers; and assemblies. The company also makes custom inductive components and specialty items.

Sander Geophysics Limited

303 Legget Drive
Kanata, Ontario
Canada
K2K 2B1
Telephone: (613) 592-1301
Telex: 053-4755

Manufacturer of airborne and ground geophysical instruments; proton procession magnetometers for airborne, ground, and ground station applications; airborne gamma ray spectrometers; airborne EM instruments; digital data acquisition systems; computer controlled analog recorders.

Consulting services include airborne geophysical surveys using fixed-wing and helicopter aircraft for mining and oil exploration; medium and high resolution magnetometer surveys; magnetic gradiometer surveys; gamma ray spectrometer surveys; electromagnetic surveys, including VLF-EM surveys; helicopter assisted gravity surveys; GPS surveys; depth calculations, and computer processing.

Saturn Disq Inc.

4800 Hickmore Avenue
Montreal, Quebec
Canada
H4T 1K2
Telephone: (514) 738-4880
Telex: 055-62171

Manufacturer of a complete line of high quality flexible diskettes in 3½ in., 5¼ in. and 8 in. configurations. The most recent product addition is the 5¼ in. high density 600 OERSTED A.T. media. A complete software reproduction and packaging service; private label packaging and formatting.

Scada Systems Inc.

44 Fasken Drive, Unit #14
Rexdale, Ontario
Canada
M9W 5M8
Telephone: (416) 674-0726
Telex: 06-986391

Manufacturer of turnkey chemical waste management systems, with appropriate consulting services, design and installation. Included are process control instrumentation (CAD, CAM, CAE); plating line hoist controllers; electrochemical recovery systems; monitors and controllers for pH, flow, conductivity, temperature, pH-PID, etc. These are based on a digital distributed approach and the waste treatment is designed on a resource recovery and recycling concept.

Consulting services include feasibility studies, plant design, LAN systems, and engineering. SCADA provides either the total systems package or any part thereof including stand-alone systems, monitors or controllers.

Sciex®

Div. of MDS Health Group

55 Glen Cameron Road
Thornhill, Ontario
Canada
L3T 1P2
Telephone: (416) 881-4646
Telex: 06-964722

Designer and manufacturer of mass spectrometer-based products for trace organic and inorganic analysis. The Sciex® product line includes the TAGA® 6000E MS/MS, a sequential quadrupole tandem mass spectrometer capable of instantaneously detecting and identifying a broad range of chemical compounds at trace levels in gases, solids and liquids, available in either a laboratory or fully mobile configuration; the ELAN® ICP/MS, and inductively coupled plasma mass spectrometer used for trace level elemental and isotopic analysis, that provides convenient and rapid multi-element isotopic dilution and ratios; the AROMIC™ cargo examination system, a vapour detector used in surveillance systems to detect and identify minimal quantities of commonly smuggled substances, such as explosives, drugs and alcohol.

Scintrex Ltd.

222 Snidercroft Road
Concord, Ontario
Canada
L4K 1B5
Telephone: (416) 669-2280
Telex: 06-964570

Manufacturer of scientific instruments for mineral exploration, including radiometric, electromagnetic, induced polarization, gravimetric, magnetic and resistivity devices for airborne, ground and borehole applications; radiation monitoring instruments for reactor, health physics and military uses; analytical instruments, including atomic absorption, laser induced fluorescence, gas chromatography and chemiluminescence; and security devices, including bomb sniffers, drug sniffers and ferrous detectors.

Seam Electronics Inc.

225 Nugget Avenue, Unit #1
Agincourt, Ontario
Canada
M1S 3L2
Telephone: (416) 292-6640

Manufacturer of CATV and broadcast distribution equipment, as well as encoding and decoding equipment for CATV and broadcast PAY-TV security.

Seastar Instruments Ltd.

2045 Mills Road
Sidney, British Columbia
Canada
V8L 3S1
Telephone: (604) 656-0891
Telex: 049-7526

Manufacturer of electronic water samplers; ultra-pure acids for a worldwide market; real-time data telemetry systems; acoustic release and acoustic telemetry systems; and laser diode power supplies.

Seakem Oceanography Ltd. (an associated company), provides oceanographic research and development, field surveys for measurement of waves, currents and tides, and data reduction for these services. Sophisticated marine chemical services are also available.

Securatest Mfg. Ltd.

62 Faversham Crescent
Eobicoke, Ontario
Canada
M9C 3X6
Telephone: (416) 621-8142

Manufacturer of hand-held continuity testers that can be used in live 300 and 600 VAC/VDC circuits. LED indicates continuity. High input impedance will not damage solid-state devices or sensitive relay contacts; will not magnetize transformer cores; and determine polarity of live dc circuits. Used by electrical utilities and industrial commissioning and maintenance personnel.

Securiplex Systems Inc. Member of SNC Group

210 Brunswick Boulevard
Pointe-Claire, Quebec
Canada
H9R 1A6
Telephone: (514) 697-8002
Telex: 05-821854

Designer and manufacturer of electronic fire and damage detection and control systems for marine, off-shore and industrial use.

Security Information Systems

306 Rutherford Road South
Brampton, Ontario
Canada
L6W 3K7
Telephone: (416) 451-2177
Telex: 06181141

Manufacturer of the IDENTIMAT Model 200 card reader; Model 2000 hand identifier; Model 2100 card encoder; and the line of IDENTIMAT 5000 series microcomputers.

SED Systems Inc.

P.O. Box 1464
2174 Airport Drive
Saskatoon, Saskatchewan
Canada
S7K 3P7
Telephone: (306) 244-2393
Telex: 074-2771
TWX: 610-731-1476

Manufacturer of two-way, voice-data satellite communications systems for Ku or C band; satellite TV receivers; microwave componentry; solid-state agricultural monitors; satellite earth stations, control centres, and test equipment; rocket payloads, space science instruments for upper atmospheric research; advanced systems and software design for communications, aerospace, defence and space sciences; meteorological systems; radar displays.

The company also offers engineering analysis, advanced systems and software design for communications, aerospace, defence, space sciences and meteorology; communications satellite earth station design and supply, rocket payload design and display.

Seimac Limited

1378 Bedford Highway
Bedford, Nova Scotia
Canada
B4A 1E2
Telephone: (902) 835-9686
Telex: 019-22888

Manufacturer of data loggers up to 400 megabytes for severe environments such as underwater; environmental data acquisition systems (oceanographic/meteorological); fuel meters for ships; data transfer systems (networks and data highways).

Consulting expertise in integrated shipboard systems including high speed data, voice and CATV; interfacing marine electronic systems and displays; instrument repair and calibration (oceanographic); energy efficiency; custom microprocessor and programming services.

Senstar Corporation

P.O. Box 13430
Kanata, Ontario
Canada
K2K 1X5
Telephone: (613) 839-5572
Telex: 053-3840
TWX: 613-839-5830

Specialists in the design, manufacture, sale and support of SENTRAX, a perimeter intrusion detection system. SENTRAX is a covert sensor that is used to detect humans crossing a perimeter boundary at high security sites such as military bases, VIP estates, nuclear facilities, etc. SENTRAX provides a high probability of detection and very low false and nuisance alarm rates. SENTRAX is used by clients with high security needs in North America and in many other countries around the world.

Senstek Ltd.

P.O. Box 340
Main Postal Terminal
Saskatoon, Saskatchewan
Canada
S7K 3L3
Telephone: (306) 374-3966

Manufacturer of electronic equipment related to the agricultural industry. The company is primarily involved in two areas: control and sensing equipment for farm machinery, that includes tillage depth control, combine header height control, shaft alarms, etc.; and equipment related to on-farm weighing, including electronic animal scales, truck axle scales and feed mixing wagon scales. Much of the weigh equipment is also used in commercial and industrial applications.

Sentrol Systems Ltd.

4401 Steeles Avenue West
North York, Ontario
Canada
M3N 2S4
Telephone: (416) 661-7000
Telex: 065-27161

Manufacturer of process control systems for the pulp and paper industry (including computer and microprocessor supported sensing equipment, control and management information systems); stand-alone measurement control systems for paper machines; mill-wide control systems for pulp and paper mills; coating weight thickness gauges for measurement and control of steel coating materials; battery paste measurement and control for lead acid battery manufacturing; supervisory control and data acquisition systems for pipeline control.

Brand names include Sentry, Sage, Sentry Sensors; Betameter, Inframike, Gigatel, Calital, Poly-sensor, Opacitel, Poly Ash, Formatel, Bactender's Friend, Alkali Analyzer.

Sepcor Engineering Inc.

3300 Montreal Road
Cornwall, Ontario
Canada
K6H 5T5
Telephone: (613) 938-8956

Manufacturer of industrial instruments — flow and level controls — including ultrasonic level monitors; open channel flow monitors; Doppler flow meters and switches; sight glass level controllers; and non-contact voltage detectors.

Shawflex Inc.

25 Bethridge Road
Rexdale, Ontario
Canada
M9W 1M7
Telephone: (416) 743-7111
Telex: 06-989435

Manufacturer of speciality wire and cable products for instrumentation applications; computer cable; instrument wire; nuclear certified instrumentation cables; thermocouple extension cables; and control cables. All cables available in un-armoured form or armoured with steel or aluminum interlock, served wire or bonded aluminum armours. Heat shrinkable tubing in flame retardant grades to military specifications.

Silonex Inc.

2150 Ward Street
Montreal, Quebec
Canada
H4M 1T7
Telephone: (514) 744-5507
TWX: 610-421-3362

Manufacturer of optoelectronic components — cadmium sulphide and/or cadmium selenide photoconductive cells available in hermetic or plastic encapsulated packages; LED/photocell modules; LAMP/photocell modules; photovoltaic cells; silicon photodiodes in chip, multi-element array, and packaged configurations. Design and prototyping of customized devices and sub-assemblies including emitter detector interruptor-type products.

Siltronics Ltd.

436 Hazeldean Road
Kanata, Ontario
Canada
K2L 1T9
Telephone: (613) 836-5003

Manufacturer of bipolar integrated circuits specializing in custom and special purpose applications, especially for computers, telecommunications, radio communications, military avionics. Manufacturer of radio pagers.

Sinclair Radio Laboratories Ltd.

85 Mary Street
Aurora, Ontario
Canada
L4G 3G9
Telephone: (416) 727-0165
Telex: 06-218789

Manufacturer of antennae for all frequencies, especially VHF and UHF; low intermod antennae specifically for multicoupling; DME (distance measuring equipment) antennae; filters and filter systems particularly for multicoupling with low intermod, bandpass, low and high pass band stop, etc; active receiver multicouplers; autotuned filters and antenna couplers; consulting services on all antenna and filter systems; measurement services for intermod products, filter characteristics, antenna patterns and impedances; transmitter combiners; isolators; circulators; diplexers/duplexers; Comshel communications shelters; clamps and mounting hardware.

Sonotek Ltd.

2410 Dunwin Drive, Unit #5
Mississauga, Ontario
Canada
L5L 1J9
Telephone: (416) 828-5620

Developer and manufacturer of industrial controls — digital indicators, process controllers and scanners; airborne instruments — data acquisition systems for geophysical surveys and aeromagnetic compensation systems; and meteorological instruments — anemometers and sun photometers.

Spar Aerospace Limited

6303 Airport Road, Suite 403
Mississauga, Ontario
Canada
L4V 1R8
Telephone: (416) 678-9750
Telex: 069-68923

Designer and manufacturer of space and communications hardware — complete satellite communication systems, including satellites, satellite subsystems and components, as well as earth stations, subsystems and components; remote manipulator systems (robotic arm) for U.S. space shuttle and for terrestrial applications, such as nuclear power reactors and mining; defense electronics — remote heat sensing technology for infrared surveillance; electro-optics design and development; aviation — gears and transmissions and repair and overhaul for fixed and rotary wing aircraft.

Spartech Manufacturing Ltd.

2860 — 12 Street Northeast
Calgary, Alberta
Canada
T2E 7P7
Telephone: (403) 250-5454
Telex: 03821775

Custom manufacturer of instrument control systems. The product line includes the design and manufacture of pneumatic, electrical and electronic control systems for all applications.

Sparton of Canada Ltd.

P.O. Box 5125
100 Elm Street
London, Ontario
Canada
N5Z 2K5
Telephone: (519) 455-6320
Telex: 064-5876

Manufacturer of active and passive sonobuoys; sonar transducers; sonar signal processors; custom power supplies, linear and switch-mode.

Spectrix Microsystems Inc.

431 Alden Road, Unit #10
Markham, Ontario
Canada
L3R 4N4
Telephone: (416) 474-1955
Telex: 06-986804

Manufacturer of the Spectrix multi-user microcomputer, featuring Motorola 68020 processor chip and UNIX/XENIX operating system. Features full office automation package (quadratron, multiplan, unify, informix), accounting (open systems) and full Wang 2200 compatibility. Also offers graphics, CAD/CAM, networking to IBM 3770/3270 and all related peripherals and supplies.

Sperry Inc. Aerospace and Marine Group

P.O. Box 1300
Highway 17
Rockland, Ontario
Canada
K0A 3A0
Telephone: (613) 446-6011
Telex: 053-4806

Designer and manufacturer of horizon reference systems, air traffic control equipment, time division multiplexers and computer-aided simulated training systems. Also provides logistic support, modification and repair and overhaul of airborne radar and all types of avionic systems including air data computers, flight directors and gyros. Offers additional product support for shipborne navigation radars, gyro compasses, Doppler speed logs, and steering control systems.

Spilsbury Communications Ltd.

120 East Cordova Street
Vancouver, British Columbia
Canada
V6A 1L1
Telephone: (604) 684-4131
Telex: 04-55482

Manufacturer of single side-band HF radio systems for voice and/or data transmission — base, mobile and portable configurations; VHF/UHF mobiles, portables all with microprocessors for complex systems; full duplex mobile telephones for IMTS, AMTS, secode smart and other automatic formats; radio beacon systems, and self-tuning efficient high frequency antennae; small alarm and supervisory control via radio; digitized voice systems and announcers for airline arrival/departure and other telephone answering applications requiring no mechanical drives.

SR Telecom Inc.

8150 Trans-Canada Highway
Saint Laurent, Quebec
Canada
H4S 1M5
Telephone: (514) 335-1210
Telex: 05-824919

Manufacturer of point-to-multipoint microwave telecommunications equipment in the 1.5, 1.8 and 2.4 GHz bands. Used to provide telephone and data service to rural areas as well as in urban areas; SCADA and telephone service for utilities, resource industries, offshore oil platforms, and for private networks.

Standby Electronics Corp.

3111 Woodchester Drive
Mississauga, Ontario
Canada
L5L 1J2
Telephone: (416) 828-6981
Telex: 06-960276

Manufacturer of inverters and standby power equipment for the cable TV, telephone and communications industries.

Stegg Limited

P.O. Box 1150
294 University Avenue
Belleville, Ontario
Canada
K8N 5E8
Telephone: (613) 966-4000

Manufacturer of electronic hardware including connector hardware sets; captive screws; shoulder screws; spacer standoffs/male, female, male-female; anti-rotation; swage shaping. Produces inserts, bushings, terminal, and custom turned products (screw machine) for the electronics, data processing, telecommunications, aerospace and other industries.

Sterling Circuits Inc.

3145 Sumner Avenue
Burnaby, British Columbia
Canada
V5G 3E3
Telephone: (604) 430-4222

Manufacturer of single- and double-sided printed circuit boards, with or without plated-through holes. All products fully meet IPC standards.

Sur-Guard Security Systems Ltd.

750 Lucerne Street
Mount Royal, Quebec
Canada
H3R 2H6
Telephone: (514) 735-2771
Telex: 05-826503

Manufacturer of control units, zoning systems, microprocessor-based digital dialers, microprocessor-based McCulloh transmitters, arming stations, motion detectors, anti-terrorist alert systems, and special intercoms.

Switchcom Manufacturing Inc.

100 — 10 Amber Street
Markham, Ontario
Canada
L3R 3A2
Telephone: (416) 475-0296
Telex: 06-986264

Manufacturer of a flexible and comprehensive line of data communications equipment and peripherals. Products include communications modems; data switching equipment; multiplex equipment; telephone switching equipment; and electronic mail.

Syprotec Inc.

88 Hymus Boulevard
Pointe-Claire, Quebec
Canada
H9R 1E4
Telephone: (514) 694-3637
Telex: 05-822699

Manufacturer of micro fuel cell sensors for periodic and continuous monitoring of transformers and other oil-filled electrical equipment for early warning of incipient faults, and to track trends and rate of change in fault gas generation, to monitor for dissolved hydrogen in water in primary and secondary cooling circuits of nuclear reactors and fossil powered, high pressure, steam boilers for indication of corrosion and hydrogen embrittlement, and monitoring of hydrogen in gas or liquid process streams; PCB test kit to determine PCB level in oil in the field or laboratory; RH monitor to measure moisture content in oil, periodic or continuous sampling measures the percentage saturation of water (i.e., RH); turbidity meter, a sample and analysis system to continuously monitor the quality of digester blow-off sodium aluminate liquor in an aluminum smelter.

Targa Electronics Systems Inc.

3101 Hawthorne Road
Ottawa, Ontario
Canada
K1G 3H9
Telephone: (613) 731-9941

Manufacturer of magnetic bubble-memory data storage systems; ruggedized bubble-memory cartridges with a range of capacities up to 1/2 a megabyte and user friendly interfaces for OEMs or end users; stand-alone bubble-memory data records for field, lab or industrial applications, also packaged for insertion into customer system on OEM basis, or as a direct replacement for floppy disk; interfaces available include serial and parallel interfaces, IEEE-488, RS-232, RS-422, IBM PC, Intel ISBX, and GRID; STD bus bubble-memory boards.

Taurus Computer Products Inc.

1755 Woodward Drive
Ottawa, Ontario
Canada
K2C 0P9
Telephone: (613) 226-5361
Telex: 0533577

Manufacturer of industrial data acquisition and control systems. Remote intelligent data acquisition systems connect to personal computer system to form factory automation networks.

Taylor Instrument

75 Tycos Drive
Toronto, Ontario
Canada
M6B 1W4
Telephone: (416) 787-1651
Telex: 06-969754

Manufacturer of electronic and pneumatic instruments for measurement of flow, pressure, level and temperature, and for the recording and control of measured variables; distributed micro-processor and computer-based control room systems.

Tech-Rep Electronics Ltd.

7115 Trans-Canada Highway
Saint-Laurent, Quebec
Canada
H4T 1A2
Telephone: (514) 337-6046
Telex: 05-824847
TWX: 610-4213157

Manufacturer of an electronic fuel control test set, a device that saves time, cuts manpower costs and reduces inventory of spares, designed for gas turbine engines fitted with electronic fuel controls; thick-film hybrids — complete facility to engineer, design and produce thick-film hybrids prototypes and production series with surface mounted components; and an environmental monitoring and supervisory control system, that applies to the intelligent building concept for full monitoring and supervision.

Techware Systems Corporation

2325 Burrard Street
Vancouver, British Columbia
Canada
V6J 3J2
Telephone: (604) 734-5294

Manufacturer of the PAL 68000 process automation system, a rack-mountable computer system with VME bus and a variety of analog and digital I/O cards for a multitude of automation applications; fully multitasking software allows user development of process recipes and control algorithms using English-like PAL language. Also manufactures the ABC automated battery cyler, constant current power modules of 1 A, 5 A, and 10 A size controlled by multitasking computer that allows creation of complex test recipes; automatic datalogging and plotting of data is also provided; software also provides for other than constant current cycling experiments.

Techwest Div. of Fleet Aerospace Corp.

3650 Wesbrook Mall
Vancouver, British Columbia
Canada
V6S 2L2
Telephone: (604) 224-1113
Telex: 04-507748

Manufacturer of mobile data acquisition and storage systems for transportation engineers; motion compensation cranes and winches systems for marine engineers; stabilized antenna systems for communication engineers.

Tecrad Inc.

775, avenue Saint-Jean Baptiste
Suite 105
Quebec, An-dienne-Lorette, Québec
Canada
G2E 5G5
Telephone: (418) 871-3505
Telex: 051-31679

Manufacturer of quality control equipment, including non-destructive testing apparatus using Eddy currents technology. These detect cracks, test hardness, etc., in different materials, providing instant, simple and precise video display or graphic readouts for error-free analysis. Other products under development will be introduced in early 1986.

Tectrol Inc.

39 Kodiak Crescent
Downsview, Ontario
Canada
M3J 2E5
Telephone: (416) 630-8108
Telex: 06-217645

Manufacturer of switching power supplies; inverters; dc-to-dc converters; and standby power supplies.

Teklogix Inc.

1331 Crestlawn Drive
Mississauga, Ontario
Canada
L4W 2P9
Telephone: (416) 625-5673
Telex: 06-960192

Manufacturer of radio linked terminal subsystems for material handling and other markets. Product line includes various vehicle mounted models and a portable hand-held unit; sortation control systems for industrial, commercial and postal applications; special digital design and manufacturing.

Tektron Equipment Corp.

230 Arvin Avenue
Stoney Creek, Ontario
Canada
L8E 2L8
Telephone: (416) 662-7820

Manufacturer of printed circuit boards — print and etch high volume, through hole plated, solder mask, top print prototype to high volume; electronic assemblies — timers; power supplies; inverters; microprocessor controls; memories, etc.; printed circuit board equipment — prototype to small volume production use (etcher, developer, double-sided exposure frame, through hole plating system, electro plating tin/lead system, gold plater/nickle plater, bases, fume hoods — all welded PVC construction).

Telemus Electronic Systems Inc.

310 Moodie Drive
Nepean, Ontario
Canada
K2H 8G3
Telephone: (613) 726-1102
Telex: 053-4981

Manufacturer of microwave down-convertors; PIN switches; phase shifters; microwave frequency halvers; microwave prescalars; microwave multipliers; instantaneous frequency measurement counters; digital radio frequency memories; coherent countermeasure systems; expendable jammers; electronic support measure receivers.

Téléystème National Ltée

438, avenue Papin
Sainte-Foy, Québec
Canada
G1P 3T9
Telephone: (418) 687-2031
Telex: 051-31755

Manufacturer of intercommunication devices; general calling devices for schools and duty calling devices for hospitals, through the company's Televox division. Also, manufactures an emergency security device to provide elderly people with protection and security. The metal division manufactures both standard and custom-built cabinets for various uses. The electronics division produces remote controls, that can control a travelling crane, for example.

Terrascience Systems Ltd.

1574 West Second Avenue
Vancouver, British Columbia
Canada
V6J 1H2
Telephone: (604) 734-3443
Telex: 04-54224

Manufacturer of microprocessor-based data acquisition and monitoring systems for remote and hostile environments; data logger systems for hydrology, meteorological and geotechnical applications, and water quality studies; signal conditioning instrumentation for strain gauges, stress analysis, and transducers; and microprocessor based monitoring and supervisor control systems.

Tervcon Ltd.

1145 Westport Crescent
Mississauga, Ontario
Canada
L5T 1E8
Telephone: (416) 671-0680
Telex: 06-968910

Manufacturer of electronic flame safeguard controls, scanners and systems used on oil/gas fired burners, boilers and furnaces.

THA Technical Industries Limited

285 Midwest Road
Scarborough, Ontario
Canada
M1P 3A6
Telephone: (416) 752-1911

Manufacturer of custom sheet metal structural components for the electronic industry, for example, enclosures, chassis, card cages, front panels, particularly telecommunications and computer parts.

Thalamus Electronics Inc.

3688 G Nashua Drive
Mississauga, Ontario
Canada
L4V 1M5
Telephone: (416) 677-1830
Telex: 06-968956

Manufacturer of T-1000 diagnostic test system — personal computer based auto test equipment for circuit board repair. Used in field service depots and manufacturing systems test; Testmate 3000 dynamic troubleshooter for low-volume PCB service centers; Interceptor functional performance tester for digital and analog circuit board manufacturers; Sensorprobe non-contact oscilloscope probe for testing coated military electronics.

Thermetic Controls Div. of The Canadian Corporate Management Co.

1270 Fewster Drive
Mississauga, Ontario
Canada
L4W 1A4
Telephone: (416) 625-1567

Manufacturer of electronic thermostats and power modules for baseboard heaters.

Thomson Technology Inc.

19214 — 94 Avenue
Surrey, British Columbia
Canada
V3T 4W2
Telephone: (604) 888-0110
Telex: 04-365634

Manufacturer of low and medium voltage electrical switchgear; automatic load transfer switches for emergency power systems; generator controls for prime power and standby applications, including commercial, industrial and marine types; electronic sensing devices for power system control, including voltage, current, frequency, etc.; automatic engine cranking and monitoring equipment; and battery charging equipment.

Thought Technology Ltd.

2180 Belgrave Avenue
Montreal, Quebec
Canada
H4A 2L8
Telephone: (514) 489-8251
Telex: 055-66458

Manufacturer of biofeedback equipment, including skin resistance, skin temperature, heartrate, blood volume pulse, electromyograph and respiration equipment, portable and affordable; interfaces that connect to the computer and to stereos and portable stereos; biofeedback behavioral management series applies biofeedback to quit smoking, sleep well, control weight, achieve mind over muscle athletic peak performance, provide stress management and relaxation.

TIAC Manufacturing Inc.

3080 Spring Street
Port Moody, British Columbia
Canada
V3H 1Z8
Telephone: (604) 461-1626
Telex: 04-352848

Manufacturer of communications equipment — 2.5 MBaud LAN, hubs and network coprocessor; scientific/engineering — 5 million instructions per second digital signal coprocessor, 10 MFLOP array processor for the PC; fault tolerant control systems — distributed fault tolerant control system, instruments, NAWS-Hull stress monitoring system; general — SBX adapter/memory expansion and dual serial channel SBX multimodule. The company also has a software driver which emulates the transport layer interface adopted by IBM for their PC-NETWORK. Using this driver, all applications designed to run on IBM's PC-NETWORK will run unmodified on TIAC's LAN, the PC-236.

TIL Systems Limited

60 Yonge Street, Suite 1100
Toronto, Ontario
Canada
M5E 1H5
Telephone: (416)-869-1157
Telex: 065-24114

Manufacturer of XPERT terminal — several terminals in one, capable of transmitting and receiving information from up to four separate sources at the same time, can be linked directly to private or public packet switched data networks (X.25), while simultaneously connecting directly to a local host; XPERT PC card — plug-in card for PCs enables users to communicate simultaneously with up to four different host computers or on-line services via X.25; XPERT PDX — an intelligent data communications processor that features high data throughput and efficiency, multiple protocol support and interface modules, load monitoring statistics, and symbolic descriptor capability for simplified communications.

Til-Tek Manufacturing Inc.

P.O. Box 550
500 Van Buren
Kemptville, Ontario
Canada
K0G 1J0
Telephone: (613) 258-2470

Manufacturer of UHF and VHF antennae; military band antennae; multicouplers; phased array antennae; filters; and HF high power transformers.

Time Terminals of Canada (1984) Inc.

296 Garry Street
Winnipeg, Manitoba
Canada
R3C 1H3
Telephone: (204) 947-9500

Manufacturer of the electronic time card, a network system of terminals that collect time and attendance plus costing data directly from the employee. This is a stand-alone data collection system run on an IBM PC/XT. Collected data are verified, edited and then integrated into a payroll and/or costing system.

TIW Systems Ltd.

4935 Kent Street
Niagara Falls, Ontario
Canada
L2H 1J6
Telephone: (416) 356-2413
Telex: 061-5201

The company designs, develops and fabricates all sizes of satellite communication antennae and associated electronic equipment. Antennae are in operation worldwide.

Topping Electronics Ltd.

1320 Ellesmere Road
Scarborough, Ontario
Canada
M1P 2X9
Telephone: (416) 291-7707

Manufacturer of the Model 170 microprocessor traffic signal controller, a solid-state, microprocessor-based controller unit designed for use in rugged environments such as in traffic control applications. It provides logic control for stoplights in rural locations and small communities without central computer control. Housed in a cabinet beside the intersection, the device gathers traffic flow information from detectors in the roadbed and regulates the signal accordingly, in effect, giving each intersection its own microcomputer. An attached keyboard permits re-programming on the site.

TPK Solar Systems Inc.

36 Bentley Avenue
Nepean, Ontario
Canada
K2E 6T8
Telephone: (613) 225-4403
Telex: 053-3930

Builders of turnkey production plants for the manufacture of solar cells and photovoltaic (PV) modules, including all technology and equipment. Automatic screen printers, solar cell testers, PV module laminators and testers; solar cells, PV modules, voltage regulators and other components for stand-alone solar power systems; solar powered airport beacons; photovoltaic systems design packages and complete systems; water purification and desalination systems.

Tracer 1 Ltd. Tracer Electronics Mfg. Co. Ltd.

7360 Montana Road
Richmond, British Columbia
Canada
V7C 4K3
Telephone: (604) 277-8894

Manufacturer of emergency locator transmitter (ELT), a transmitter installed in aircraft that is activated automatically on impact (crash) or can be activated manually, which transmits a signal on the distress frequencies to aid in rescue; and emergency position indicator radio beacon (EIRB), a transmitter used for marine distress, that can be automatically or manually activated and transmits a signal on the distress frequencies.

Trench Electric Div. of Guthrie Investments Canada Ltd.

71 Maybrook Drive
Scarborough, Ontario
Canada
M1V 2L5
Telephone: (416) 298-8108
Telex: 06-963749

Manufacturer of power and electronics products. Coil Products Division produces power air core reactors; air core shunt reactors; duresca busbar systems; Instrument Transformer Division produces high voltage and current transformers; Control Systems Division produces utility and industrial process control systems; programmable controllers; SCADA and real-time control systems.

Tribar Industries

3650 Weston Road
Weston, Ontario
Canada
M9L 1W2
Telephone: (416) 749-6000
Telex: 065-27182

Designer and manufacturer of law enforcement style, automotive speed measuring radar equipment. Available models are for handheld use, fixed vehicular application or police car-in-motion use. All units are lightweight and easily portable.

Trillium Telephone Systems Inc.

P.O. Box 13030
603 March Road
Kanata, Ontario
Canada
K2K 1X3
Telephone: (613) 592-2550
Telex: 053-4952

Designer and manufacturer of fully-featured, low-cost small electronic telephone systems (up to 32 telephones and 10 exchange lines). Products include one-exchange line nine-telephone (109); two-line eight-telephone (208); three-line, eight-telephone (308); six-line sixteen-telephone (616); ten-line, 32-telephone (1032) key systems; and telephones for use with PBX and Centrex telephone switches.

Triple Crown Electronics Inc.

4560 Fieldgate Drive
Mississauga, Ontario
Canada
L4W 3W6
Telephone: (416) 629-1111
Telex: 06960456

Manufacturer of cable television electronics, including head-end signal processors, TV modulators and satellite receivers for North American and European television systems; indoor and outdoor broadband RF distribution amplifiers; CATV standby and non-standby power supplies; low power broadcast transmitters; FM band audio and data modulators, demodulators and processors; two-way addressable systems.

TRW Canada Limited Carr Division, Appliance Product Group

P.O. Box 9900
484 Arvin Avenue
Stoney Creek, Ontario
Canada
LBG 3Y4
Telephone: (416) 664-4401
Telex: 61-8856
Cable: TRWSCRK

Manufacturer of major appliance (i.e. refrigerator) electronic control systems — highly reliable appliance control systems based on proprietary design concepts and customized with regard to features and packaging to suit customer specifications. The controls are micro-processor-based and include manufacturing and field service test ports and diagnostics. Custom manufacturing test equipment can also be supplied to interface with the control hardware and software.

Trylon Manufacturing Company Limited

P.O. Box 86
21 Howard Avenue
Elmira, Ontario
Canada
N3B 2Z6
Telephone: (519) 669-5421
Telex: 069-55282

Manufacturer of all types of communications structures including AM, FM, cablevision, microwave, cellular and turnkey operation for site, civilwork foundation/grounding and installation. Manufacturer of the Trylon ABC self-support tower for ham antenna, 2-way radio, TV rebroadcast lighting, instruments or signs; and the Trylon SAF-T-CABLE and SAF-T-RAIL ladder climbers safety devices.

Tycor Electronic Products Ltd.

6107 — 6 Street Southeast
Calgary, Alberta
Canada
T2H 1L9
Telephone: (403) 259-3200
Telex: 03-825842

Manufacturer of Tycor® AC power line filters, a unique series in-line design, which are compact, lightweight, attractive, maintenance-free, emitting no heat or acoustical noise during operation, and quite different from other available devices. The filters are designed to protect sensitive microprocessor based equipment against damage from power line disturbances, such as normal and common mode noise. Tycor® filters have been tested extensively by major organizations worldwide. The results of these lab and field tests prove conclusively that "Tycor® AC power line filters are the most effective device in the marketplace today". Available in single and multi-phase configuration and amperage from 1-100.

Ultra High Vacuum Instruments Ltd.

P.O. Box 1100, Station B
3027 Harvester Road, Suite 303
Burlington, Ontario
Canada
L7N 3G9
Telephone: (416) 681-2607
Telex: 061-8937

Specialists in the design and manufacture of precision vacuum equipment for vacuum and surface science applications, used by scientists in highly industrialized countries. World leader in sample introduction and processing systems for surface science applications; products leak tight to 2×10^{-10} Torr-L/second. Also manufactures complete vacuum systems and engineered to client specifications, including XYZ manipulators; sample introduction systems; fracture devices; long stroke bellow assemblies; heating and cooling probes; vacuum chambers and complete vacuum systems.

Ultra Lasertech Inc.

6415 Viscount Road
Mississauga, Ontario
Canada
L4V 1K8
Telephone: (416) 677-8091
Telex: 06-968592

Designer and manufacturer of low- and medium-power, continuous wave CO₂ lasers and laser system components. Applications include scientific research; optical communication; air pollution detection; material analysis; industrial process control; surgery; micro-welding; spectroscopy; cutting; drilling; artwork; printing; marking; trimming; and infrared excitation. Presently under development is a new family of laser-based instruments, the first of which is a trace gas analyzer for continuous real-time detection and measurement of infrared absorbing gases at concentrations down to one part per billion.

Uni-Tel Limited

1792 Birchmount Road
Scarborough, Ontario
Canada
M1P 2H7
Telephone: (416) 291-3131
Telex: 06-963523

Manufacturer of a full line of voice and data communications equipment including telemetry systems; remote control and alarm reporting equipment; FS modems; data repeaters; hot box carrier equipment; voice repeaters; voice orderwires (field telephones); annunciators; and microwave service channel equipment, available in pre-engineered packages for use by waste treatment facilities, power utilities and railroads.

Unitron Industries Ltd.

P.O. Box 9017
20 Beasley Drive
Kitchener, Ontario
Canada
N2G 4J3
Telephone: (519) 893-6800
Telex: 069-55209

Manufacturer of hearing aids, related accessories.

Valcom Ltd.

P.O. Box 603
175 Southgate Road
Guelph, Ontario
Canada
N1H 6L3
Telephone: (519) 824-3220
Telex: 06956593

Manufacturer of fibreglass whip antennae, free standing 35 feet to 80 feet (10.7 m to 24.4 m), 2 to 30 MHz, both military and commercial versions; auto tune couplers, 1 kW to 10 kW; power supplies; cable assemblies; amplifiers; UHF and VHF; antennae; splitter panels; electronic assembly work; VHF manpac radio modules, accessories and components. Professional services division provides consulting, engineering and technical services.

Valera Electronics Inc.

5370 Canotek Road
Gloucester, Ontario
Canada
K1U 8X7
Telephone: (613) 745-1257
Telex: 0534899

Manufacturer of a micro-computer, programmable thermostat for residential and commercial applications.

Vansco Electronics Ltd.

661 Century Street
Winnipeg, Manitoba
Canada
R3H 0L9
Telephone: (204) 775-8831

Designer and manufacturer of electronic controls and instruments for industrial, scientific and agricultural machines and heavy vehicles. Applies customer's name to the controls and instruments that become part of the customer's product. Has an experienced design team with extensive knowledge of user applications. Has development tools (hardware and software) for 8 bit, 16 bit and 32 bit microprocessors and local area networks.

Varian Canada Microwave Division

45 River Drive
Georgetown, Ontario
Canada
L7G 2J4
Telephone: (416) 877-0161
Telex: 069-7502
TWX: 610-492-2641

Manufacturer of specialized industrial high power (to 100 kW) and high voltage (to 300 kV) power supplies for lasers, X-ray generators, semiconductor processing equipment; microwave line-of-sight travelling wave tubes (TWT) and TWT amplifiers from 2 to 14 GHz and up to 25 W CW; power klystrons for military and commercial SatCom and Tropo communications systems from 2 to 14 GHz and up to 3 kW CW; reflex and millimeter reflex klystrons; extended interaction klystrons from 10 to 300 GHz, both CW (to 1 kW) and pulsed (to 3 kW); millimetre-wave TWTs (under development).

Vertigo Computer Imagery Inc.

221 — 119 West Pender Street
Vancouver, British Columbia
Canada
V6B 1S5
Telephone: (604) 682-0966

Manufacturer of real-time/interactive hardware and software, computer animation — VPRO 1000/2000 animation systems, paint-buffer boards, rendered accelerator boards, multibooster boards, software modules, valuator boxes; the "Wedge" interactive input device, real-time multitasking/multiprocessing operating system. Complete 3D computer imaging capability; product development; customer support.

Vickers Instruments (Canada) Inc.

2930 Baseline Road
Nepean, Ontario
Canada
K2H 7B7
Telephone: (613) 820-9437
Telex: 0533189

Manufacturer of scanning electron microscopes for the non-destructive testing of microcircuits; diagnostic line-width measurements specific to semiconductors.

Videoway

1010 Sherbrooke Street West,
Suite 2300
Montreal, Quebec
Canada
H3A 2R7
Telephone: (514) 285-5700
Telex: 055-60400

Designer and manufacturer of an integrated home communications system distributed through CATV networks. Videoway has developed a new set-up home interface unit (HIU) that combines the capabilities of a high security addressable CATV converter and a one-way videotex terminal. Offers complete turnkey systems and a facility management option in addition to the addressable set-up units.

Viewscan Ltd.

66 Drumlin Circle Unit: #5
Concord, Ontario
Canada
L4K 2T9
Telephone: (416) 669-5242
Telex: 06-964575

Manufacturer of thermal infrared imaging system components; bubble memory recording system; thermal image processing software for IBM PC/XT/AT computers; servicing of infrared imaging systems; research and development consulting in infrared thermography.

Viscount Industries Limited

105 East 69th Avenue
Vancouver, British Columbia
Canada
V5X 2W9
Telephone: (604) 327-9446
Telex: 04-508605

Manufacturer of door entrance control and communications systems (Enterprise*); telephone industry related test equipment such as subscriber line testers, card testers, call simulators, single-line test call monitors, test call monitors, board-to-board testers.

Volker-Craig Ltd.

330 Weber Street North
Waterloo, Ontario
Canada
N2J 3H6
Telephone: (519) 884-9300

Manufacturer of data display computer terminals — ASCII, ANSI, DEC compatibles: VC4604 ASCII; VC5000 ASCII multi emulator compatible with Televideo, ESPRIT, DEC, Lear Siegler, ADDS; VC4604GX/VC5000-GX, Tektronix-compatible graphics terminals; VC5220, DEC VT220/100 compatible terminal with private Volker-Craig features; VC5000/PC terminal compatible with IBM PC XT/AT multiuser systems.

Vortek Industries Ltd.

1820 Pandora Street
Vancouver, British Columbia
Canada
V5L 1M5
Telephone: (604) 251-2451
Telex: 04-352848

Manufacturer of high power ARC lamp systems and optical assemblies for industrial and scientific radiant heating. Products include ARC lamps with input powers up to 300 kW; liquid-cooled optical reflectors; gas recirculators; and large-area solar simulators.

W. Sodin (Gravity) Ltd.

211 Hendon Avenue
Willowdale, Ontario
Canada
M2M 1A9
Telephone: (416) 225-4513
Cable: SODINST-TORONTO

Manufacturer of lightweight rugged quartz element gravity meters for mineral and oil exploration or scientific investigation in standard geodetic and thermostatic controlled models.

W.C. Pursley Limited

3151 Lenworth Drive
Mississauga, Ontario
Canada
L4X 2G7
Telephone: (416) 625-2222
Telex: 06-961228

Manufacturer of JIC/NEMA industrial cabinetry and duct; high voltage disconnect switches and related products, fuse links, in-line fuses; high intensity discharge industrial and area lighting fixtures; cable support systems (straight length strut) channel and components, spring nuts, etc.; raceway systems including commercial office utility poles.

W.R. Davis Engineering Ltd.

1260 Old Innes Road
Ottawa, Ontario
Canada
K1B 3V3
Telephone: (613) 748-5500
Telex: 053-3862

Manufacturer of wave generators — for hydraulics laboratories, single, multi-mode and segmented (serpentine) generators, servo-controllers and wave synthesis equipment; automotive test equipment — certification safety and fuel research equipment and turnkey facilities; infrared suppression systems for exhaust gas management in military applications.

Ward-Beck Systems Ltd.

841 Progress Avenue
Scarborough, Ontario
Canada
M1H 2X4
Telephone: (416) 438-6550
Telex: 065-25399

Manufacturer of professional audio mixing consoles, as used by the television, radio, and film industries; television plant type communications systems, under both manual and microprocessor control; audio distribution amplifiers; monitor amplifiers; audio test meters; audio routing switchers.

Westbay Instruments Ltd.

507 East Third Street
North Vancouver, British Columbia
Canada
V7L 1G4
Telephone: (604) 984-4215
Telex: 04-352606

Manufacturer of modular groundwater instrumentation systems for taking fluid pressure measurements and fluid or gas samples from drillholes; components include plastic or stainless steel casing, couplings and measurement ports, packers for sealing off measurement zones, and portable probes and tools. Electric probes incorporate transducers and digital readouts with computer interface. Systems used for groundwater monitoring at nuclear waste and industrial waste facilities and for geotechnical monitoring at construction sites. Westbay's MP System permits an unlimited number of groundwater monitoring zones to be placed in a single small diameter drillhole; installations have varied in depth from 50 to 4000 feet.

monitoring systems ranging from individual stations to integrated multi-station networks. The process instrumentation group designs and manufactures a family of sulphur species analyzer systems for process control and emission monitoring applications.

Western Scale Co. Limited

1670 Kingsway Avenue
Port Coquitlam, British Columbia
Canada
V3C 3Y9
Telephone: (604) 941-3474
Telex: 04-353539
Cable: WESCALCO

Manufacturer of digital weight indicators; intelligent programmable ticket and tape printers; micro-processor based conveyor scales and rate feeders; fully electronic truck weight scales; custom control panels; fully electronic low profile platform scales; LED scoreboards; automatic drum and pail filling systems; overhead track scales.

Western Geophysical Company of Canada Ltd.

P.O. Box 5250, Station A
Calgary, Alberta
Canada
T2H 1X6
Telephone: (403) 291-8100

Manufacturer and designer of geophysical equipment for domestic and foreign use, including all-terrain vibrator vehicles. Also provides consulting services to foreign governments and oil companies concerning geophysical techniques and design of electronic equipment for seismic exploration.

Manufacturer of Westhead PDM 800 — plant monitoring and control system with colour graphics and software performance packages (alarm, trend, reports, calculations, on-line configuration and simultaneous communications) allowing continual update on plant operating conditions and performance; and of the Westhead Machine Monitor a scaled-down version of PDM 800, used for monitoring factory floor machines in large industrial/manufacturing complexes.

Westhead Industrial Systems Corp.

358 Humbertine Drive
Rexdale, Ontario
Canada
M9W 6B1
Telephone: (416) 675-1662
Telex: 06-989450

Western Research Division of Bow Valley Resource Services Ltd.

1313 — 44 Avenue Northeast
Calgary, Alberta
Canada
T2E 6L5
Telephone: (403) 291-1313
Telex: 03-827569

Supplier of high quality process and monitoring instrumentation and environmental consulting and engineering services in the sour gas processing and sulphur recovery industries.

Environmental engineering services include site selection; environmental impact assessment; acoustics; process testing and design evaluation; incineration technology; applied research on special problems; laboratory analyses and source emission compliance testing. Air quality management services include meteorological services and

Westinghouse Canada Inc.

P.O. Box 510
120 King West, 6th Floor
Hamilton, Ontario
Canada
L0R 2A0
Telephone: (416) 528-8811

Manufacturer of data communications computer terminals and message (telex) terminals; Linatrol, an optical line tracing machine control system; airfield lighting regulators; anti-submarine warfare (ASW) sonar systems.

Westronic Inc.

4525 Manilla Road Southeast
Calgary, Alberta
Canada
T2G 4B6
Telephone: (403) 243-3335
Telex: 03-824894

Manufacturer of remote sensing units for supervisory control and data acquisition systems — remote terminal units; sequence of events recorders; data logging system.

Willowglen Systems Ltd.

1 — 1235 — 64 Avenue Southeast
 Calgary, Alberta
 Canada
 T2H 2J7
 Telephone: (403) 253-3051
 Telex: 03-825630

Designer and manufacturer of supervisory control and data acquisition systems for oil and gas production and pipeline distribution, electrical utility generation transmission and distribution, water treatment plants, pumping stations and pipelines, communications system control and monitoring, transportation systems control and monitoring, and building management systems.

Wodex Technology Incorporated

95 Glen Cameron Road
 Thornhill, Ontario
 Canada
 L3T 1N8
 Telephone: (416) 889-4750
 Telex: 06-964507

Manufacturer of current and voltage transducers; expanded scale voltage transducers; Watt, Var & Q transducers; combined Watt/Var & Watt/Q transducers; Watt/Watt-hour, Var/Var-hour and Q-Q-hour transducers; power factor and phase angle transducers; frequency transducers; dc voltage transducer and ground fault detector; dc voltage transducer; ground fault detector; RTD slide-wire transducer; Fisher Pierce line post sensor transducer and fault alarm; pulse metering to analog converter; thermocouple transmitter; service entrance module; surge arrestor and line filter; telephone and line isolator/test facility; 24 and 48 V telecommunication power filter/regulators; 3½ digit panel meters; breaker control module; timers; integrator; 4½ digit panel meters.

Xantrex Technology Inc.

357 Lynn Avenue
 North Vancouver, British Columbia
 Canada
 V7J 2C4
 Telephone: (604) 984-4268
 Telex: 04-55462

Manufacturer of benchtop laboratory power supplies and custom designed power supplies. Low to medium power, precision regulation, digital read-out is a specialty.

Zavitz Technology Inc.

104 Nordic Avenue
 Pointe-Claire, Quebec
 Canada
 H9R 3Y2
 Telephone: (514) 694-4696

Manufacturer of round, flat and coaxial cable assemblies and harnesses; printed circuit boards, power supplies, control devices with applicable digital technology; PC add-on cards — SCANGRAF and COLORGRAF.

Consulting

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and Technical Services

Manufacturers listed in the previous section provide services such as custom design engineering, training or installation of equipment and systems specified in their profile.

This section includes some Canadian firms offering specialized electronics-related consulting, technical and professional services. It represents only a sample of the Canadian expertise that is currently available.

Canadian trade offices will be pleased to assist the reader in sourcing and introducing other Canadian talents, including those offered by our major consulting firms, which are among the largest in the world.

Canadian telecommunications and computer related consulting services, including software systems, are not covered in this brochure but in other Department of External Affairs publications entitled Telecommunication Products for World Markets and Computing Products for World Markets.

ADGA Systems International Ltd.

116 Albert Street, Suite 400
Ottawa, Ontario
Canada
K1P 5G3
Telephone: (613) 237-3022
Telex: 053-4568
Cable: ADGAOTT

The ADGA Group offers a wide range of professional engineering and technical services in consulting, design, installation and operations and maintenance of technical facilities (security, LORAN-C, aircraft electronics). Provides services overseas in communications, navigation aids, air traffic control, satellite system, marine vessel traffic control and systems engineering. Additional comprehensive services are available through associates and affiliated consultants.

Aprél Inc.

38 Antares Drive
Nepean, Ontario
Canada
K2E 7Z2
Telephone: (613) 727-0334

Research and development lab in the field of telecommunications and electroacoustics. Performs testing to Canadian and international standards. Is accredited by Department of Communications and Federal Communications Commission (U.S.). Provides modification of client equipment for compliance to standards, also, product verification and evaluation to client standards as an independent lab.

Atlantis Scientific Systems Group Inc.

984 Wellington Street
Ottawa, Ontario
Canada
K1Y 2X8
Telephone: (613) 729-2314

Provides software and systems integration services for clients requiring IBM PC/XT/AT compatible process control and/or data acquisition. Typical applications include pilot plant control and laboratory test equipment control.

Atomic Energy of Canada Limited Research Company

275 Slater Street
Ottawa, Ontario
Canada
K1A 1E5
Telephone: (613) 236-6444
Telex: 053-4867
TWX: 610-563-9499

Offers specialized research and consulting in areas of industrial reliability; risk and hazard analysis; high reliability system design including electronic safety systems, process simulation and multi-variable and optimal control. In addition, designs custom instrumentation for applications in non-destructive testing; industrial computer tomography; densitometry; nuclear measurements; and geochemical and geophysical research and exploration. Wide scope laboratories include comprehensive CAD and hybrid microcircuit prototyping facilities.

Bondar-Clegg Ltd.

5420 Canotek Road
Ottawa, Ontario
Canada
K1J 8X5
Telephone: (613) 749-2220
Telex: 053-3233

Offers analytic services; all phases of consulting related to geological and geochemical exploration; environmental and related analysis and consulting services.

CAD/CAM Graphics (1974) Limited

700 Industrial Avenue
Ottawa, Ontario
Canada
K1G 0Y9
Telephone: (613) 526-0620

Service bureau using a RACAL-REDAC computer aided design system to generate printed, hybrid and integrated circuit artwork; provides design, digitizing, photoplotting, master film and contracts and N/C tapes, prototype PCBs, and complete drafting and documentation services. Facilities include a Gerber 32 photoplotter and a Kodak 324 automatic processor.

Canadian Laser Systems Inc.

Beaver Creek Industrial Park
Richmond Hill, Ontario
Canada
Telephone: (416) 497-4541

New research complex specializing in electro-optical systems in the fields of telecommunications, holography, medical and avionics. Equipment in the complex includes: Cyber 205 supercomputer; two holographic labs with 15 ft x 16 ft table and 10 ft x 12 ft table.

Canadian Standards Association (CSA)

178 Rexdale Boulevard
Rexdale, Ontario
Canada
M9W 1R3
Telephone: (416) 747-4000
Telex: 06-989344

The Canadian Standards Association offers a number of programs to help Canadian exporters meet the standard requirements often stipulated by their customers. CSA certification of products to CSA standards of safety and performance can often assist in meeting requirements of export customers. Reciprocal agreements for testing in Canada by the CSA of Canadian-made products to the national certification requirements of the customers can avoid the need to ship test samples overseas, saving time and money and increasing customer acceptance.

Factory inspections by the CSA to maintain certification to foreign standards can also save time, costs and communication problems involved in inspections by overseas inspectors. The CSA performs certification testing in Canada of designated products on behalf of the British Standards Institute and the Japan Electrical Testing Laboratory, and conducts factory inspections on behalf of a number of overseas testing and certification bodies.

Canpolar Consultants Ltd.

421 Eglinton Avenue West, Suite 4
Toronto, Ontario
Canada
M5N 1A4
Telephone: (416) 487-1581
Telex: 06-218813

Technical consulting, demand innovation and product development, particularly related to sensor technologies for industrial applications. Involved in the development of ice surveillance systems, fish and meat quality sensors, fish detection devices. Experience includes physics, biology and biochemistry, instrument design, Arctic field experimentation, remote sensing, data integration and multi-disciplinary project management.

David E. Close & Associates

Route 3
22 Edgewood Road
Bath, Ontario
Canada
K0H 1G0
Telephone: (613) 389-7601

Consulting in CAD/CAM and CIM technology with focus on integrating product design, development, and manufacturing processes. Specialists in strategic technology planning; management and organizational issues; requirements and system selection; financial justification; implementation; education and staff development; and improving existing systems.

G. Levett & Associates

2036 Woodglen Crescent
Gloucester, Ontario
Canada
K1J 6G4
Telephone: (613) 749-2930

Provides consulting engineering services in the electronics and physical security fields. The company is familiar with currently available intrusion detection sensors, and closed circuit television surveillance equipment. Competent in the areas of security surveys and conceptual design; requirements definition; preparation of specifications and pre-contractual documentation; equipment evaluation; contractor selection; supervision and quality control of installations; acceptance testing; operational and technical training; commissioning; and maintenance. Company personnel have recent experience with installations of high-value integrated perimeter intrusion detection systems in correctional facilities, and plan to expand into industrial and military markets.

Goss, Gilroy & Associates Ltd.

124 O'Connor Street, Suite 601
Ottawa, Ontario
Canada
K1P 5M9
Telephone: (613) 230-5577

A diversified management consulting firm specializing in advanced technology, with emphasis on telecommunications and electronics. The firm is built upon a solid foundation of skills in such disciplines as marketing, engineering, finance and management science. Comprehensive experience gained through numerous consulting assignments in Canada and other countries has created a uniquely balanced perspective in assisting business, investors and governments in assessing opportunities and products, and putting in place the most appropriate implementation plans.

HN Engineering Inc.

4664 Lougheed Highway
Burnaby, British Columbia
Canada
V5C 5R7
Telephone: (604) 294-3401
Telex: 043-54623

Specializing in telecommunications systems engineering transmission — HF, VHF, UHF, microwave and fibre optics; telephony systems — PABX, LANs, central office equipment; broadcast equipment — AM, FM, TV, CATV and studio transmitter links. Provides specialized communications systems design for CCTV networks; vessel traffic management systems (radar and telecommunications); electromagnetic interference studies; SCADA systems; underground communications for tunnels and rapid transit, etc. Also, carries out economic studies, budgetary estimates and assists with regulatory matters; undertakes field surveys, specifications, evaluation of tenders, recommendations of suppliers, negotiation and award of contracts. The company monitors and supervises projects from initial feasibility study to successful completion.

Infomart

164 Merton Street
Toronto, Ontario
Canada
M5S 3A8
Telephone: (416) 489-6640
Telex: 06-22111

Consultant and turnkey supplier of videotex services and systems. Complete project management services for videotex systems include: videotex system software installation and application software development; configuration, selection and installation management of host computer equipment; selection and installation of public terminals; design and installation of public terminals; design and installation of networks; training of client management personnel in the operation of videotex systems. Primary products are ITSS videotex system software; Grassroots, the agribusiness information service; Teleguide, the public access travel and tourism service; and the VANILLA decoder, NAPLPS software decoder for the IBM PC.

Intelcan Technosystems Inc.

130 Albert street, Suite 1600
Ottawa, Ontario
Canada
K1P 5G4
Telephone: (613) 234-2491
Telex: 053-3833

Exports turnkey systems for civil aviation and telecommunication end users. Examples are: air traffic control, flight information systems, navigational aids packages, airport passenger and cargo terminals, telecommunication transmission networks from 2-14,000 MHz, voice-data-message switching systems, security systems for airports and other users based on audio/video/X-ray detection, meteorological systems for airports or nationwide; ac/dc power systems based on gas, diesel, solar or hybrid generation; power substations, distribution and SCADA; rural radio telephone systems; hospital laboratory instruments and equipment; aircraft nav aids.

International Geosystems Corporation

605 — 1200 West Pender Street
Vancouver, British Columbia
Canada
V6E 2S9
Telephone: (604) 669-5626
Telex: 04-55155

Offers computer software and services for mineral exploration, mine development and geotechnical investigations to clients in North and South America, Australia, Papua-New Guinea, Malaysia, Philippines, Indonesia, and China.

Kenonic Controls Ltd.

3667 — 60 Avenue Southeast
Calgary, Alberta
Canada
T2C 2E5
Telephone: (403) 279-2730
Telex: 03-821220

Engineering company specializing in industrial controls and automation for electric utilities, water utilities, oil and gas, and petrochemical industries. Three major areas of service are consulting engineering, project management and contracting; field services; engineering software for PCs. Engineering expertise includes SCADA systems for pipelines and electric utilities; process control systems; instrumentation; electrical design; communications; measurement; and advanced real-time computing applications. Field services include instrument, electrical and control system start-up; construction management; and contract maintenance. PC software includes ISA-endorsed valve sizing, instrument index, and floor element sizing.

Lapp-Hancock Associates Limited

280 Albert Street, Suite 904
Ottawa, Ontario
Canada
K1P 5G8
Telephone: (613) 238-2483
Telex: 053-3576

Telecommunications and broadcasting consulting services specializing in space communications policy, feasibility, and marketing studies, together with systems engineering activities. Currently active in the U.S. and Europe with worldwide capability.

Moniteq Ltd.

630 Rivermede Road
Concord, Ontario
Canada
L4K 2H7
Telephone: (416) 669-5334
Telex: 06-964776

Systems engineering and contract services in the field of remote sensing include the development of air-borne and ground based electro-optical instrumentation for the acquisition of remotely sensed digital image data; systems integration with ground processing and image analysis equipment. Applications and algorithm development to evaluate and interpret this imagery as digital maps, water depth maps and thematic classification maps.

Multilek Inc.

107 Colonnade Road
Nepean, Ontario
Canada
Telephone: (613) 226-2365
Telex: 053-4585

Designs and assembles customized electronic subsystems or complete turnkey systems. The company has exported from specialized custom industrial control turnkey systems, telecommunication systems, telephone exchange monitoring systems to customized computer chassis and printed circuit boards. Provides customers with software or hardware design, system integration or total custom turnkey system design and manufacturing.

Navtel Telecommunication International Inc.

P.O. Box 485
Montreal International Airport
Dorval, Quebec
Canada
H4Y 1B3
Telephone: (514) 631-1040
Telex: 05-822840

Provides turnkey systems of radio aids to air navigation and of communications equipment.

Nortech Surveys (Canada) Inc.

309 — 2 Avenue Southwest
Floor 2
Calgary, Alberta
Canada
T2P 0C5
Telephone: (403) 262-0800
Telex: 03-827893

A surveying and positioning company providing high technology services to the oil and gas, engineering and government sectors. Prime areas of expertise include Doppler and inertial surveys, laser profiling, marine positioning and GPS surveys. Operates six offices worldwide.

Ontario Research Foundation

Sheridan Park
2395 Speakman Drive
Mississauga, Ontario
Canada
L5K 1B3
Telephone: (416) 822-4111
Telex: 06-982311

Specialist in microelectronics development — offers custom and semicustom microcomputer and microprocessor development capability including hardware, software and systems design; instrumentation — design and development of electronic, microprocessor and microcomputer instrumentation for a variety of uses; capabilities include system circuit and logic design, sensor selection, programming and fabrication at both the board and total system levels; sensor development — development, selection and system integration of various forms on non-contact sensing using optical and electronic systems; electronic ceramics — expertise and facilities in materials processing characterization, fabrication and property evaluation of ceramics and ceramic matrix composites for a wide range of electrical and electronic applications.

Polytronics Engineering Ltd.

5200 Dixie Road, Unit #16
Mississauga, Ontario
Canada
L4W 1E4
Telephone: (416) 625-1743
Telex: 06961272

Specialist in research, development and design of laboratories and test stands for teaching and scientific research applications, offers modern means for technical education in electronics and electrical engineering, physics, mechanics and other fields. The company also conducts evaluation of prototypes to ensure that its laboratories are in line with the latest technology.

QRL Analysis Corporation

19 Grenfell Crescent, Suite 100
Nepean, Ontario
Canada
K2G 0G3
Telephone: (613) 226-1885
Telex: 053-3889

Carries out electronic component reliability analysis; quality assurance; construction analysis; destructive physical analysis; failure analysis testing; materials analysis using scanning electron microscopy and X-ray microanalysis; metallurgy.

Consulting services include reliability; quality assurance; specifications; procurement of electronic components.

Teknica Resource Development Ltd.

736 — 6 Avenue Southwest
Suite 1100
Calgary, Alberta
Canada
T2P 3T7
Telephone: (403) 269-4386
Telex: 03826725

Offers consulting services for engineering, geology and geophysics and the international petroleum industry (registered with APEGGA). Specializes in seismic data processing using the Seislog system and in interpreting stratigraphic units and reservoir characteristics. Basin evaluation studies of regional and local geology, well logs and geochemistry, result in prospect maps and an economic analysis of each prospect. A software research and development project will provide efficient use of data and interactive interpretation capabilities.

Yamatech Scientific Ltd.

1255 Laird Boulevard, Suite 260
Mount Royal, Quebec
Canada
H3P 2T1
Telephone: (514) 737-5434
Telex: 05-25134

Designs, plans, sells and installs complete computer communication networks for the office or factory environments.

Product

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Cross-reference

Index

A. Equipment and Systems

B. Components

The following section lists alphabetically categories of manufactured products divided into either electronic equipment (including systems) or components.

Space, military, security, computer, office systems and electrical products are featured in other publications available upon request at the nearest Canadian Government trade office as specified in the beginning of this brochure.

A. Equipment and Systems

Amplifiers

Bayly Engineering Ltd.
 Bryston Ltd.
 Califone Industries Ltd.
 Canadian Marconi Company
 Central Dynamics Ltd.
 Com-Sat Systems Ltd.
 Electroline Television
 Equipment Inc.
 Guildline Instruments Ltd.
 Lindsay Specialty Products Ltd.
 Norsat International Inc.
 Prime Mover Controls Inc.
 Quindar Products Ltd.
 Div. of QEI
 SED Systems Inc.
 Sinclair Radio Laboratories Ltd.
 Spar Aerospace Limited
 Sperry Inc., Aerospace and
 Marine Group
 Triple Crown Electronics Inc.
 Valcom Ltd.

Antennas

2001 S.N.I. (Satellite
 Network Inc.)
 Andrew Antenna Company Ltd.
 Canadian Astronautics Limited
 Canadian Larsen Electronics Ltd.
 Com Dev Ltd.
 Com-Sat Systems Ltd.
 Dataradio Inc.
 Elinca Communications Ltd.
 Garrett Canada
 General Instrument of Canada
 Ltd., RF Systems Div.
 Hermes Electronics Limited
 Indal Technologies Inc.
 Larcam Communications
 Equipment Inc.
 Lindsay Specialty Products Ltd.
 MPB Technologies Inc.
 Nautel (Nautical Electronic
 Labs Ltd.)
 Norsat International Inc.
 Polestar Communications Ltd.
 Rohde & Schwarz Canada Inc.
 Sinclair Radio Laboratories Ltd.
 Spar Aerospace Limited
 TIL-TEK Manufacturing Inc.
 TIW Systems Ltd.
 Valcom Ltd.

Avionics

Canadian Astronautics Limited
 Canadian Marconi Company
 Computing Devices Company
 Div. of Control Data Canada Ltd.
 Dowty Canada Electronics Ltd.
 Garrett Canada
 Internav Limited
 Leigh Instruments Limited
 Litton Systems Canada Limited
 Optech Systems Corp.
 Richard Brancker Research Ltd.
 Rockwell International of Canada
 Ltd., Collins Canada Division
 Sperry Inc., Aerospace and
 Marine Group
 Tech-Rep Electronics Ltd.
 TIW Systems Ltd.
 Tracer 1 Ltd., Tracer Electronics
 Mfg. Co. Ltd.

Broadcasting (TV) and Cable TV

Central Dynamics Ltd.
 Com-Sat Systems Ltd.
 Digital Video Systems Corp.
 Electroline Television
 Equipment Inc.
 Elinca Communications Ltd.
 Global Thermoelectric Power
 Systems Ltd.
 La Cie d'Électronique
 Normex Ltée
 Larcam Communications
 Equipment Inc.
 Leitch Video International Inc.
 Lindsay Specialty Products Ltd.

McCurdy Radio Industries Limited
 Nexus Engineering Corp.
 Norpak Corporation
 Norsat International Inc.
 Ross Video
 Seam Electronics Inc.
 Sinclair Radio Laboratories Ltd.
 Spartech Manufacturing Ltd.
 Standby Electronics Corp.
 Triple Crown Electronics Inc.
 Videoway
 Ward-Beck Systems Ltd.

CAD/CAM

A.T.S. Inc. (Automation Tooling
 Systems Inc.)
 Accurate & Automatic Scale
 Companies Ltd.
 ACDS Graphic Systems Inc.
 Bristol of Canada
 Celibec
 Cybernex Limited
 Documented Circuits
 DY-4 Systems Inc.
 Electrohome Limited
 G & B Automated
 Equipment Limited
 Gentian Electronics Ltd.
 Hovey Industries Ltd.
 Imapro Inc.
 Orcatech Inc.
 Redifacts Advanced
 Manufacturing Aids Ltd.
 Scada Systems Inc.
 Spectrix Microsystems Inc.
 Teklogix Inc.
 Vertigo Computer Imagery Inc.
 Viewscan Ltd.



Communications Data Switching Equipment

Amdahl Communications Inc.
 Bayly Engineering Ltd.
 Cablesare Inc.
 Canadian Marconi Company
 Comspec Communications Inc.
 Datagram Inc.
 Develcon Electronics Ltd.
 DY-4 Systems Inc.
 Dynapro Systems Inc.
 EDA Instruments Inc.
 Electro Arts Ltd.
 Elinca Communications Ltd.
 Gandalf Data Limited
 Hovey Industries Ltd.
 International Verifact Inc.
 Leigh Instruments Limited
 Manutronics Division of
 Microtel Ltd.
 Memotec Data Inc.
 Mitel Corporation
 Mobile Data International Inc.
 Motorola Information Systems Ltd.
 Muirhead Systems Ltd.
 Northern Telecom Canada Ltd.
 Perle Systems Ltd.
 Questel Telecommunications Inc.
 Reltek Inc.
 RMS Industrial Controls Inc.
 SED Systems Inc.
 Spar Aerospace Limited
 Sperry Inc., Aerospace and
 Marine Group
 Switchcom Manufacturing Inc.
 TIL Systems Limited
 Uni-Tel Limited
 Westhead Industrial Systems Corp.

Communications Key Systems

Control Dynamics
 (Kitchener) Inc.
 Datagram Inc.
 Dees Communications
 Engineering Ltd.
 Hovey Industries Ltd.
 La Cie d'Électronique
 Normex Ltée
 Manutronics Division of
 Microtel Ltd.
 Mitel Corporation
 Northern Telecom Canada Ltd.
 Positron Industries Inc.
 Reliance Telecommunication
 Products Ltd.
 Trillium Telephone Systems Inc.

Communications Message Equipment

Cablesare Inc.
 Canadian Astronautics Limited
 Computational Methods Ltd.
 Datagram Inc.
 Dataradio Inc.
 Develcon Electronics Ltd.
 Digital Video Systems Corp.
 Dowty Canada Electronics Ltd.
 DY-4 Systems Inc.
 Extel Communications (Canada)
 Ltd., Div. of NEI Canada Ltd.
 Ferritronics Limited
 Glenayre Electronics Ltd.
 Intercontinental Data Control
 Corp. Ltd. (Interdaco)
 Mobile Data International Inc.
 Motorola Information
 Systems Ltd.
 Network Data Systems Ltd.
 Norsat International Inc.
 Northern Telecom Canada Ltd.
 Questel Telecommunications Inc.
 Redicode Inc.
 Redifacts Advanced Manu-
 facturing Aids Ltd.
 RMS Industrial Controls Inc.
 SED Systems Inc.
 Sperry Inc., Aerospace and
 Marine Group
 Spilsbury Communications Ltd.
 TIAC Manufacturing Inc.
 TIW Systems Ltd.
 Ward-Beck Systems Ltd.
 Westinghouse Canada Inc.

Communications Modems

Amdahl Communications Inc.
 C.V.D.S. Inc.
 Canutel Industries Ltd.
 Computational Methods Ltd.
 Control Dynamics (Kitchener) Inc.
 CTS of Canada, Limited
 Datagram Inc.
 Dataradio Inc.
 Develcon Electronics Ltd.
 Digitech Inc.
 Dynapro Systems Inc.
 Electro Arts Ltd.
 Foundation Instruments Inc.
 FTS Forest Technology
 Systems Ltd.
 Gandalf Data Limited
 Glenayre Electronics Ltd.
 Interface Technologies Inc.
 International Verifact Inc.

Mobile Data International Inc.
 Motorola Information Systems Ltd.
 Muirhead Systems Ltd.
 Network Data Systems Ltd.
 Norsat International Inc.
 Opto-Electronics Inc.
 Questel Telecommunications Inc.
 Quindar Products Ltd.
 Div. of QEI
 Rantech Electronics Limited
 RMS Industrial Controls Inc.
 Sperry Inc., Aerospace and
 Marine Group
 Switchcom Manufacturing Inc.
 Uni-Tel Limited

Communications PABX Equipment

Datagram Inc.
 Elinca Communications Ltd.
 La Cie d'Électronique
 Normex Ltée
 Manutronics Division of
 Microtel Ltd.
 Mitel Corporation
 Northern Telecom Canada Ltd.
 SED Systems Inc.

Communications Paging Equipment

Computational Methods Ltd.
 DY-4 Systems Inc.
 Elinca Communications Ltd.
 Hovey Industries Ltd.
 Telesystème National Ltée

Communications Terminals

Alis Inc., Arabic/Latin
 Information Systems Inc.
 Comterm Inc.
 Cybernex Limited
 Extel Communications (Canada)
 Ltd., Div. of NEI Canada Ltd.
 Gandalf Data Limited
 Glenayre Electronics Ltd.
 Intercontinental Data Control
 Corp. Ltd. (Interdaco)
 International Verifact Inc.
 Lanpar Technologies Inc.
 Mobile Data International Inc.
 Motorola Information Systems Ltd.
 National Business Systems Inc.
 Network Data Systems Ltd.
 Norpak Corporation

Norsat International Inc.
 Northern Telecom Canada Ltd.
 Pinpoint Retail Systems Inc.
 Positron Industries Inc.
 Questel Telecommunications Inc.
 Redifacts Advanced Manufacturing Aids Ltd.
 SED Systems Inc.
 Sperry Inc., Aerospace and Marine Group
 Spilsbury Communications Ltd.
 SR Telecom Inc.
 Teklogix Inc.
 TIL Systems Limited
 Time Terminals of Canada (1984) Inc.
 TIW Systems Ltd.
 Volker-Craig Ltd.
 Westinghouse Canada Inc.

Consumer Electronics

Bryston Ltd.
 Commercial Electronics Ltd.
 Dorchester Electronics, Div. of Apollo Electronics Limited

Contract Assembly

Canutel Industries Ltd.
 Computer Assembly Systems Ltd. (Compas)
 Comterm Inc.
 Electrohome Limited
 Manutronics Division of Microtel Ltd.

Data Acquisition and Analysis

4C Technologies Ltd/Ltée
 Accurate & Automatic Scale Companies Ltd.
 Cadence Computer Corporation
 Canadian Astronautics Limited
 Centrodyne Inc.
 CTF Systems Inc.
 Digitrol Computers Inc.
 Epic Data Inc.
 Grove Telecommunications Ltd.
 National Business Systems Inc.
 Pachena Scientific & Industrial Electronics Inc.
 Pinpoint Retail Systems Inc.
 Promac Controls Inc.

Seimac Limited
 Spectrix Microsystems Inc.
 Targa Electronics Systems Inc.
 Techwest, Div. of Fleet Aerospace Corp.

Display Systems and Display Boards

Accurate & Automatic Scale Companies Ltd.
 ACDS Graphic Systems Inc.
 Alis Inc., Arabic/Latin Information Systems Inc.
 Canadian Astronautics Limited
 Canadian Marconi Company
 Canadian Scale Company Limited
 Computing Devices Company, Div. of Control Data Canada Ltd.
 Control Data Canada, Ltd.
 Dipix Systems Limited
 Dowty Canada Electronics Limited
 DY-4 Systems Inc.
 Dynapro Systems Inc.
 Electrohome Limited
 Garrett Canada
 Genesys Group Inc.
 Gigatek Limited
 Imapro Inc.
 Leitch Video International Inc.
 Liquid Transfer Systems Ltd.
 Litton Systems Canada Limited
 Lloyd Controls Ltd.
 Matrox Electronic Systems Ltd.
 MPB Technologies Inc.
 Muirhead Systems Ltd.
 NEI Canada Limited
 Norpak Corporation
 Pachena Scientific & Industrial Electronics Inc.
 Prime Mover Controls Inc.
 Raytheon Canada Ltd.
 SED Systems Inc.
 Seimac Limited
 Senstar Corporation
 Spartech Manufacturing Ltd.
 Télésystème National Ltée
 Trench Electric, Div. of Guthrie Investments Canada Ltd.
 W.R. Davis Engineering Ltd.
 Western Scale Co. Limited
 Westinghouse Canada Inc.

Educational and Related Equipment

Califone Industries Ltd.
 Cemcorp
 Comspec Communications Inc.
 Comterm Inc.
 Consulab Inc.
 Control Data Canada, Ltd.
 Criterion Instruments Ltd.
 Digitrol Computers Inc.
 Electrohome Limited
 Fathom Atlantic Limited
 Focal Marine Limited
 Genesys Group Inc.
 Lab-Volt Ltd.
 Lionmount & Co. Ltd.
 Manutronics Division of Microtel Ltd.
 Navair Limited
 Orcatech Inc.
 Pachena Scientific & Industrial Electronics Inc.
 Taylor Instrument
 Télésystème National Ltée
 Thought Technology Ltd.
 Zvook Corporation

Electro-Optical Equipment

Barringer Research Ltd.
 Bendix Avelex Inc.
 Canadian Astronautics Limited
 Canstar Communications, Div. of Canada Wire and Cable Ltd.
 Diffracto Ltd.
 Dualtec Electronics
 Ernst Leitz (Canada) Ltd.
 Focal Marine Limited
 Gentec Inc.
 George Kelk Limited
 KOM Inc.
 Lloyd Controls Ltd.
 MPB Technologies Inc.
 MSE Engineering Systems Ltd.
 Muirhead Systems Ltd.
 MacDonald, Dettwiler and Associates Ltd.
 Nova Scotia Research Optech Systems Corp.
 Optikon Corporation Ltd.
 Opto-Electronics Inc.
 Presentey Engineering Products Limited
 Scintrex Ltd.
 Seastar Instruments Ltd.
 Spar Aerospace Limited

Techwest, Div. of Fleet
Aerospace Corp.
Tervcon Ltd.
Tiac Manufacturing Inc.
Viewscan Ltd.
W.R. Davis Engineering Ltd.

Electronic Mail

AIT (Advanced Information
Technologies) Corporation
BMB Compuscience Canada Ltd.
Cableshare Inc.
Canadian Astronautics Limited
Gandalf Data Limited
Gandalf Systems Group Inc.
Geac Computer Corporation
Genesys Group Inc.
Motorola Information Systems Ltd.
Network Data Systems Ltd.
Norpak Corporation
Northern Telecom Canada Ltd.
Questel Telecommunications Inc.
Spectrix Microsystems Inc.
Switchcom Manufacturing Inc.
TIAC Manufacturing Inc.
Westinghouse Canada Inc.

Environmental Instrumentation and Monitoring

ACME Engineering Products Ltd.
Adaptive Microelectronics Ltd.
alphaNuclear Co.
Armstrong Monitoring Corp.
Barringer Research Ltd.
Bomem Inc.
Bristol Aerospace Limited
Canadian Applied Technology
(CAT)
Canadian Cabinets Company Ltd.
Chimo Equipment Ltd.
Conspec Controls Ltd.
Consultronics Ltd.
Control and Metering
Datagram Inc.
EDA Instruments Inc.
Focal Marine Limited
FTS Forest Technology
Systems Ltd.
Garrett Canada
Geotech Ltd.
Hermes Electronics Limited
Instantel Inc.
Leeds & Northrup, Canada,
Div. of General Signal Ltd.
Muirhead Systems Ltd.
Multilin Inc.

MacDonald, Dettwiler and
Associates Ltd.
Nordco Limited
Optech Systems Corp.
Presentey Engineering
Products Limited
Reuter-Stokes Canada Ltd.
Richard Brancker Research Ltd.
Roctest Ltd./Ltée
Scada Systems Inc.
Sciex® Div. of MDS Health
Group Limited
Scintrex Ltd.
Seastar Instruments Ltd.
Seimac Limited
Spartech Manufacturing Ltd.
Sperry Inc., Aerospace and
Marine Group
Taylor Instrument
Tech-Rep Electronics Ltd.
Terrascience Systems Ltd.
Topping Electronics Ltd.
TPK Solar Systems Inc.
Ultra High Vacuum
Instruments Ltd.
Vansco Electronics Ltd.
Westbay Instruments Ltd.
Western Research Div. of Bow
Valley Resource Services Ltd.
Westinghouse Canada Inc.

Fibre Optic Systems and Equipment

Canadian Instrumentation and
Research Ltd.
Canstar Communications,
Div. of Canada Wire and
Cable Limited
Elmec Engineering Ltd.
Focal Marine Limited
Foundation Instruments Inc.
Garrett Canada
Harris Farinon Canada Inc.
Instrumar Limited
Lloyd Controls Ltd.
MPB Technologies Inc.
MSE Engineering Systems Ltd.
MacDonald, Dettwiler and
Associates Ltd.
Northern Telecom Canada Ltd.
Nova Scotia Research
Optikon Corporation Ltd.
Opto-Electronics Inc.
Seastar Instruments Ltd.
TIAC Manufacturing Inc.

Fire Alarm Systems and Equipment

Base Ten Canada Ltd.
Chubb Security Systems, Div.
of Racal-Chubb Canada Limited
Dicon Systems Limited
Edwards International
Electro-Vox Inc.
Mirtone Industries Limited
Pyrotronics Canada Limited
Securiplex Systems Inc.,
Member of SNC Group
Spartech Manufacturing Ltd.

Geological/Geophysical Instrumentation

alphaNuclear Co.
Applied Microsystems
Barringer Research Ltd.
CAE Electronics Ltd.
CTF Systems Inc.
Dighem Surveys &
Processing Inc.
EDA Instruments Inc.
GEM Systems, Inc.
Geomin Computer Services Corp.
Geonics Limited
Geoprobe Ltd.
Geotech Ltd.
Huntec (70) Limited
Instantel Inc.
Instrumar Limited
Interactive Circuits &
Systems Ltd.
MacDonald, Dettwiler and
Associates Ltd.
Nordco Limited
Nova Scotia Research
Optech Systems Corp.
Roctest Ltd./Ltée
Sander Geophysics Limited
Scintrex Ltd.
Sonotek Ltd.
W. Sodin (Gravity) Ltd.
W.R. Davis Engineering Ltd.
Westbay Instruments Ltd.
Western Geophysical Company
of Canada Ltd.

Hydrographic Equipment and Instrumentation

Bristol Aerospace Limited
Canadian Applied Technology
(CAT)
Canadian Astronautics Limited

Dighem Surveys &
Processing Inc.
DY-4 Systems Inc.
Huntec (70) Limited
Internav Limited
Mesotech Systems Ltd.
Optech Systems Corp.
Terrascience Systems Ltd.
Westbay Instruments Ltd.

Industrial Process Control

A. Comeau & Associates Ltd.
Accurate & Automatic Scale
Companies Ltd.
Bailey Controls
Bristol of Canada
Canadian Astronautics Limited
Canutel Industries Ltd.
Comspec Communications Inc.
Conspec Controls Ltd.
Consulab Inc.
Control and Metering
Dantec Electronics Limited
Diffracto Ltd.
Digitech Inc.
Digitrol Computers Inc.
Dowty Canada Electronics Ltd.
DY-4 Systems Inc.
Dynalectron Systems Inc.
Dynapro Systems Inc.
Elmec Engineering Ltd.
G & B Automated Equipment Ltd.
Gandalf Data Limited
GEC Canada Ltd.
Interautomation Inc.
Leeds & Northrup, Canada,
Div. of General Signal Ltd.
Lisle-Matrix Ltd.
Lloyd Controls Ltd.
MDDC Systems Ltd.
Megatel Computer Technologies,
Div. of F&K Manufacturing
Co. Ltd.
Milton Roy Industries Ltd.
Multilin Inc.
Pacific Meter Inc.
Prior Data Sciences Ltd.
Promac Controls Inc.
Ramsey R.E.C. Ltd.
Scada Systems Inc.
Sentrol Systems Ltd.
Sonotek Ltd.
Spartech Manufacturing Ltd.
Taurus Computer Products Inc.
Taylor Instrument
Tech-Rep Electronics Ltd.
Techware Systems Corporation
Teklogix Inc.

Tervcon Ltd.
TIAC Manufacturing Inc.
TPK Solar Systems Inc.
Trench Electric, Div. of Guthrie
Investments Canada Ltd.
Vansco Electronics Ltd.
Western Scale Co. Limited
Westinghouse Canada Inc.

Intercom Systems

Audor Communications Inc.
C.V.D.S. Inc.
Computational Methods Ltd.
Dictograh Corporation
Microtel Limited
Mirtone Industries Limited
MSE Engineering Systems Ltd.
Multi-Vox Limitée
McCurdy Radio Industries Ltd.
Northern Telecom Canada Ltd.
Positron Industries Inc.
Téléystème National Ltée
Trillium Telephone Systems Inc.
Ward-Beck Systems Ltd.

Lasers

Lumonics Inc.
MPB Technologies Inc.
Optech Systems Corp.
PRA International Inc.
Ultra Lasertech Inc.

Marine Communications Systems

K.W. Wilk Associates, Div. of
United Telephone Company Ltd.
Leigh Instruments Limited

Medical Electronics

AECL Medical
(Atomic Energy of Canada Ltd.)
Bach-Simpson Limited
Base Ten Canada Ltd.
Biosig Instruments Inc.
Comterm Inc.
CTF Systems Inc.
DY-4 Systems Inc.
Electrohome Limited
Electromed International Limitée
Madsen Electronics (Canada) Ltd.
Payton Scientific Limited
Picker International Canada Inc.

Radionics Medical Inc.
Scintrex Ltd.
Thought Technology Ltd.
TIAC Manufacturing Inc.
Unitron Industries Ltd.

Meteorological Equipment and Instrumentation

Audor Communications Inc.
Bristol Aerospace Limited
Canadian Applied Technology
(CAT)
Canadian Astronautics Limited
EDA Instruments Inc.
FTS Forest Technology
Systems Ltd.
Hermes Electronics Limited
Muirhead Systems Ltd.
MacDonald, Dettwiler and
Associates Ltd.
Presentey Engineering
Products Limited
SED Systems Inc.
Seimac Limited
Sperry Inc., Aerospace and
Marine Group
Terrascience Systems Ltd.

Microwave Systems and Equipment

Andrew Antenna Company Ltd.
B.E.L-Tronics Limited
Canadian Astronautics Limited
Canutel Industries Ltd.
Com Dev Ltd.
Consultronics Ltd.
Danex Microwave Inc.
Elinca Communications Ltd.
Harris Farinon Canada Inc.
Hovey Industries Ltd.
Indal Technologies Inc.
Micronav Ltd.
Microtel Limited
MPB Technologies Inc.
Northern Telecom Canada Ltd.
Raytheon Canada Ltd.
SED Systems Inc.
Spar Aerospace Limited
SR Telecom Inc.
Telemus Electronic Systems Inc.
Varian Canada Microwave
Division

Monitoring and Supervisory Control

4C Technologies Ltd./Ltée
 A. Comeau & Associate Ltd.
 Accurate & Automatic Scale Companies Ltd.
 Audur Communications Inc.
 Bach-Simpson Limited
 Beta Monitors & Controls Ltd.
 Bristol Aerospace Limited
 Bristol of Canada
 C.V.D.S. Inc.
 Canadian Applied Technology (CAT)
 Canadian Astronautics Limited
 Canadian RGL Electronics, Div. of Direct Digital Industries
 Canutel Industries Ltd.
 Caulfield Engineering
 CD Power Measurement Ltd.
 Chubb Security Systems, Div. of Racal-Chubb Canada Ltd.
 Conspec Controls Ltd.
 Consultronics Ltd.
 Datagram Inc.
 Detronics Limited
 Digitech Inc.
 Digitrol Computers Inc.
 Dowty Canada Electronics Ltd.
 DY-4 Systems Inc.
 Dynapro Systems Inc.
 EDA Instruments Inc.
 Elinca Communications Ltd.
 Elmec Engineering Ltd.
 Global Thermoelectric Power Systems Ltd.
 Honeywell Amplitrol Inc.
 Interautomation Inc.
 IRD Mechanalysis Limited
 Kraus Industries Ltd.
 Leeds & Northrup, Canada, Div. of General Signal Ltd.
 Liquid Transfer Systems Ltd.
 Marine Safe Electronics of Canada Ltd.
 Microtel Limited
 Miller Communications Systems Ltd.
 Milton Roy Industries Ltd.
 Motorola Information Systems Ltd.
 MSE Engineering Systems Ltd.
 Multilin Inc.
 Positron Industries Inc.
 Presentey Engineering Products Limited
 Prime Mover Controls Inc.
 Ramsey R.E.C. Ltd.
 RMS Industrial Controls Inc.

Rockwell International of Canada Ltd., Wescom
 Canada Division
 Roctest Ltd./Ltée
 Scada Systems Inc.
 SED Systems Inc.
 Seimac Limited
 Senstar Corporation
 Spartech Manufacturing Ltd.
 Sperry Inc., Aerospace and Marine Group
 Spilsbury Communications Ltd.
 Taylor Instrument
 Tech-Rep Electronics Ltd.
 Téléystème National Ltée
 Terrascience Systems Ltd.
 Uni-Tel Limited
 Valera Electronics Inc.
 Vansco Electronics Ltd.
 Vertigo Computer Imagery Inc.
 Westbay Instruments Ltd.
 Westhead Industrial Systems Corp.
 Willowglen Systems Ltd.

Multiplexers and Antenna Elements

P.G. Electronics Ltd.
 Sinclair Radio Laboratories Ltd.
 TIL-TEK Manufacturing Inc.

Multiplex Equipment

Accurate & Automatic Scale Companies Ltd.
 Amdahl Communications Inc.
 Bayly Engineering Ltd.
 Bristol of Canada
 Canadian Marconi Company
 Canadian RGL Electronics, Div. of Direct Digital Industries
 Com Dev Ltd.
 Computing Devices Company, Div. of Control Data Canada Ltd.
 Conspec Controls Ltd.
 Consultronics Ltd.
 Datagram Inc.
 Develcon Electronics Ltd.
 Digital Video Systems Corp.
 Digitech Inc.
 Dowty Canada Electronics Ltd.
 DY-4 Systems Inc.
 Electro Arts Ltd.
 Elinca Communications Ltd.
 Foundation Instruments Inc.
 Gandalf Data Limited
 Harris Farinon Canada Inc.

Honeywell Amplitrol Inc.
 Hovey Industries Ltd.
 Intercontinental Data Control Corp. Ltd. (Interdaco)
 Memotec Data Inc.
 Microtel Limited
 Motorola Information Systems Ltd.
 Multiplex Systems and Computers Ltd.
 MacDonald, Dettwiler and Associates Ltd.
 Norsat International Inc.
 Northern Telecom Canada Ltd.
 Nova Scotia Research
 Pyrotronics Canada Limited
 Quindar Products Ltd., Div. of QEI
 Reltek Inc.
 Rockwell International of Canada Ltd., Wescom Canada Division
 Senstar Corporation
 Sinclair Radio Laboratories Ltd.
 Sperry Inc., Aerospace and Marine Group
 SR Telecom Inc.
 Switchcom Manufacturing Inc.

Navigation and Direction Finding Equipment

Andrew Antenna Company Ltd.
 Audur Communications Inc.
 Bendix Avelex Inc.
 Canadian Astronautics Limited
 Canadian Marconi Company
 Caulfield Engineering
 DY-4 Systems Inc.
 EDO Canada Ltd.
 Elinca Communications Ltd.
 Global Thermoelectric Power Systems Ltd.
 Indal Technologies Inc.
 Interactive Circuits & Systems Ltd.
 Internav Limited
 Leigh Instruments Limited
 Leigh Navigation Systems Ltd.
 Litton Systems Canada Limited
 Micronav Ltd.
 Miller Communications Systems Ltd.
 Nautel (Nautical Electronic Labs Ltd.)
 Presentey Engineering Products Limited
 Raytheon Canada Ltd.
 Rockwell International of Canada Ltd., Collins Canada Division

Rohde & Schwarz Canada Inc.
Sinclair Radio Laboratories Ltd.
Sperry Inc., Aerospace and
Marine Group
TIAC Manufacturing Inc.

Nuclear Instrumentation

Aptec Engineering Limited
Barringer Research Ltd.
Canadian Astronautics Limited
DY-4 Systems Inc.
EDA Instruments Inc.
Garrett Canada
George Kelk Limited
MSE Engineering Systems Ltd.
Pylon Electronic Development
Company Ltd.
Ramsey R.E.C. Ltd.
Reuter-Stokes Canada Ltd.
Roctest Ltd./Ltée
Scintrex Ltd.
Syprotec Inc.
Taylor Instrument
Ultra High Vacuum
Instruments Ltd.
Westbay Instruments Ltd.

Oceanography

Applied Microsystems
Canadian Astronautics Limited
Dighem Surveys &
Processing Inc.
George Kelk Limited
Guildline Instruments Ltd.
Huntec (70) Limited
Instrumar Limited
Internav Limited
Mesotech Systems Ltd.
MSE Engineering Systems Ltd.
Nordco Limited
Novatech Designs Ltd.
Roctest Ltd./Ltée
Seastar Instruments Ltd.
Seimac Limited
TIAC Manufacturing Inc.
W.R. Davis Engineering Ltd.

ROCKET AUTOMATION SYSTEMS

Bayly Engineering Ltd.
DY-4 Systems Inc.

Power Supplies, Static Inverters and Converters

Audor Communications Inc.
Bach-Simpson Limited
Beel Electronics Inc.
Brown Manufacturing Ltd.
C.V.D.S. Inc.
Canadian Marconi Company
Criterion Instruments Ltd.
CTS of Canada, Limited
Electric Power Equipment Ltd.
Electro Arts Ltd.
Electronic Craftsmen Ltd.
Elmec Engineering Ltd.
Eramosa Technology Corp.
Exide Electronics Canada, Inc.
Glenayre Electronics Ltd.
Global Thermoelectric Power
Systems Ltd.
GNB Batteries (Canada) Inc.
Hovey Industries Ltd.
Iconopower Ltd.
KB Electronic Limited
Lloyd Controls Ltd.
Mechron Energy Ltd.
Modern Power Conversion Inc.
Philtek Electronics Ltd.
PRA International Inc.
Pylon Electronic Development
Company Ltd.
Reliance Telecommunication
Products Ltd.
Spartech Manufacturing Ltd.
Sparton of Canada Ltd.
Standby Electronics Corp.
Tech-Rep Electronics Ltd.
Tectrol Inc.
Tektron Equipment Corp.
TPK Solar Systems Inc.
Triple Crown Electronics Inc.
Valcom Ltd.
Varian Canada Microwave
Division
Westinghouse Canada Inc.
Xantrex Technology Inc.
Zavitz Technology Inc.

Radar Systems and Auxiliary Equipment

Andrew Antenna Company Ltd.
C-Tech Ltd.
Canadian Astronautics Limited
Canadian Marconi Company
Com Dev Ltd.
DY-4 Systems Inc.
Elinca Communications Ltd.
Hovey Industries Ltd.

Litton Systems Canada Limited
Micronav Ltd.
MPB Technologies Inc.
MacDonald, Dettwiler and
Associates Ltd.
Raytheon Canada Ltd.
RMS Industrial Controls Inc.
Sperry Inc., Aerospace and
Marine Group
TIW Systems Ltd.
Tribar Industries
Varian Canada Microwave
Division
Westinghouse Canada Inc.

Radio Communications Systems = Cellular

Canadian General Electric
Elinca Communications Ltd.
Garrett Canada
Mobile Data International Inc.
Northern Telecom Canada Ltd.
Novatel Communications Ltd.
Questel Telecommunications Inc.
Rohde & Schwarz Canada Inc.
Sinclair Radio Laboratories Ltd.
SR Telecom Inc.

Radio Communications Systems = Fixed

Audor Communications Inc.
Bristol Aerospace Limited
Canadian General Electric
Com Dev Ltd.
Elinca Communications Ltd.
Ferritronics Limited
Garrett Canada
Glenayre Electronics Ltd.
Global Thermoelectric Power
Systems Ltd.
Hovey Industries Ltd.
Leigh Navigation Systems Ltd.
Miller Communications
Systems Ltd.
Nautel (Nautical Electronic
Labs Ltd.)
Polestar Communications Ltd.
Rockwell International of Canada
Ltd., Collins Canada Division
Sinclair Radio Laboratories Ltd.
Spilsbury Communications Ltd.
SR Telecom Inc.
TIW Systems Ltd.

Radio Communications Systems - Marine

Audor Communications Inc.
Elinca Communications Ltd.
Glenayre Electronics Ltd.
Hermes Electronics Limited
Hovey Industries Ltd.
Nautel (Nautical Electronic
Labs Ltd.)
Polestar Communications Ltd.
Rockwell International of Canada
Ltd., Collins Canada Division
Sinclair Radio Laboratories Ltd.
Spilsbury Communications Ltd.

Radio Communications Systems - Mobile

Audor Communications Inc.
Canadian General Electric
Com Dev Ltd.
Elinca Communications Ltd.
Ferritronics Limited
Gandalf Data Limited
Glenayre Electronics Ltd.
Hovey Industries Ltd.
Leigh Navigation Systems Ltd.
Miller Communications
Systems Ltd.
Mobile Data International Inc.
MacDonald, Dettwiler and
Associates Ltd.
Nexus Engineering Corp.
Novatel Communications Ltd.
Philips Electronics Ltd.
Polestar Communications Ltd.
Positron Industries Inc.
RMS Industrial Controls Inc.
Rockwell International of Canada
Ltd., Collins Canada Division
Rockwell International of Canada
Ltd., Wescom Canada Division
Siltronics Ltd.
Sinclair Radio Laboratories Ltd.
Spilsbury Communications Ltd.
Teklogix Inc.
TIW Systems Ltd.
Valcom Ltd.

Regulation Voltage and Frequency

Beel Electronics Inc.
C.V.D.S. Inc.
Gentec Inc.
George Kelk Limited
Lloyd Controls Ltd.

Pylon Electronic Development
Company Ltd.
Tektron Equipment Corp.
TPK Solar Systems Inc.
Varian Canada Microwave
Division
Westinghouse Canada Inc.
Xantrex Technology Inc.

Remote Sensing Instruments and Systems

Barringer Research Ltd.
Bomem Inc.
Bristol Aerospace Limited
Bristol of Canada
Canadian Applied Technology
(CAT)
Canadian Astronautics Limited
Canadian RGL Electronics, Div. of
Direct Digital Industries
Caulfield Engineering
CD Power Measurement Ltd.
Com Dev Ltd.
Dipix Systems Limited
Dualtec Electronics
DY-4 Systems Inc.
EDA Instruments Inc.
EDO Canada Ltd.
Focal Marine Limited
FTS Forest Technology Systems
Systems Ltd.
GEC Canada Ltd.
George Kelk Limited
Geotech Ltd.
Hermes Electronics Limited
Imapro Inc.
Instanal Inc.
Instrumar Limited
Interactive Circuits &
Systems Ltd.
La Cie d'Électronique Normex Ltée
Milton Roy Industries Ltd.
MPB Technologies Inc.
MacDonald, Dettwiler and
Associates Ltd.
Optech Systems Corp.
Prime Mover Controls Inc.
Scintrex Ltd.
SED Systems Inc.
Seimac Limited
Sentrol Systems Ltd.
Spartech Manufacturing Ltd.
Sparton of Canada Ltd.
Sperry Inc., Aerospace and
Marine Group

Syprotec Inc.
Taylor Instrument
Tech-Rep Electronics Ltd.
Tervcon Ltd.
TIAC Manufacturing Inc.
Trench Electric, Div. of
Guthrie Investments Canada
Ltd.
Vansco Electronics Ltd.
Viewscan Ltd.
W.R. Davis Engineering Ltd.
Westronic Inc.

Repair and Overhaul Services

Accurate & Automatic Scale
Companies Ltd.
Applied Microsystems
Audor Communications Inc.
Bendix Avelex Inc.
Canadian Marconi Company
Canadian Scale Company Ltd.
Electrohome Limited
Fathom Atlantic Limited
Fathom Oceanology Limited
Garrett Canada
Guildline Instruments Ltd.
Hovey Industries Ltd.
KOM Inc.
Northern Telecom Canada Ltd.
Polestar Communications Ltd.
Presentey Engineering Products
Limited
Rockwell International of Canada
Ltd., Collins Canada Division
Seimac Limited
Sperry Inc., Aerospace and
Marine Group
Taylor Instrument
Viewscan Ltd.
Westhead Industrial Systems
Corp.
Westinghouse Canada Inc.
Zavitz Technology Inc.

Satellite Communications Equipment and Systems

2001 S.N.I. (Satellite
Network Inc.)
AED Satellite Systems
Andrew Antenna Company Ltd.
B.E.L-Tronics Limited
Bristol Aerospace Limited
Canadian Astronautics Limited
Com Dev Ltd.
Com-Sat Systems Ltd.
Consultronics Ltd.

Crowder Communications Corp.
 Danex Microwave Inc.
 Datagram Inc.
 Digital Video Systems Corp.
 DY-4 Systems Inc.
 Electrohome Limited
 Elinca Communications Ltd.
 Fathom Oceanology Limited
 General Instrument of Canada Ltd., RF Systems Div.
 Hermes Electronics Limited
 Hovey Industries Ltd.
 Lindsay Specialty Products Ltd.
 Manutronics Division of Microtel Ltd.
 Microtel Limited
 Miller Communications Systems Ltd.
 Nexus Engineering Corp.
 Norsat International Inc.
 SED Systems Inc.
 Spar Aerospace Limited
 Techwest, Div. of Fleet Aerospace Corp.
 TIW Systems Ltd.
 Triple Crown Electronics Inc.
 Varian Canada Microwave Division

SCADA (SUPERVISORY CONTROL AND DATA ACQUISITION)

A. Comeau & Associates Ltd.
 Bailey Controls
 BGI/Automatec
 Bristol of Canada
 CAE Electronics Ltd.
 Canadian Astronautics Ltd.
 Canadian Marconi Company
 Canadian RGL Electronics, Div. of Direct Digital Industries
 Control and Metering
 Datap Systems, Div. of Swan Wooster Engineering Ltd.
 Datek Industries Limited
 Digitrol Computers Inc.
 DY-4 Systems Inc.
 Elinca Communications Ltd.
 Epic Data Inc.
 Ferritronics Limited
 Focal Marine Limited
 Foundation Instruments Inc.
 GEC Canada Ltd.
 Global Thermoelectric Power Systems Ltd.
 Hovey Industries Ltd.
 IRD Mechanalysis Limited
 ITT SEL Canada

Leeds & Northrup, Canada, Div. of General Signal Limited
 Microtel Limited
 MSE Engineering Systems Ltd.
 Multilin Inc.
 Positron Industries Inc.
 Prior Data Sciences Ltd.
 Quindar Products Ltd., Div. of OEI
 Rantech Electronics Limited
 RMS Industrial Controls Inc.
 Roctest Ltd./Ltée
 Scada Systems Inc.
 Seimac Limited
 Sentrol Systems Ltd.
 Spilsbury Communications Ltd.
 SR Telecom Inc.
 Taurus Computer Products Inc.
 Taylor Instrument
 Tech-Rep Electronics Ltd.
 Tecrad Inc.
 Terrascience Systems Ltd.
 Trench Electric, Div. of Guthrie Investments Canada Ltd.
 Vertigo Computer Imagery Inc.
 Westhead Industrial Systems Corp.
 Westronic Inc.
 Willowglen Systems Ltd.

Security and Surveillance Systems

Adaptive Microelectronics Ltd.
 Base Ten Canada Ltd.
 Chubb Security Systems, Div. of Racal-Chubb Canada Ltd.
 Computing Devices Company, Div. of Control Data Canada Ltd.
 Computrol Systems Ltd.
 Corrigan Instrumentation Services Ltd.
 Dicon Systems Limited
 Digital Video Systems Corp.
 DY-4 Systems Inc.
 Edwards International
 Electro Arts Ltd.
 Electrohome Limited
 Electromed International Limitée
 Electronic Surveillance Corp.
 Foundation Instruments Inc.
 Henotex (1981) Inc.
 Honeywell Amplitrol Inc.
 Hovey Industries Ltd.
 International Sigma Security Inc.
 ISB Ltd.
 Leigh Instruments Limited
 Litton Systems Canada Ltd.

MSE Engineering Systems Ltd.
 Multiplex Systems and Computers Ltd.
 Positron Industries Inc.
 Pyrotronics Canada Limited
 Questel Telecommunications Inc.
 RMS Industrial Controls Inc.
 Roctest Ltd./Ltée
 Sciex® Div. of MDS Health Group Limited
 Scintrex Ltd.
 Securiplex Systems Inc., Member of SNC Group
 Security Information Systems
 Senstar Corporation
 Sur-Guard Security Systems Ltd.
 Tech-Rep Electronics Ltd.
 Telemus Electronic Systems Inc.
 Télésystème National Ltée
 Viscount Industries Limited

Simulator Systems

CAE Electronics Ltd.

Sonar Equipment and Systems

C-Tech Ltd.
 Canadian Astronautics Limited
 Caulfield Engineering
 Computing Devices Company, Div. of Control Data Canada Ltd.
 DY-4 Systems Inc.
 Fathom Atlantic Limited
 Fathom Oceanology Limited
 Hermes Electronics Limited
 Hunttec (70) Limited
 Interactive Circuits & Systems Ltd.
 Mesotech Systems Ltd.
 Milton Roy Industries Ltd.
 Seastar Instruments Ltd.
 Sparton of Canada Ltd.
 W.R. Davis Engineering Ltd.
 Westinghouse Canada Inc.

Specialized Manufacturing Equipment

A.T.S. Inc. (Automation Tooling Systems Inc.)
 Arlink Industries, Div. of Arbell Inc.
 Canadian Cabinets Company Ltd.
 Electrovert Ltd.

*ELMA Engineering Services Ltd.
General Production Devices
High Vacuum Systems Inc.
ISB Ltd.
Process Technology Limited
R.F. Mote Limited
Tektron Equipment Corp.
TPK Solar Systems Inc.
Vortek Industries Ltd.
Western Scale Co. Limited*

Telemetering Equipment

*Bristol Aerospace Limited
Bristol of Canada
C.V.D.S. Inc.
Canadian Applied Technology
(CAT)
Canadian General Electric
Canadian RGL Electronics, Div. of
Direct Digital Industries
Canutel Industries Ltd.
Consultronics Ltd.
Datagram Inc.
Electro Arts Ltd.
FTS Forest Technology
Systems Ltd.
GEC Canada Ltd.
Leeds & Northrup, Canada, Div.
of General Signal Limited
Microtel Limited
Miller Communications
Systems Ltd.
Nordco Limited
Palco Telecom Ltd.
Positron Industries Inc.
Promac Controls Inc.
Quality Communication Produc.
(1979) Ltd.
Rantech Electronics Limited
RMS Industrial Controls Inc.
Roctest Ltd./Ltée
Seastar Instruments Ltd.
Sperry Inc., Aerospace and
Marine Group
Tech-Rep Electronics Ltd.
Uni-Tel Limited
Vansco Electronics Ltd.
Willowglen Systems Ltd.*

Telephone Subscriber Apparatus and Systems

*Antares Telecommunications Inc.
Control Dynamics (Kitchener) Inc.
DBA Communication Systems Inc.
Dictograph Corporation
Electro Arts Ltd.*

*Elinca Communications Ltd.
GEC Canada Ltd.
Jatom Systems Inc.
La Cie d'Électronique
Normex Ltée
Manutronics Division of
Microtel Ltd.
Northern Telecom Canada Ltd.
Positron Industries Inc.
Richard Brancker Research Ltd.
Rockwell International of Canada
Ltd., Wescom Canada Division
Trillium Telephone Systems Inc.*

Telephone Switching Equipment and Systems

*A.E.I. Telecommunications
(Canada) Ltd.
Computational Methods Ltd.
Control Dynamics (Kitchener) Inc.
Dees Communications Engineering
Ltd.
Electro Arts Ltd.
Elinca Communications Ltd.
GEC Canada Ltd.
Leitch Video International Inc.
Manutronics Division of
Microtel Ltd.
Microtel Limited
Mitel Corporation
Northern Telecom Canada Ltd.
Switchcom Manufacturing Inc.
Trillium Telephone Systems Inc.*

Telephone Transmission Equipment and Systems

*Consultronics Ltd.
Control Dynamics (Kitchener) Inc.
Digitech Inc.
Electro Arts Ltd.
Elinca Communications Ltd.
GEC Canada Ltd.
Harris Farinon Canada Inc.
Intercontinental Data Control
Corp. Ltd. (Interdaco)
Manutronics Division of
Microtel Ltd.
Microtel Limited
Northern Telecom Canada Ltd.
Positron Industries Inc.
RMS Industrial Controls Inc.
Rockwell International of Canada
Ltd., Wescom Canada Division
Sperry Inc. Aerospace and
Marine Group
SR Telecom Inc.*

Television Systems and Equipment

*Central Dynamics Ltd.
Digital Video Systems Corp.
Electroline Television
Equipment Inc.
Elinca Communications Ltd.
La Cie d'Électronique
Normex Ltée
Leitch Video International Inc.
MPB Technologies Inc.
MSE Engineering Systems Ltd.
McCurdy Radio Industries Ltd.
Nexus Engineering Corp.
Ward-Beck Systems Ltd.*

Test and Measuring Equipment

*Accurate & Automatic Scale
Companies Ltd.
AEA Electronic Ltd.
Alcohol Countermeasure
Systems Inc.
Amber Electro Design Inc.
Antares Telecommunications Inc.
Applied Microsystems
Aptec Engineering Limited
Bach-Simpson Limited
Bendix Avelex Inc.
Bomem Inc.
Bristol of Canada
C-Tech Ltd.
Canadian Astronautics Limited
CD Power Measurement Ltd.
Chimo Equipment Ltd.
Comterm Inc.
Consultronics Ltd.
Criterion Instruments Ltd.
CTF Systems Inc.
Cyberscope Industries Inc., Div.
of Russell Ultra-Sound
Services Ltd.
Dees Communications
Engineering Ltd.
Detronics Limited
Digitech Inc.
DY-4 Systems Inc.
Electrical Testing Instruments Ltd.
Electro Arts Ltd.
ELMA Engineering Services Ltd.
Fathom Atlantic Limited
Foundation Instruments Inc.
Garrett Canada
George Kelk Limited
Guildline Instruments Ltd.
Hovey Industries Ltd.*

Infrascan Inc.
Interactive Circuits & Systems Ltd.
Interautomation Inc.
International Road Dynamics Inc.
IRD Mechanalysis Limited
ISB Ltd.
La Cie d'Électronique Normex Ltée
Lab-Volt Ltd.
Leitch Video International Inc.
Lionmount & Co. Ltd.
Litton Systems Canada Limited
Microtronix Systems Ltd.
Milltronics
Mosaid Systems Inc.
Multi-Amp Canada Limited
Navair Limited
Northern Telecom Canada Ltd.
Pacific Meter Inc.
Photovac Inc.
PRA International Inc.
Pylon Electronic Development Company Ltd.
Questel Telecommunications Inc.
Redicode Inc.
Reliance Telecommunication Products Ltd.
Reltek Inc.
Richard Brancker Research Ltd.
Roctest Ltd./Ltée
Roy Ball Associates Ltd.
Sciex® Div. of MDS Health Group Limited
Securatest Mfg. Ltd.
Senstek Ltd.
Sentrol Systems Ltd.
Spartech Manufacturing Ltd.
Sperry Inc., Aerospace and Marine Group
Syprotec Inc.
Tech-Rep Electronics Ltd.
Techware Systems Corporation
Thalamus Electronics Inc.
TIAC Manufacturing Inc.
TPK Solar Systems Inc.
Ultra High Vacuum Instruments Ltd.
Vickers Instruments (Canada) Inc.
Viscount Industries Limited
Ward-Beck Systems Ltd.
Western Research Division of Bow Valley Resource Services Ltd.

Towers and Accessories

Abroyd Communications Limited
DY-4 Systems Inc.
Elinca Communications Ltd.
General Instrument of Canada Ltd., RF Systems Div.
Harris Farinon Canada Inc.
Indal Technologies Inc.
Leblanc & Royle Communications Inc.
Lindsay Specialty Products Ltd.
Trylon Manufacturing Company Limited

Traffic System Controllers

ITT SEL Canada
Novax Industries Corporation
Topping Electronics Ltd.

Transmitters: Radio and TV Broadcast

Audor Communications Inc.
Bayly Engineering Ltd.
Crowder Communications Corp.
Digital Video Systems Corp.
Elinca Communications Ltd.
Larcen Communications Equipment Inc.
Nautel (Nautical Electronic Labs Ltd.)
Triple Crown Electronics Inc.

VDU (Video Display Unit) Assemblies

Electrohome Limited
Philips Electronics Ltd.

Videotex (Teletex) and Teletext

Cybernex Limited
Electrohome Limited
Genesys Group Inc.
Norpak Corporation
Pachena Scientific & Industrial Electronics Inc.
Perle Systems Ltd.
Videoway

Wave Soldering

Dualtec Electronics
Electrovert Ltd.

B. Components

Batteries

Ballard Technologies Corp.
CTS of Canada, Limited
Duracell Inc.
GNB Batteries (Canada) Inc.
MOLI Energy Ltd.
TPK Solar Systems Inc.

Cables, Including Wire and Harnesses

Allied Amphenol Products
Andrew Antenna Company Ltd.
Boston Insulated Wire Limited
C-Tech Ltd.
Cable Assembly Systems Ltd.
Canada Wire and Cable Limited
Carriere Technical Industries Inc.
Communication Devices Inc.
Electro Rubber Ltd.
Esmond Manufacturing Inc.
Interface Technologies Inc.
Norsat International Inc.
Phillips Cables Ltd.
Pirelli Cables Inc.
Shawflex Inc.
Sperry Inc., Aerospace and Marine Group
Zavitz Technology Inc.

Capacitors

Aerovox Canada Ltd.
Mallory Components
Murata Erie North America Ltd.
Quality Communication Products (1979) Ltd.

Ceramics

Almax Industries Ltd.
GEC Canada Ltd.

Coils AF, IF, RF

Canadian Marconi Company
Eramosa Technology Corp.
Hammond Manufacturing Co. Ltd.
L.H. Frost Limited
McNeill Electronics Ltd.
Quality Communication Products (1979) Ltd.
S.G. Smallwood Limited

Connectors

Allied Amphenol Products
B&L Coaxial Connections Ltd.
Boston Insulated Wire Limited
Burndy Inc.
Cable Assembly Systems Ltd.
Communication Devices Inc.
Compar Connectors, Div. of DGW Electronics Corporation
EDAC Inc.
Engelhard Industries of Canada Ltd.
ICC Canada, Subsidiary of the SDW Computer Group Ltd.
ITT Cannon Canada
Murata Erie North America Ltd.
Renfrew Electric Co. Ltd.

Controls Motor, Steer, etc.

Beel Electronics Inc.
Engelhard Industries of Canada Ltd.
GEC Canada Ltd.
Marine Safe Electronics of Canada Ltd.
Thermetic Controls, Div. of the Canadian Corporate Management Co.
Thomson Technology Inc.
Vansco Electronics Ltd.
Westinghouse Canada Inc.

Crystal Ovens

C.R. Snelgrove Company, Div. of Leigh Instruments Ltd.
Engelhard Industries of Canada Limited

Crystals, Crystal Oscillators

C.R. Snelgrove Company, Div. of Leigh Instruments Ltd.
Croven Crystals Ltd.
CTS of Canada, Limited
Manutronics Division of Microtel Ltd.
Philips Electronics Ltd.

Displays LED and Liquid Crystal

Audor Communications Inc.
Data Images, Inc.
Optotek Ltd.

Electronic Hardware

Acrolab Instrument Ltd.
Audor Communications Inc.
B&K Industries Ltd., Vacuum Platers Inc.
Burndy Inc.
Cable Assembly Systems Ltd.
Collison-Goll Limited
Communication Devices Inc.
Comptec International Ltd.
Electro Rubber Ltd.
Engelhard Industries of Canada Ltd.
Hammond Manufacturing Co. Ltd.
ITT Cannon Canada
Main Prototypes Ltd.
Shawflex Inc.
Sperry Inc., Aerospace and Marine Group
Stegg Limited
Thomson Technology Inc.
Viewscan Ltd.

Films

Amber Electro Design Inc.
Anatek Microcircuits Inc.
Apollo Microwaves Ltd.
C-Tech Ltd.
C.R. Snelgrove Company, Div. of Leigh Instruments Ltd.
C.V.D.S. Inc.
Com Dev Ltd.
Filtran Ltd.
L.H. Frost Limited
Mitec Electronics
Murata Erie North America Ltd.
Sinclair Radio Laboratories Ltd.
TIL-TEK Manufacturing Inc.
Tycor Electronic Products Ltd.

IC and PCB artwork

Digital Graphics, Div. of Helix Circuits Inc.
Graphico Electronics Group
Precision Photomask Inc.

Insulators

GEC Canada Ltd.
Racal-Decca Canada Inc.
Insulators Division

Laminates for PCBs

Polyply (Canada) Limited

Laminations

Magnetic Metals Ltd.

Leadframes

Allotropac Inc.

Loudspeakers

CTS of Canada, Limited
Global Sound Systems Ltd.

Magnetic Tapes and Disks

Didak Manufacturing Limited
Saturn Disq Inc.

Metal Parts, Cabinets, etc.

Amnicon Corporation
Audur Communications Inc.
B&K Industries Ltd., Vacuum
Platers Inc.
Collison-Goff Limited
CTS of Canada, Limited
Hammond Manufacturing Co. Ltd.
Inventronics Limited
Lanpar Technologies Inc.
Main Prototypes Ltd.
THA Technical Industries Ltd.
W.C. Pursley Limited

Meter Components

GEC Canada Ltd.
Pacific Meter Inc.
Westinghouse Canada Inc.

Microcircuits

Anatek Microcircuits Inc.
Bolriet Technologies Inc.
Calmos Systems Inc.
Canadian Marconi Company
Canadian Thermostats and
Control Devices Ltd.
Circo-Craft Company Inc.
Epitek International Inc.
Garrett Canada
Linear Technology Inc.
Mitel Corporation
Norsat International Inc.
Optotek Ltd.
Pacific Microcircuits Ltd.
Precision Photomask Inc.
Siltronics Ltd.
TPK Solar Systems Inc.

Microcircuit Materials
and Wafers, etc.

Cominco Ltd., Electronic
Materials Division
OMVPE Technologies Inc.

Microwave and TV Tubes

Mitsubishi Electronics Industries
Canada Inc.
Varian Canada Microwave
Division

Microwave Components

Almax Industries Ltd.
Andrew Antenna Company Ltd.
Apollo Microwaves Ltd.
Bolriet Technologies Inc.
Canadian Marconi Company
Com Dev Ltd.
Danex Microwave Inc.
Manutronics Division of
Microtel Ltd.
Mitec Electronics
SED Systems Inc.
Varian Canada Microwave
Division

Motors: Sub-fractional
Horsepower

Electrohome Limited
Engelhard Industries of
Canada Limited
Mallory Components
Nevatronics of Canada Ltd.

Presentey Engineering Products
Limited
TPK Solar Systems Inc.

Optoelectronics

Canadian Instrumentation and
Research Ltd.
Data Images, Inc.
George Kelk Limited
Nova Scotia Research
RCA Inc.
Silonex Inc.
Viewscan Ltd.

Packaged Electronic
Circuits

Allotropac Inc.
Anatek Microcircuits Inc.
Audur Communications Inc.
C.L. Computer Logics Ltd.
Calmos Systems Inc.
Canadian Marconi Company
Comptec International Ltd.
Dualtec Electronics
Epitek International Inc.
Manutronics Division of
Microtel Ltd.
Norsat International Inc.
Pacific Meter Inc.
Renfrew Electric Co. Ltd.
Tech-Rep Electronics Ltd.
Tektron Equipment Corp.
Thomson Technology Inc.
TRW Canada Ltd., Carr Division
Appliance Product Group
Vansco Electronics Ltd.

Plating

B&K Industries Ltd., Vacuum
Platers Inc.
Canadian Marconi Company
Cramco Solder Alloys, Div. of
Hanson Inc.
Engelhard Industries of
Canada Limited

Potentiometers

CTS of Canada, Limited
Mallory Components
Precision Electronic
Components Limited

Powdered Iron and Ferrite Components

GEC Canada Ltd.
L.H. Frost Limited
Neosid (Canada) Ltd.

Printed Circuit Boards

Allctropac Inc.
C.L. Computer Logics Ltd.
Camptech Circuits Inc.
Canadian Marconi Company
Circo-Craft Company Inc.
Circuit Graphics Ltd.
Crest Circuit Co. Ltd.
CTS of Canada, Limited
Digital Graphics, Div. of Helix Circuits Inc.
Dualtec Electronics
Dynamic Circuits Corporation Ltd.
Electrohome Limited
Garlin Design & Manufacturing Ltd.
GEC Canada Ltd.
Graphico Electronics Group
Hamilton Engraving Co. Ltd.
Helix Circuits Inc.
ITL Circuits Ltd.
Konar Ltd.
Lazer-Tech Limited
Manutronics Division of Microtel Ltd.
PC World, Div. of Helix Circuits Inc.
Planar Circuits — Electrohome Ltd.
Pulsar Circuits Inc.
Quality Circuits Manufacturing Ltd.
Sperry Inc., Aerospace and Marine Group
Sterling Circuits Inc.
Tektron Equipment Corp.
Zavitz Technology Inc.

Prototypes and Model Making

Main Prototypes Ltd.

Rectifiers

GEC Canada Ltd.

Relays

Dualtec Electronics
GEC Canada Ltd.
L.H. Frost Limited
Manutronics Division of Microtel Ltd.
Renfrew Electric Co. Ltd.
Thomson Technology Inc.

Resistors

CTS of Canada, Limited
Electronic Hardware Specialties Ltd.
GEC Canada Ltd.
Quality Communication Products (1979) Ltd.
Racal-Decca Canada Inc., Insulators Division
Renfrew Electric Co. Ltd.

Sensors

Almax Industries Ltd.
Canadian Thermostats and Control Devices Ltd.
Dicon Systems Limited
Dualtec Electronics
Enercorp Instruments Ltd.
Focal Marine Limited
George Kelk Limited
Sepcor Engineering Inc.

Seruos and Synthesizers

Novatronics of Canada Ltd.

Solder and Fluxes

Cramco Solder Alloys, Div. of Hanson Inc.
Dualtec Electronics
Engelhard Industries of Canada Limited
Sperry Inc., Aerospace and Marine Group
TPK Solar Systems Inc.

Switches

Canadian Thermostats and Control Devices Ltd.
Communication Devices Inc.
Comptec International Ltd.
CTS of Canada, Limited
Dualtec Electronics

Engelhard Industries of Canada Limited
Mallory Components
Sepcor Engineering Inc.

Tachometer Generators

Beel Electronics Inc.
Novatronics of Canada Ltd.

Telephone Components

Communication Devices Inc.
Comptec International Ltd.
Engelhard Industries of Canada Limited
Manutronics Division of Microtel Ltd.
Mitel Corporation
Palco Telecom Ltd.

Transducers

Almax Industries Ltd.
C-Tech Ltd.
George Kelk Limited
Westinghouse Canada Inc.
Wodex Technology Incorporated

Transformers and Inductive Components

Broy Engineering Ltd.
C-Tech Ltd.
C.V.D.S. Inc.
Electronic Craftsmen Ltd.
Engelhard Industries of Canada Limited
Eramosa Technology Corp.
Filtran Ltd.
Hammond Manufacturing Co. Ltd.
ILP Manufacturing Inc.
L.H. Frost Limited
Lazare Electronics
Mallory Components
McNeill Electronics Ltd.
Neosid (Canada) Ltd.
Quality Communication Products (1979) Ltd.
Racal-Decca Canada Inc., Insulators Division
S.G. Smallwood Limited
TIL-TEK Manufacturing Inc.
Tycor Electronic Products Ltd.

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