

D2.1.4 PROM Memory Module

The memory module can be used for off-line storage of software and pre-defined data. It is organized in 16-bit words and contains up to 128K bytes of power-strobed PROM memory per module.

D2.1.5 Manager Module

The manager module generates sequential module power on/off commands, maintains subsystem status information, and provides autonomous operation of SOMM to the extent required by a mission.

D2.2 Paxsat Computer Configuration

The Paxsat computer configuration shown in Figure D-1 provides full redundancy (cold) at the module level to permit cross-strapping of modules for reliability purposes. The block diagram of the CPU module is shown in Figure D-2.

The CPU memory required to execute the tasks described in section 1.2 is summarized below:

FUNCTION	ROM (bytes)	RAM (bytes)
Bootstrap	3K	
Executive, C&DH Control		8K
Command Storage		8K
Status Buffer		8K
Support Software		6K
Subsystem Control *		16K
Selftest		2K
Spare	1K	12K
TOTAL	4K	60K

* Including attitude/thermal/power control, and mission-unique functions

The memory size assigned to the PROM memory module, which is powered during program load only, is 64K bytes.