

# SIGNET Availability V2

## Sparing Considerations

Sparing estimates begin with an availability objective and with known FIT rate, repair rate, and population the sparing level can be determined.

	Objective		MTTF (mth)	MTTR (hrs)	Population	Spares	% Spares
	Outage	hrs/mth					
MITNet Core	0.25	99.97%	60	2	1	N/A	N/A
MITNet Leaf	6	99.18%	4	4	120	N/A	N/A
Router core	0.25	99.97%	24	2	6	2	33%
Router leaf	2	99.73%	36	24	120	40	33%
Bridge	2	99.73%	36	24	20	7	33%
Concentrator	2	99.73%	36	24	660	219	33%
Router - Mitnet Series Cabling	0.25	99.97%	60	2	126	17	13%
UTP Series Cabling	0.25	99.97%	60	2	10000	1333	13%
Mission Power	0.5	99.93%	6	1	120	N/A	N/A
HQ Power	0.25	99.97%	6	0.25	1	N/A	N/A
Generic Device	7.5	98.97%	24	4	100	2	2%