



Technical Bulletin

Nortel Business Communications Manager

System and component reliability indicators

The table on the right provides an estimate of the failure rates of the Nortel Business Communications Manager (BCM) systems and modules. The failure rates are expressed in Mean Time Between Failures (MTBF) in hours and in years, as well as an annualized percentage (%/year). These figures allow service plans and sparing strategies to be set.



BCM reliability indicators

Description	MTBF (hours)	MTBF (years)	Failure rate (%/year)
BCM400 Base System: 0x0 with Motherboard, CPU, RAM, HDD, PS, Cooling Fan. With 2 MSPEC packs	397,761	45.5	2.2%
BCM200 Base System: 0x0 with Motherboard, CPU, RAM, HDD, PS, Cooling Fan. With 1 MSPEC pack	436,226	49.9	2.0%
BCM Expansion Cabinet: 0x0 with HUB, PS, Cooling Fan.	2,168,016	248.0	0.4%
BCM400 Base System: 0x0 with Motherboard, CPU, RAM, Redn. HDD, Redn. PS, Redn. Cooling Fan. With 2 MSPEC pack	288,486	33.0	3.0%
BCM Expansion Cabinet: 0x0 with HUB, Redn. PS, Redn. Cooling Fan.	1,158,315	132.5	0.8%
BCM50 with power supply	547,249	62.6	1.6%
BCM50a with power supply	382,025	43.7	2.3%
BCM50e with Power supply	482,558	55.2	1.8%
BCM50 Expansion Unit with power supply	2,248,442	257.2	0.4%
BCM400 MSC Media Services Card without MSPEC	1,824,455	208.7	0.5%
BCM200 MSC Media Services Card without MSPEC	1,918,869	219.5	0.5%
4 Port Global Analog Trunk Media Bay Module (GATM4)	3,942,642	451.0	0.2%
8 Port Global Analog Trunk Media Bay Module (GATM8)	2,762,472	316.0	0.3%
COMBO CTM4 and DSM16 single density (COM4X16)	1,232,622	141.0	0.7%

BCM reliability indicators (continued)

Description	MTBF (hours)	MTBF (years)	Failure rate (%/year)
4 Port BRI S/T Media Bay Module (BRI4)	2,456,502	281.0	0.4%
Digital Trunk Media Bay Module (DTM)	3,243,282	371.0	0.3%
R2MFC: E1-R2 MFC Media Bay Module	979,104	112.0	0.9%
16 Stn Digital Station Media Bay Module+ (DSM16+)	3,252,024	372.0	0.3%
32 Stn Digital Station Media Bay Module+ (DSM32+)	1,835,820	210.0	0.5%
8 Stn Analog Station Media Bay Module+ (ASMB+)	1,993,176	228.0	0.4%
8 Stn Global Analog Station Media Bay Module (GASMB)	1,940,724	222.0	0.5%
Digital Drop and Insert MUX Media Bay Module (DDIM)	2,045,628	234.0	0.4%
Fiber Expansion Media Bay Module (FEM)	821,748	94.0	1.1%
BCM Embedded Modem	7,185,924	822.0	0.1%
NA WAN Interface Card (V.35/T-1)	2,771,214	317.0	0.3%
Dual WAN Interface Card (V.35/V.35)	2,771,214	317.0	0.3%
Int'l WAN Interface Card (V.35/X.21)	2,771,214	317.0	0.3%
BCM Universal Power Supply	5,935,818	679.0	0.1%
BCM400 Redundant PS Module, Single	4,318,548	494.0	0.2%
BCM400/1000 Cooling Fan	9,974,622	1,141.0	0.1%
BCM200 Cooling Fan	9,974,622	1,141.0	0.1%
BCM50 Cooling FAN	9,974,622	1,141.0	0.1%
BCM 128 MB Memory Module	21,312,996	2,438.0	0.0%
BCM 256 MB Memory Module	21,312,996	2,438.0	0.0%
BCM Programmed Hard Drive	2,849,892	326.0	0.3%
BCM RAID Controller	4,939,230	565.0	0.2%

Note: Failure rate estimates are calculated using the part count method, per Telcordia SR-332 & MIL-HDBK-217E using Nortel's failure rate database. Figures may be subject to change as additional data becomes available.

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**In the United States:**

Nortel, 35 Davis Drive
Research Triangle Park, NC 27709 USA

In Canada:

Nortel, 8200 Dixie Road, Suite 100
Brampton, Ontario L6T 5P6 Canada

In Caribbean and Latin America:

Nortel, 1500 Concorde Terrace
Sunrise, FL 33323 USA

In Europe:

Nortel
Maidenhead Office Park, Westacott Way
Maidenhead Berkshire SL6 3QH UK
Phone: 00800 8008 9009 or
+44 (0) 870-907-9009

In Asia Pacific:

Nortel
Nortel Networks Centre, 1 Innovation Drive
Macquarie University Research Park
Macquarie Park NSW 2109 Australia
Tel: +61 2 8870 5000

In Greater China:

Nortel, Sun Dong An Plaza
138 Wang Fu Jing Street
Beijing 100006, China
Phone: (86) 10 6510 8000