



On-Call Communications

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Business Communications Manager BCM50 Feature Coverage, EMEA

BCM50 is the newest model in the Nortel Business Communications Manager range, specifically adapted for the small customer site. As with the larger BCM models, the BCM50 has a rich feature set, with an advanced suite of applications and connectivity.

In line with its positioning within the BCM product family, several of the BCM50's capacities and capabilities are less extensive than that of BCM200 and BCM400. If a particular customer site requires capabilities beyond that of BCM50, it is recommended that one of the larger BCM systems be used.

The purpose of the following table is to help identify the differences in capacity and functionality between BCM50 Release 1.0, BCM200 Release 3.6 and BCM400 Release 3.6. Additional comments are indicated for BCM 3.7 enhancements on BCM200 & BCM400.

Description	BCM50	BCM200	BCM400
Chassis			
Digital Station ports on main unit motherboard	12	0	0
Analogue Station ports on main unit (North American analogue only)	4	0	0
Analogue Trunk ports on main unit (North American Loop Start only)	4	0	0
MBM slots in chassis	0	2	4
Support for 6-slot BCM Expansion Unit	N	N	1
Support for 1-slot BCM Expansion Unit	2	N	N
Maximum MBMs supported, including MBMs in Expansion units	2	2	10
Ethernet LAN ports, Switched. *3 on BCM50, 6 on BCM50a and BCM50e	3 or 6*	0	0
Ethernet LAN ports, Connected to Integrated Routed *BCM50a and BCM50e router connects integral Ethernet switch to WAN interface	1*	2	2
Ethernet LAN port, Non-Switched, Non-Routed	1	0	0
Optional Redundant Hard Drives, Power Supplies, Chassis Fans	N	N	Y
Page Output & Page Relay ports	Y	Y	Y
Auxiliary Ringer port	Y	Y	Y
Music Input port	Y	Y	Y
Rack-mount, Wall-mount, and Desk-mount options	Y	Y	Y

Description	BCM50	BCM200	BCM400
Media Bay Modules			
Support for DSM16+ MBM, 16 digital stations	Y	Y	Y
Support for DSM32+ MBM, 32 digital stations	Y	Y	Y
Support for BRI MBM, 4 loops	Y	Y	Y
Support for DTM MBM, 1 loop *Max 3 DTMs per system	Y	Y	Y*
Support for GATM4 MBM, 4 analogue trunks, available for limited markets only	Y	Y	Y
Support for GATM8 MBM, 8 analogue trunks, available for limited markets only	Y	Y	Y
Support for ASM8+ MBM, 8 analogue stations, available for limited markets only	Y	Y	Y
Support for FEM6 MBM, 6 Norstar Expansion modules	N	Y	Y
Support for DECT8 MBM, 8 base stations, 32 handsets	N	Y	Y
Support for DMC-080 DECT Controller, 2 base stations, 8 handsets	N	BCM 3.7	BCM 3.7
Support for DMC-320 DECT Controller, 8 base stations, 32 handsets	N	BCM 3.7	BCM 3.7

IP Terminals			
Maximum IP Clients *BCM200/400 maximum is subject to engineering rule	32	90*	90*
Support for i2001, i2002, i2004	Y	Y	Y
Support for i2007	N	BCM 3.7	BCM 3.7
Support for i2050, for Windows PC	Y	Y	Y
Support for i2050mvc, for Pocket PC	N	Y	Y

Digital / Analogue Terminals			
Digital telsets M7000, M7100, M7208, M7310, M7324, CAP (post-1993)	Y	Y	Y
Digital telsets N7100, N7208, N7310, N7324, CAP-N	Y	Y	Y
Digital telsets T7000, T7100, T7208, T7316, T7316E, T24	Y	Y	Y
ATA-2 Analogue Terminal Adapter	Y	Y	Y
BST Doorphone	N	Y	Y
Analogue stations on ASM8+ for UK and NA Loop Start markets	Y	Y	Y
Analogue stations on ASM8+ for Poland	N	BCM 3.7	BCM 3.7
ISDN S-Loops on BRI MBM	Y	Y	Y

Wireless Terminals			
DECT Handsets C4010, C4010Ex, C4020, C4050 *Only with DECT-MBM system	N	Y*	Y*
DECT Handsets 4135, 4145, 4145Ex *Only with DMC-080 or DMC-320 system	N	BCM 3.7	BCM 3.7
Nortel WLAN VoIP Handsets 2210, 221 *Must use WLAN 2245 IP Telephony Manager	N	Y*	Y*
Symbol WLAN VoIP Handsets, Netvision Phone, Netvision Data Phone	N	Y	Y

IP Trunks			
VoIP Trunks *BCM200/400 maximum is subject to engineering rules	12	60*	60*
H.323 VoIP trunks	Y	Y	Y
SIP trunks	N	Y	Y
Codecs G.711, G.729	Y	Y	Y
Codec G.723	N	Y	Y
MCDN over H.323	Y	Y	Y
T.38 Fax	Y	Y	Y
ITG 3.01 Interoperability	Y	Y	Y
CS1K Rls 3.0 Interoperability, Gateway & Gatekeeper	Y	Y	Y
CS1K Rls 4.0 Interoperability, Gateway & Gatekeeper	Y	Y	Y
CS2K SN07 Interoperability, Gateway & Gatekeeper	Y	Y	Y
CS2K SN08 Interoperability, Gateway & Gatekeeper	N	BCM 3.7	BCM 3.7

Description	BCM50	BCM200	BCM400
IP Trunks cont'd			
Radvision Gatekeeper ECS 3.2	N	Y	Y
Quality of Service in Gateway, VoIP packet tagging using DSCP	Y	Y	Y
TDM Trunks			
ETSI BRI – Euro ISDN2e	Y	Y	Y
ETSI PRI – Euro ISDN30	Y	Y	Y
DPNSS	Y	Y	Y
DASS2	Y	Y	Y
MCDN on PRI	Y	Y	Y
ETSI Q.SIG, on BRI and PRI	Y	Y	Y
Analogue, Loop Start, North America (via MBM)	Y	Y	Y
Analogue, Loop Start, North America (on Main Unit)	4	N	N
Analogue, Loop Start, UK (via MBM)	Y	Y	Y
Analogue, Loop Start, Poland (via MBM)	N	BCM 3.7	BCM 3.7
Voice Applications			
Maximum combined voice ports (channels) available for Auto Attendant, Custom Call Routing, Voicemail, Call Centre & Fax *BCM200/400 maximum is subject to engineering rules	10	32*	32*
Auto Attendant, Greeting Tables	4	4	4
Custom Call Routing, CCR Trees	8	8	8
CallPilot Voicemail, maximum mailboxes	1000	1000	1000
Unified Messaging Clients *If more than 100 UM clients, BCM200/400 requires 256MB RAM upgrade	50	200*	200*
Audio prompt languages, EMEA: English, French, Spanish, Italian, German, Dutch, Danish, Norwegian, Swedish	Y	Y	Y
Audio prompt languages, EMEA: Russian, Arabic, Hebrew	Y	BCM 3.7	BCM 3.7
Telset display prompt languages, available in EMEA PBX core profiles: English, French, Spanish, Italian, German, Dutch, Danish, Norwegian, Swedish, Turkish, Portuguese (Brazilian)	Y	Y	Y
CallPilot client support for MAPI and IMAP clients	Y	Y	Y
CallPilot Fax Messaging, max 2 ports	Y	Y	Y
CallPilot Fax Overflow, max 2 ports	Y	Y	Y
CallPilot Fax-On-Demand, max 2 ports	Y	Y	Y
Message Networking VPIM & AMIS	Y	Y	Y
Basic Call Centre, 2 skillsets, 10 agents	Y	Y	Y
Professional Call Centre, 50 skillsets, max 80 agents	N	Y	Y
Call Centre Reporting, Real-time, Historical	N	Y	Y
Call Centre Wallboards (supplied by 3rd party)	N	Y	Y
Multimedia Call Centre	N	Y	Y
Microsoft TAPI 2.1 support	Y	Y	Y
Nortel LAN-CTE support	Y	Y	Y
Personal Call Manager TAPI app supplied	Y	Y	Y
Periphonics IVR Runtime Engine, maximum 24 voice channels	N	Y	Y
IP Music & BCM Amp	N	Y	Y
Mailbox Manager	N	Y	Y
Operator Manager	N	Y	Y
CDR File FTP Push & Pull	Y	Y	Y
CDR real-time call info over IP	Y	Y	Y

Description	BCM50	BCM200	BCM400
Data Interfaces & Applications			
WAN interface card, X.21 port + V.35 port, optional, field-installable	N	Y	Y
WAN interface card, 2 x V.35 ports, optional, field-installable	N	Y	Y
Frame Relay & PPP, available on X.21 and V.35 WAN ports	N	Y	Y
ADSL WAN interface (Annex A, G.Lite) *Available on BCM50a only	Y*	N	N
Ethernet PPPoE WAN interface *Available on BCM50a and BCM50e models only, and on BCM200 and BCM400 as keycode-enabled option. One port only.	Y*	Y*	Y*
IP Router	Y†	Y	Y
Routing Protocols, RIP & RIP2 & Static Routes	Y†	Y	Y
Routing Protocol OSPF	N	Y	Y
Firewall, with stateful packet filtering	Y†	Y	Y
Network Address Translation, for PCs	Y†	Y	Y
Network Address Translation, for IP sets	N	Y	Y
Quality of Service Packet Prioritisation in router, DSCP	N	Y	Y
VLAN tagging	N	Y	Y
NetLink Manager, WAN fallback to PSTN dialup	N	Y	Y
ISDN PPP Dialup, MLPPP – max 16 channels	N	Y	Y
Analogue PPP dialup, on integrated soft modem	Y	N	N
Analogue PPP dialup, on hardware modem	N	Y	Y
Maximum IPSec VPN Tunnels	5†	16	16
- Branch Office IPSec Tunnels	Y†	Y	Y
- Client IPSec Tunnels	N	Y	Y
Maximum WAN throughput	5 Mbps†	8 Mbps	8 Mbps
Maximum combined encrypted tunnel throughput	1.5 Mbps†	6 Mbps	6 Mbps
Maximum PPTP Tunnels	N	20	20
DHCP Client	Y	N	N
DHCP Server (for IP Sets and PCs)	Y	Y	Y
DHCP Relay Agent	Y	Y	Y
Web Proxy / Cache	N	Y	Y
DNS Proxy	Y†	Y	Y
DNS Cache	N	Y	Y
Dynamic DNS † Available on BCM50a and BCM50e models only	Y†	N	N

Management			
Unified Manager	N	Y	Y
Element Manager	Y	N	N
Network Configuration Manager (NCM) support	Y	Y	Y
Management connectivity via ISDN Dialup	N	Y	Y
Management connectivity via Analogue Dialup	Y	Y	Y
SNMP	Y	Y	Y
USB 1.1 port for Memory stick for boot-up configuration, keycode files, backup, etc.	Y	N	N
Serial port interface, for limited programming	N	Y	Y
Telset-based programming	Y	N	N

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