

5 Minute Guide

A guide to configuring the BCM 400

Capacity: 192 Digital, 90 IP User, Up to 3 x PRI, 36 x BRI, 72 Analogue trunks*

*Subject to engineering rules

Stage 1: Select a BCM 400 starter pack

The BCM 400 is designed to be configured using starter bundles, then grown using expansion bundles, trunks added, handsets added and finally any additional licenses. The BCM 400 has 4 universal slots on the main CPU and an additional 6 on an optional expansion chassis.

	Number of Digital Users	Number of IP Users	Voice mail users	UM Users	Fax to email	ICC Agents	Call Centre Reports	TAPI Users
NTE801CV-32 User Voice Messaging	32	0	32	0	No	0	No	0
NTE801AJ- 32 User Person. Productivity	32	0	32	32	Yes	0	No	0
NTE801AM-32 user	32	0	32	0	No	10	Yes	32

Each bundle should be selected to best fit your customers need, but note it is more cost effective to over spec a bundle rather than under spec and add licenses later. For example, there are a number of BCM bundles, some of the more popular BCM 400 bundles are listed above. If a customer wants 25 users with voicemail, then they select the bundle NTE801CV and if they want UM and Fax as well then select NTE801AJ. If a customer wants an advanced call centre it is best to buy one of the starter bundles with basic call centre i.e. NTE801AM then upgrade to advanced with an upgrade license



BCM 400 Main Unit

Stage 2: BCM 400 Expansion Bundles

The BCM 400 user capacity can be increased using expansion bundles, like the starter bundles these are clearly named to identify the content of the starter bundles. They include the appropriate extn card, MDF cables, and software licenses to match the features of the starter bundle. For details of other BCM 400 bundles please refer to the full RRP price list.

Stage 3: Expanding the BCM 400 without expansion bundles

Expansion Bundles	Digital Users	Number of IP User	Voicemail Users	UM Users	TAPI Users
NTE801CT-16 User Voicemail	16	0	16	0	0
NTE801CU-32 user Voicemail	32	0	32	0	0
NTE801AS-32 user Personal Productivity	32	0	32	32	32

The BCM 400 CPU has 4 slots with any further expansion requiring a single BCM Expansion Chassis below. The chassis provides another 6 slots and contains one of the DS256 link cables that connect it back to the main unit.

- NT7B14AAAKE5 BCM Expansion Chassis, Universal PS (Max 1 per BCM 400)
- N0119935 Power Cord (1 per expanded chassis)
- NTAB3304E5 EE DS256 Link Cable



Expansion Chassis

Further digital extensions can be added with the following Digital Media Bay Modules (Extension cards.) However unlike the bundles these cards do not include MDF cables which wire the extensions to a patch or wiring block. As the pictures below show the DSM 16 has 1 connection and thus requires 1 cable, while the DSM 32 has 2 connections and requires 2 cables.

- NT7B08AAALE5 BCM DSM16+ 16 Digital Media Bay Module
- NT7B09AAADE5 BCM DSM32 + 32 Digital Media Bay Module Max 6 per system
- N0114513 MDF Cable Single End 25ft 1 per DSM 16, 2 per DSM 32

DSM32



Stage 4: Configuring analogue users

The BCM 400 is biased to being deployed as an IP or Digital solution. The ASM 8 (8 port analogue extn card) can be added in any of the media slots. Analogue Terminal Adaptor's (ATA's) can be used to convert digital ports, but watch the cost as an 8 extn ASM will typically work out cheaper per port. However, don't forget to consider the cost of the expansion cabinet if this is required to house the ASM 8.

NT5B16AAAJE5	BCM ASM8+ Analogue Station Module (8 Analogue extns)
N0114513	MDF Cable Single End 25ft (Required 1 per ASM8)
NT8B90AAAE6	Analogue Terminal Adaptor (ATA) (converts 1 x digital to Analogue)
N0119935	Power Cord (Required 1 per ATA)



ASM8+

Stage 5: Adding Trunks

The BCM 400 can have a mix of Alog, BRI, and PRI trunks. As with most platforms if a slot is taken up by a trunk card, then this decreases the capacity for extensions.

NT5B04AAAE5	Digital Trunk Module (1 x PRI, max 3 per system, 1 x RJ45)
NT7B76AAAE5	BRI S/T Media Module (4 BRI/8 lines, max 9 per system, 4 x RJ 45 connections)
NT5B44BAABE5	4 Port Alog Trunk Media Module (max 9 per system, requires 1 x MDF cable)
NT5B44AAABE5	8 Port Alog Trunk Media Module (max 9 per system, requires 1 x MDF cable)



GATM8

Stage 6: Adding features with licenses

All the BCM applications such as voicemail, unified messaging, call centre and fax, are added via licenses. Voicemail is per user, Unified Messaging (UM) is per user, Intelligent Call Centre is per user and skill set. Fax is a single site license but users need a UM license each to receive fax-to-email.

Stage 7: BCM 400 and IP Users

The 400 can be purchased as an IP system using one of the IP starter bundles, in this case additional users are added simply with IP client licenses. The BCM 400, like the rest of the range, can support a mix of IP and TDM extensions and remaining slots can be used to support analogue devices with ASM 8s.

The following licenses are required to add IP users to a BCM 400, then IP hard phones can be added or soft phones. Where soft phones are also licenced per seat, plus you will need a copy of the CD pack to load the client software.

IP Client Licenses

NTKC0046	IP Telephony client 1 s/w code
NTKC0047	IP Telephony client 4 s/w code
NTKC0048	IP Telephony client 8 s/w code

Soft phone Hardware

NTDW83BA	i2050 Software Telephone Client CD Pack (1 per system)
NTEX14MAE6	USB Audio Adapter (Headset not included) (1 per user)
NTEX14MBE6	USB Audio Kit DuraPlus Monaural Headset (1 per user)



1140 IP Phone

Stage 8: Adding TDM and IP Handsets

Adding handsets to the BCM 400 is simple and requires the selection of the correct handsets from the following parts.

Digital Phones			
NT8B24AAAAE6	T7000 Charcoal	NT8B26AABLE6	T7208 Charcoal
NT8B25AABLE6	T7100 Charcoal	NT8B27JAAAE6	T7316E Charcoal
NT8B29AAAAE6	24 Button Key Expansion Module	RJ11-PSTN-3M	BT Plug Cable for T7xxx range
IP Phones			
NTYS02AAE6	IP Phone 1110	NTDU90AC70E6	i2001 IP Hardphone
NTYS03ACE6	IP Phone 1120	NTDU91AC70E6	i2002 IP Hardphone
NTYS05ACE6	IP Phone 1140	NTDU92AC70E6	i2004 IP Hardphone
NTYS08AAE6	IP 1100 Key Expansion Module	NTYS17BAE6	IP Phone 200* /1100 & 1200 series Global Power Supply (purchase separate power cord N0119935)

The above digital handsets all come with RJ11 to RJ11 cords, therefore customers wishing to plug the handsets into BT style sockets the following part must be ordered on a per handset basis (RJ11-PSTN-3M). Where RJ 45 connections are required the above can be converted using a converter.