

Cisco Model DPC3000 DOCSIS 3.0 Cable Modem

The Cisco® Model DPC3000 DOCSIS® 3.0 Cable Modem (DPC3000) provides DOCSIS broadband service providers with a cost-effective solution for delivering high-speed bi-directional data services. The DPC3000 provides a faster connection to the Internet by incorporating four bonded downstream channels along with four bonded upstream channels. These bonded channels deliver downstream data rates in excess of 160 Mbps and upstream data rates up to 120 Mbps, up to four times faster than conventional single-channel DOCSIS 2.0 cable modems.¹

The DPC3000 is designed to meet DOCSIS 3.0 specifications as well as offering backward compatibility for operation in DOCSIS 2.0, 1.1 and 1.0 networks.

The DPC3000 also features WebWizard, a browser-based user interface. WebWizard is a powerful tool that facilitates installation and troubleshooting and eliminates the need to load set-up software on the customer premises equipment (CPE).

Figure 1. Cisco Model DPC3000 DOCSIS 3.0 Cable Modem



Features

DOCSIS

- Four (4) bonded channels with total throughput in excess of 160 Mbps
- Designed to meet DOCSIS 3.0 specifications as well as backward compatibility with existing DOCSIS 2.0, 1.1 and 1.0 networks
- Enhanced packet processing technology to maximize performance
- Dual-color DS LED to indicate channel bonded and non-channel bonded operation
- Color-coded connectors and cables for easy installation and setup

¹ Channel Bonded cable modems must be used in conjunction with CMTSs that support Channel Bonded bonding per the DOCSIS 3.0 specifications. When used with non-Channel Bonded CMTSs, Channel Bonded cable modems function as a conventional DOCSIS 2.0 cable modems.

Connections

- Bridged 1000/100/10 Mbps Ethernet port with Auto-negotiate and Auto-MDIX and USB 2.0 data port
- Support for up to 64 users (1 USB port user and up to 63 users on user-supplied Ethernet hubs)

Design and Function

- Attractive compact design and versatile orientation to stand vertically, lie flat on the desktop or shelf, or mount easily on a wall
- LED status indicators on the front-panel provide an informative and easy-to-understand display that indicates the cable modem operational status and real-time data transmission activity
- Rugged electronic components for long-term reliability

Management

- Software upgradeable by network download
- Remote manageability using SNMP V1/V2 and V3

Software and Documentation

- CD-ROM containing user guide and USB driver installation software for Microsoft Windows Vista, Windows XP, and Windows 2000 operating systems

Figure 2. Cisco Model DPC3000 DOCSIS 3.0 Cable Modem Front Panel



Table 1. Front Panel Features

Feature	Description
Indicators	POWER, DS, US, ONLINE, LINK
Color	Black textured, black face plate, silver text, green LEDs
Branding	Cisco and model number

Figure 3. Cisco Model DPC3000 DOCSIS 3.0 Cable Modem Back Panel



Table 2. Back Panel Features

Feature	Description
POWER Connector Color: Black	Connects modem to the DC output of the AC power adapter
ETHERNET Connector Color: Yellow	(1) RJ-45 Ethernet port connects to the Ethernet port on your PC or your home network
USB Connector Color: Blue	(1) Type 2 USB 2.0 port connects to a USB port on your PC
REBOOT	Power cycles the cable modem
MAC ADDRESS LABEL	Lists the MAC Address of the cable modem
CABLE Connector Color: White	F-connector connects to an active cable signal from your service provider

Ordering Information

Table 3. Ordering Information

Description	
5-42/88-1002 MHz Diplex Filter	Part Number
DPC3000 DOCSIS 3.0 Cable Modem for North America: <ul style="list-style-type: none"> • GigE port • USB 2.0 port Includes: <ul style="list-style-type: none"> • 12 VDC/1A, 100-120 VAC / 50-60 Hz, desktop style linear-switching power supply • Ethernet cable • USB cable • CD-ROM with User Guides and USB drivers North America	4027667

Description	
<p>DPC3000 DOCSIS 3.0 Cable Modem for North America:</p> <ul style="list-style-type: none"> • GigE port • USB 2.0 port <p>Includes:</p> <ul style="list-style-type: none"> • 12 VDC/1A, 100-240 VAC / 50-60 Hz, desktop style switching regulated power supply with detachable power cord • Power cord, detachable, Brazil • Ethernet cable • USB cable • CD-ROM <p>Brazil</p>	4029776
<p>DPC3000 DOCSIS 3.0 Cable Modem for North America:</p> <ul style="list-style-type: none"> • GigE port • No USB port <p>Includes:</p> <ul style="list-style-type: none"> • 12 VDC/1A, 100-120 VAC / 50-60 Hz, desktop style linear-switching power supply • Ethernet cable • CD-ROM <p>North America – Customer-specific configuration</p>	4028836
<p>DPC3000 DOCSIS 3.0 Cable Modem for Korea</p> <ul style="list-style-type: none"> • GigE port • No USB port <p>Includes:</p> <ul style="list-style-type: none"> • 12 VDC/1A, 220 VAC / 50-60 Hz, wall-mount style linear-switching power supply for Korea • Ethernet cable • CD-ROM <p>Korea</p>	4021388
<p>DPC3000 DOCSIS 3.0 Cable Modem for Australia</p> <ul style="list-style-type: none"> • International frequency plan • GigE port • USB 2.0 port <p>Includes:</p> <ul style="list-style-type: none"> • 12 VDC/1A, 230 VAC / 50-60 Hz, wall-mount style linear-switching power supply for Australia • Ethernet cable • USB cable • CD-ROM <p>Australia</p>	4021389

Description	
5-65/88-1000 MHz Diplex Filter	Part Number
<p>DPC3000 Channel Bonded Cable Modem for International tuning plan. Includes:</p> <ul style="list-style-type: none"> • GigE port • USB 2.0 port <p>Includes:</p> <ul style="list-style-type: none"> • 12 VDC/1A, 230 VAC / 50-60 Hz, wall-mount style linear-switching power supply • Data cable, Ethernet • Data cable, USB • CD-ROM with User Guide and USB drivers <p>Europe</p>	4029166

Description	
<p>DPC3000 Channel Bonded Cable Modem for North American NTSC tuning plan. Includes:</p> <ul style="list-style-type: none"> • GigE port • No USB 2.0 port <p>Includes:</p> <ul style="list-style-type: none"> • 12 VDC/1A, 100-120 VAC / 50-60 Hz, desktop style linear-switching power supply • No data cables • Printed Japanese user guide (Customer specific) <p>Japan – Importer and customer specific configuration</p>	4028585
<p>DPC3000 Channel Bonded Cable Modem for North American NTSC tuning plan. Includes:</p> <ul style="list-style-type: none"> • GigE port • No USB 2.0 port <p>Includes:</p> <ul style="list-style-type: none"> • 12 VDC/1A, 100-120 VAC / 50-60 Hz, wall-mount style linear-switching power supply • Data cable, Ethernet, 2 meters • Printed Japanese user's guide (generic) <p>Japan – Importer-specific configuration</p>	4029167
<p>DPC3000 Channel Bonded Cable Modem for North American NTSC tuning plan. Includes:</p> <ul style="list-style-type: none"> • GigE port • No USB 2.0 port <p>Includes:</p> <ul style="list-style-type: none"> • 12 VDC/1A, 100-120 VAC / 50-60 Hz, wall-mount style linear-switching power supply • No data cables • Printed Japanese user's guide (generic) <p>Japan – Importer-specific configuration</p>	4028586
<p>DPC3000 Channel Bonded Cable Modem for Korean tuning plan. Includes:</p> <ul style="list-style-type: none"> • GigE port • No USB 2.0 port <p>Includes:</p> <ul style="list-style-type: none"> • 12 VDC/1A, 100-120 VAC / 50-60 Hz, desktop style linear-switching power supply • Data cable, Ethernet, 2 meters • Printed Korean user guide <p>Korea</p>	4029777
<p>DPC3000 Channel Bonded Cable Modem for Korean tuning plan. Includes:</p> <ul style="list-style-type: none"> • GigE port • No USB 2.0 port <p>Includes:</p> <ul style="list-style-type: none"> • No AC Power supply • Data cable, Ethernet, 2 meters • Printed Korean user's guide <p>Korea</p>	4029778

Description	
5-85/108-1000 MHz Diplex Filter	Part Number
<p>DPC3000 Channel Bonded Cable Modem for International tuning plan. Includes:</p> <ul style="list-style-type: none"> • GigE port • No USB 2.0 port <p>Includes:</p> <ul style="list-style-type: none"> • No AC power supply • Data cable, Ethernet, 2 meters • Printed Korean user guide <p>Korea – Customer-specific configuration</p>	4029779

Replacement Components

Table 4. Replacement Components

AC Power Supplies	Part Number
<i>Linear Switching, Class 2</i>	
100-120 VAC / 50-60 Hz, 12 VDC/1A desktop style linear-switching power supply for North America and Japan	4020982
100-120 VAC / 50-60 Hz, 12 VDC/1A wall-mount linear-switching power supply for North America and Japan (ICS importer markings)	4015452
100-120 VAC / 50-60 Hz, 12 VDC/1A wall-mount linear-switching power supply for North America and Japan (NOS importer markings)	4020519
220 VAC / 50-60 Hz, 12 VDC/1A wall-mount linear-switching power supply for Argentina	4015457
220 VAC / 50-60 Hz, 12 VDC/1A wall-mount linear-switching power supply for Korea	4015458
230-240 VAC / 50-60 Hz, 12 VDC/1A wall-mount linear-switching power supply with Euro plug	4015453
230-240 VAC / 50-60 Hz, 12 VDC/1A wall-mount linear-switching power supply with United Kingdom style plug	4018794
230-240 VAC / 50-60 Hz, 12 VDC/1A wall-mount linear-switching power supply for Australia	4018797
<i>Switching Mode, Class 2</i>	
100-240 VAC / 50-60 Hz, 12 VDC/1A desktop universal switching mode power supply, Class II, C7 AC connector, 2 conductor (power cord not included, order power cord separately)	4009116



Power Cords	Part Number
<i>Class 2</i>	
Power cord, 2 conductor, North America, NEMA 1-15 to C7, non-polarized	1002239
Power cord, 2 conductor, Japan, NEMA 1-15 to C7, non-polarized	207586
Power cord, 2 conductor, European, Euro plug CEE7/16 to C7	503414
Power cord, 2 conductor, United Kingdom, BS1363 to C7	1002798
Power cord, 2 conductor, Brazil Euro plug CEE7/16 to C7, INMETRO	4009115
Power cord, 2 conductor, Korea	4010439
Power cord, 2 conductor, Argentina	4012938
Cables	Part Number
Ethernet cable, standard 1.2 meter length	740580
Ethernet cable, 2 meter	4018790
USB cable	740579
User Guide and USB Drivers	Part Number
CD-ROM with user guide and USB drivers	4023779



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