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Cisco Model DPC3010 DOCSIS 3.0 8x4 Cable Modem

The Cisco® Model DPC3010 DOCSIS 3.0 8x4 Cable Modem (DPC3010) provides DOCSIS® broadband service providers with a cost-effective solution for delivering high-speed bi-directional data services. The DPC3010 provides a faster connection to the Internet by incorporating eight bonded downstream channels along with four bonded upstream channels. These bonded channels deliver downstream data rates in excess of 320 Mbps and upstream data rates up to 120 Mbps, up to eight times faster than conventional single-channel DOCSIS 2.0 cable modems.

The DPC3010 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.

Figure 1. Cisco Model DPC3010 DOCSIS 3.0 Cable Modem (image may vary from actual product and specification)



The DPC3010 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).

Features

DOCSIS

- Eight (8) bonded channels with total throughput in excess of 300 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

Connections

• 1000/100/10BASE-T auto-sensing/auto-MDIX Ethernet port

- USB 2.0 data port (option)
- 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
- Dual color LEDs on the front-panel provide an informative and easy-to-understand display that indicates the cable modem real-time operational status
- Color-coded connectors and cables for easy installation and setup
- · 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 7, Windows Vista, Windows XP, and Windows 2000 operating systems

Cisco Model DPC3010 DOCSIS 3.0 Cable Modem Front Panel (image may vary from actual Figure 2. product and specification)



Table 1. Front Panel Features

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

Figure 3. Cisco Model DPC3010 DOCSIS 3.0 Cable Modem Back Panel (image may vary from actual product and specification)



Table 2. **Back Panel Features**

Feature	Description
POWER Connector Color: Black	Connects modem to the DC output of the AC power adapter
POWER SWITCH (not shown)	Turns power on and off to the device (power switch provided on all products carrying the CE mark)
ETHERNET Connector Color: Yellow	(1) RJ-45 Ethernet port connects to the Ethernet port on your PC or your home network
USB (option) Connector Color: Blue	(1) Type B USB 2.0 port connects to a USB port on your PC
RESET	Power cycles the cable modem
CABLE Connector Color: White	F-connector connects to an active cable signal from your service provider

Product Specifications

 Table 3.
 Product Specifications

Specification	Value					
RF Downstream						
Operating Frequency Range	88 to 1002 MHz or 108 to 1002 MHz					
Tuner Frequency Range	88 to 100	88 to 1002 MHz				
Tuner	(2) Freque	(2) Frequency agile block tuners, 32 MHz bandpass each				
Demodulation	8 demodu	8 demodulators, 4 per tuner, each demodulator; 64 QAM or 256 QAM				
Maximum Data Rate	8 downstream channels, each 6 MHz channel:					
	42.88 Mbps for 256 QAM and 30.34 Mbps for 64 QAM					
Bandwidth	6 MHz					
Operating Level Range	-15 to +1	5 dBmV				
Input Impedance	75 ohms					
RF Upstream						
Operating Frequency Range	5 to 42 M	5 to 42 MHz, 5 to 65 MHz or 5 to 85 MHz				
Transmitter Frequency Range	5 to 42 M	5 to 42 MHz, 5 to 65 MHz or 5 to 85 MHz				
Upstream Transmission	4 upstrea	m channels				
Modulation		QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM at ATDMA mode QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM, 128 QAM at SCDMA mode				
Maximum Data Rate per channel	Channel Raw Modulation Bandwidth (MHz) Data Rate (Mbps)					
Chamie	QPSK		1.6	(1011 12)	2.56	(MIDPS)
	16 QAM		1.6		5.12	
	QPSK		3.2		5.12	
	16 QAM		3.2		10.24	
	32 QAM		3.2		12.8	
	64 QAM		3.2		15.4	
	16 QAM		6.4		20.5	
	32 QAM		6.4		25.6	
	64 QAM		6.4		30.72	
Bandwidth	200 kHz t	o 6.4 MHz				
Maximum Operating Level		One Chann	<u>el</u>	2 Channels	<u>s</u>	3 or 4 Channels
TDMA	QPSK	+61 dBmV		+58 dBmV		+55dBmV
	8 QAM	+58 dBmV		+55 dBmV		+52dBmV
	16 QAM	+58 dBmV		+55 dBmV		+52dBmV
	32 QAM	+57 dBmV		+54 dBmV		+51dBmV
	64 QAM	+57 dBmV		+54 dBmV		+51dBmV
005144	ODOK	. 50 -ID\/		. 50 dD- 17		. 50 dD1/
SCDMA	QPSK	+56 dBmV		+53 dBmV		+53 dBmV
	8 QAM	+56 dBmV		+53 dBmV		+53 dBmV
	16 QAM	+56 dBmV		+53 dBmV		+53 dBmV
	32 QAM	+56 dBmV		+53 dBmV		+53 dBmV
	64 QAM	+56 dBmV		+53 dBmV		+53 dBmV
	128 QAM	+56 dBmV		+53 dBmV		+53 dBmV

Specification	Value			
Electrical				
Input Voltage	12 VDC			
Power Consumption (modem module)	~ 7.5 Watts			
Data Ports	GigE (Auto-negotiate with Auto-MDIX): RJ-45 Ethernet (1) USB 2.0: USB Type B (1) optional			
RF	Female "F" type			
Output Impedance	75 ohms			
Mechanical				
Dimensions (H x D x W)	1.5 in. x 5.2 in. x 5.9 in. (3.8 cm x 13.2 cm x 15.1 cm)			
Weight	10.3 oz. (0.294 kg)			
Operating Temperature	32° to 104°F (-0° to 40°C)			
Operating Humidity	0 to 95% RH non-condensing			
Storage Temperature	-4° to 158°F (-20° to 70°C)			
Standards and Approvals				
Designed to meet with the following standards	DOCSIS 3.0			
Regulatory Compliance				
Regulatory and Safety Approvals	As required per country where the DPC3010 will be used			

Ordering Information

 Table 4.
 Ordering Information

Description	Part Number
5-42/88-1002 MHz Diplex Filter	
DPC3010 DOCSIS 3.0 Cable Modem, includes:	4027668
GigE port	
• USB 2.0 port	
• 12 VDC/1 A, 100-120 VAC / 50-60 Hz, desktop style linear switching power supply, North America	
Ethernet cable	
USB cable	
CD-ROM with user guides and USB driver	
North America	
DPC3010 DOCSIS 3.0 Cable Modem, includes:	4036668
GigE port	
• USB 2.0 port	
 12 VDC/1 A, 100-240 VAC / 50-60 Hz, desktop style switching regulated power supply with detachable power cord 	
Power cord, North America	
Ethernet cable	
USB cable	
CD-ROM with user guides and USB driver	
North America	
DPC3010 DOCSIS 3.0 Cable Modem, includes:	4037053
GigE port	
• USB 2.0 port	
• 12 VDC/1 A, 100-120 VAC / 50-60 Hz, desktop style linear switching power supply, North America	
Ethernet cable	
CD-ROM with user guides	
North America (Customer-specific configuration)	

Description	Part Number
DPC3010 DOCSIS 3.0 Cable Modem, includes:	4035128
• GigE port	
No USB port	
• 12 VDC/1 A, 100-120 VAC / 50-60 Hz, desktop style linear switching power supply, North America	
• Ethernet cable	
• CD-ROM with user guides	
North America (Customer-specific configuration)	
DPC3010 DOCSIS 3.0 Cable Modem, includes:	4039766
GigE port No USB port	
 No USB port 12 VDC/1 A, 100-120 VAC / 50-60 Hz, desktop style linear switching power supply, North America 	
Ethernet cable	
CD-ROM with user guides	
North America (Customer-specific configuration)	
DPC3010 DOCSIS 3.0 Cable Modem, includes:	4038903
GigE port	
• USB 2.0 port	
• 12 VDC/1 A, 220 VAC / 50-60 Hz, desktop style linear switching power supply, Argentina	
Ethernet cable	
USB cable	
CD-ROM with user guides and USB driver	
Argentina	
5-65/88-1000 MHz Diplex Filter	
DPC3010 DOCSIS 3.0 Cable Modem, includes:	4030792
International frequency plan	
• GigE port	
 USB 2.0 port 12 VDC/1 A, 240 VAC / 50-60 Hz, wall-mount style linear switching power supply, Australia 	
Ethernet cable	
USB cable	
CD-ROM with user guides and USB driver	
Australia	
DPC3010 Channel Bonded Cable Modem, includes:	4030797
GigE port	
USB 2.0 port	
• 12 VDC/1 A, 230 VAC / 50-60 Hz, wall-mount style linear switching power supply, Europe	
Ethernet cable	
USB cable	
CD-ROM with user guide and USB driver	
Europe	
DPC3010 Channel Bonded Cable Modem, includes:	4030793
GigE portNo USB port	
12 VDC/1 A, 100-120 VAC / 50-60 Hz, desktop style linear switching power supply, Japan	
No data cables No data cables	
Printed Japanese user guide (Customer specific)	
Japan (Importer- and customer-specific configuration)	
DPC3010 Channel Bonded Cable Modem, includes:	4030794
• GigE port	
No USB port	
• 12 VDC/1 A, 100-120 VAC / 50-60 Hz, desktop style linear switching power supply, Japan	
• Ethernet cable, 2 meters	
Printed Japanese user's guide (generic)	
Japan (Importer-specific configuration)	

Description	Part Number
DPC3010 Channel Bonded Cable Modem, includes:	4030816
GigE port	
No USB port	
• 12 VDC/1 A, 100-120 VAC / 50-60 Hz, desktop style linear switching power supply, Japan	
No data cables	
Printed Japanese user's guide (generic)	
Japan (Importer-specific configuration)	
DPC3010 Channel Bonded Cable Modem, includes:	4030795
GigE port	
No USB port	
• 12 VDC/1 A, 100-120 VAC / 50-60 Hz, wall-mount style linear switching power supply, Korea	
• Ethernet cable, 2 meters	
Printed Korean user guide	
Korea	
5-85/108-1000 MHz Diplex Filter	
DPC3010 Channel Bonded Cable Modem, includes:	4030796
GigE port	
No USB port	
No AC power supply	
• Ethernet cable, 2 meters	
Printed Korean user guide	
Korea (Customer-specific configuration)	
DPC3010 Channel Bonded Cable Modem, includes:	4034439
GigE port	
No USB port	
No AC power supply	
• Ethernet cable, 2 meters	
Printed Korean user guide	
Korea (Customer-specific configuration)	

Replacement Components

 Table 5.
 Replacement Components

Description	Part Number	
Power Supply - Class 2 Linear Switching		
100-120 VAC / 50-60 Hz, 12 VDC/1 A desktop linear switching power supply, North America and Japan	4018777	
100-120 VAC / 50-60 Hz, 12 VDC/1A desktop linear-switching power supply, North America (customer specific)	4034588	
100-120 VAC / 50-60 Hz, 12 VDC/1 A desktop linear switching power supply, Japan (ICS Importer markings)	4031742	
100-120 VAC / 50-60 Hz, 12 VDC/1 A desktop linear switching power supply, Japan (NOS importer markings)	4026135	
220 VAC / 50-60 Hz, 12 VDC/1 A desktop linear switching power supply, Argentina	4025790	
220 VAC / 50-60 Hz, 12 VDC/1 A wall-mount linear switching power supply, Korea	4015458	
230-240 VAC / 50-60 Hz, 12 VDC/1 A wall-mount linear switching power supply, Europe	4015453	
230-240 VAC / 50-60 Hz, 12 VDC/1 A wall-mount linear switching power supply, Australia	4018797	
Power Supply - Class 2 Switching Regulated		
100-240 VAC / 50-60 Hz, 12 VDC/1 A desktop-style switching regulated power supply, Class II, C7 AC connector, 2 conductors with detachable power cord (order power cord separately)	4021485	

Description	Part Number	
Power Cord		
Power cord, 2 conductors, NEMA 1-15 to C7, North America (non-polarized)	1002239	
Data Cable		
Ethernet cable, 1.2 meters	740580	
Ethernet cable, 2.0 meters	4018790	
USB cable, 1.0 meter	740579	
CD-ROM		
CD-ROM with user guides and USB driver	4029645	