Cisco Model EPC2100 EuroDOCSIS 2.0 Cable Modem

The Cisco® Model EPC2100 EuroDOCSIS 2.0 Cable Modem provides EuroDOCSIS™ broadband network operators with a cost-effective solution for delivering standards-based, high-speed data services to their subscribers. The EPC2100 also features Dual Mode. This feature allows the network operator to deploy the EPC2100 in networks that use DOCSIS® downstream technology.

Figure 1. Cisco Model EPC2100 EuroDOCSIS 2.0 Cable Modem (image may vary from actual product and specification)

The EPC2100 also features WebWizard, a browser-based user interface. WebWizard is a powerful tool that facilitates installation and troubleshooting, and eliminates the need to load setup software on the customer premises equipment (CPE). The EPC2100 also features five front-panel LED status indicators that provide visual feedback of real-time data transmission and operational status.

Features

EuroDOCSIS

- Designed to meet EuroDOCSIS 2.0 specifications
- Backward compatible with EuroDOCSIS 1.1 and 1.0 networks
- Support for up to 64 users (1 USB port user and up to 63 users on user-supplied Ethernet hubs)
- Enhanced bi-directional performance maximizes data throughout
- Dual Mode support for EuroDOCSIS and DOCSIS operation
- Optional L2VPN support

Connections

- 100/10 Mbps Ethernet port with Auto-negotiate and Auto-MDIX
- USB 1.1 Type B client data port

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
- Color-coded connectors and cables for easy installation and setup
- Both vertical and horizontal installation options
- 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 XP, and Windows 2000, ME, and 98 Second Edition(SE) operating systems

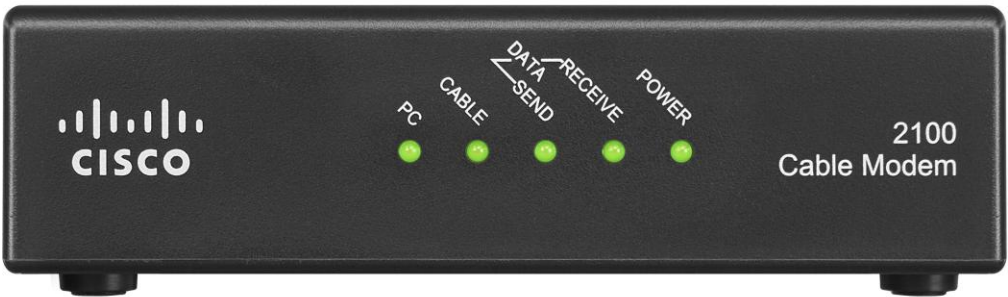**Figure 1.**   Cisco Model EPC2100 Front Panel (image may vary from actual product and specification)

Table 1.   Front Panel Features

Feature	Description
Indicators	PC, CABLE, DATA SEND, DATA RECEIVE, POWER
Color	Black textured, black face place, silver text, green LEDs

Figure 2. Cisco Model EPC2100 Rear Panel (image may vary from actual product and specification)
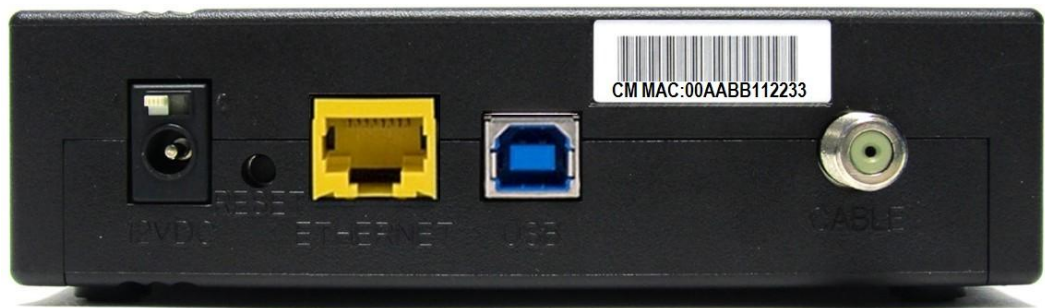

Table 2. Back Panel Features

Feature	Description
POWER Connector Color: Black	Connects modem to the DC output of the AC power adapter
POWER SWITCH Color: Black	Turn on and off device (power switch provided on all products carrying the CE mark)
MAC ADDRESS LABEL	Displays the MAC address of the cable modem
RESET	Resets the cable modem
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 1.1 client port connects to a USB port on your PC
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 Level Range	43 to 73 dBµV for 64 QAM 47 to 77 dBµV for 256 QAM
Tuner Frequency Range	108 to 930 MHz (H/W Revision 3.0) 108 to 860 MHz (H/W Revision 2.1 and earlier)
Demodulation	64 QAM or 256 QAM
Maximum Data Rate	41.4 Mbps (for 64 QAM) and 55.2 Mbps (for 256 QAM)
Bandwidth	8 or 6 MHz
Input Impedance	75 ohms
RF Upstream	
Frequency Range	5 to 65 MHz
Modulation	QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM / ATDMA, 128 QAM / SCDMA
Maximum Data Rate	5.12 Mbps (for QPSK) 10.2 Mbps (for 16 QAM) 30.0 Mbps (for ATDMA or SCDMA)
Bandwidth	200 kHz to 6.4 MHz
Maximum Operating Level	+68 dBµV to +118 dBµV (QPSK) +68 dBµV to +115 dBµV (8 QAM, 16 QAM) +68 dBµV to +114 dBµV (32 QAM, 64 QAM, ATDMA) +68 dBµV to +113 dBµV (SCDMA)
Electrical	
Input Voltage	12 VDC
Power Consumption (modem module)	~ 4.1 Watts
Data Ports	Ethernet 10/100BASE-T (Auto-sensing with Auto-MDIX): RJ-45 Ethernet (1) USB: Type B (1)
RF	Female F-Type
Output Impedance	75 ohms
Mechanical	
Dimensions (H x D x W)	13.3 cm x 10.3 cm x 3.3 cm (5.25 in. x 4.00 in. x 1.5 in.)
Weight	0.26 kg (9.0 oz)
Operating Temperature	0˚ to 40˚C (32˚ to 104˚F)
Operating Humidity	0 to 90% RH non-condensing
Storage Temperature	-20˚ to 70˚C (-4˚ to 158˚F)
Standards and Approvals	
Designed to meet with the following standards	EuroDOCSIS 2.0
Regulatory Compliance	
Regulatory and Safety Approvals	As required per country where the DPC2100 will be used

Ordering Information

Table 4.   Ordering Information

EPC2100 Hardware Revision 3.0 Description	Part Number
EPC2100 Cable Modem for Europe. Includes: • EuroDOCSIS 2.0, Hardware Rev 3.0 • 230 VAC / 50 Hz, 12 V/1 A wall-mount linear-switching power supply for Europe • Ethernet and USB cables • CD-ROM containing user guide and USB driver	4028386
EPC2100 Cable Modem for China. Includes: • EuroDOCSIS 2.0, Hardware Rev 3.0 • 230 VAC / 50 Hz, 12 VDC/1 A wall-mount linear-switching power supply for China • No USB cable • Ethernet cable • CD-ROM containing user guide and USB driver *China (Customer-specific configuration)*	4037429
EPC2100 Cable Modem for China. Includes: • EuroDOCSIS 2.0, Hardware Rev 3.0 • No power supply • No USB cable • Ethernet cable • CD-ROM containing user guide and USB driver *China (Customer-specific configuration)*	4037430
EPC2100 Hardware Revision 2.1 **Description**	**Part Number**
EPC2100 Cable Modem for Europe. Includes: • EuroDOCSIS 2.0, Hardware Rev 2.1 • 230 VAC / 50 Hz, 12 V/1 A wall-mount linear-switching power supply for Europe • Ethernet and USB cables • CD-ROM containing user guide and USB driver	4013343
EPC2100 Cable Modem for Europe. Includes: • EuroDOCSIS 2.0, Hardware Rev 2.1 • 230 VAC / 50 Hz, 12 VDC/1 A wall-mount linear switching power supply for Europe • Ethernet and USB cables • CD-ROM containing user guide and USB driver *Spain*	4018545
EPC2100 Cable Modem for the United Kingdom. Includes: • EuroDOCSIS 2.0, Hardware Rev 2.1 • 240 VAC / 50 Hz, 12 VDC/1 A wall-mount style linear-switching power supply for the United Kingdom • Ethernet and USB cables • CD-ROM containing user guide and USB driver *United Kingdom*	4013707
EPC2100 Cable Modem for the United Kingdom. Includes: • EuroDOCSIS 2.0, Hardware Rev 2.1 • Bulk packaging • No power supply, no Ethernet cable and no USB cable *United Kingdom*	4015875
EPC2100 Cable Modem with Universal Power Supply. Includes: • EuroDOCSIS 2.0, Hardware Rev 2.1 • 220 VAC / 50-60 Hz, 12 VDC / 1 A desktop style switching-regulated universal power supply • Power cord, Europe • Ethernet and USB cables • CD-ROM containing user guide and USB driver	4025811

EPC2100 Hardware Revision 2.1 (continued) Description	Part Number
EPC2100 Cable Modem for China. Includes: • EuroDOCSIS 2.0, Hardware Rev 2.1 • No AC power supply • No USB cable • Ethernet cable • CD-ROM containing user guide and USB driver *China*	4015489

Replacement Components

Table 5. Replacement Components

Description	Part Number
Power Supply	
Class 2 Linear Switching	
230 VAC / 50-60 Hz, 12 VDC /1 A wall-mount linear-switching power supply, China	4024112
230 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, UK	4018794
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
Power Cord	
Power cord, 2 conductors, CEE7/16 to C7, 6 foot, non-polarized, Europe	503414
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 drivers	4001911