

## Cisco Model DPQ2160 DOCSIS 2.0 Cable Modem

The Cisco® Model DPQ2160 DOCSIS 2.0 Cable Modem (DPQ2160) provides DOCSIS® broadband network operators with a cost-effective solution for delivering standards-based, high-speed data services to their subscribers.

The DPQ2160 is designed to meet DOCSIS 2.0 specifications as well as offering backward compatibility for operation in DOCSIS 1.1 and DOCSIS 1.0 networks.

The DPQ2160 features WebWizard, a browser-based user interface. WebWizard is a powerful tool that facilitates installation and troubleshooting. WebWizard eliminates the need to load set-up software on the customer premises equipment (CPE). The DPQ2160 also features five front-panel LED status indicators that provide visual feedback of real-time data transmission and operational status.

**Figure 1.** Cisco DPQ2160 DOCSIS 2.0 Cable Modem



## **Features**

### **DOCSIS**

- Designed to meet DOCSIS 2.0 specifications as well as backward compatibility with existing DOCSIS 1.1 and 1.0 networks
- Color-coded connectors and cables for easy installation and setup
- Extended tuning to 930 MHz

### **Connections**

- Bridged 100/10BASE-T auto-sensing/auto-MDIX Ethernet port
- USB 1.1 data port
- Support for up to 64 users (on user-supplied Ethernet hubs)

### **Design and Function**

- Integrated AC power supply with detachable power cord
- Attractive compact design and versatile orientation to stand vertically, lie flat on the desktop or shelf, or mount easily on a wall
- Dual color LED status indicators on the front-panel provide an informative and easy-to-understand display that indicates the cable modem operational status
- 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

**Figure 2.** Cisco DPQ2160 DOCSIS 2.0 Cable Modem Front Panel



**Table 1.** Front Panel Features

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

**Figure 3.** Cisco DPQ2160 DOCSIS 2.0 Cable Modem Back Panel



**Table 2.** Back Panel Features

Feature	Description
POWER SWITCH (not shown)	Switches power to the unit (power switch provided only on products carrying the CE mark)
POWER	AC power input
RESET	Reset-to-Factory Default Momentary Switch (Factory Reset)
ETHERNET Connector Color: Yellow	10/100BASE-T Ethernet port
USB Connector Color: Blue	USB 1.1 client port
MAC Address	MAC Address label with bar code
CABLE Connector Color: White	F-connector connects to an active cable signal from the service provider

## Product Specifications

**Table 3.** Product Specifications

Specification	Value
<b>RF Downstream</b>	
Operating Frequency Range	54 to 1002 MHz 88 to 1002 MHz (Japan)
Tuner Frequency Range	88 to 930 MHz
Demodulation	64 QAM or 256 QAM
Maximum Data Rate	43 Mbps for 256 QAM and 30 Mbps for 64 QAM
Bandwidth	6 or 8 MHz
Operating Level Range	-15 to +15 dBmV
Input Impedance	75 ohms
<b>RF Upstream</b>	
Operating Frequency Range	5 to 42 MHz 5 to 65 MHz (Japan)
Transmitter Frequency Range	5 to 42 MHz 5 to 55 MHz (Japan)
Modulation	QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM at A-TDMA mode QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM, 128 QAM at SCDMA mode
Maximum Data Rate per channel	5.12 Mbps for QPSK 10.2 Mbps for 16 QAM 30.0 Mbps for A-TDMA and SCDMA
Bandwidth	200 kHz to 6.4 MHz
Maximum Operating Level	+8 to +58 dBmV (QPSK) +8 to +55 dBmV ( 8 QAM, 16 QAM ) +8 to +54 dBmV ( 32 QAM, 64 QAM, A-TDMA) +8 to +53 dBmV (SCDMA)
<b>Electrical</b>	
Input Voltage	100-120 VAC or 220-230 VAC
Power Consumption	4.7 Watts
Data Ports	10/100BASE-T (Auto-negotiate with Auto-MDIX): RJ-45 Ethernet (1) USB 1.1: USB Type 2 (1)
RF	Female "F" type
Output Impedance	75 ohms
<b>Mechanical</b>	
Dimensions (H x D x W)	1 3/8 in. x 1 13/16 in. x 5 15/16 in. (26.35 mm x 27.46 mm x 129.38 mm)
Weight	9.2 oz. (0.264 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)
<b>Standards and Approvals</b>	
Designed to meet the following standards	DOCSIS 2.0
<b>Regulatory Compliance</b>	
Regulatory and Safety Approvals	As required per country where the DPQ2160 will be used

## Ordering Information

**Table 4.** Ordering Information

Description	Part Number
<b>North American Tuning Plan (NTSC-STD and NTSC-HRC)</b>	
DPQ2160 DOCSIS 2.0 Cable Modem. Includes <ul style="list-style-type: none"> <li>• 100-240 VAC internal switching-regulated power supply</li> <li>• 10/100BASE-T Ethernet port</li> <li>• USB 1.1 port</li> <li>• Power cord, North America (non-polarized)</li> <li>• Data Cable, Ethernet</li> <li>• CD-ROM containing user guide and USB drivers</li> </ul> <b>North America</b>	4036820
DPQ2160 DOCSIS 2.0 Cable Modem for North America. Includes: <ul style="list-style-type: none"> <li>• NTSC frequency plan</li> <li>• 100-240 VAC internal switching-regulated power supply</li> <li>• 10/100BASE-T Ethernet port</li> <li>• USB 1.1 port</li> <li>• Power cord, North America, (polarized)</li> <li>• Ethernet cable</li> <li>• No USB cable</li> <li>• Paper, installation instructions</li> <li>• CD-ROM containing user guide and USB drivers</li> </ul> <b>North America (Customer-specific configuration)</b>	4027669
DPQ2160 DOCSIS 2.0 Cable Modem. Includes: <ul style="list-style-type: none"> <li>• NTSC frequency plan</li> <li>• 100-240 VAC internal switching-regulated power supply</li> <li>• 10/100BASE-T Ethernet port</li> <li>• USB 1.1 port</li> <li>• Power cord, Argentina (non-polarized)</li> <li>• Ethernet cable</li> <li>• USB cable</li> <li>• CD-ROM containing user guide and USB drivers</li> </ul> <b>Argentina</b>	4025334
DPQ2160 DOCSIS 2.0 Cable Modem. Includes: <ul style="list-style-type: none"> <li>• 100-240 VAC internal switching-regulated power supply</li> <li>• 10/100BASE-T Ethernet port</li> <li>• USB 1.1 port</li> <li>• Power cord, Brazil (non-polarized)</li> <li>• Ethernet cable</li> <li>• USB cable</li> <li>• CD-ROM containing user guide and USB drivers</li> </ul> <b>Brazil</b>	4025333
DPQ2160 DOCSIS 2.0 Cable Modem. Includes <ul style="list-style-type: none"> <li>• 100-240 VAC internal switching-regulated power supply</li> <li>• 10/100BASE-T Ethernet port</li> <li>• USB 1.1 port</li> <li>• Power cord, Europe (non-polarized)</li> <li>• Ethernet cable</li> <li>• No USB cable</li> <li>• CD-ROM containing user guide and USB drivers</li> </ul> <b>Chile</b>	4039645

Description	Part Number
DPQ2160 DOCSIS 2.0 Cable Modem. Includes: <ul style="list-style-type: none"> <li>• 100-240 VAC internal switching-regulated power supply</li> <li>• 10/100BASE-T Ethernet port</li> <li>• USB 1.1 port</li> <li>• Power cord, Korea (non-polarized)</li> <li>• Ethernet cable</li> <li>• USB cable</li> <li>• CD-ROM containing user guide and USB drivers</li> </ul> <b>Korea</b>	4025335
DPQ2160 DOCSIS 2.0 Cable Modem. Includes: <ul style="list-style-type: none"> <li>• 100-240 VAC internal switching-regulated power supply</li> <li>• 10/100BASE-T Ethernet port</li> <li>• USB 1.1 port</li> <li>• Power cord, Korea (non-polarized)</li> <li>• Ethernet cable</li> <li>• Safety Information, paper</li> <li>• CD-ROM containing user guide and USB drivers</li> </ul> <b>Korea (Customer-specific configuration)</b>	4025342
DPQ2160 DOCSIS 2.0 Cable Modem. Includes: <ul style="list-style-type: none"> <li>• 100-240 VAC internal switching-regulated power supply</li> <li>• 10/100BASE-T Ethernet port</li> <li>• No USB port</li> <li>• Power cord, Korea (non-polarized)</li> <li>• Ethernet cable</li> <li>• Safety information, paper</li> <li>• CD-ROM containing user guide and USB drivers</li> </ul> <b>Korea (Customer-specific configuration)</b>	4025343
DPQ2160 DOCSIS 2.0 Cable Modem. Includes: <ul style="list-style-type: none"> <li>• 100-240 VAC internal switching-regulated power supply</li> <li>• 10/100BASE-T Ethernet port</li> <li>• No USB port</li> <li>• Power cord, Europe (non-polarized)</li> <li>• Ethernet cable</li> <li>• CD-ROM containing user guides</li> </ul> <b>India (Customer-specific configuration)</b>	4036819
<b>International Tuning Plan (PAL-B, PAL-G, and NTSC)</b>	
DPQ2160 DOCSIS 2.0 Cable Modem. Includes: <ul style="list-style-type: none"> <li>• 100-240 VAC internal switching-regulated power supply</li> <li>• 10/100BASE-T Ethernet port</li> <li>• USB 1.1 port</li> <li>• Power cord, Europe (non-polarized)</li> <li>• Ethernet cable</li> <li>• USB cable</li> <li>• CD-ROM containing user guide and USB driver</li> </ul> <b>Europe</b>	4025338
DPQ2160 Cable Modem. Includes: <ul style="list-style-type: none"> <li>• 100-240 VAC internal switching-regulated power supply</li> <li>• 10/100BASE-T Ethernet port</li> <li>• Ethernet cable</li> <li>• No USB port</li> <li>• Power cord, China (non-polarized)</li> <li>• Printed RoHS insert</li> <li>• CD-ROM containing user guide</li> </ul> <b>China</b>	4037023

Description	Part Number
<b>Japanese Tuning Plan (NTSC-Japan)</b>	
DPQ2160 Cable Modem. Includes: <ul style="list-style-type: none"> <li>• 100-240 VAC internal switching-regulated power supply</li> <li>• 10/100BASE-T Ethernet port</li> <li>• No USB port</li> <li>• Power cord, Japan (non-polarized)</li> <li>• Ethernet cable</li> <li>• Printed Japanese user guide</li> <li>• CD-ROM containing user guide</li> </ul> <b>Japan (Importer-specific configuration)</b>	4025076
DPQ2160 Cable Modem. Includes: <ul style="list-style-type: none"> <li>• 100-240 VAC internal switching-regulated power supply</li> <li>• 10/100BASE-T Ethernet port</li> <li>• No USB port</li> <li>• Power cord, Japan (non-polarized)</li> <li>• Printed Japanese user guide</li> <li>• CD-ROM containing user guide</li> </ul> <b>Japan (Importer- and customer-specific configuration)</b>	4025332

**Table 5.** Replacement Components

Description	Part Number
<b>Power Cords - Class 2</b>	
Power cord, 2 conductors, NEMA 1-15 to C7, North America (non-polarized)	1002239
Power cord, 2 conductors, China (non-polarized)	4025754
Power cord, 2 conductors, NEMA 1-15P to C7P, 6 foot, North America (polarized)	186750
Power cord, 2 conductors, CEE7/16 to C7, INMETRO, Brazil (non-polarized)	4009115
Power cord, 2 conductors, Argentina (non-polarized)	4012938
Power cord, 2 conductors, CEE7/16 to C7, 6 foot, Europe (non-polarized)	503414
Power cord, 2 conductors, NEMA 1-15 to C7, Japan (non-polarized)	207586
Power cord, 2 conductors, Korea (non-polarized)	4010439
<b>Cables</b>	
Ethernet cable, standard 1.2 meters	740580
Ethernet cable, 2 meters	4018790
USB cable, 1.0 meter	740579
<b>CD-ROM</b>	
CD-ROM with user guide and USB drivers	4025241



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