Cisco Model DPR2320 Cable Modem Gateway with 802.11g Wireless Access Point

Description

The Cisco® Model DPR2320 Cable Modem Gateway (DPR2320) combines a cable modem, router, and wireless access point in a single device to provide a cost-effective solution for both home and small office networking.

The DPR2320 is designed to meet DOCSIS® 2.0 and CableHome® 1.1 specifications. In addition, the DPR2320 is fully backward compatible with both DOCSIS 1.1 and DOCSIS 1.0 networks.

Designed for the active digital home or office, the DPR2320 features fully integrated CableHome-ready Network Address Translation (NAT), a Dynamic Host Configuration Protocol (DHCP) server, parental control, and firewall technology.

The DPR2320 features dual antenna design. One antenna is an external antenna and the other is internal to the housing. The two antennas work together to provide more uniform wireless coverage within the service area.

The housing of the DPR2320 incorporates a hide-away stabilizer that pivots out from the bottom base when standing the gateway on end, or it tucks neatly into the casing when the gateway is set horizontally on a desktop. Convenient, recessed cutouts on the bottom surface of the housing allow the DPR2320 to be mounted on the wall.

Lockdown Mode

The DPR2320 features a Lockdown Mode. If the Lockdown Mode is selected by the Network Administrator or installation technician and the user activates the "factory reset switch," the gateway resets only the cable modem settings and leaves the router settings as they were just prior to performing the reset. This feature eliminates unnecessary service calls and truck rolls that result from unauthorized or accidental reset of the gateway.

Features

- Designed to meet DOCSIS 2.0 and CableHome 1.1 specifications
- Integrated router featuring NAT, a DHCP server, and parental control technology
- Lockdown mode prevents unauthorized or accidental reset of gateway settings
- Configurable either locally or remotely through Web interface, configuration file, or simple network management protocol (SNMP) protocols
- Includes CableHome, Residential Gateway (default), or Bridge modes of operation
- Provides 10/100BASE-T auto-sensing with auto-MDIX Ethernet port and a USB 1.1 port
- 802.11g Wireless Access Point
- Utilizes attractive compact design to stand vertical or lie flat on the desktop, or mounts easily on the wall
- Simple setup with WebWizard graphical user interface

WebWizard

To facilitate setup and troubleshooting, the DPR2320 includes WebWizard—a browser-based graphical user interface. WebWizard also eliminates the need to load setup software on the customer premises equipment (CPE). In addition, the six LEDs on the front panel provide an informative and easy-to-understand display that indicates cable modem status along with visual feedback of real-time data transmission.

Specifications

Wireless Access Point	
Frequency Range	2.412~2.462 GHz, 11 Channels (North America; FCC)
	2.412~2.472 GHz, 13 Channels (Europe; CE/ETSI)
Modulation	DSSS (Direct Sequence Spread Spectrum)
Data Rate: 802.11g/b	54 Mbps with Auto Fall-Back
Security	RC4 with 64-bit and 128-bit WEP
Transmit Power	14 dBm (average)
Antenna System	One (1) external connectorized
	One (1) internal PCB

RF Downstream	
Frequency Range	88 MHz to 860 MHz
Demodulation	64 QAM or 256 QAM
Maximum Data Rate	30 Mbps for 64 QAM
	43 Mbps for 256 QAM
Bandwidth	6 MHz
Operating Level Range	-15 dBmV to +15 dBmV
Input Impedance	75 ohms

RF Upstream	
Frequency Range	5 MHz to 42 MHz
Modulation	16 QAM
	QPSK
	64 QAM
	128 QAM TCM
Maximum Data Rate	10.2 Mbps for 16 QAM
	5.12 Mbps for QPSK
	30.0 Mbps for A-TDMA and SCDMA
Bandwidth	200 kHz to 6.4 MHz
Operating Level Range	+8 dBmV to +58 dBmV
	+8 dBmV to +55 dBmV (8 QAM, 16 QAM)
	+8 dBmV to +54 dBmV (32 QAM, 64 QAM)
Output Impedance	75 ohms

Standards and Approvals	
Designed to comply with the following standards	DOCSIS 2.0 CableHome 1.1 WEP, WPA IEEE 802.11g
Other Approvals	WHQL
Regulatory Approvals	Certified as required per country where the DPR2320 will be used

Other	
Input Voltage	12 VDC
Power Consumption (Modem Module)	6.2 Watts, maximum
Data Ports	Ethernet 10/100BASE-T (Auto-sensing with Auto-MDIX): RJ-45 Ethernet (1) USB: Type 2 (1)
RF	Female "F" type

Mechanical	
Dimensions (H x D x W)	Not including "F" connector: 6.625 in. x 5.0 in. x 1.375 in. (16.5 cm x 12.5 cm x 3.5 cm) Including "F" connector: 6.625 in. x 5.5 in. x 1.375 in. (16.5 cm x 14 cm x 3.5 cm)
Weight (approximate)	12 oz (0.34 kg)
Operating Temperature	32˚ to 104˚F (0˚ to 40˚C)
Operating Humidity	0 to 90% RH non-condensing
Storage Temperature	-4˚ to 158˚F (-20˚ to 70˚C)

Ordering Information

Contact your Sales Representative for product availability in your area.

DPR2320 Hardware Revision 2.0 Description	Part Number
DPR2320 Cable Modem Gateway with 802.11g Wireless Access Point. Includes: • DOCSIS 2.0 Residential Gateway, North American Tuning Plan • 100-240 VAC / 50-60 Hz, 12 VDC / 1 A switching-regulated desktop style power supply with attached power cord • Ethernet and USB cables • CD-ROM containing user guide and USB driver	4023782
DPR2320 Cable Modem Gateway with 802.11g Wireless Access Point. Includes: • DOCSIS 2.0 Residential Gateway, North American Tuning Plan • 100-120 VAC / 50-60 Hz, 12 VDC / 1 A linear-switching desktop style power supply with attached power cord • Ethernet and USB cables • CD-ROM containing user guide and USB driver	4013371
DPR2320 Cable Modem Gateway with 802.11g Wireless Access Point. Includes: • DOCSIS 2.0 Residential Gateway, International Tuning Plan • 230 VAC / 50 Hz, 12 VDC / 1 A linear-switching PS wall-mount style power supply with attached power cord and CEE7/16 style 2-pin power connector • Ethernet and USB cables • CD-ROM containing user guide and USB driver *Not for use in the European Union*	4014607
DPR2320 Cable Modem Gateway with 802.11g Wireless Access Point. Includes: • DOCSIS 2.0 Residential Gateway, International Tuning Plan • 230 VAC / 50 Hz, 12 VDC / 1 A linear-switching wall-mount style power supply with attached power cord and CEE7/16 style 2-pin power connector • Ethernet and USB cables • CD-ROM containing user guide and USB driver • USB 2.0 wireless adapter *Not for use in the European Union*	4014694
DPR2320 Cable Modem Gateway with 802.11g Wireless Access Point. Includes: • DOCSIS 2.0 Residential Gateway, North American Tuning Plan • 230 VAC / 50 Hz, 12 VDC / 1 A In-line linear power supply with attached power cord and CEE7/16 style 2-pin power connector • Ethernet and USB cables • CD-ROM containing user guide and USB driver *Not for use in the European Union*	4017979
DPR2320 Cable Modem Gateway with 802.11g Wireless Access Point, International. Includes: • DOCSIS 2.0 Residential Gateway, North American Tuning Plan • 220 VAC / 50 Hz, 12 VDC / 1 A In-line linear power supply with attached cord and power connector for Argentina • Specify power cord from the table that follows • Ethernet and USB cables • CD-ROM containing user guide and USB driver	4013699

Replacement Parts

AC Power Supplies, 12 VDC	Part Number
12VDC High Efficiency Linear-Switching, Class 2	
100-120 VAC / 50-60 Hz, 12 VDC / 1 A In-line linear-switching power supply with attached power cord and connector for North America and Japan	4018777
100-120 VAC / 50-60 Hz, 12 VDC / 1 A Plug-in linear-switching power supply for North America and Japan	4015452
220 VAC / 50-60 Hz, 12 VDC / 1 A Plug-in linear-switching power supply for Argentina	4015457
230 VAC / 50-60 Hz, 12 VDC /1 A Plug-in linear-switching power supply for Australia	4018797
230 VAC / 50-60 Hz, 12 VDC /1 A Plug-in linear-switching power supply with Euro-style connector	4015453
220 VAC / 50-60 Hz, 12 VDC / 1 A Plug-in linear-switching power supply for Korea	4015458
230-240 VAC / 50-60 Hz, 12 VDC /1 A Plug-in linear-switching power supply with BS-1363 United Kingdom style 3-pin connector	4018794
12VDC Universal Switching Mode, Class 2	
100-240 VAC / 50-60 Hz, 12 VDC /1 A Plug-in switching-regulated desktop style power supply	4021485
12VDC, Linear, Class 2	
120 VAC / 60 Hz, 12 VDC / 1 A In-line linear power supply with attached power cord and connector *(not for use in the United States)*	749826
220 VAC / 50 Hz, 12 VDC / 1 A In-line linear power supply with attached power cord and connector for Argentina	4012871
220 VAC / 60 Hz, 12 VDC / 1 A In-line linear power supply with attached power cord and connector for Korea	4004222
230 VAC / 50 Hz, 12 VDC / 1 A In-line linear power supply with attached power cord and CEE7/16 Euro plug connector *(not for use in the European Union)*	4002193
230-240 VAC / 50 Hz, 12 VDC / 1 A In-line linear power supply with attached power cord and BS-1363 United Kingdom style 3-pin connector *(not for use in the European Union)*	4004768

Power Cords	Part Number
Class 2	
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

Replacement Parts, continued

Cables	Part Number
Ethernet cable, standard length, 48 inches long	740580
Ethernet cable, 2 meters long	4018790
USB cable	740579

User guide and USB Driver	Part Number
CD-ROM with user guide and USB drivers	4030038