

Cisco Model DPQ3925 8x4 DOCSIS 3.0 Wireless Residential Gateway with Embedded Digital Voice Adapter

The Cisco® Model DPQ3925 8x4 DOCSIS 3.0 Wireless Residential Gateway with embedded digital voice adapter (DPQ3925) is a high-performance home gateway that combines a cable modem, two-line digital voice adapter, router, and wireless access point in a single device providing a cost-effective voice and networking solution for both the home and small office. The DPQ3925 provides a faster connection to the Internet by incorporating eight bonded downstream channels along with four bonded upstream channels. These bonded channels can deliver downstream data rates in excess of 340 Mbps and upstream data rates in excess of 120 Mbps. That's up to eight times faster downloads than conventional single-channel DOCSIS® 2.0 cable modems.

The DPQ3925 is designed to meet PacketCable™ 1.5 and DOCSIS 3.0 specifications, as well as offering backward compatibility for operation in PacketCable 1.0 and DOCSIS 2.0, 1.1, and 1.0 networks.

Figure 1. Cisco Model DPQ3925 8x4 DOCSIS 3.0 Wireless Residential Gateway (image may vary from actual product and specification)



Designed for the active digital home or office, the DPQ3925 integrated router features a Dynamic Host Configuration Protocol (DHCP) server, Network Address and Port Translation (NAT/NAPT), and a Stateful Packet Inspection (SPI) firewall. These features allow the user to share a single high-speed public Internet connection as well as share files and folders between devices within the home network by attaching multiple wired and wireless devices in the user's home or office to the wireless residential gateway.

Consumer-friendly features like Wireless Protected Setup (WPS) and user-configured Parental Control can protect the home network from unwelcome intruders and family members from access to undesirable websites.

Features

DOCSIS

- Eight (8) bonded downstream channels with data rates in excess of 340 Mbps
- Four (4) bonded upstream channels with data rates in excess of 120 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

- Four 1000/100/10BASE-T auto-sensing/auto-MDIX Ethernet ports
- High-performance broadband Internet connectivity to energize your online experience
- 802.11n, Single Band 2.4 GHz 2x2 Wireless Access Point (WAP) with four Service Set Identifiers (SSIDs) or optional Dual-Band non-concurrent radio.
- WPS, including a push-button switch to activate WPS for simplified and secure wireless setup
- Two RJ-11 telephony ports for connecting to in-home wiring or directly to conventional telephones or fax machines

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 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
- Color-coded connectors and cables for easy installation and setup

Management

- Software upgradeable by network download
- Remote manageability using DOCSIS config file, SNMP, and/or XML

Security

- User-configurable Parental Control blocks access to undesirable Internet sites
- Advanced firewall technology deters hackers and protects the home network from unauthorized access

Software and Documentation

- CD-ROM containing user guide

Figure 2. Cisco Model DPQ3925 Front Panel (image may vary from actual product and specification)



Table 1. Front Panel Features

Feature	Description
Indicators	POWER, DS, US, ONLINE, ETHERNET 1-4, USB, WIRELESS LINK, WIRELESS SETUP, TEL1, TEL2, BATTERY
Color	Black, black lens, silver text, green/amber LEDs
Branding	Cisco logo and model number

Figure 3. Cisco Model DPQ3925 Back Panel (image may vary from actual product and specification)



Table 2. Back Panel Features

Feature	Description
MAC ADDRESS LABEL	Displays the MAC address of the cable modem
TELEPHONE 1 and 2 Color: Gray	RJ-11 telephone ports connect to home telephone wiring and to conventional telephones or fax machines
USB Color: Blue	USB 2.0 Type 1 port (factory-option)
ETHERNET (1 – 4) Connector Color: Yellow	Four RJ-45 Ethernet ports connect to the Ethernet port on your PC or your home network
CABLE Connector Color: White	F-connector connects to an active cable signal from your service provider
RESET	Resets the cable modem
WIRELESS SETUP	Activates WPS, which allows you to add wireless devices to the wireless network of the residential gateway
RATING LABEL	Includes model number, serial number, and MAC addresses
POWER Connector Color: Black	Connects the wireless home gateway to the AC power source
ANTENNA (internal)	(2) internal antennas provide a communication connection for the built-in 802.11n wireless

Product Specifications

Table 3. Product Specifications

Specification	Value
Voice	
Call Signaling Protocol	<ul style="list-style-type: none"> • MGCP/NCS including configurable IPsec encryption • Configurable to support RFC 2833 event signaling • Supports Bell103 detection: Improves alarm panel and Point of Sale (POS) interoperability by optimizing DSP for Bell103 protocol • Software upgradeable to support Session Initiation Protocol (SIP) • The following SIP standards are supported <ul style="list-style-type: none"> ○ RFC 2617 HTTP Authentication: Basic and Digest Access Authentication ○ RFC 2833 RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals ○ RFC 2976 The SIP INFO Method ○ RFC 3261 SIP: Session Initiation Protocol ○ RFC 3262 Reliability of Provisional Responses in Session Initiation Protocol ○ RFC 3263 Session Initiation Protocol: Offer / Answer Model with the Session Description Protocol (SDP) ○ RFC 3264 Session Initiation Protocol (SIP): Locating SIP Servers ○ RFC 3265 Session Initiation Protocol (SIP) - Specific Event Notification ○ RFC 3420 Internet Media Type message/sipfrag ○ RFC 3428 Session Initiation Protocol (SIP) for Instant Messaging ○ RFC 3489 STUN - Simple Traversal of User Datagram Protocol (UDP) Through Network Address Translators (NATs) ○ RFC 3515 The Session Initiation Protocol (SIP) Refer Method ○ RFC 3842 A Message Summary and Message Waiting Indication Event Package for the Session Initiation Protocol (SIP) ○ RFC 3892 The Session Initiation Protocol (SIP) Referred-By Mechanism ○ RFC 3903 Session Initiation Protocol Extension for Event State Publication ○ Draft-ietf-mmusic-sdescription-09 Session Description Protocol Security Descriptions for Media Streams ○ Draft-ietf-mmusic-sdp-new-24 SDP: Session Description Protocol Replacement for RFC 2327 ○ Draft-ietf-sip-replaces-02 The Session Initiation Protocol (SIP) "Replaces" Header ○ Draft-ietf-sip-session-timer-08 The SIP Session Timer ○ Draft-ietf-sipping-cc-transfer-01 Session Initiation Protocol Call Control – Transfer ○ Draft-ietf-sipping-realtimifax-01 SIP Support for Real-time Fax: Call Flow Examples and Best Current Practices ○ Draft-johnston-sipping-rtcp-summary-07 SIP Service Quality Reporting Event ○ Draft-rosenberg-sipping-acr-code-00 Rejecting Anonymous Requests in the Session Initiation Protocol (SIP)
Basic Configuration (per line)	<ul style="list-style-type: none"> • SIP Signaling Port (local receive and source port) • SIP Registrar • SIP Proxy • SIP Outbound Proxy • Username • Password • Authentication name
Provisioning Modes	<ul style="list-style-type: none"> • Basic, Secure, Hybrid provisioning • Full PacketCable secure provisioning • Kerberos support with NVRAM ticket caching • Configurable PacketCable-lite (MTA config file provisioning without security) • Configurable for non-PacketCable (MTA configuration using DOCSIS config file)

Specification	Value
Voice (continued)	
Voice CODEC support	Negotiate CODEC to use based on ordered list
CODECs	Standard: G.711, T.38 Fax Relay, iLBC and BV16 Software upgradeable to support other CODEC combinations including: <ul style="list-style-type: none"> • G.711 and G.728 • G.711 and G.729 • G.711 and G.729 a/e • G.711 and BV16 and BV32 (High fidelity – near CD quality) • G.711 and G.723 • G.711 and G.726
Line Diagnostics	GR-909
CODEC Packetization Levels	10, 20, or 30 mS
CODEC Synchronization	CODEC synchronization to UGS time clock allows slip-free end-to-end sync to PSTN clock (minimizes frame slips that can cause Fax/Analog Modem call failures)
CODEC Encryption	Configurable to support AES-128 encryption or no encryption modes
Hearing Impaired Services Support	TDD support including detection of V.18 including Annex A
Fax and Analog Modem support	DSP based Modem/Fax Tone detection and support for Voice Band Data Mode with auto-CODEC negotiation and auto-control of echo canceller, jitter buffer, and voice activated detection (VAD)
Jitter Buffer Support	Adaptive dynamically controlled
Latency Control	Configurable min / max jitter buffer size
Audio Gain Levels	Independently configurable transmit and receive audio gains
Silence Suppression	Configurable VAD with comfort noise generation
Packet Loss Concealment	ANSI T1.521-1999
Call Connection Quality Monitoring	RTCP, RFC 1889, RFC 1890, SNMP MIB for last-call quality statistics
Dialing Modes	DTMF and configurable pulse dial support
DTMF Relay	RFC 2833 including fast (40mS) DTMF Relay for alarm system signaling compatibility
Layer 2 Quality of Service	<ul style="list-style-type: none"> • Full PacketCable secure DQOS with GateID including UGS and UGS/AD • DQoS-lite support including UGS and UGS/AD
Layer 3 Quality of Service	Configurable DiffServe/TOS support for Signaling, RTP, and RTCP flows
Payload Header Suppression (PHS)	<ul style="list-style-type: none"> • Supported for RTP and RTCP packet flows to reduce per-call network bandwidth • Advanced support for Dynamic Payload Header Suppression using Propane Technology
Management	SNMPv3, SNMPv2, SNMPv1, Telnet/SSH with configurable user ID and password, internal log, and external Syslog support
Echo Cancellation	<ul style="list-style-type: none"> • G.168 with extended echo tail support • 32 mS max tail length
VAD	Voice activity detection
CNG	Comfort noise generation
Voice band data	Machine tone detection used to auto switch to data optimized CODEC configuration
T.38 Fax	Supports V.29 and V.17 Modem

Specification	Value
Voice (continued)	
Call Feature Support	<ul style="list-style-type: none"> • Caller ID • Call Waiting with Caller ID • Cancel Call Waiting • Call Conferencing (3-way calls) • Configurable Hook-Flash Support • Distinctive Ringing (Configurable for up to 11 ring patterns per phone line) • Ring Splash • Stutter Dial Tone • Off hook Warning Tone • Open Switch Interval support to enhance answering machine compatibility • Configurable Star Codes • Euro/US Hook-Flash Type • Call Transfer • Message Waiting Indicator • Warm Line • Call Forwarding Unconditional • Call Forwarding on Busy • Call Forwarding No Answer • Call Return • Redial Call • Automatic Redial • Other call features available with compliant CMS or gateway
Networking (non-call) Services	<ul style="list-style-type: none"> • Known Good Proxy • Proxy Failover • Registration Control • UDP, TCP • TLS • DNS • DQoS-lite • STUN • Static NAT • NAT Keep Alive
SIP Header Control	<ul style="list-style-type: none"> • User-Agent Header Control • Server Header Control • Accept Language Header Control • Proxy Require Header Control • FQDN in URI Control • To-tag Matching Control • Escape Star Character in URI Field
Administrative Features	<ul style="list-style-type: none"> • Call Data Record • Call Statistics Agent • Debug Console Logging • Debug Logger
Telephone Ring Loading	Full 5 REN support on each phone line (10 REN total)
Ring Signal	Configurable balanced ring with configurable DC offset
Max Phone Line Distance	Supports up to 1000 ft of AWG26 wire (0.4 mm) on each phone line. Supports operation with typical in-home telephone wiring
Country-Specific Telephone Parameters Supported	Australia, United States, Japan, United Kingdom, Germany, France, Belgium, Netherlands, Finland, Italy, Switzerland, Sweden, Denmark, Brazil, Poland, Czech, Hungary, Romania, ETSI 101 909-18
IPV6	Dual IPV4/IPV6 CM and EMTA

Specification	Value
Residential Gateway	
Gateway Configuration Management	<ul style="list-style-type: none"> • TR-069 and subset of TR-098 data model (optional) • Extensive custom SNMP MIB for the Gateway • Provisioning with XML and/or with SNMP • HNAP server 1.2+
ICSA (Independent Computer Security Association) Firewall Compliant	<ul style="list-style-type: none"> • Web filtering: Pop-ups, Cookies, Java & ActiveX scripts • Intrusion detection/prevention: WAN ping blocking, IP fragment blocking, Port scan detection, TCP Port Probe, UDP Port Probe • DoS Protection: inbound, outbound, WAN interface, LAN interface, SYN flood, Ping of Death, Smurf, Bonk, Jolt, Land, Nestea, Newtear, Syndrop, Teardrop, WinNuke/OOBNuke (Invalid TCP urgent pointer), x1234, Saihyousen, Oshare, ARP flood, TCP Hijacking, Christmas Tree, SYN/FIN (jackal), BackOffice (UDP 32337), NetBus, ICMP Flooding, • IP Address, Port Number, MAC address filtering • TCP flags, ICMP types fragmentation • Connection Creation and Teardown • Timestamps and Payload Modification
Parental Controls	<ul style="list-style-type: none"> • Per-User Policies • Keyword blocking • Domain name blocking • Time of day filters • MAC Address Filtering
Advanced Event Logging	<ul style="list-style-type: none"> • Filtering Activity • Session Tracking • User Notification via E-mail Alert and SNMP Traps
Routing Features	<ul style="list-style-type: none"> • NAT, NAT, and Pass-through (layer 2) Operational Modes • RFC3489 (STUN) "Port-restricted cone NAT" behavior • RIP v1/v2, with MD5 • Static Routes • Port Forwarding • Port Triggering • UPnP IGD 1.0 • IPSec Pass-through • L2TP Pass-through • PPTP Pass-through • ALG support: mIRC, PIRCH, MS NetMeeting, Net2phone, AOL and MSN Messenger, Yahoo Messenger, Go2Call, Hotline Server, Visual IRC, CuSeeme, AT&T Instant, Messenger Anywhere, Active Worlds, Buddy Phone Calista IP Phone, Delta Three PC to Phone, Dial Pad, Dwyco Video Conferencing, OrbitRC, Xircon, Netscape Chat, FTP, H.323, ICQ
Wireless Access Point	6 or 8 MHz
802.11 b/g/n	<ul style="list-style-type: none"> • 2x2 2.4 GHz or optional 2x2 2.4 GHz/5 GHz Dual-Band, non-concurrent, wireless access point • (2) Internal Antennas • Wi-Fi Compliant Security (WPA2-Enterprise, WPA2-PSK, WPA-Enterprise, WPA-PSK, WEP) • WMM-QoS (Wireless Multi Media - Quality of Service) • WMM Power Save • WPS • Wireless Bridging - WDS (Wireless Distribution System) – allows connection to "Range Extender Products" • RADIUS Authentication (Client, EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-MD5) • MBSSID (4 SSIDs with unique NAT scopes) • Wi-Fi "Hot Spot" support (Static DHCP IP Scope over tunnel)
Input Impedance	75 ohms

Specification	Value					
RF Upstream						
Operating Frequency Range	5 to 42 MHz					
Transmitter Frequency Range	5 to 42 MHz					
Upstream Transmission	4 upstream channels					
Modulation	QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM / ATDMA, 128 QAM / SCDMA					
Maximum Data Rate per channel	<u>Modulation</u>	<u>Channel Bandwidth (MHz)</u>	<u>Raw Data Rate (Mbps)</u>			
	QPSK	1.6	2.56			
	16 QAM	1.6	5.12			
	QPSK	3.2	5.12			
	16 QAM	3.2	10.2			
	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	30.7			
Bandwidth	200 kHz to 6.4 MHz					
Maximum Operating Level	<u>Modulation</u>	<u>One Channel</u>	<u>2 Channels</u>	<u>3 or 4 Channels</u>		
	TDMA	QPSK	+61 dBmV	+58 dBmV	+55 dBmV	
		8 QAM	+58 dBmV	+55 dBmV	+52 dBmV	
		16 QAM	+58 dBmV	+55 dBmV	+52 dBmV	
		32 QAM	+57 dBmV	+54 dBmV	+51 dBmV	
		64 QAM	+57 dBmV	+54 dBmV	+51 dBmV	
	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	
		Electrical				
		Input Voltage	15 VDC			
Power Consumption		~18 Watts Online				
Data Ports	1000/100/10BASE-T (Auto-negotiate with Auto-MDIX): RJ-45 Ethernet (4) USB 2.0: USB Type 1 (1)					
Telephony Ports	RJ-11 (2)					
RF	Female F-Type					
Output Impedance	75 ohms					

Specification	Value
Mechanical	
Dimensions (W x D x H)	F-Type connector included: 7 in. x 6.25 in. x 2.75 in. (18 cm x 16 cm x 7 cm) F-Type connector not included: 7 in. x 5.9 in. x 2.75 in. (18 cm x 15 cm x 7 cm)
Weight	1 lb. 4.5 oz. (0.582 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, 2.0, 1.1, 1.0, PacketCable 1.5, 1.0 IEEE 802.11n WEP, WPA, and WPA2 WMM, WPS
Regulatory Compliance	
Regulatory and Safety Approvals	As required per country where the DPQ3925 will be used

Ordering Information

Table 4. Ordering Information

Description	Part Number
DPQ3925 DOCSIS 3.0 Wireless Residential Gateway with Embedded Digital Voice Adapter. Includes: <ul style="list-style-type: none"> • 802.11n 2x2 2.4 GHz • 100-240 VAC/50-60 Hz internal power supply • Power cable, North America (polarized) • No Li-Ion battery provided • Ethernet cable • CD-ROM containing user guide North America	4034784
DPQ3925 DOCSIS 3.0 Wireless Residential Gateway with Embedded Digital Voice Adapter. Includes: <ul style="list-style-type: none"> • 802.11n Wireless Access Point, single band, 2x2 2.4 GHz • 100-240 VAC/50-60 Hz internal power supply • Power cable, North America (polarized) • One (1) 2600 mAh Lithium-Ion battery • Ethernet cable • CD-ROM containing user guide North America	4034785
DPQ3925 DOCSIS 3.0 Wireless Residential Gateway with Embedded Digital Voice Adapter. Includes: <ul style="list-style-type: none"> • 802.11n Wireless Access Point, dual band, 2x2 2.4/5 GHz, non-concurrent • 100-240 VAC/50-60 Hz internal power supply • Power cable, North America (polarized) • No Li-Ion battery provided • Ethernet cable • CD-ROM containing user guide North America	4036669
DPQ3925 DOCSIS 3.0 Embedded Digital Voice Adapter. Includes: <ul style="list-style-type: none"> • No 802.11n Wireless Access Point • 100-240 VAC/50-60 Hz internal power supply • Power cable, North America (polarized) • No Li-Ion battery provided • Ethernet cable • CD-ROM containing user guide North America (Customer-specific configuration)	4039762

Description	Part Number
DPQ3925 DOCSIS 3.0 Wireless Residential Gateway with Embedded Digital Voice Adapter. Includes: <ul style="list-style-type: none"> • 802.11n Wireless Access Point, single band, 2x2 2.4 GHz • 100-240 VAC/50-60 Hz internal power supply • Power cable, Europe (non-polarized) • One (1) 2200 mAh Lithium-Ion battery provided • Ethernet cable • CD-ROM containing user guide Chile	4038586
DPQ3925 DOCSIS 3.0 Wireless Residential Gateway with Embedded Digital Voice Adapter. Includes: <ul style="list-style-type: none"> • 802.11n Wireless Access Point, single band, 2x2 2.4 GHz • 100-240 VAC/50-60 Hz internal power supply • Power cable, Europe (non-polarized) • One (1) 2200 mAh Lithium-Ion battery • Ethernet cable • CD-ROM containing user guide Chile	4038046
DPQ3925 DOCSIS 3.0 Wireless Residential Gateway with Embedded Digital Voice Adapter. Includes: <ul style="list-style-type: none"> • 802.11n Wireless Access Point, single band, 2x2 2.4 GHz • 100-240 VAC/50-60 Hz internal power supply • Power cable, Europe (non-polarized) • One (1) 2600 mAh Lithium-Ion battery • Ethernet cable • CD-ROM containing user guide Chile	4038045
DPQ3925 DOCSIS 3.0 Wireless Residential Gateway with Embedded Digital Voice Adapter. Includes: <ul style="list-style-type: none"> • 802.11n Wireless Access Point, dual band, 2x2 2.4/5 GHz, non-concurrent • 100-240 VAC/50-60 Hz internal power supply • Power cable, North America (polarized) • One (1) 2600 mAh Lithium-Ion battery provided • Ethernet cable • CD-ROM containing user guide North America	4036670
DPQ3925 DOCSIS 3.0 Embedded Digital Voice Adapter. Includes: <ul style="list-style-type: none"> • No 802.11n Wireless Access Point • 100-240 VAC/50-60 Hz internal power supply • Power cable, North America (polarized) • One (1) 2600 mAh Lithium-Ion battery • Ethernet cable • CD-ROM containing user guide North America (Customer-specific configuration)	4038585
DPQ3925 DOCSIS 3.0 Wireless Residential Gateway with Embedded Digital Voice Adapter. Includes: <ul style="list-style-type: none"> • 802.11n Wireless Access Point, dual band, 2x2 2.4/5 GHz, non-concurrent • 100-240 VAC/50-60 Hz, 15 VDC / 1.5 A wall-mount switching-regulated power supply, Australia • No Li-Ion battery provided • Ethernet cable • CD-ROM containing user guide Australia (Customer-specific configuration)	4035127
DPQ3925 DOCSIS 3.0 Wireless Residential Gateway with Embedded Digital Voice Adapter. Includes: <ul style="list-style-type: none"> • 802.11n Wireless Access Point, single band, 2x2 2.4 GHz • 100-240 VAC/50-60 Hz internal power supply • Power cable, North America (polarized) • No Li-Ion battery • Ethernet cable • CD-ROM containing user guide North America	4039638

Description	Part Number
DPQ3925 DOCSIS 3.0 Wireless Residential Gateway with Embedded Digital Voice Adapter. Includes: <ul style="list-style-type: none"> • 802.11n Wireless Access Point, single band, 2x2 2.4 GHz • 100-240 VAC/50-60 Hz internal power supply • Power cable, North America (polarized) • One (1) 2600 mAh Lithium-Ion battery • Ethernet cable • CD-ROM containing user guide North America	4039639

Replacement Components

Table 5. Replacement Components

Description	Part Number
Power Supply	
100-240 VAC/50-60 Hz, 15 VDC / 1.5 A Wall-mount switching-regulated power supply, Australia	4034526
Power Cord	
Power cord, 2 conductors, NEMA 1-15P to C7P, 6 foot, North America (polarized)	186750
Power cord, 2 conductors, CEE7/16 to C7, 6 foot, Europe (non-polarized)	503414
Data Cable	
Ethernet, 1.2 meters	740580
Ethernet, 2.0 meters	4018790
Battery	
2200 mAh Li-Ion, battery, 3 cells	4008300
2600 mAh, Li-Ion battery, 3 cells	4033435
CD-ROM	
CD-ROM with user guide	4034509



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