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.¹

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)

¹ Channel Bonded cable modems must be used in conjunction with CMTSs that support Channel Bonded bonding per the DOCSIS 3.0 specifications. When used with non-Channel Bonded CMTSs, Channel Bonded cable modems function as conventional DOCSIS 2.0 cable modems.
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
- Compliant with DOCSIS 3.0, 2.0, 1.1, and 1.0 standards along with PacketCable 1.5, and 1.0 specifications to deliver high-end performance and reliability

Connections
- Four 1000/100/10BASE-T Ethernet ports to provide wired connectivity
- High-performance broadband Internet connectivity to energize your online experience
- 802.11n Wireless Access Point (WAP) with four Service Set Identifiers (SSIDs)
- 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
- User-friendly web GUI with simplified navigation and quick setup feature
- Context-sensitive pop-up Help for each configuration page
- DOCSIS-5 compliant LED labeling and behavior provides a user- and technician-friendly method to check operational status and act as a troubleshooting tool
- Attractive, compact design and versatile orientation to stand vertically, lie flat on the desktop or shelf, or mount easily on a wall
- TR-068 compliant color-coded interface ports and corresponding cables simplify installation and setup

Management
- Allows automatic software upgrades by your service provider
- Provisionable via 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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicators</td>
<td>Power, DS, US, Online, Ethernet, USB, Wireless Link, Wireless Setup, Tel1, Tel2, Battery</td>
</tr>
<tr>
<td>Color</td>
<td>Black, black lens, silver text</td>
</tr>
<tr>
<td>Branding</td>
<td>Cisco and model number</td>
</tr>
</tbody>
</table>
Table 2. Back Panel Features

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

#### Table 3. Product Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
</table>
| **Voice**          | - 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  
                                 - 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-sip-replaces-02 The Session Initiation Protocol (SIP) "Replaces" Header  
                                 - Draft-ietf-sip-session-timer-08 The SIP Session Timer  
                                 - Draft-ietf-sip-transfer-01 Session Initiation Protocol Call Control – Transfer  
                                 - Draft-ietf-sipping-realtimefax-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) | - SIP Signaling Port (local receive and source port)  
                                 - SIP Registrar  
                                 - SIP Proxy  
                                 - SIP Outbound Proxy  
                                 - Username  
                                 - Password  
                                 - Authentication name |
| **Provisioning Modes** | - 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) |
<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voice CODEC support</td>
<td>Negotiate CODEC to use based on ordered list</td>
</tr>
</tbody>
</table>
| CODECs                                 | Standard: G.711, T.38 Fax Relay, iLBC and BV16  
Software upgradeable to support other CODEC combinations including:  
- 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 Modern 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            |  
- 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)       |  
- 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                      |  
- G.168 with extended echo tail support  
- 32 mS max tail length                                                                                                                   |
<p>| 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                                                                                                            |</p>
<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Voice (continued)</strong></td>
<td></td>
</tr>
</tbody>
</table>
| Call Feature Support          | • 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 | • Known Good Proxy  
• Proxy Failover  
• Registration Control  
• UDP, TCP  
• TLS  
• DNS  
• DQoS-lite  
• STUN  
• Static NAT  
• NAT Keep Alive |
| SIP Header Control            | • 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       | • 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 |
<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential Gateway</td>
<td>• IP Address and Port Number</td>
</tr>
<tr>
<td></td>
<td>• TCP flags, ICMP types, fragmentation</td>
</tr>
<tr>
<td></td>
<td>• Connection Creation and Teardown</td>
</tr>
<tr>
<td></td>
<td>• Timestamps</td>
</tr>
<tr>
<td></td>
<td>• Payload Modification</td>
</tr>
<tr>
<td>ICSA (Independent Computer Security Association) Firewall Compliant</td>
<td>• Content Filtering with Per-User Policies</td>
</tr>
<tr>
<td></td>
<td>• Domain Block/Deny</td>
</tr>
<tr>
<td></td>
<td>• Keyword Blocking</td>
</tr>
<tr>
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<td>• Java X Applet Blocking</td>
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<tr>
<td></td>
<td>• Per-User MAC Address Filtering</td>
</tr>
<tr>
<td>Parental Controls</td>
<td>• Filtering Activity</td>
</tr>
<tr>
<td></td>
<td>• Session Tracking</td>
</tr>
<tr>
<td></td>
<td>• User Notification via E-mail Alert and SNMP Traps</td>
</tr>
<tr>
<td>Advanced Event Logging</td>
<td>• Replay Attack Protection</td>
</tr>
<tr>
<td></td>
<td>• Malformed Packet Protection</td>
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<tr>
<td>DOS attack protection</td>
<td>• TCP Hijacking</td>
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<tr>
<td></td>
<td>• LAND Attack</td>
</tr>
<tr>
<td></td>
<td>• WinNuke/OOBNuke (Invalid TCP urgent pointer)</td>
</tr>
<tr>
<td></td>
<td>• Christmas Tree</td>
</tr>
<tr>
<td></td>
<td>• SYN/FIN (jackal)</td>
</tr>
<tr>
<td></td>
<td>• BackOffice (UDP 32337)</td>
</tr>
<tr>
<td></td>
<td>• NetBus</td>
</tr>
<tr>
<td></td>
<td>• Smurf</td>
</tr>
<tr>
<td></td>
<td>• Tear Drop</td>
</tr>
<tr>
<td></td>
<td>• ICMP Flooding</td>
</tr>
<tr>
<td></td>
<td>• Ping of Death</td>
</tr>
<tr>
<td></td>
<td>• TCP Port Probe</td>
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<td></td>
<td>• UDP Port Probe</td>
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<td>• New Tear</td>
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<td>• Nestea</td>
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<td></td>
<td>• SYNdrop</td>
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<td></td>
<td>• Jolt</td>
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<td></td>
<td>• Boink</td>
</tr>
<tr>
<td></td>
<td>• Bonk</td>
</tr>
<tr>
<td>Routing Features</td>
<td>• NAPT, NAT, and Pass-through (layer 2) Operational Modes</td>
</tr>
<tr>
<td></td>
<td>• RIP v1/v2</td>
</tr>
<tr>
<td></td>
<td>• Static Routes</td>
</tr>
<tr>
<td></td>
<td>• Port Forwarding</td>
</tr>
<tr>
<td></td>
<td>• Port Triggering</td>
</tr>
<tr>
<td></td>
<td>• UPnP IGD 1.0, QoS 1.0</td>
</tr>
<tr>
<td>Specification</td>
<td>Value</td>
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<tr>
<td>--------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Residential Gateway (continued)</strong></td>
<td></td>
</tr>
<tr>
<td>ALG Support</td>
<td>● FTP</td>
</tr>
<tr>
<td></td>
<td>● Real Audio</td>
</tr>
<tr>
<td></td>
<td>● H.323</td>
</tr>
<tr>
<td></td>
<td>● ICQ</td>
</tr>
<tr>
<td></td>
<td>● IPSec Pass-through</td>
</tr>
<tr>
<td></td>
<td>● L2TP Pass-through</td>
</tr>
<tr>
<td></td>
<td>● PPTP Pass-through</td>
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<tr>
<td></td>
<td>● TFTP</td>
</tr>
<tr>
<td></td>
<td>● miIRC</td>
</tr>
<tr>
<td></td>
<td>● PIRCH</td>
</tr>
<tr>
<td></td>
<td>● MS NetMeeting</td>
</tr>
<tr>
<td></td>
<td>● Net2phone</td>
</tr>
<tr>
<td></td>
<td>● AOL and MSN Messenger</td>
</tr>
<tr>
<td></td>
<td>● Yahoo Messenger</td>
</tr>
<tr>
<td></td>
<td>● Go2Call</td>
</tr>
<tr>
<td></td>
<td>● Hotline Server</td>
</tr>
<tr>
<td></td>
<td>● Visual IRC</td>
</tr>
<tr>
<td></td>
<td>● CuSeeme</td>
</tr>
<tr>
<td></td>
<td>● AT&amp;T Instant Messenger Anywhere</td>
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<tr>
<td></td>
<td>● Active Worlds</td>
</tr>
<tr>
<td></td>
<td>● Buddy Phone Calista IP Phone</td>
</tr>
<tr>
<td></td>
<td>● Delta Three PC to Phone</td>
</tr>
<tr>
<td></td>
<td>● Dial Pad</td>
</tr>
<tr>
<td></td>
<td>● Dwyco Video Conferencing</td>
</tr>
<tr>
<td></td>
<td>● OrbitRC</td>
</tr>
<tr>
<td></td>
<td>● Xircon</td>
</tr>
<tr>
<td></td>
<td>● Netscape Chat</td>
</tr>
<tr>
<td><strong>Wireless Access Point</strong></td>
<td></td>
</tr>
<tr>
<td>802.11n</td>
<td>● 2x2 2.4 GHz or 2x2 2.4/5 GHz Dual Band non-concurrent wireless access point</td>
</tr>
<tr>
<td></td>
<td>● (2) Internal Antennas</td>
</tr>
<tr>
<td></td>
<td>● Wi-Fi Compliant (WPA, WPA2, WPA2-PSK, WPA-PSK, WEP)</td>
</tr>
<tr>
<td></td>
<td>● WMM-QoS (Wireless Multi Media - Quality of Service), WMM-Power Save</td>
</tr>
<tr>
<td></td>
<td>● WPS</td>
</tr>
<tr>
<td></td>
<td>● Wireless Bridging - WDS (Wireless Distribution System) – allows connection to “Range Extender Products”</td>
</tr>
<tr>
<td></td>
<td>● RADIUS Authentication (Client, EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-MD5)</td>
</tr>
<tr>
<td></td>
<td>● MBSSID (4 SSIDs with unique NAT scopes)</td>
</tr>
<tr>
<td></td>
<td>● Wi-Fi “Hot Spot” support (Static DHCP IP Scope over tunnel)</td>
</tr>
<tr>
<td><strong>RF Downstream</strong></td>
<td></td>
</tr>
<tr>
<td>Operating Frequency Range</td>
<td>54 to 1002 MHz (factory-option) or 88 to 1002 MHz</td>
</tr>
<tr>
<td>Tuner Frequency Range</td>
<td>88 to 1002 MHz</td>
</tr>
<tr>
<td>Tuner</td>
<td>(2) Frequency agile block tuners, 32 MHz bandpass each</td>
</tr>
<tr>
<td>Demodulation</td>
<td>8 demodulators, 4 per tuner, each demodulator; 64 QAM or 256 QAM</td>
</tr>
<tr>
<td>Maximum Data Rate</td>
<td>8 downstream channels, each 6 MHz channel; 30.34 Mbps for 64 QAM and 42.88 Mbps for 256 QAM</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>6 or 8 MHz</td>
</tr>
<tr>
<td>Operating Level Range</td>
<td>-15 to +15 dBmV</td>
</tr>
<tr>
<td>Input Impedance</td>
<td>75 ohms</td>
</tr>
<tr>
<td>Specification</td>
<td>Value</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>RF Upstream</strong></td>
<td></td>
</tr>
<tr>
<td>Operating Frequency Range</td>
<td>5 to 42 MHz</td>
</tr>
<tr>
<td>Transmitter Frequency Range</td>
<td>5 to 42 MHz</td>
</tr>
<tr>
<td>Upstream Transmission</td>
<td>4 upstream channels</td>
</tr>
<tr>
<td>Modulation</td>
<td>QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM / ATDMA, 128 QAM / SCDMA</td>
</tr>
<tr>
<td>Maximum Data Rate per channel</td>
<td></td>
</tr>
<tr>
<td>Modulation</td>
<td>Channel Bandwidth (MHz)</td>
</tr>
<tr>
<td>QPSK</td>
<td>1.6</td>
</tr>
<tr>
<td>16 QAM</td>
<td>1.6</td>
</tr>
<tr>
<td>QPSK</td>
<td>3.2</td>
</tr>
<tr>
<td>16 QAM</td>
<td>3.2</td>
</tr>
<tr>
<td>32 QAM</td>
<td>3.2</td>
</tr>
<tr>
<td>64 QAM</td>
<td>3.2</td>
</tr>
<tr>
<td>16 QAM</td>
<td>6.4</td>
</tr>
<tr>
<td>32 QAM</td>
<td>6.4</td>
</tr>
<tr>
<td>64 QAM</td>
<td>6.4</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>200 kHz to 6.4 MHz</td>
</tr>
<tr>
<td>Maximum Operating Level</td>
<td></td>
</tr>
<tr>
<td>TDMA</td>
<td></td>
</tr>
<tr>
<td>Modulation</td>
<td>One Channel</td>
</tr>
<tr>
<td>QPSK</td>
<td>+61 dBmV</td>
</tr>
<tr>
<td>8 QAM</td>
<td>+58 dBmV</td>
</tr>
<tr>
<td>16 QAM</td>
<td>+58 dBmV</td>
</tr>
<tr>
<td>32 QAM</td>
<td>+57 dBmV</td>
</tr>
<tr>
<td>64 QAM</td>
<td>+57 dBmV</td>
</tr>
<tr>
<td>QPSK</td>
<td>+56 dBmV</td>
</tr>
<tr>
<td>8 QAM</td>
<td>+56 dBmV</td>
</tr>
<tr>
<td>16 QAM</td>
<td>+56 dBmV</td>
</tr>
<tr>
<td>32 QAM</td>
<td>+56 dBmV</td>
</tr>
<tr>
<td>64 QAM</td>
<td>+56 dBmV</td>
</tr>
<tr>
<td>128 QAM</td>
<td>+56 dBmV</td>
</tr>
<tr>
<td>Electrical</td>
<td></td>
</tr>
<tr>
<td>Input Voltage</td>
<td>15 VDC</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>~18 Watts Online</td>
</tr>
<tr>
<td>Data Ports</td>
<td>1000/100/10BASE-T (Auto-negotiate with Auto-MDIX): RJ-45 Ethernet (4) USB 2.0: USB Type 1 (1)</td>
</tr>
<tr>
<td>Telephony Ports</td>
<td>RJ-11 (2)</td>
</tr>
<tr>
<td>RF</td>
<td>Female F-Type</td>
</tr>
<tr>
<td>Output Impedance</td>
<td>75 ohms</td>
</tr>
<tr>
<td>Mechanical</td>
<td></td>
</tr>
<tr>
<td>Dimensions (W x D x H)</td>
<td>F-Type connector included:</td>
</tr>
<tr>
<td></td>
<td>7 in. x 6.25 in. x 2.75 in. (18 cm x 16 cm x 7 cm)</td>
</tr>
<tr>
<td></td>
<td>F-Type connector not included:</td>
</tr>
<tr>
<td></td>
<td>7 in. x 5.9 in. x 2.75 in. (18 cm x 15 cm x 7 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>1 lb. 4.5 oz. (0.582 kg)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>32˚ to 104˚F (-0˚ to 40˚C)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>0 to 95% RH non-condensing</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-4˚ to 158˚F (-20˚ to 70˚C)</td>
</tr>
</tbody>
</table>
Specification | Value
---|---
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

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
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</thead>
</table>
| DPQ3925 DOCSIS 3.0 Wireless Residential Gateway with Embedded Digital Voice Adapter. Includes:  
• 100-240 VAC/50-60 Hz Internal power supply  
• 802.11n 2x2 2.4 GHz  
• Power cable, North America  
• Ethernet cable  
• Battery not provided  
• CD-ROM containing user guide  
**North America** | 4034784 |
| DPQ3925 DOCSIS 3.0 Wireless Residential Gateway with Embedded Digital Voice Adapter. Includes:  
• 100-240 VAC/50-60 Hz Internal power supply  
• 802.11n 2x2 2.4 GHz  
• 2600 mAh Lithium-Ion battery cartridge  
• Power cable, North America  
• Ethernet cable  
• CD-ROM containing user guide  
**North America** | 4034785 |
## Replacement Components

**Table 5.** Replacement Components

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Cord</td>
<td></td>
</tr>
<tr>
<td>Power Cord, North America</td>
<td>1002239</td>
</tr>
<tr>
<td>Data Cable</td>
<td></td>
</tr>
<tr>
<td>Ethernet, 1.2 meters</td>
<td>740580</td>
</tr>
<tr>
<td>Battery</td>
<td></td>
</tr>
<tr>
<td>Battery, Lithium-Ion, 2600 mAh</td>
<td>4033435</td>
</tr>
<tr>
<td>CD-ROM</td>
<td></td>
</tr>
<tr>
<td>CD-ROM with User Guide</td>
<td>4034509</td>
</tr>
</tbody>
</table>