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Cisco Model DPC3941B DOCSIS 3.0 24x4 Wireless Business Gateway

If you're looking for a cost-effective, high performance networking gateway for a small office, you've just found it. The Cisco[®] Model DPC3941B DOCSIS 3.0 24x4 Wireless Business Gateway is multiple solutions in one product. It combines a cable modem, a router, and 802.11ac wireless access points in a single device. The gateway delivers a faster connection to the Internet by incorporating 24 bonded downstream channels along with four bonded upstream channels. The bonded channels can deliver downstream data rates that exceed 900 Mbps and upstream data rates that exceed 120 Mbps. Downstream rates are up to 24 times faster than conventional single-channel DOCSIS[®] 2.0 cable modem rates.

The Cisco Model DPC3941B Business Gateway (Figure 1) is designed to meet DOCSIS 3.0 specifications and backward compatibility for operation in DOCSIS 2.0, 1.1, and 1.0 networks.



Figure 1. Cisco Model DPC3941B DOCSIS 3.0 24x4 Wireless Business Gateway (Image Below May Vary from Actual Product) The integrated router features a Dynamic Host Configuration Protocol (DHCP) server, Network Address Translation (NAT), Network Address Port Translation (NAPT), and a stateful packet inspection (SPI) firewall. These features allow the user to share a single high-speed public Internet connection and to share files and folders between devices in the home network by attaching multiple wired and wireless devices in the active home or office to the wireless Business gateway.

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

Features

DOCSIS

• Compliant with DOCSIS 3.0, 2.0, 1.1, and 1.0 standards to deliver high-end performance and reliability

Connections

- Four 10/100/1000BASE-T Ethernet ports to provide wired connectivity
- · High-performance broadband Internet connectivity
- Optional: Two USB 2.0 Type 2 connections
- Dual-band concurrent 802.11ac Wireless Access Point (WAP) with eight Service Set Identifiers (SSIDs) compatible with 802.11b/g/n
- WPS, including a push-button switch to activate WPS for simplified and highly secure wireless setup

Design and Function

- · Attractive, compact design and versatile orientation to stand vertically
- LED status indicators on the front panel, providing an informative and easy-to-understand display that indicates the operational status
- TR-068-compliant, color-coded interface ports and corresponding cables that simplify installation and setup

Management

- · User-configurable parental controls that block access to undesirable Internet sites
- · Advanced firewall technology that deters hackers and protects the home network from unauthorized access
- Automatic software upgrades by your service provider allowed

Software and Documentation

• User guide and optional USB driver installation software that can be downloaded from Cisco.com

Table 1.Front-Panel Features

| Feature | Description |
|-------------------------|---|
| Indicators and controls | Power, DS/US, Online, WiFi1, WiFi2, Tel1, Tel2, and Battery |
| Color | Black, black lens, and silver text |
| Branding | Xfinity and Comcast model name |



Figure 2. Cisco Model DPC3941B Business Gateway Top Panel (Image Below May Vary from Actual Product)

Table 2.Top-Panel Features

| Feature | Description |
|-------------------------|------------------------------------|
| Indicators and controls | WPS and page |
| Color | Black, black lens, and silver text |

 Figure 3.
 Cisco Model DPC3941B Business Gateway Back Panel (Image Below May Vary from Actual Product)



Table 3. Back-Panel Features

| Feature | Description |
|--|---|
| RESET | Performs a soft configuration reset of the Cisco Model DPC3941B. |
| USB Connector color: blue | Optional (2): Each Type 2 USB 2.0 port connects to a USB port on a printer or another USB device. |
| ETHERNET (1- 4) Connector color: yellow | Four RJ-45 Ethernet ports connect to the Ethernet port on your PC or your home network. |
| POWER Connector color: black | Connection for AC power input 120 VAC. |
| ANTENNA (internal) | 6 internal Antenna's. 3 for 2.4 and 3 for 5 GHz. and 802.11ac. |

Figure 4. Cisco Model DPC3941B Business Gateway Bottom Panel (Image Below May Vary from Actual Product)

| 1111111 Bower Jen 20 1111111 Bower Jen 20 11111111 Bower Jen 20 111111111111111111111111111111111111 | PROFERIT OF COMOST ¹⁴ NOT FOR RESALE. REMVING INS STORED REMARKING WITH THIS EQUIPMENT IS A VOLATION OF FEDERAL AND STATE LWM. THIS COMPARISMENT MAST ER SUBJECTION COMOST UPON DEMMIN OR RESONNECTION OF SERVICE. F. NOT, A TEFE OF IP TO SSOR AND LEGAL PENALTIES CAN RESULT FOR INFORMATION ON HOW TO RETURN CALL 1-500-266-2278. | |
|---|---|---|
| MTA MAC 2028A235986 WAR MAC 2020 EININA BEI MININA WAR MAC 2020 EININA BEI MININA HOME-0046-5 HOME-0046-2.4 FC Pasword CCHWD7AATTAHH94R ▲ | Battery | • |
| Encryption: WPAVPA22PSI(TKIP/AES) | Home Alarm For on Installation For one phone line: Connect alarm to Alarm 762 For two phone lines: Connect alarm to 747 using an R/31X jack | |

Table 4. Bottom-Panel Features

| Feature | Description |
|--|--|
| Manufacturer label Color: white with black text | Label with key manufacturing information, such as the part number, serial number, CM MAC address, MTA MAC address, and WAN MAC address |
| Battery Color: black | Battery compartment for a 10.8V lithium-ion, 2600 mAh rechargeable battery Note: 3000mAh battery available as well. |
| | Battery does not ship with gateway but can be ordered separately) |

Product Specifications

| Business Gateway | |
|---|--|
| Gateway configuration management | TR-069 and subset of TR-098 data model (optional) Extensive custom SNMP MIB for the gateway Provisioning with SNMP HNAP server 1.2+ |
| Independent Computer Security Association (ICSA) firewall compliant | Web filtering: pop-ups, cookies, Java, and ActiveX scripts Intrusion detection and prevention: WAN ping blocking, IP fragment blocking, port scan detection, TCP port probe, and 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, and OOBNuke (invalid TCP urgent pointer), x1234, Saihyousen, Oshare, ARP flood, TCP hijacking, Christmas Tree, SYN/FIN (jackal), BackOffice (UDP 32337), NetBus, and ICMP flooding IP address, port number, and MAC address filtering TCP flags and ICMP types fragmentation Connection creation and teardown Timestamps and payload modification |
| Parental controls | Per-user policies Keyword blocking Domain name blocking Time of day filters MAC address filtering |

| Advanced event logging | Filtering activity Session tracking |
|---|---|
| | User notification through email alert and SNMP traps |
| Routing features | User notification through email alert and SNMP traps NAPT, 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 forwarding 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, and ICQ |
| 802.11 b/g/n/ac | 3x3 2.4 and 5 GHz dual-band, concurrent wireless access point 6 internal antennas Wi-Fi-compliant security (WPA2-Enterprise, WPA2-PSK, WPA-Enterprise, WPA-PSK, and WEP) Wireless multimedia quality of service (WMM-QoS) WMM power save WPS |
| | Wireless bridging- Wireless Distribution System (WDS)- that allows connection to "range extender products" RADIUS authentication (client, EAP-TLS, EAP-TTLS, EAP-PEAP, and EAP-MD5) MBSSID (8 SSIDs with unique NAT scopes per radio) |
| MoCA | Wireless bridging- Wireless Distribution System (WDS)- that allows connection to "range extender products" RADIUS authentication (client, EAP-TLS, EAP-TTLS, EAP-PEAP, and EAP-MD5) |
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| Versions Applications Support Applications RF Downstream Operating frequency range | Wireless bridging- Wireless Distribution System (WDS)- that allows connection to "range extender products" RADIUS authentication (client, EAP-TLS, EAP-TTLS, EAP-PEAP, and EAP-MD5) MBSSID (8 SSIDs with unique NAT scopes per radio) Wi-Fi "hot spot" support (static DHCP IP scope over tunnel) MoCA 1.1 and 2.0 N/A 108 to 1002 MHz |
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| Versions Applications Support Applications RF Downstream Operating frequency range Tuner frequency range Tuner Demodulation Maximum data rate | Wireless bridging- Wireless Distribution System (WDS)- that allows connection to "range extender products" RADIUS authentication (client, EAP-TLS, EAP-TTLS, EAP-PEAP, and EAP-MD5) MBSSID (8 SSIDs with unique NAT scopes per radio) Wi-Fi "hot spot" support (static DHCP IP scope over tunnel) MoCA 1.1 and 2.0 N/A 108 to 1002 MHz 108 to 1002 MHz (10 transmission of the transmission of the transmission of transmiss |
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| VersionsApplicationsApplicationsRF DownstreamOperating frequency rangeTuner frequency rangeDemodulationMaximum data rateBandwidthOperating level range | Wireless bridging- Wireless Distribution System (WDS)- that allows connection to "range extender products" RADIUS authentication (client, EAP-TLS, EAP-TTLS, EAP-PEAP, and EAP-MD5) MBSSID (8 SSIDs with unique NAT scopes per radio) Wi-Fi "hot spot" support (static DHCP IP scope over tunnel) MoCA 1.1 and 2.0 N/A 108 to 1002 MHz 108 to 1002 MHz (1) frequency agile block tuner, full-band capture 8 demodulators, each demodulator: 64 QAM or 256 QAM 8 downstream channels, each 6 MHz channel: UP to 24 downstream channels 42.88 Mbps for 256 QAM and 30.34 Mbps for 64 QAM 6 MHz -15 to 15 dBmV |
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| Maximum data rate per channel | Modulation | | Channel Bandwidth (MHz) | | Raw Data Rate (Mbps) | |
|---|---|---------|----------------------------|------------|-------------------------|-----------------|
| | 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 | Modulation | One Ch | annel | 2 Channels | | 3 or 4 Channels |
| TDMA | QPSK | +61 dBr | nV | +58 dBmV | | +55 dBmV |
| | 8 QAM | +58 dBr | nV | +55 dBmV | | +52 dBmV |
| | 16 QAM | +58 dBr | nV | +55 dBmV | | +52 dBmV |
| | 32 QAM | +57 dBr | | +54 dBmV | | +51 dBmV |
| | 64 QAM | +57 dBr | nV | +54 dBmV | | +51 dBmV |
| SCDMA | QPSK | +56 dBr | nV | +53 dBmV | | +53 dBmV |
| | 8 QAM | +56 dBr | nV | +53 dBmV | | +53 dBmV |
| | 16 QAM | +56 dBr | nV | +53 dBmV | | +53 dBmV |
| | 32 QAM | +56 dBr | nV | +53 dBmV | | +53 dBmV |
| | 64 QAM | +56 dBr | nV | +53 dBmV | | +53 dBmV |
| | 128 QAM | +56 dBr | nV | +53 dBmV | | +53 dBmV |
| Electrical | | | | | | |
| Input voltage | 120 VAC | | | | | |
| Power consumption (modem module) | ~17W | | | | | |
| Data ports | Gigabit Ethernet (auto-negotiate with auto-MDIX): RJ-45 Ethernet (4) Optional with some part numbers: USB 2.0 and USB Type 2 (2) | | | | | |
| RF | Female F-Type | | | | | |
| Output impedance | 75 ohms | | | | | |
| Mechanical | | | | | | |
| Dimensions (H x D x W) | 10.59 x 2.17 x 10.55 in. | | | | | |
| Weight | 2.646 lb | | | | | |
| Operating temperature | 32 to 104°F (0 to 40°C) | | | | | |
| Operating humidity | 0 to 95% RH noncondensing | | | | | |
| Storage temperature | -4 to 158°F (-20 to 70°C) | | | | | |
| Standards and Approvals | | | | | | |
| Designed to meet the following standards | DOCSIS 3.0 | | | | | |
| | | | | | | |
| | WPA2, WPA, and WEP WMM, WPS | | | | | |
| Regulatory Compliance | - | | | | | |
| Regulatory and safety approvals | As required per country where the Cisco Model DPC3941B will be used. | | | | | |

Ordering Information

To place an order, visit the <u>Cisco Ordering Home Page</u> and refer to Table 5 and Table 6.

Table 5.Ordering Information

| Description | Part Number |
|--|-------------------|
| Cisco Model DPC3941B DOCSIS 3.0 8x4 Wireless Business Gateway. Includes: | |
| • 802.11ac Wireless Access Point, dual-band concurrent 3x3 | DPC3941B-AMC14-K9 |
| Power cord, North America (nonpolarized) | |

Optional & Replacement Components Ordering Information

Table 6. Optional & Replacement Components

| Description | Part Number |
|--|-------------|
| Power Cord | |
| Power cord, 2 conductors, NEMA 1-15 to C7, North America (polarized) | 4026134 |
| Battery Option | |
| 2600 mAh Lithium-Ion battery | 4033435 |
| 3000 mAh Lithium-Ion battery | 4038047 |



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