D-Link®

Product Highlights
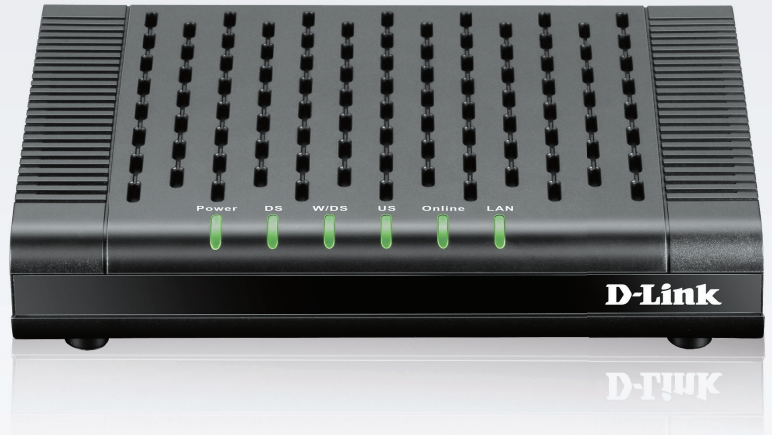
High-Speed Internet

8 times faster than DOCSIS 2.0 with speeds of up to 343Mbps[1]

DOCSIS Compatible

Compatible with major US cable providers, including Time Warner, Comcast and more.[2]

Cost Effective

Save up to $96.00 per year by eliminating modem rental fees[3]

DCM-301
DOCSIS 3.0 Cable Modem

Features

- Gigabit Ehternet port for 10/100/1000Mbps BaseT Ethernet connectivity
- Up to 343Mbps download transmission[1]
- Up to 150Mbps upload transmission[1]
- Supports up to 8 D/S by 4 U/S
- Auto-negotiation MDIX functions
- QoS enhancement
- SNMPv3 remote network management
- IPv6 ready

Gigabit Ethernet Port

Reset Button

Coaxial WAN Connector

Power Button

Power Input

The DCM-301 DOCSIS 3.0 Cable Modem delivers state-of-the-art performance for both home and small business networks. The DCM-301 provides a wired connection for rapid data transfers, voice packets, real-time HD media streaming and online gaming.

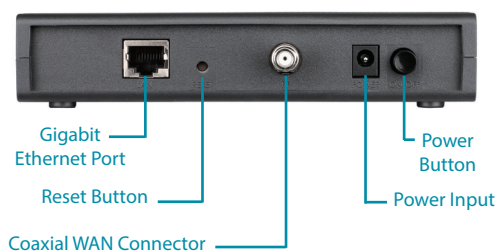## High-Speed Broadband Internet Access

Powered by the DOCSIS 3.0 channel bonding technology, the DCM-301 DOCSIS 3.0 Cable Modem provides download speeds up to 8 times faster than DOCSIS 2.0[1], making it easier to enjoy your favorite Internet applications, such as file sharing, audio and video streaming, Internet TV and website browsing.

Get Connected and Stay Connected

The DCM-301 Cable Modem makes your broadband connection more efficient by cleaning network congestion, resulting in a boost in download speeds, increased bandwidth and enhanced performance. The DCM-301 Cable Modem is DOCSIS CableLabs Certified®, which ensures compatibility with all major U.S. cable companies[2]. The DCM-301 is also backwards compatible with DOCSIS 2.0/1.1/1.0 standards.

Integrated Home Services

DOCSIS 3.0 compliance provides speeds fast enough to support multiple Internet-based services in the home, such as digital television and video on demand.

Technical Specifications

General

Device Interfaces	• 10/100/1000BASE-TX Ethernet Port (Auto MDI/MDIX)	• CATV-Coaxial Female WAN Port
Hardware Features	• DOCSIS 3.0 standard compliant • Backward compliant with DOCSIS 2.0/1.1/1.0 • IEEE 802.3/802.3u 10/100/1000BASE-TX Ethernet • IPv6 support	• QoS priority queueing • MSO SNMPv3 remote network management • Provides MIBs for DOCSIS 1.0/1.1/2.0/3.0
LEDs	• Power • Downstream (DS) • Channel Bonding (W/DS)	• Upstream (UP) • Online • LAN
Operational Support System	• Protocol: IP/TCP/UDP/ARP/DHCP/TP/HTTP/ICMP/SNMP V1, V2c, V3	

Functionality

Data Speed Downstream Receiver	• Demodulation: 8/16/32/64/256/512/1024QAM • Channel bonding maximum: 8 • Maximum downstream speeds: 30 Mbps (640QAM) / 43 Mbps (256QAM) / up to 343 Mbps through 8 channel bonding[1]	• Frequency range: 50 to 1002 MHz +/- 30 KHz • Bandwidth: 6 MHz • Signal level: -15 dBmV to +15 dBmV, automatically gain controlled by CM
Data Speed Upstream Receiver	• Modulation: QPSK, 8/16/32/64/256QAM, 4 U/S • Channel bonding maximum: 4 • Maximum upstream speeds: 30 Mbps (TDMA) / 35 Mbps (SCDMA) / up to 160 Mbps[1]	• Frequency range: 5 to 42 MHz • Bandwidth: 200/400/800/1600/3200/6400 KHz • Output signal level: 8 to 58 dBma (QPSK) / 8 to 54 dBma (32/64QAM) / 8 to 53 dBma (S-CDMA)

Physical

Dimensions	• Item: 5.2 x 6.0 x 1.4 inches	• Box: 6.65 x 8.58 x 2.48 inches
Weight	• Item: 0.65 lbs	• Box: 2.7 lbs
Power Adapter	• Input: DC 120-240 V AC / 50/60 Hz, < 10 W	• Output: 12 V / 1 A DC
Temperature	• Operating: 0 to 40 °C (32 to 104 °F)	• Storage: -20 to 60 °C (-4 to 158 °F)
Humidity	• Operating: 10% to 90% non-condensing	
Certifications	• FCC • CE • cUL • CB	• CableLabs DOCSIS 3.0 CW70 • Time Warner Cable • Comcast • Major US cable providers[2]

Order Information

Part Number	Description
DCM-301	DOCSIS 3.0 Cable Modem

[1] Actual data throughput may vary depending on your individual service contract with your cable provider, the Network conditions and environmental factors, including volume of network traffic, building materials and construction. To enable maximum throughput the Cable service provider must support DOCSIS 3.0.
[2] Certification varies per Cable service provider. Contact your Cable service provider to determine if the DCM-301 is compatible.
[3] Based on typical cable provider modem rental fees.

For more information

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