

DOCSIS 2.0 Cable Modem WBRG-35302



Product information



WBRG-35302

The WBRG 35302 cable modem allows high-speed data transmission through coaxial cable, with downstream speeds of up to >50 Mbps from network to the user, under bridge mode. Based on the latest 2.0 DOCSIS technology, the WBRG 35302 allows to offer users various broadband applications such as video on demand over IP, high-speed Internet access for residential or small office/home office (SOHO), interactive multimedia services, etc.

Features:

- Compliant to MCNS DOCSIS 1.1/2.0 specifications
- Integrated A-TDMA and S-CDMA technology can provide up to 30 Mbps upstream data rate
- Optional TurboDox Enhancement
- 10/100 Base-T Ethernet connectivity
- Supports up to 32 CPE users

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- Ethernet (and optional USB) connections are bridge allowing LAN traffic between CPE device and Ethernet LAN
- Front panel status LED's: Power, Cable (DS/US), Status, Ethernet

- Build-in HTML based diagnostics for quick and easy installation
- Remote management via SNMP
- Software upgradeable over the network

Technical Specifications

Protocol Support

(Euro)DOCSIS 1.1/2.0 Compliant

Connectivity

RF F type female 75Ω connector
RJ-45 10/100 Mbps Ethernet
USB 1.1 Host interface (Optional)

Management

Web-based control configuration and management
Easy-to-read LED's clearly display network status and activity
Power on self diagnostic
Mibs for extended support on DOCSIS

Compliance Certificates

CE Mark
RoHS Compliant
CableLabs

Receiver-Demodulation

Demodulation: 64QAM, 256QAM

Data Rate: 38Mbps (64QAM) / 43Mbps (256QAM) DOCSIS
5120kbps/10Mbps (QPSK/16QAM) DOCSIS
41.4 Mbps(64QAM)/55.2Mbps(256QAM) EuroDOCSIS

Frequency: 91 to 857 MHz ±30 kHz (Center) DOCSIS
108 to 862 MHz ±30 kHz (Edge) EuroDOCSIS
93 to 767 MHz ±30 kHz (Center) DOCSIS-J

Channel bandwidth: 6 MHz (DOCSIS, DOCSIS-J)
8 MHz (EuroDOCSIS)
6 / 8 MHz (Dual Mode)

Signal Level: -15 ... +15 dBmV
(Automatically Gain Controlled by CM)

Transmitter-Modulation

Modulation: QPSK, 8 QAM, 16 QAM,
32QAM, 64 QAM, and 128 QAM (SCDMA only)

Data Rate: 320, 640, 1280, 2560, 5120kbps (QPSK)
640, 1280, 2560, 5120, 10240kbps (16QAM)

Frequency: 5 to 42MHz (edge to edge) DOCSIS
5 to 65MHz (edge to edge) EuroDOCSIS/Dual
5 to 55MHz (edge to edge) DOCSIS-J

Output level of CM can be controlled by
CMTS though power ranging function,
Step: 1 dB

Output Return Loss: >6dB

Mechanical

5 status LEDs: Power, RF, Ethernet, Status, USB (Optional)
Factory default reset button
USB 1.1 Type A host connector (Optional)

Product metrics: 180mm (W) x 44mm (H) x 130mm (D)

Weight: 200 g approximately

Environmental

Supply voltage of external power supply
5 VDC

Power Consumption: 4 Watts (Operational)
3 Watts (Standby)

Operating Temperature: 0°C (32°F) to 40°C (104°F)
10% to 90% (Non condensing)

Storage Temperature: -40°C (-4°F) to 80°C (140°F)

Surge Protection: On RF Input shall sustain at least 4.5 KV
On Ethernet RJ-45 shall sustain at least 3 KV

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