



HitronTechnologies

DOCSIS 3.0 Residential Cable Modem



BRG-35503
Cable Modem

Euro-DOCSIS 3.0
DOCSIS 3.0
CW66 Certified
10/100/1000Mbps
Ethernet

The BRG-35503 cable modem allows very high-speed data transmission through coaxial cable, with 4 DS channels bonding the downstream speeds of up to 220 Mbps from network to the user under bridge mode, and 10/100/1000 Mbps ether port from the user to network.

Based on the latest DOCSIS technology, the BRG-35503 allows MSOs to offer their end-customers various broadband applications such as telecommuting, HD video on demand over IP, high-speed Internet access for residential or small office/home office (SOHO), interactive multimedia services, etc.

The BRG-35503 is an intelligent device that enhances its basic data transmission features with IP V6 support. This makes it especially suitable for the transmission of data based on this protocol.

KEY FEATURES:

- (Euro)DOCSIS 3.0 compliant
- RoHS Compliant
- Full-featured compact, economical cable modem with Ethernet port
- Capable of handling downstream data transmission speeds up to 220Mbps; upstream over 100Mbps (four channels bonding)
- One RJ-45 10/100/1000BaseT Ethernet port industry-standard connection
- One USB-A Host Interface for Web CAM or external USB HDD as NAS file server **(Optional)**
- Extensive SNMP management support: MIB-II, Ethernet like MIB, Bridge MIB, Cable Device MIB, Baseline privacy Interface MIB, RF Interface MIB
- Support for 64 provisioned golden frequencies
- IP address filtering
- Support IPv4 or IPv6 addressing modes

TECHNICAL SPECIFICATION

Protocol Support

- (Euro)DOCSIS 1.1/2.0/3.0 Compliant
- SNMP V1, V2c, V3
- IEEE802.3, 802.3u

Connectivity

- RF F type female 75Ω connector
- RJ-45 10/100/1000Mbps Ethernet (Auto-MDI/MDIX)
- USB 2.0 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
- Hitron proprietary mibs for extended support on DOCSIS

Compliance Certificates

- CE Mark
- RoHS Compliant
- CableLabs Wave 61, 63, 66

Receiver-Demodulation

- Demodulation: 64QAM, 256QAM
- Data Rate:
 - Up to 160 Mbps with 4 Downstream channel bonding (DOCSIS)
 - Up to 220 Mbps with 4 Downstream channel bonding (EuroDOCSIS)
- Frequency (edge to edge):
 - 88 – 1002 MHz (DOCSIS)
 - 108 – 1002 MHz (EuroDOCSIS)
- Channel bandwidth:
 - 6Mhz (DOCSIS, DOCSIS-J)
 - 8Mhz (EuroDOCSIS)
 - 6 / 8 MHz (Dual Mode)
- Signal Level: 17 dBmV

Transmitter-Modulation

- Modulation: QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM, and 128 QAM (SCDMA only)
- Data Rate up to 120 Mbps with 4 Upstream channels bonding
- Frequency (edge to edge):
 - 5 – 42 MHz (DOCSIS)
 - 5 – 65 MHz (EuroDOCSIS)
 - 5 – 65 MHz (DOCSIS-J)
 - 5 – 85 MHz (optional)
- 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, Downlink, Uplink, Ethernet, Status
- Factory default reset button
- USB 2.0 Type A host connector (Optional)
- Product metrics: 180mm (W) x 44mm (H) x 130mm (D)
- Weight: 220g approximately

Environmental

- Supply voltage of external power supply
 - Input 100 – 240 VAC 50/60Hz
 - Output 6VDC, 1.5A
 - Power Consumption: 5 Watts (Operational) 6.5 Watts (Max.)
- Operating Temperature:
 - 0°C (32°F) to 40°C (104°F)
 - 10% to 90% (Non condensing)
- Storage Temperature:
 - -40°C (-4°F) to 60°C (140°F)
- Surge Protection:
 - On RF Input shall sustain at least 3KV
 - On Ethernet RJ-45 shall sustain at least 6KV



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