

# BRG-35503

## DOCSIS 3.0 CABLE MODEM

Intel® Puma™ 5 4x4

DOCSIS/EuroDOCSIS 3.0

4 downstream x 4 upstream channel bonding

Full capture bandwidth tuner

Supports IPv4 and IPv6



### ALWAYS-ON, HIGH-PERFORMANCE INTERNET CONNECTION

The BRG-35503 cable modem allows 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 DOCSIS 3.0 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.

### IPV4 / IPV6 SUPPORT

The BRG-35503 is an intelligent device that enhances its basic data transmission features with IPv6 support. This makes it especially suitable for the transmission of data based on this protocol.

### KEY FEATURES

- DOCSIS/EuroDOCSIS 3.0 compliant
- Well-defined LEDs clearly display device and network status
- Full-featured compact, economical cable modem with Ethernet port
- Extensive operator control via configuration file and SNMP
- 4x4 channel bonding
- CableLabs CW66 certified



## PRODUCT SPECIFICATIONS

### Protocol Support

- DOCSIS/EuroDOCSIS 1.1/2.0/3.0
- SNMP v1, v2C, v3

### Connectivity

- RF F-type female 75Ω connector
- 1 x RJ-45 Ethernet port 10/100/1000 Mbps (Auto-MDI/MDIX)
- USB 2.0 Host interface

### Management

- Web-based GUI control configuration and management
- Dual-color LEDs clearly display network status and activity
- Power on self diagnostic
- MIB II/MCNS MIB
- Hitron proprietary MIBs for extended support

### Reception-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:
  - ▶ 6 MHz (DOCSIS, DOCSIS-J)
  - ▶ 8 MHz (EuroDOCSIS)
- Signal Level: 17 dBmV
- Input return loss: >6dB

### Transmitter-Modulation

- Modulation: QPSK, 8QAM, 16QAM, 32QAM, 64QAM, and 128QAM (SCDMA only)
- Data rate up to 120 Mbps with 4 upstream channel bonding
- Frequency:
  - ▶ 5 ~ 42 MHz (DOCSIS)
  - ▶ 5 ~ 65 MHz (EuroDOCSIS)
  - ▶ 5 ~ 85 MHz (Extended)
- 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)
- Dimensions: 180mm (W) x 44mm (H) x 130mm (D)
- Weight: 220g ± 10g

### Environmental

- Supply voltage of external power supply
  - ▶ Input 100 ~ 240 VAC 50/60Hz
  - ▶ Output 6VDC 1.5A
  - ▶ Power Consumption: 5W (typical), 6.5W (max.)
- Operating Temperature: 0°C (32°F) ~ 40°C (104°F)
- Operating Humidity: 10% ~ 90% (Non-condensing)
- Storage Temperature: -40°C (-40°F) ~ 60°C (140°F)
- Surge Protection:
  - ▶ RF input sustains at least 3KV
  - ▶ Ethernet RJ-45 sustains at least 6KV

### Compliance Certificates

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