

# BVG-3653

## DOCSIS 3.0 eMTA CABLE GATEWAY

Intel® Puma™ 5 4x4

DOCSIS/EuroDOCSIS 3.0

PacketCable/EuroPacketCable 1.5

4 downstream x 4 upstream channel bonding

SNMP

2 voice ports with SIP support



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

The BVG-3653 has the capacity to receive 200 Mbps over its EuroDOCSIS interface with four-four bonded channels. The integrated Ethernet port and two RJ-11 phone ports enable easy home data and voice networking. Based on the latest DOCSIS 3.0 technology, the BVG-3653 allows MSOs to offer their end-customers various broadband applications such as telecommuting, HD video on demand over IP connectivity to small office/home office (SOHO), high-speed residential Internet access, interactive multimedia services, etc.

### KEY FEATURES

- DOCSIS/EuroDOCSIS 3.0 compliant
- PacketCable/EuroPacketCable 1.5 compliant
- Supports SIP, using standard MTA configuration file
- Browser-based configuration and management (for end-user parameters)
- Extensive operator control via configuration file and SNMP
- Well-defined LEDs clearly display device and network status
- Enhanced management and stability for low total cost of ownership



## PRODUCT SPECIFICATIONS

### Protocol Support

- DOCSIS/EuroDOCSIS 1.1/2.0/3.0
- PacketCable/EuroPacketCable 1.5
- SNMP v1, v2C, v3
- MGCP
- IGMP
- SIP

### Connectivity

- RF F-type female 75Ω connector
- 1x RJ-45 Ethernet ports 10/100/1000 Mbps
- 2x FXS RJ-11 telephony ports
- USB 2.0 Host interface

### Management

- Web-based GUI control configuration and management
- Easy-to-read LEDs clearly display network status and activity
- Power on self diagnostic
- Hitron proprietary MIBs for extended support on:
  - ▶ DOCSIS
  - ▶ eMTA
  - ▶ SIP

### Telephony

- Supporting MTA triggered DQoS
- Caller ID in either DTMF or FSK
- T.38 Fax Relay RTP / UDP
- Simultaneous Telephony on two independent RJ11 ports
- Codecs: G.711
- Comply SIP RFC Proposed Standards

### 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)
  - ▶ 6/8 MHz (Dual Mode)
- Signal Level: -15 dBmV to 17 dBmV

### 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 (optional)

### Mechanical

- 7 status LEDs (Power, DS, US, Status, Ethernet, Line 1/2)
- Factory reset button
- Dimensions: 180mm (W) x 44mm (H) x 130mm (D)
- Weight: 300g ± 10g

### Environmental

- Power:
  - ▶ Input 100 – 240 VAC 50/60Hz
  - ▶ Output 12VDC, 1.5A
- Power Consumption: 9W (standby), 12W (operation)
- Operating Temperature: 0°C (32°F) ~ 40°C (104°F)
- Operating Humidity: 10% ~ 90% (Non-condensing)
- Storage Temperature: -40°C (-40°F) ~ 70°C (158°F)
- Surge Protection: RF input sustains at least 3KV, Ethernet RJ-45 sustains at least 6KV

### Compliance Certificates

- CE Mark
- RoHS Compliant
- ECW35 (ED3.0, EPC1.5)