

# BVW-3653

## DOCSIS 3.0 eMTA WIFI GATEWAY

Intel® Puma™ 5 4x4 w/802.11n 2x2

DOCSIS/EuroDOCSIS 3.0

PacketCable/EuroPacketCable 1.5

4 downstream x 4 upstream channel bonding

802.11n 2x2 2.4GHz

Multiple SSIDs - 8 SSIDs

SNMP

2 voice ports with SIP support



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

The BVW-3653 has the capacity to receive 200 Mbps over its EuroDOCSIS interface with four-four bonded channels. The integrated Ethernet port, two RJ-11 phone ports and WiFi 802.11n Access Point enable easy home networking.

### KEY FEATURES

- DOCSIS/EuroDOCSIS 3.0 compliant
- PacketCable/EuroPacketCable 1.5 compliant
- Supports SIP, using standard MTA configuration file
- One USB 2.0 host, supporting Network Attached Storage (NAS) functionality
- 802.11n Wi-Fi Access Point with 2x2 internal antennas
  - Supports 8 SSIDs
  - Individual configuration for each SSID (security, bridging, routing, firewall and Wi-Fi parameters)
- 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
- MGCP

### 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
- 12V DC Power Jack

### 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
  - ▶ Route
  - ▶ WiFi

### 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

### 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)

### Router Function

- Web base interface for configuration and management
- MAC address filtering based on source addresses in the frame
- IP filtering based on source and destination addresses in the packet
- DHCP, TFTP, and ToD clients, provide device auto configuration
- DHCP server support (RFC 1541) for internal network IP addresses
- Firewall with Stateful packet inspection technology
- Application content filtering with ability to restrict access to web applications
- Application content filtering (IPv4/IPv6)
- Prevention of Hacker Attacks such as MIME flood, Octopus, Teardrop, Opentear, Twinge, Smurf, Overdrop, Jolt, Tentacle, etc
- VPN pass-through
- Complete NAT software implemented as per RFC 1631 with port and address mapping

### Mechanical

- 12 status LEDs (Power, DS, US, Status, Ethernet 1/2/3/4, USB, WLAN, Line 1/2)
- Factory reset button
- Dimensions: 175mm (H) x 86mm (W) x 160mm (D)
- Weight: 380g ± 10g

### Environmental

- Power:
  - ▶ Input 100 – 240 VAC 50/60Hz
  - ▶ Output 12VDC, 2A
- 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