

# WIRELESS CABLE GATEWAY

Intel® Puma™ 5 8x4 w/802.11n 3x3 wireless

- DOCSIS/EuroDOCSIS 3.0
- 8 downstream x 4 upstream channel bonding
- SNMP+TR-69
- 802.11n
- Multiple SSIDs
- IPv6 Routing



## HIGH-PERFORMANCE INTERNET ACCESS AND WIRELESS

The CGN delivers speeds of up to 320Mbps (8x4) with eight bonded downstream channels over its DOCSIS interface. The integrated four-port Gigabit Ethernet switch and Wi-Fi 802.11n 3X3 MIMO Access Point enable fast and easy home networking.

## FULL DUAL STACK IPV4 / IPV6 SUPPORT

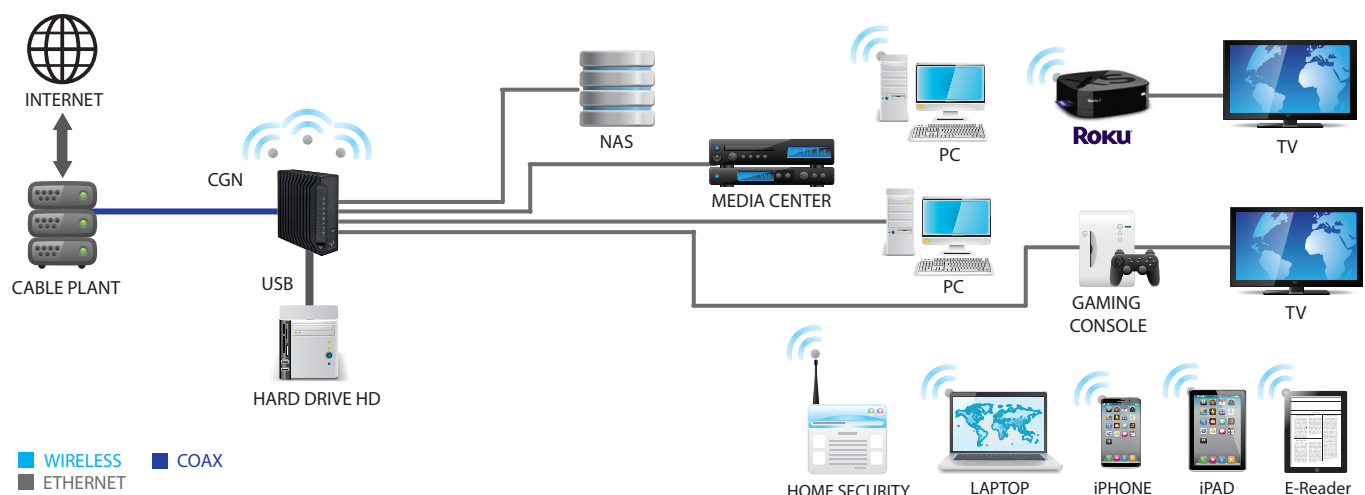
The CGN supports the full IPv4 routing features as well as full support for IPv6 routing and firewall. The CGN supports both DSLite as well as 6RD for different IPv6 deployment and transition strategies.

## SIMPLY SECURE WIRELESS NETWORKING

The CGN supports pre-configured and pre-enabled Wi-Fi security via Wi-Fi Protected Setup (WPS), allowing the end-user to rapidly set up a secure wireless network without manual configuration.

## KEY FEATURES

- DOCSIS/EuroDOCSIS3.0 compliant and DOCSIS3.0 certified
- One USB 2.0 host, supporting Network Attached Storage (NAS) functionality
- Integrated DLNA Media Server Performance Testing with support for video, audio and images
- 802.11 n Wi-Fi Access Point with 3x3 MIMO internal antennas
  - Supports 8 SSIDs
  - Individual configuration for each SSID (security, bridging, routing, firewall and Wi-Fi parameters)
- Extensive operator control via configuration file and SNMP
- Well-defined LEDs clearly display device and network status
- TR-69 and HNAP for easy setup and remote management
- Enhanced management and stability for low total cost of ownership



## HIGH-PERFORMANCE INTERNET ACCESS AND WIRELESS

### Protocol Support

- DOCSIS/EuroDOCSIS 1.1/2.0/3.0
- SNMP v1, v2C, v3 IGMP
- IGMP
- TR-69
- HNAP

### Connectivity

- RF F-type female 75Ω connector
- 4x RJ-45 Ethernet port 10/100/1000 Mbps
- USB 2.0 Type A connector with 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
  - ▶ Router Management
  - ▶ Wi-Fi Management

### Reception-Modulation

- Demodulation: 64QAM, 256QAM
- Data Rate: Up to 400 Mbps with 8 bonded downstream channels (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)

### Compliance Certificates

- FCC
- RoHS Compliant
- UL

### Protocol Support

- MAC address filtering (IPv4/IPv6)
- IP source/destination address filtering (IPv4/IPv6)
- DHCP, TFTP and ToD clients (IPv4/IPv6)
- DHCP server supports RFC 1541 (IPv4)
- DHCPv6 obtains prefix from DHCPv6 server through prefix delegation
- Firewall with stateful inspection (IPv4/IPv6)
- Hacker attack prevention
- Application content filtering (IPv4/IPv6)
- VPN Termination and pass through (IPv4/IPv6)
- Complete NAT software implemented as per RFC 1631 with port and address mapping (IPv4)
- DSLite support for IPv4 in-home support with IPv6 MSO backbone
- 6RD support for quick IPv6 deployment over IPv4 backbone
- RIPv2 for Static IP support

### Wireless

- 802.11b/g/n
- 3T3R 2.4GHz single band with 450Mbps PHY data rate
- 20/40 MHz channel bandwidth
- Up to 8 BSSIDs
- Security: WEP-64/WEP-128, WPA-PSK/WPA2-PSK (TKIP/AES), WAPI
- QoS: WMM/WMM-PS
- Mesh Network: 802.11s - WPS (Wi-Fi Protected Setup) PBC, PIN

### Mechanical

- 8 status LEDs (Power, DS, US, Status, LAN, USB, Wi-Fi, WPS)
- Factory default reset button
- Dimensions: 144mm (W) x 166mm (H) x 51mm (D)
- Weight: 420g ± 10g

### Environmental

- Power: 100 ~ 120 VAC 50/60Hz
- Power Consumption: 9W (standby), 16W (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 1KV, Ethernet RJ-45 sustains at least 1KV