

CGNV4

DOCSIS 3.0 eMTA WIFI GATEWAY

Intel® Puma™ 6-MG 24x8 w/802.11ac 3x3 dual band

DOCSIS/EuroDOCSIS 3.0

24 downstream x 8 upstream channel bonding

IEEE802.11ac 3x3 concurrent dual band 2.4GHz and 5GHz

Multiple SSIDs - 8 SSIDs per radio

SNMP and TR-069

IPv6 routing

2 voice ports with either SIP or MGCP support



FASTEST WAN AND LAN CONNECTION

The Hitron CGNV4 has the capacity to receive 1 Gbps over its EuroDOCSIS 3.0 interface with twenty-four bonded channels.

The integrated IEEE802.11ac 3x3 dual band MIMO access point significantly improves customer experience extending range and coverage with blazing speeds up to Giga speed.

IPv4/IPv6 DUAL STACK SUPPORT

The CGNV4 supports full IPv4 routing features, as well as, full support for IPv6 routing and firewall. Both DS-Lite and 6RD are available for various IPv6 deployments and transitions strategies.

SECURE WIRELESS NETWORKING

Wi-Fi Protected Setup (WPS) is pre-configured and enabled by default. With WPS enabled the end-user can quickly setup a secure wireless network without the need to manually configure the security settings.

KEY FEATURES

- DOCSIS/EuroDOCSIS 3.0 compliant
- Two USB 2.0 host ports, which can be used for network attached storage (NAS) functionality
- IEEE802.11ac Wi-Fi Access Point with 3x3 dual band MIMO internal antennas
 - ▶ 16 SSIDs
 - ▶ Individual configuration for each SSID (security, bridging, routing, firewall and Wi-Fi parameters)
- Integrated DLNA Media Server with support for video, audio and image serving
- Extensive operator control via configuration file and SNMP
- Well-defined LEDs clearly display device and network status
- TR-069 and HNAP for easy setup and remote management
- Enhanced management and stability for low total cost of ownership
- 2x FXS for telephony using SIP or MGCP



PRODUCT SPECIFICATIONS

Protocol Support

- DOCSIS/EuroDOCSIS 1.1/2.0/3.0
- EuroPacketCable 1.5/2.0
- SNMP v1, v2C, v3
- IGMP
- TR-069
- HNAP
- SIP & MGCP

Connectivity

- RF F-type female 75Ω connector
- 4x RJ-45 Ethernet port 10/100/1000 Mbps
- 2x USB 2.0 Type A connector with host interface
- 2x FXS RJ-11 telephony ports

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-Demodulation

- Demodulation: 64QAM, 256QAM
- Data Rate: Up to 1.3Gbps Mbps with 24 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 240 Mbps with 8 upstream channel bonding
- Frequency:
 - ▶ 5 ~ 42 MHz (DOCSIS)
 - ▶ 5 ~ 65 MHz (EuroDOCSIS)
 - ▶ 5 ~ 85 MHz (optional)

Compliance Certificates

- RoHS Compliant
- Wi-Fi Alliance Certified

Routing 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 Intrusion prevention and detection
- 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)
- DS-Lite 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

- IEEE802.11a/b/g/n/ac
- 3T3R 2.4GHz (2412MHz~2462MHz) and 5GHz (5180MHz~5240MHz) dual band with 1 Gbps PHY data rate
- Output power: 2.4GHz (20 dBm) and 5GHz (20 dBm)
- 20/40 MHz channel bandwidth
- Up to 8 SSIDs for each frequency
- Security: WEP-64/WEP-128, WPA-PSK/WPA2-PSK (TKIP/AES), WAPI
- QoS: WMM/WMM-PS
- WPS (Wi-Fi Protected Setup) PBC, PIN

Mechanical

- 9 status LEDs (DS, US, Status, Ethernet, Wi-Fi 2.4GHz, Wi-Fi 5GHz, USB, Line 1/2)
- Factory reset button
- Dimensions: 227mm (W) x 52mm (H) x 208mm (D)
- Weight: 600g ± 10g

Environmental

- Power: 220 ~ 240 V
- 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 4.5KV, Ethernet RJ-45 sustains at least 4.5KV