

CGN3

DOCSIS 3.0 WIFI GATEWAY

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

DOCSIS/EuroDOCSIS 3.0

24 downstream x 8 upstream channel bonding

802.11n 3x3 Concurrent Dual Band 2.4+5GHz

Multiple SSIDs - 16 SSIDs per radio

SNMP+TR-69

IPv6 Routing



HIGH-PERFORMANCE INTERNET ACCESS AND WIRELESS

The CGN3 delivers speeds of up to 960Mbps with twenty-four bonded downstream channels over its DOCSIS interface. The integrated four-port Gigabit Ethernet switch and 802.11n 3X3 Dual Band MIMO Access Point enable fast and easy home networking.

FULL DUAL STACK IPV4 / IPV6 SUPPORT

The CGN3 supports full IPv4 routing features, as well as, full support for IPv6 routing and firewall. The CGN3 supports both DSLite as well as 6RD for different IPv6 deployment and transition strategies.

SIMPLY SECURE WIRELESS NETWORKING

The CGN3 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
- Two USB 2.0 host, supporting Network Attached Storage (NAS) functionality
- Integrated DLNA Media Server with support for video, audio and image serving
- 802.11n Wi-Fi Access Point with 3x3 dual band MIMO internal antennas
 - ▶ Supports 32 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



PRODUCT SPECIFICATIONS

Protocol Support

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

Connectivity

- RF F-type female 75Ω connector
- 4x RJ-45 Ethernet port 10/100/1000 Mbps
- 2xUSB 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 960 Mbps with 24 bonded downstream channels (EuroDOCSIS)
- Frequency (edge-to-edge): 88 ~ 1002 MHz
- 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 ~ 85 MHz

Compliance Certificates

- FCC
- RoHS Compliant
- UL

Router Function

- 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
- 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 +5GHz dual band with 450Mbps+450Mbps PHY data rate
- 20/40 MHz channel bandwidth
- up to 16 SSIDs per frequency
- Security: WEP-64/WEP-128, WPA-PSK/WPA2-PSK (TKIP/AES), WAPI
- QoS: WMM/WMM-PS

Mechanical

- 7 status LEDs (DS, US, Status, LAN, Wi-Fi 2.4GHz, Wi-Fi 5GHz, USB)
- WPS button
- Factory default reset button
- Dimensions: 170mm (W) x 200mm (H) x 51mm (D)
- Weight: 550g ± 10g

Environmental

- Power: 12VDC, 2A
- 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