

DOCSIS 3.0 APPLICATION GATEWAY

Intel® Puma™ 6-MG 24x8 w/ 3x3 802.11n+802.11ac dual band and MoCA 2.0

DOCSIS/EuroDOCSIS 3.0

24 downstream x 8 upstream channel bonding

3x3 802.11n+802.11ac dual band concurrent 2.4GHz+5GHz

Multiple SSIDs - 16 SSIDs per radio

SNMP+TR-69

IPv6 Routing

MoCA 2.0



HIGH-PERFORMANCE INTERNET ACCESS AND WIRELESS

The CGNM delivers speeds of up to 960Mbps with twenty-four bonded downstream channels over its DOCSIS interface. The integrated four-port Gigabit Ethernet switch, Wi-Fi 3x3 802.11n+802.11ac dual band MIMO Access Point and MoCA 2.0 enable fast and easy home entertainment networking.

FULL DUAL STACK IPV4 / IPV6 SUPPORT

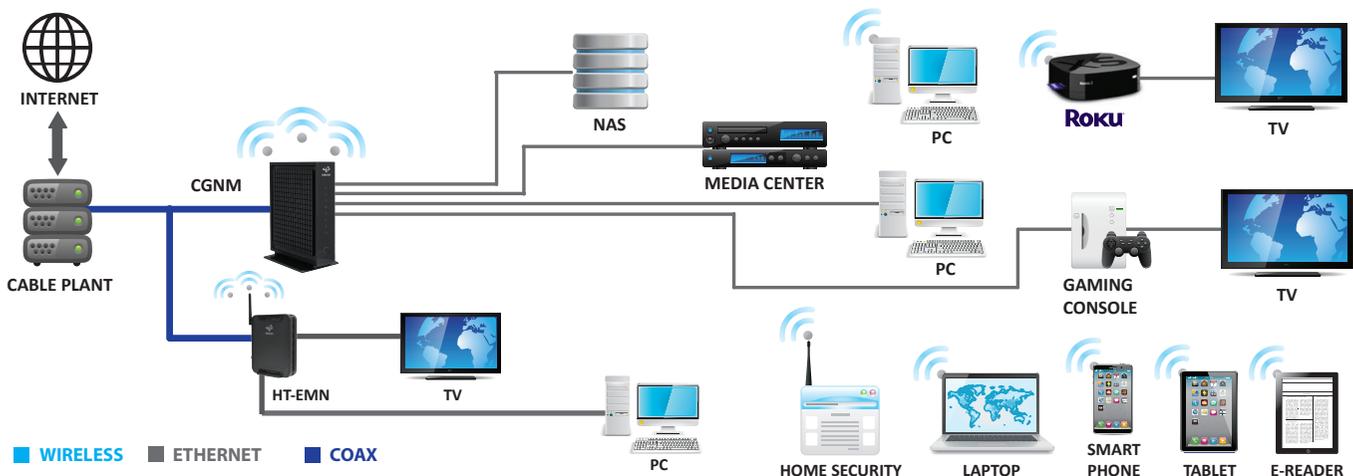
The CGNM supports the full IPv4 routing features as well as complete support for IPv6 routing and firewall. The CGNM supports both DSLite as well as 6RD for different IPv6 deployment and transition strategies.

SIMPLY SECURE WIRELESS NETWORKING

The CGNM 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
- Integrated DLNA Media Server with support for video, audio and image serving
- MoCA 2.0 standard for highest performance of entertainment networking
- Two USB 2.0 host, supporting Network Attached Storage (NAS) functionality
- Wi-Fi Access Point with 3x3 802.11n+802.11ac dual band MIMO internal antennas
- ▶ Supports 32 SSIDs (16 SSIDs per radio)
- ▶ 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
- TR-69
- HNAP

Interface

- RF F-type female 75Ω connector
- 4x RJ-45 Ethernet port 10/100/1000 Mbps
- 2xUSB 2.0 Type A connector with Host interface
- Wireless
 - ▶ 802.11a/b/g/n/ac
 - ▶ 3T3R 2.4GHz 11n+5GHz 11ac dual band with 450Mbps+1300Mbps PHY data rate
 - ▶ 20/40/80 MHz channel bandwidth
 - ▶ Up to 16 SSIDs for each frequency
 - ▶ Security: WEP-64/WEP-128, WPA-PSK/WPA2-PSK (TKIP/AES)
 - ▶ QoS: WMM/WMM U-APSD

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
 - ▶ MoCA Management

Reception-Modulation

- Demodulation: 64QAM, 256QAM
- Data Rate: Up to 960 Mbps with 24 bonded downstream channels
- Frequency (edge-to-edge): 108 ~ 1002 MHz
- Channel Bandwidth: 6 MHz (DOCSIS, DOCSIS-J) 8 MHz (EuroDOCSIS); 6/8 MHz (Dual Mode)
- Signal Level: -15 dBmV to 15 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
- MoCA Certified

MoCA 2.0 Reception / Transmitter-Modulation

- Demodulation/ Modulation: BPSK, QPSK, 8QAM, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM, 512QAM, 1024QAM
- Data Rate: 700 Mbps (Baseline Mode)
- Throughput:
 - ▶ 400+ Mbps (Baseline Mode) / 500+ Mbps (Baseline Mode, point to point)
- Frequency (center frequencies): 1025 ~ 1625 MHz
- Channel Bandwidth: 100 MHz (Baseline Mode)

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
- 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

Mechanical

- 8 status LEDs (Power, DS, US, Status, ETH, Wi-Fi 2.4GHz, Wi-Fi 5GHz, MoCA)
- WPS button
- Factory default reset button
- Dimensions: 177mm (W) x 204mm (H) x 45mm (D)
- Weight: 620g ± 10g

Environmental

- Power: 12V VDC
- Power Consumption: 21W (typical), 26W (max)
- 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 4KV, Ethernet RJ-45 sustains at least 4KV