

DOCSIS 3.0 WIFI GATEWAY

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

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



HIGH-PERFORMANCE INTERNET ACCESS AND WIRELESS

The CGNM-2250 delivers speeds of up to 960Mbps with twenty-four bonded downstream channels over its DOCSIS interface. The integrated four port Gigabit Ethernet switch and Wi-Fi 3x3 802.11n+802.11ac dual band MIMO Access Point enable fast and easy home entertainment networking.

FULL DUAL STACK IPV4 / IPV6 SUPPORT

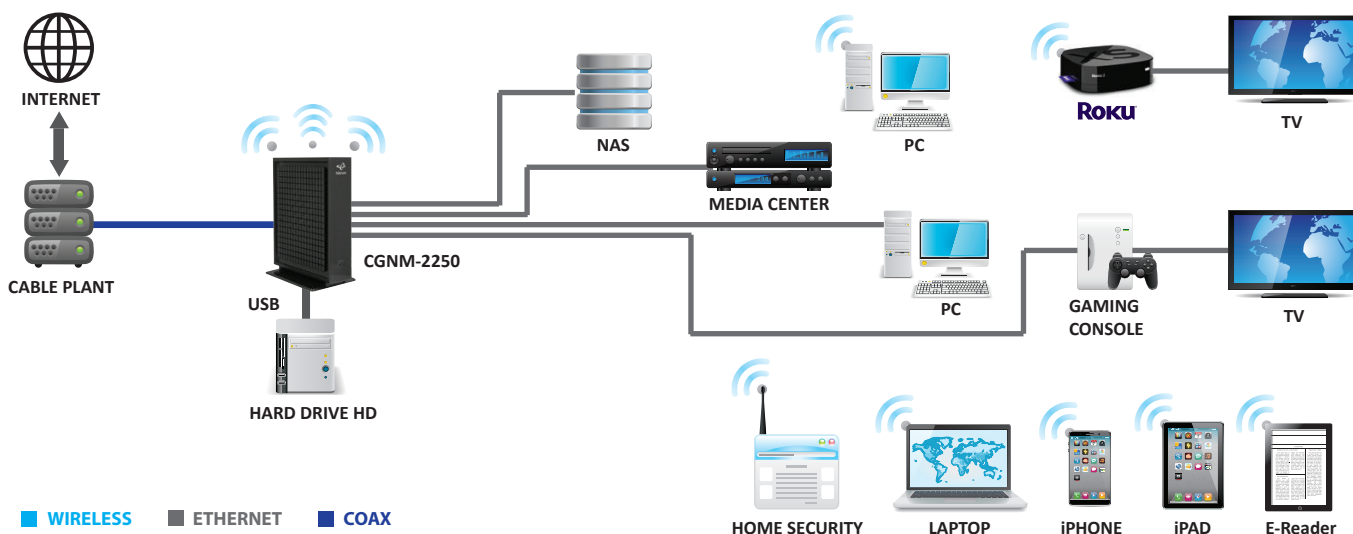
The CGNM-2250 supports full IPv4 routing features, as well as, full support for IPv6 routing and firewall. The CGNM-2250 supports both DSLite as well as 6RD for different IPv6 deployment and transition strategies.

SIMPLY SECURE WIRELESS NETWORKING

The CGNM-2250 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/EuroDOCSIS 3.0 compliant and DOCSIS 3.0 certified
- Two USB 2.0 host, supporting Network Attached Storage (NAS) functionality
- Integrated DLNA Media Server with support for video, audio and image serving
- 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
 - ▶ 802.11 a/b/g/n/ac
 - ▶ 3T3R 2.4GHz (2412MHz~2462MHz) 11n+5GHz (5180MHz~5240MHz) 11ac dual band with 450Mbps+1300Mbps PHY data rate
 - ▶ Output power: 18dBm, 13dBm
 - ▶ 20/40/80 MHz channel bandwidth
 - ▶ Up to 16 SSIDs per 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

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

Compliance Certificates

- FCC
- RoHS Compliant
- UL

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

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 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 2.4G, Wi-Fi 5GHz, USB)
- WPS button
- Factory default reset button
- Dimensions: 177mm (W) x 204mm (H) x 45mm (D)
- Weight: 600g ± 10g

Environmental

- Power: 12V VDC
- 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 4KV, Ethernet RJ-45 sustains at least 4KV