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CGNM-3552

DOCSIS 3.0 APPLICATION GATEWAY

Intel® Puma™ 6-MG 32x8 w/ 3x3 802.11n+802.11ac dual band and MoCA 2.0

DOCSIS/EuroDOCSIS 3.0
32 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-3552 delivers speeds of up to 1.2Gbps (32x8) with thirty-two 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

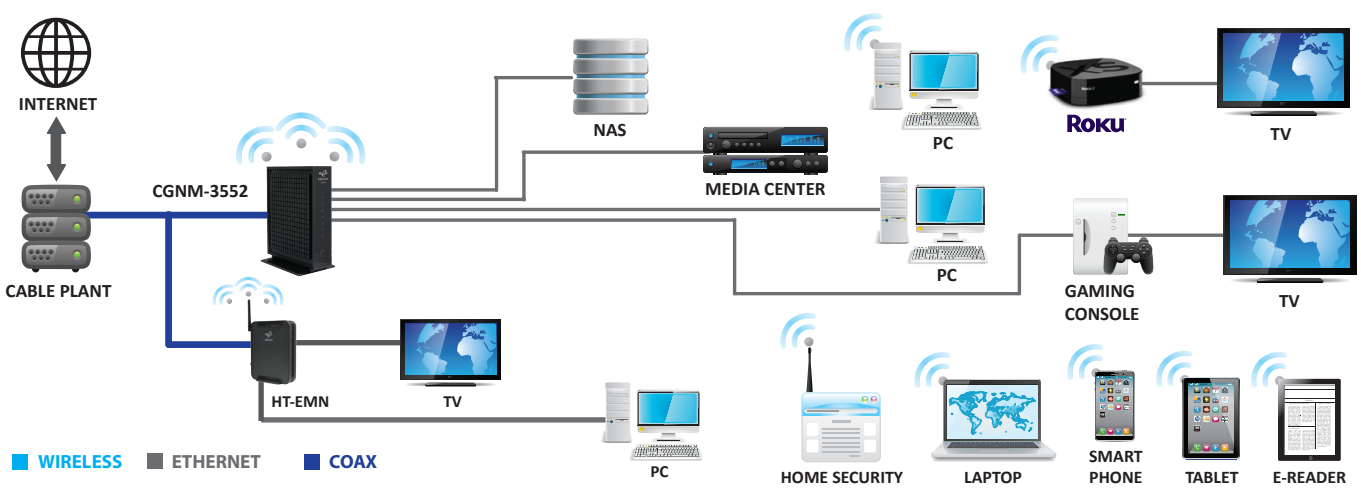
The CGNM-3552 supports the full IPv4 routing features as well as complete support for IPv6 routing and firewall. The CGNM-3552 supports both DSLite as well as 6RD for different IPv6 deployment and transition strategies.

SIMPLY SECURE WIRELESS NETWORKING

The CGNM-3552 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



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SPECIFICATION

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 1.2Gbps with 32 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 320 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