



RESIDENTIAL CGN2

WIRELESS CABLE GATEWAY

8X4 DOCSIS 3.0 WITH BUILT IN 802.11N 2X2 WIRELESS

- DOCSIS/EuroDOCSIS 3.0 8x4
- SNMP+TR-69
- 802.11n
- Multiple SSIDs
- IPv6 Routing



ALWAYS-ON, HIGH-PERFORMANCE INTERNET CONNECTION

The Hitron CGN2 delivers speeds of up to 300Mbps (8x4) with eight bonded downstream channels over its DOCSIS interface. The integrated four-port Gigabit Ethernet switch and Wi-Fi 802.11n Access Point enable easy home networking.

SEAMLESS END-TO-END CONNECTIVITY

The CGN2's SSID and Ethernet port bridging capability (in routing mode) allow straight-forward connection between the back-end and Set-Top Boxes in the end user's home or place of business.

FULL DUAL STACK IPV4 / IPV6 SUPPORT

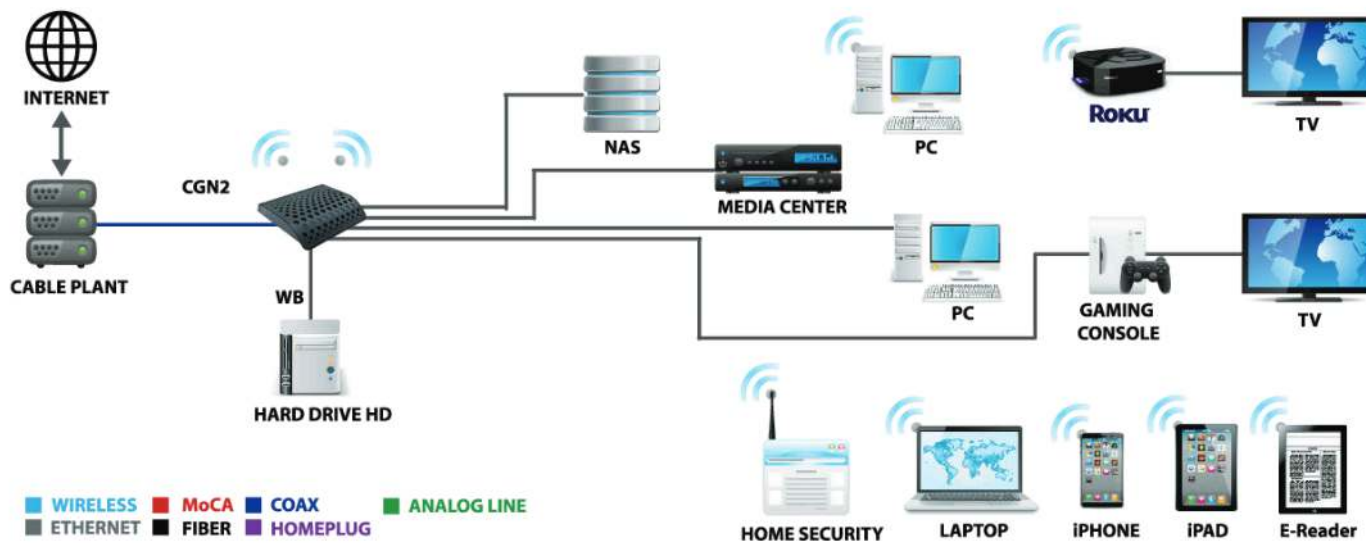
The CGN2 supports the full IPv4 routing features as well as full support for IPv6 routing and firewall. The CGN2 supports both DSLite as well as 6RD for different IPv6 deployment and transition strategies.

SIMPLY SECURE WIRELESS NETWORKING

The CGN2 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 EuroDOCSIS3.0 certified
- One USB 2.0 host, supporting Network Attached Storage (NAS) functionality
- Integrated DLNA Media Server Performance Testing with support for video, audio and images
- 802.11n Wi-Fi Access Point with 2x2 internal antennas
 - ▶ Supports 8 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



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RESIDENTIAL CGN2

HIGH-PERFORMANCE INTERNET ACCESS AND WIRELESS

Protocol Support

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

Connectivity

- RF F-type female 75 Ω connector
- 4x RJ-45 Ethernet port 10/100/1000 Mbps
- USB 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 400 Mbps with 8 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 120 Mbps with 4 upstream channel bonding
- Frequency:
 - 5 ~ 42 MHz (DOCSIS)
 - 5 ~ 65 MHz (EuroDOCSIS)

Compliance Certificates

- CE Mark
- RoHS Compliant
- ECW 42 Certified
- FCC and UL

Router Functions:

- 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 attack prevention
- Application content filtering (IPv4/IPv6)
- VPN 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

Wireless

- 802.11b/g/n
- 2T2R 2.4 GHz with 300Mbps PHY data rate
- 20/40 MHz channel bandwidth
- Up to 8 BSSIDs - Security: WEP-64/WEP-128, WPA-PSK/WPA2-PSK (TKIP/AES), WAPI
- QoS: WMM/WMM-PS
- Mesh Network: 802.11s
- WPS (Wi-Fi Protected Setup) PBC, PIN

Mechanical

- 9 status LEDs (Power, DS, US, Status, Ethernet 1/2/3/4, WLAN)
- Factory default reset button
- Dimensions: 227mm (W) x 52mm (H) x 208mm (D)
- Weight: 600g \pm 10g

Environmental

- External power supply: Input 100 ~ 240 VAC 50/60Hz
Output 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