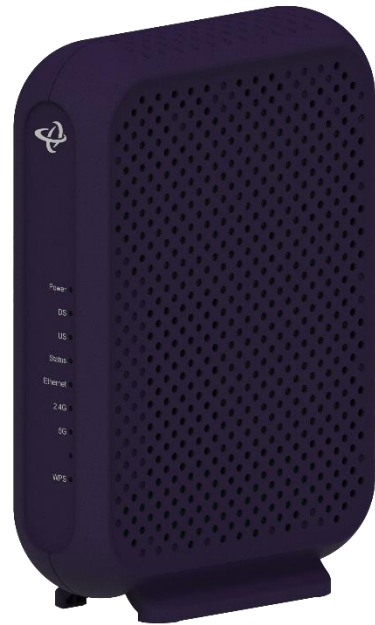




# DOCSIS 3.0 Cable Gateway with Wi-Fi 5

CGN5-AP2



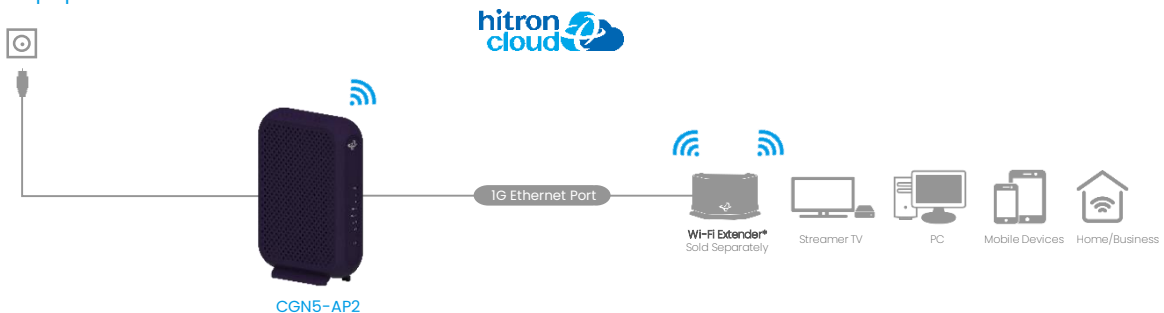
CGN5-AP2 has the capacity to receive 1.2Gbps over its DOCSIS 3.0 interface with 24 bonded channels. The integrated 3x3 802.11n+4x4 802.11ac dual band MIMO access point significantly improves customer experience extending range and coverage with blazing speeds up to Giga speed.

 <b>DOCSIS 3.0</b> Delivers 8x faster speeds than DOCSIS 2.0	 <b>1GigE</b> Four Gigabit Ethernet Ports	 Enhanced smart home experience with HitronCloud support
 <b>Wi-Fi 5</b> High-performance Wi-Fi networking Advanced feature		

## Key Features

- DOCSIS 3.0 compliant
- Wi-Fi Access Point with 3x3 802.11n+4x4 802.11ac dual band MIMO internal antennas
- Extensive operator control via configuration file and SNMP
- Well-defined LEDs clearly display device and network status
- TR-069 for easy setup and remote management
- Enhanced management and stability for low total cost of ownership

## Application



# Specifications

CGN5-AP2

## Reception-Demodulation

- Demodulation: 64QAM, 256QAM
- Data Rate: Up to 12Gbps with 24 bonded downstream channels
- Frequency (edge-to-edge): 108 - 1002 MHz
- Channel Bandwidth: 6 MHz (DOCSIS, DOCSIS-J)
- 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

## Wi-Fi

- 3x3 802.11n+ 4x4 802.11ac
- 3T3R 2.4GHz 11n+4T4R 5GHz 11ac dual band with 450Mbps+ 1733Mbps PHY data rate
- 20/40/80 MHz channel bandwidth
- Up to 8 SSIDs for each frequency
- Security: WEP-64/WEP-128, WPA-PSK/WPA2-PSK (TKIP/AES)
- QoS: WMM/WMM-PS
- WPS (Wi-Fi Protected Setup) PBC, PIN

## 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)
- 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)

## Protocol Support

- DOCSIS 3.0/2.0/1.1
- SNMP v1, v2C, v3
- IGMP
- TR-069/ 181

## 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

## Interfaces

- RF F-type female 75Ω connector
- 4x RJ-45 Ethernet port 10/100/1000 Mbps

## Mechanical

- 8 status LEDs (Power, DS, US, Status, Ethernet, 2.4G Wi-Fi, 5G Wi-Fi, WPS)
- Factory reset button
- Dimensions: 170mm (W) x 243mm (H) x 55mm (D) (including stand and RF connector)
- Weight: 665g ± 30g

## Environmental

- Power: 12 VDC, 2A
- Power Consumption: 11W (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

## Regulatory Compliance

- RoHS
- NCC



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