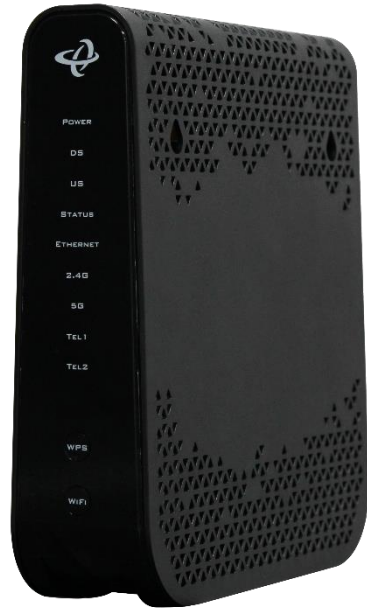




# DOCSIS 3.1 Cable Gateway with Wi-Fi 5 and Voice

CHITA



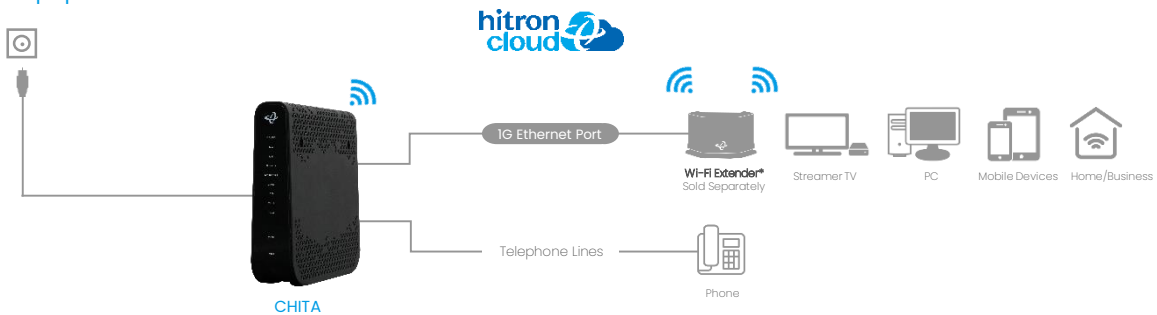
CHITA has the capability of receiving 5Gbps with 2 OFDM + 32 QAM downstream with 2 OFDMA upstream channels over its DOCSIS 3.1 interface. The integrated Wi-Fi 3x3 2.4GHz 802.11n and 4x4 5GHz 802.11ac Wave 2 dual band MU-MIMO Access Point significantly improves customer experience extending range and coverage with blazing speeds.

 DOCSIS 3.1 DOCSIS 3.1 speeds up to 10 Gbps* downstream	 GigE Two Gigabit Ethernet Ports	 Two HD Voice Ports
 High-performance Wi-Fi networking	 Enhanced smart home experience with HitronCloud support <small>Advanced feature</small>	

## Key Features

- DOCSIS 3.1 compliant
- DOCSIS 3.1 2x2 multi-carrier OFDM & OFDMA
- DOCSIS/EuroDOCSIS 3.0 32x8 channel bonding
- Switchable 5-85/5-204MHz US; 108-1218/ 258-1218MHz DS
- One USB 3.0 host port
- 2 HD voice ports with SIP or IMS support
- Wi-Fi 4x4 5GHz 802.11ac Wave 2 MU-MIMO and 3x3 2.4GHz 802.11n dual band concurrent with internal antennas
- Extensive operator control via configuration file and SNMP
- TR-069 and HNAP for easy setup and remote management
- Optional HitronCloud home network management support

## Application



# Specifications



## Reception-Demodulation

- DOCSIS 3.1/3.0/2.0 with EuroDOCSIS compliant
- DOCSIS 3.1 demodulation: Multi-carrier OFDM 16 to 4096QAM
- DOCSIS 3.1 data rate: Up to 5Gbps with 2 OFDM 192MHz downstream channels +32 QAM
- DOCSIS/EuroDOCSIS 3.0 demodulation: 64QAM, 256QAM
- DOCSIS/EuroDOCSIS 3.0 data rate: Up to 1.3/1.7Gbps with 32 bonded downstream channels
- Frequency (edge-to-edge): 108-1218MHz / 258-1218MHz
- Channel Bandwidth: 6MHz/8MHz (DOCSIS/EuroDOCSIS)
- Signal level: -15dBmV to 15dBmV
- Input return loss: >6dB

## Transmitter-Modulation

- DOCSIS 3.1/3.0/2.0 with EuroDOCSIS compliant
- DOCSIS 3.1 modulation: Multi-carrier OFDM BPSK to 4096QAM
- DOCSIS 3.1 data rate: Up to 2GMbps with 2 OFDM 96MHz upstream channels + 8 QAM
- DOCSIS/EuroDOCSIS 3.0 modulation: QPSK, 8QAM, 16QAM, 32QAM, 64QAM, and 128QAM (SCDMA only)
- DOCSIS/EuroDOCSIS 3.0 data rate: Up to 240Mbps with 8 bonded upstream channels
- Frequency: switchable 5-85/5-204MHz
- Wi-Fi 4x4 5GHz Upstream transmit signal level: +11 to 65dBmV
- Output return loss: >6dB

## Wi-Fi

- 802.11a/b/g/n/ac
- 4T4R 5GHz (U-NII-1, U-NII-2A, U-NII-2C) 802.11ac Wave 2 MU-MIMO + 3T3R 2.4GHz (2412MHz-2462MHz) 802.11ac dual band concurrent with 600Mbps+1733Mbps PHY data rate 20/40/80MHz channel bandwidth
- Up to 8 SSIDs for each frequency
- Wi-Fi Security: WPA-PSK, WPA2-PSK (TKIP/AES), WPA3-SAE
- QoS: WMM/WMM-PS
- WPS (Wi-Fi Protected Setup) PBC, PIN
- Fast roaming: 802.11r/k/v and Band Steering (BS)
- Wi-Fi output power Range (CE):
  - 2.4G (EIRP) 20.00 dBm
  - 5G U-NII-1 (EIRP) 23.00 dBm
  - 5G U-NII-2A (EIRP) 30.00 dBm
  - 5G U-NII-2C (EIRP) 30.00 dBm

## Routing Support

- Protocol support: IGMP v3 for IPTV service capability
- 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 and detection
- Application content filtering (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

## Management

- Protocol support: TR-069, HNP & SNMP v1, v2C, v3
- Web-based GUI control configuration and management
- Hitron proprietary MIBs for extended support on DOCSIS, router management and Wi-Fi management

## Interfaces

- RF F-Type 75Ω female connector
- 4x RJ-45 Ethernet port 10/100/1000Mbps
- USB 3.0 type A connector with host interface
- 2x RJ-11 HD voice ports

## Voice

- Protocol support: SIP & IMS
- 2x 8kHz each HD voice

## Mechanical

- 9 status LEDs (Power, DS, US, Status, Ethernet, 2.4G, 5G, TEL 1, TEL 2)
- WPS button
- WiFi on/off button
- Factory reset button
- Dimensions: 65mm (W) x 240mm (H) x 210mm (D)
- Weight: 865g ± 10g

## Electrical

- Power input: 12V 3.5A
- Power consumption: 8W (power save mode), 22W (typical), 36W (maximum)
- Surge protection: RF input sustains at least 4KV, Ethernet RJ-45 sustains at least 4KV, Voice sustains at least 1.5KV

## Environmental

- 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)

## Regulatory Compliance

- RoHS compliant
- FCC
- UL
- CE



Specifications subject to change without further notice. Product photo may differ.  
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