



FEEL THE WONDER

ACCESS CABLE GATEWAY

CGA4234

Wireless .11ac

Smart Ultra-Broadband Cable Gateway with Voice for above Gigabit Speeds



The CGA4234 is a DOCSIS® 3.1 capable cable gateway offering triple-play services beyond Gigabit speeds, while providing VoIP functions for residential and business users. Thanks to its integrated wireless video bridge featuring a robust chipset and 4x4 antennas, the CGA4234 can support seamless real-time HD video streaming over next generation IEEE 802.11ac Wi-Fi without any interruption of your data traffic.

Highest Performance with DOCSIS 3.1

The CGA4234 matches perfectly with the requirements of cable operators willing to propose ultimate Broadband access to their customers.

The CGA4234 cable gateway is fully compliant with the latest DOCSIS 3.1 specification as published by CableLabs® and is capable of delivering downstream cable speeds of up to 3.6 Gbps by using 2 Orthogonal Frequency-Division Multiplexing (OFDM) downstream channels (and up to 5 Gbps in case of 2 OFDM plus 32 Single Carrier QAM) and up to 1.5 Gbps upstream by using 2 Orthogonal Frequency-Division Multiple Access (OFDMA) upstream channels.

This enhanced and superior performance allows cable operators to propose multi-Gigabit data services to their customers through various applications, from IP connectivity to ultra-high speed internet access and gaming.

Seamless Video over Next-Gen Wi-Fi

With its support of dual band concurrent Wi-Fi (IEEE 802.11n 2.4 GHz and the next-generation IEEE 802.11ac wave 2 standard for the 5 GHz band), the CGA4234 is a powerful and future-proof smart gateway enabling high-speed wireless HD video streaming inside the home. Thanks to its integrated wireless video bridge featuring a robust chipset and 4x4 antennas, it can support multiple HD TV channels over the clean 5 GHz radio. Furthermore, its advanced architecture guarantees a very low packet error rate on the wireless link.

Simultaneously, it guarantees uninterrupted transmission of data services over IEEE 802.11n using the 2.4 GHz band.

Voice Performance

The CGA4234 is PacketCable 2.0 and PacketCable 1.5 compliant and can operate in MGCP as well as SIP mode.

The CGA4234 supports all standard codecs (optionally also including iLBC and BV16) and is equipped with basic and extended CLASS features such as caller ID and call waiting. Gateway and voice operations support data throughput and complex voice calls simultaneously.

Features at a Glance

- DOCSIS® 3.1 compliant
- Backward compatible with DOCSIS® 3.0
- 2 x 2 OFDM(A) bonded channels in DOCSIS 3.1 mode
- 32 x 8 bonded channels in DOCSIS 3.0 mode
- Automatic switchable diplexer for up- and downstream
- Up to 1.2 GHz full band capture tuner
- Built in RF spectrum analyzer
- 4 GE LAN ports
- Wireless networking on-board
 - IEEE 802.11n 2.4 GHz (3x3)
 - IEEE 802.11ac Wave 2 5 GHz (4x4)
- Wireless hotspot support
- 2 FXS ports for phone or fax
- Voice PacketCable™ 2.0 & 1.5 and SIP compliant
- MoCA 2.0
- Future-proof full service platform
- SNMP and TR-069 remote management
- Dual stack IPv4 and IPv6 DS-Lite enabled
- External battery backup unit (optional)



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Technical Specifications

Hardware

■ Interfaces WAN	1 F-Type RF connector, external threaded
■ Interfaces LAN	4-port autosensing 10/100/1000 Base-T Ethernet LAN switch IEEE 802.11n 2.4 GHz Wi-Fi IEEE 802.11ac Wave 2 5 GHz Wi-Fi 2 FXS POTS ports
■ Power input	DC jack
■ Power supply	12 VDC external PSU
■ AC Voltage	100 - 240 VAC, 50 - 60 Hz (switched mode PSU)
■ Dimensions	57.5 x 231 x 188 mm (2.26 x 9.09 x 7.40 in.)
■ Operating temperature	0 - 40 °C (32 - 104 °F)
■ Operating humidity	20 - 95 % RH non-condensing
■ Storage temperature	-20 - 70 °C (-4 - 158 °F)

Cable certifications

■ Data	DOCSIS® 3.1 Certified
■ Voice	PacketCable™ 2.0 & 1.5 compliant
■ CMTS interoperability	Any qualified DOCSIS 3.1 CMTS Any qualified DOCSIS® 3.0 CMTS

RF downstream

■ Downstream modulation	64, 256, 1024, 2048 and 4096 QAM
■ Downstream frequency range, software selectable	DOCSIS 3.0 54 - 1002 MHz or 108 - 1002 MHz
■ Number of downstream channels	DOCSIS 3.1 2 OFDM DOCSIS 3.0 Up to 32 bonded
■ Maximum downstream rates	DOCSIS 3.1 Up to 3.6 Gbps Up to 5 Gbps with 32 SC-QAM DOCSIS 3.0 1372 Mbps (32 x 42.88 Mbps)
■ Capture windows	1.2 GHz full band capture
■ Channel bandwidth	DOCSIS 3.1 192 MHz DOCSIS 3.0 6 MHz
■ Input signal level range	-15 dBmV / + 15 dBmV
■ Input impedance	75 Ohm

RF upstream

■ Upstream modulation	QPSK 8, 16, 32, 64 and 128 QAM DOCSIS 3.1 Up to 4096 QAM
■ Upstream frequency range, software selectable	DOCSIS 3.0 5 - 42 MHz or 5 - 85 MHz
■ Number of upstream channels	DOCSIS 3.1 2 OFDMA DOCSIS 3.0 Up to 8 bonded
■ Maximum upstream rates	DOCSIS 3.1 Up to 1.5 Gbps DOCSIS 3.0 262 Mbps (theoretical, 8 x 32.78 Mbps)
■ Channel bandwidth	DOCSIS 3.1 max. 96 MHz DOCSIS 3.0 200, 400, 800 kHz 1.6, 3.2 and 6.4 MHz
■ Output impedance	75 Ohm

Wi-Fi

■ Full dual band concurrent Wi-Fi access points, Wi-Fi certified®	2.4 GHz (3x3) IEEE 802.11n AP 5 GHz (4x4) IEEE 802.11ac Wave 2 AP with IEEE 802.11ac compliant transmit beamforming
■ Wi-Fi security levels	WPA2™-Enterprise / WPA™-Enterprise WPA2™-Personal / WPA™-Personal IEEE802.1x port-based authentication with RADIUS client
■ Wi-Fi Protected Setup (WPS™)	
■ Wi-Fi Multimedia (WMM®) and WMM-Power Save	
■ Up to 8 BSSIDs (virtual AP) per radio interface	
■ Wi-Fi hotspot capabilities	Airtime Fairness Client Isolation
■ Zero-Wait DFS	
■ Bandsteering	
■ Explicit and Implicit Beamforming	
■ Multi-User MIMO	
■ Dynamic rates switching for optimal wireless rates	
■ Manual/ auto radiochannel selection	

Voice and telephony

■ Voice technologies	Voice over IP (VoIP)
■ Voice signalling	PacketCable™ NCS Network-based call signalling protocol (PKT-SP-EC-MGCP) RFC 3261 SIP RFC 2805 MGCP
■ Multi-line phone support	2 phone lines 3-party conference calls Supports two complex voice codecs simultaneously

Management

■ Customizable user-friendly GUI via HTTP	
■ Web-based user interface management and administration	
■ Command Line Interface (CLI)	Telnet SSH v2
■ TR-069 CPE WAN Management Protocol (CWMP)	
■ SNMP	SNMP v1, SNMP v2, SNMP v3
■ Operation, Administration & Maintenance (OAM)	ITU-T Y.1731
■ Software upgrade	via WAN RF connection only
■ Zero-touch autoprovisioning	

Package contents

■ CGA4234
■ Power supply unit
■ Quick Setup leaflet(s) (optional)
■ Safety Instructions & Regulatory Information
■ External battery backup unit (optional)



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