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FEEL THE WONDER

ACCESS CABLE GATEWAY

CGA4234dgw
Wireless .11ac
Smart Ultra-Broadband Gateway
for above Gigabit Speeds

The CGA4234dgw is a DOCSIS® 3.1 capable cable gateway offering subscriber services beyond Gigabit speeds. Thanks to its integrated wireless video bridge featuring a robust chipset and 4x4 antennas, the CGA4234dgw 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 CGA4234dgw matches perfectly with the requirements of cable operators willing to propose ultimate Broadband access to their customers.

The CGA4234dgw 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 CGA4234dgw 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.

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
- 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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CGA4234dgw

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
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 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

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

- CGA4234dgw
- Power supply unit
- Quick Setup leaflet(s) (optional)
- Safety Instructions & Regulatory Information
- External battery backup unit (optional)

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