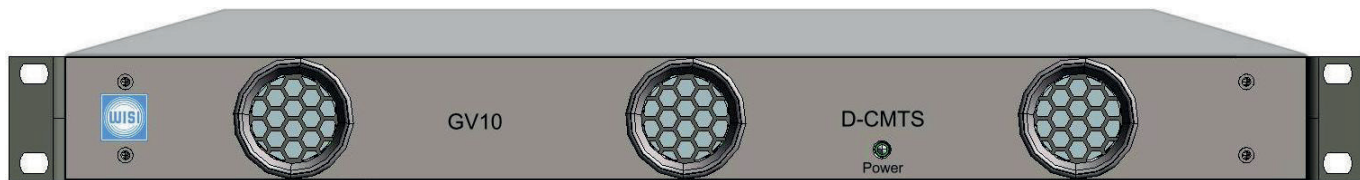




D-CMTS 16x4 WISI GV10 I

ELPAS



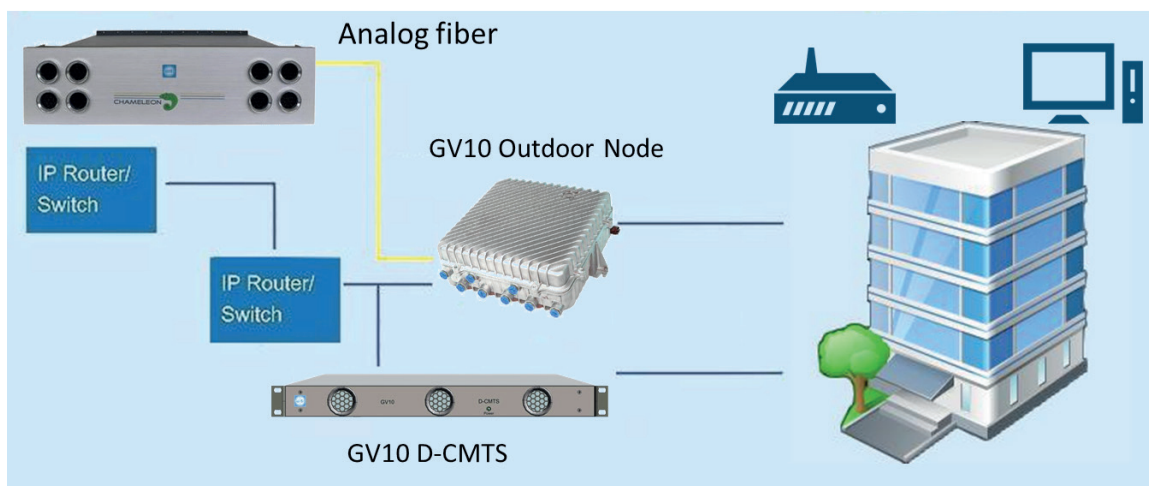
Description

GV10 I is a DOCSIS 3.0 cable edge device for the delivery of video, data and voice services over coax. One of the first products to support a Distributed Access Architecture (DAA), the GV10 I delivers DOCSIS/EuroDOCSIS/J-DOCSIS CMTS services today, with Universal EdgeQAM capabilities coming soon.

Compact and cost-effective GV10 I moves a service provider's RF requirements out of the headend or hub and places them deep in the fiber network, simplifying headend design and operation to resolve space and power constraints, lower capital and operational expenses, and provide service flexibility. GV10 allows Telcos and MSOs – and premise owners – to utilize a single device to deliver triple-play services to dense coax infrastructures, such as multiple dwelling units (MDUs), office buildings, college campuses and hospitality locations.

Applications

- **CCAP-ready: DOCSIS/EuroDOCSIS/ J-DOCSIS**
CMTS and Universal EdgeQAM (future) capabilities
- GigE, GPON or EPON network interface
- 960 Mbps downstream/160 Mbps upstream
- 16 Downstreams
- 64/256QAM modulation
- 4 Upstreams QPSK/16QAM/32QAM/64QAM modulation
- Up to 500 subscribers
- Downstream and upstream channel bonding with partial service support



D-CMTS 16x4 WISI GV10 I

Technical Information

Downstream Channels	
Number of Channels	16
Throughput	960 Mbps
Frequency Range	54-1006 MHz
Amplitude Frequency Response	- < 0.25 dB (within any QAM carrier) - < 2 dB (between any two QAM channels on same RF port)
QAM Modulations	ITU-T J.83 - Annex A (8 MHz), B (6 MHz), C (6 MHz)
QAM Constellations	Annex A/B/C: QAM 64, 256
QAM Agility	Window size of 192 MHz
MER Unequalized Equalized	- > 39 dB (Typical: > 42 dB) - > 45 dB (Typical: > 48 dB)
BER (pre FEC)	< 1 x 10 ⁻¹⁰

Upstream Channels	
Number of QAM Channels	4
Throughput	160 Mbps (≤ 40.96 Mbps per channel)
Channel Width	1.6 MHz, 3.2 MHz, 6.4 MHz
Frequency Range	5-85 MHz
Frequency Response	+/- 1 dB
Modulation Type	QPSK, 16-QAM, 32-QAM, 64-QAM, 128-QAM, 256-QAM (128 QAM, 256-QAM for S-CDMA for extended Broadcom-based cable modems)
Modulation Method	A-TDMA, S-CDMA
Specifications	DOCSIS 3.0, C-DOCSIS
Monitoring	MER, BER, CNR
Input Power Level	-13 to 23 dBmV per channel

General	
Power Supplies	One
Input Voltage Range	85-264 VAC
Power Consumption	< 45 W
Dimensions (W x H x D)	43.4 cm x 4.3 cm x 32.4 cm (1RU)
Weight	5.0 lbs/2.3 kg

DOCSIS Features	
Single MAC domain	
DS & US channel bonding with partial service	
CM support: DOCSIS 2.0 & 3.0	
Maximum service flows: 1,024	
DOCSIS classification	
Load balancing (CM count and bandwidth utilization-based)	
Forward Error Correction	
Concatenation/Fragmentation	
Multicast replication, Multicast DSID Forwarding (MDF) support	
Baseline Privacy Interface Plus (BPI+) - DES encryption	
Upstream ToS (Type of Service) overwrite	
Upstream Scheduling: Best effort, UGS, UGS-AD, rtPS, nrtPS	

Network Management	
Management Options	CLI, SNMP
SNMP Support	DOCSIS & IETF MIBs
Logging and Monitoring	Alarms status monitoring Syslog
Secure Access	SSHv2, TACACS+ AAA
RF Monitoring	Separate US and DS RF monitoring ports

Interfaces	
NSI Port	One RJ45 port or one port supporting pluggable optical or copper pt-to-pt or pt-to-mpt GigE, GPON or EPON networks
Total Throughput	1 Gbps Full duplex
RF Ports	Two, each port assignable as a DS, US or combined DS/US channel (the identical RF spectrum is served from both ports)
RF Monitoring Ports	Two (one DS, one US)
RF Port Connectors	F-type, 75 Ω, color coded for US and DS

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