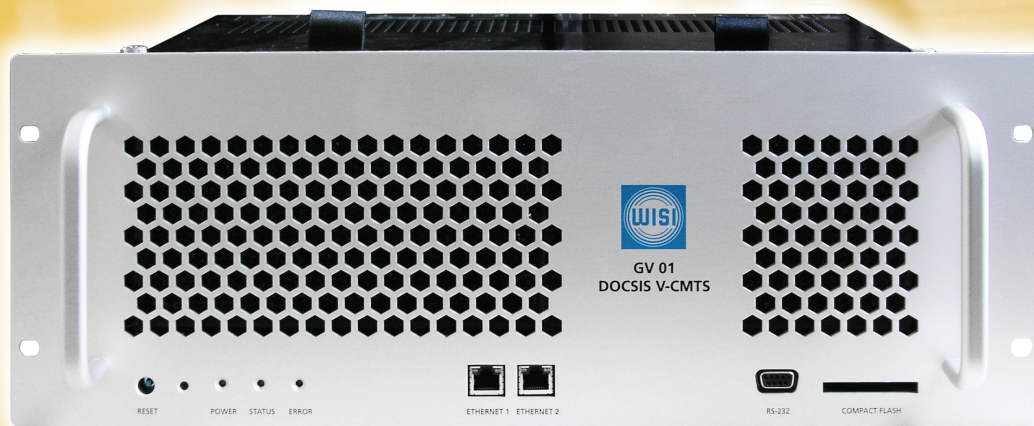


DOCSIS V-CMTS GV 01



Product Information



WISI GV 01

- Infield upgrade-able for future flexibility and enhanced features
- FPGA & DSPs - Flexibility of V-CMTS Chipset using programmable FPGAs
- All needed Server (DHCP/TFTP etc.) included
- Remote secure access via SNMP/HTTPS/SSH

Features:

- DOCSIS 2.0- compatible V-CMTS
- Modular technology
- Cost-effective solution for Triple-play services (Pay TV, Broadband & VoIP) over existing coax cable
- working with standard 2.0 EuroDOCSIS cable modems

excellence in digital ...

DOCSIS V-CMTS

GV 01



DESCRIPTION / OVERVIEW

- The WISI V-CMTS (Video - Cable Modem Termination System) is a "head-end in a box" providing IPTV video, broadband and VoIP (Telephony) to customers in cable TV, satellite & IPTV networks, Buildings, Hotels and Communities.
- It is a convenient solution for analog switch over, enabling digital SD Standard and HD High Definition TV over IPTV, Broadband Internet and VoIP.
- Traditional cable networks are supported with DVB-C compatible & EuroDOCSIS output, and IPTV networks are also supported via both Ethernet and Video over EuroDOCSIS.

The WISI V-CMTS is a 19" 4U chassis-based solution with IPTV capabilities and EuroDOCSIS support. The chassis houses up to 9 Input & Output Modules. The Output can be both QAM- and IP-based.

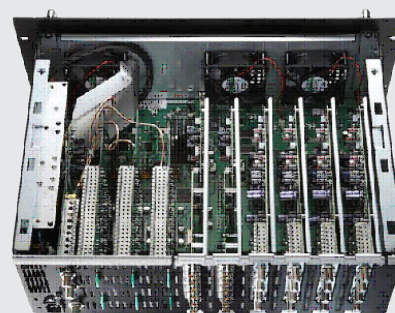
For customers that require a larger number of input or output modules, or require a flexible redundancy strategy, multiple WISI V-CMTSs can be deployed together like a single unit.

As an IPTV headend for coax networks, the WISI V-CMTS can convert input signals to multicast IP, creating an IPTV multicast network accessible through a EuroDOCSIS cable modem by any standard IPTV set-top box.

Existing coaxial terrestrial distribution networks are converted into high-speed triple-play bi-directional networks without the need for any modification or additional cabling. Unlike traditional head-ends, access is made available through a real-time video switching technique which means that the only programmes on the TV network are those that are currently requested from the interactive set-top boxes.

WISI V-CMTS enables both unicast and multicast IPTV signals to be passed over the in-house coax network, accessible through a EuroDOCSIS 2.0 cable modem by an IPTV set-top box. It implements an 'accelerated IGMP' which reduces channel change time to a minimum.

We recommend to use WISI approved Cable Modems and firmware to get accelerated IGMPv2 switching times.



Broadband Internet services can also be offered and are delivered to EuroDOCSIS 2.0 cable modems within the homes. Up to 15 QAM output channels can contain broadband internet services sourced from either of the two 10/100/1000 base-T Ethernet ports. This delivers downstream bandwidth to EuroDOCSIS cable modems up to 750Mbit/s in total. The V-CMTS supports up to 400 cable modems connected per chassis, offer configurable rate limiting and group contention ratios for broadband services. IPTV VOD services can be connected to gigabit Ethernet port and provided to IP set-top-boxes through the cable modems.

The V-CMTS can be connected to a back office to offer 'Remote Network Management'. Both SNMP and SSH (Secure Shell) are supported, allowing full remote configuration, diagnostics and maintenance.

The V-CMTS has been designed to be simple to install and supports an easy-to-use 'Secure Web interface' to assist the installer. A basic 'Spectrum Analyzer' function is available via this web interface, showing all the existing RF signals on the building network. A red/amber/green graphical representation of the V-CMTS status quick and easy identifies any problems.

The V-CMTS can either have its RF output manually configured or using the built-in spectrum analyzer to automatically scan the buildings coax network and place its output QAM channels in free space on the coax network. All options are stored in a single configuration file, which can be saved and uploaded via a Web interface, to reduce on-site configuration time. The software is upgradable either via the Gigabit Ethernet port locally or via remote access.

DOCSIS V-CMTS

GV 01



FEATURES at a Glance

Triple-play Compact DOCSIS Head-End

- QAM and IP Output
- IP over EuroDOCSIS/DOCSIS 2.0
- Secure Remote Monitoring and Management
- Remote Firmware Update and Upgrade

DOCSIS and Broadband headend

- Compatible with all coax networks
- No new wires installation needed
- Compatible with EuroDOCSIS 2.0 Cable Modems
- Fully automatic configuration available
- Automatic detection and management of RF changes
- 750 Mbps capacity for video/data
- 50 Mbps to any single client (per Modem)
- Up to 400 interactive clients
- Dual Gigabit Ethernet ports
- Fast IGMPv2 support

Broadband via EuroDOCSIS 2.0

- Supports up to 400 cable modems
- Acts as a EuroDOCSIS bridging CMTS
- Multicast support for IPTV services, e.g. WISI Ingesuite
- 750 Mbps Data Throughput max. (IP)
- Dynamic RF channel change (DCC) for load balancing
- Compatible with IPTV set-top boxes

QAM Modulation

- Up to 15 QAM channels (750Mbps),
- Symbol Rate 6.952 MSym/s



EASY to Use & extremely Easy to INSTALL

Automatic detection of RF changes

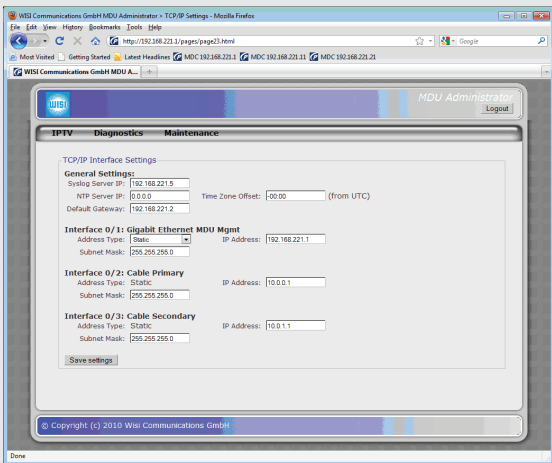
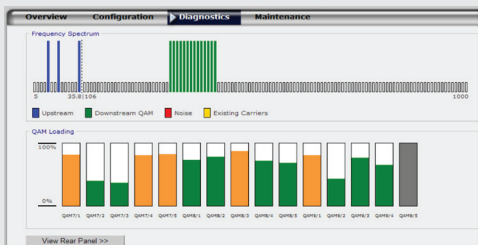
Compatible with all mayor IPTV set-top boxes

Remote firmware update and upgrade

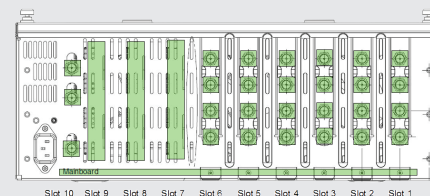
Secure remote monitoring and control via extensive SNMP MIBs/WEB/SSH for fault resolution & remote telemetry

The web interface allows easy configuration of the main parameter

- SNMP for automated remote monitoring
- Web server for user friendly interface
- Web Interface can show analysed RF Spectrum for diagnostics



Technical Modifications reserved, WISI cannot be held liable for any printing error. 09.12



GV01 VCMTS CHASSIS MAINBOARD AC	071622
GV30 VCMTS 5X QAM OUTPUT BOARD	071644
GV31 VCMTS COMBINER BOARD	071645
GV60 VCMTS ASI INPUT CARD	071660
GL01 VCMTS SW LICENCE DATA B	071620
GL02 VCMTS SW LICENCE BROADCAST A	071621

CE

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