

# Cable Modem Termination System CGW 1500



- **Docsis and EuroDocsis 1.1 qualified**
- **Up to 8 return path inputs**
- **Remote controllable over SNMP or CLI commands**
- **Redundancy operable**
- **Installation in 19" cupboard or free-standing**

## **Description**

Kathrein's CGW 1500 is a cable modem termination system (CMTS) specifically designed for small and medium sized cable networks.

The easy handling configuration allows one to rapidly operate in just a few minutes. The simple retro-fitting of extra return path inputs allows flexible matching to changing needs. One can switch using software between either operation according to the standard Docsis 1.1 or EuroDocsis 1.1. The CMTS is already qualified for use in both standards.

In the basic model rapid and reliable broadband services are enabled with one transmitter in the forward path (64-/256-QAM) and with one receiver in the return path (QPSK or 16-QAM). When needed, the CMTS can be simply extended using plug-in cards to handle up to 8 return path receivers. High segmentation of the return paths suppresses noise accumulation and allows achievement of an improved signal-to-noise-ratio. Redundant operation is also possible.

All Docsis/EuroDocsis 1.1 "Quality-of-Service"-Standards are supported. This allows a network operator, for example, to offer Voice-over-IP (VoIP) services to guaranteed data rates. An integrated Layer 3 filtering enables the internal data traffic of any connected subscribers without the data feeding out of the system. The data between the cable modems and the CGW 1500 are all coded according to Docsis/ EuroDocsis 1.1 with all the security features of Baseline Privacy Plus (BPI+).

The CGW 1500 is fitted with a double Ethernet interface. This allows one to very simply build up a path redundancy with automatic path switching.

All tuning can be carried out using the tuning elements on the front panel, aided by the integrated display. It is also possible to remotely control the CMTS via the SNMP interface or using a terminal programme with CLI (Command Line Interface) commands.

**KATHREIN**

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# Technical Data

## RF connections

<b>Forwards path</b>			
Operational standard (switchable)	Docsis 1.1	EuroDocsis 1.1	
Channel bandwidth	6	8	MHz
Frequency range	88-860		MHz
Modulation type	64- or 256-QAM		
Forward Error Correction	Reed Solomon		
Output level	110-121		dB $\mu$ V
Output impedance	75		$\Omega$
Return loss	14		dB
<b>Return path</b>			
Operational standard (switchable)	Docsis 1.1	EuroDocsis 1.1	
Frequency range	5-42	5-65	MHz
Channel bandwidth	variable, 200 kHz-3,2 MHz		
Modulation type	QSPK or 16-QAM		
Forward Error Correction	Reed Solomon Block Code and Trellis Code		
Input level	56-86		dB $\mu$ V

## General

Power supply	88-264	VAC
Power draw (max.)	100	W
Ambient temperature range	0...+40	$^{\circ}$ C
Relative humidity	10-90, not condensing	%
Dimensions <sup>1)</sup> *(WxHxD)	440x67x420	mm
Weight	8,16	kg

1) without 19" fixing plates (in delivery scope)

## Order information

TYP	Order nr.	Description
<b>CGW 1500</b>	26210055	CMTS, Docsis or EuroDocsis 1.1 standing operation or in 19" frame
<b>CGR 108</b>	26210057	Return path receiver (plug-in card)