

CORNERSTONE®

CABLE MODEM TERMINATION SYSTEM 1000



APPLICATION

The Cornerstone Modem Termination System 1000 (CMTS 1000) is a CableLabs® Qualified,™ DOCSIS 1.0 System which enables operators to offer services that maintain existing subscribers and provide new revenue opportunities. The CMTS 1000 is the most cost-effective headend solution for delivery of high-speed data services. Additionally, the CMTS 1000 can be upgraded to DOCSIS 1.1 functionality to support advanced services like IP telephony and business services.

BENEFITS

- Maximizes network performance
- Protects existing investments and prepares operators for tomorrow
- Maximizes operator revenues
- Enhances network security
- Eases management



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FEATURES

- CableLabs® Qualified™
- Support for EuroDOCSIS requirements without any hardware changes
- Interoperability tested with CableLabs Certified cable modems
- Support for guaranteed service levels
- Provides smaller footprint and more modems per channel than other cable headend equipment
- Enables operators to readily provide differentiated services at a reduced cost via Layer 3 routed switch headend architecture
- Provides the forwarding and filtering rates necessary to meet today's demanding applications
- Support for up to eight upstream channels and one downstream channel, upstream redundancy and upstream monitoring for robust and reliable functionality
- Allows for packet concatenation for transport across the HFC network allowing the cable operator to achieve improved performance and throughput
- Provides Ingress Avoidance capabilities to allows operators to customize their operations based on their particular cable plant characteristics
- Ensures easy IP network administration via Layer 2 switching
- Provides system security by using data encryption and packet filtering
- Fully compliant with DOCSIS Baseline Privacy Specifications to ensure cable plant security and private end-to-end communications
- Fully Simple Network Management Protocol (SNMP) manageable via any remote station
- Provides enhanced command and account management functions via an improved Command Line Interface (CLI)
- Provides identical CLI capabilities via multiple-user Telnet sessions allowing operators to remotely manage their CMTS

SPECIFICATIONS

Physical

Operating Temperature °F (°C)	32-104 (0-40)
Storage Temperature °F (°C)	-40 to 151 (-40 to 66)
Relative Humidity (Min.-Max.) (Non condensing)	10-90%
Input Voltage (Min.-Max.)	88-264 Vrms @ 47-63 Hz or -48 V dc
Input Power (W) (Max.)	100
Dimensions (H x W x D) in. (cm)	2.62 x 17.35 x 16.56 (6.65 x 44 x 42)
Weight lbs. (kg)	18 (8.16)

Installation Environment

Packaging Type	19" rack-mounted or standalone
Power Supply	Slimline package/standalone
Ethernet Connectivity	10/100BASE-T

Specifications are subject to change without notice.

SPECIFICATIONS (cont.)

RF

Downstream

RF Channel Width (MHz)	6 (North American DOCSIS) or 8 (EuroDOCSIS)
Frequency Range (MHz)	88-860 (band edges)
Modulation (QAM)	64 or 256
Forward Error Correction	Reed Solomon
RF Output Level (dBmV)	50-61
Output Impedance (ohms)	75
Return Loss (dB)	14
Transmit Output Power Accuracy (dB)	1

Upstream

RF Channel Spacing	Variable, 200 KHz-3.2 MHz
Frequency Range (MHz)	5-42 (band edges) (North American DOCSIS) or 5-65 (band edges) (EuroDOCSIS)
Modulation	QPSK or 16 QAM
Forward Error Correction	Concatenation of Reed Solomon Block Code and Trellis Code
Receive Input Level (dBmV)	-4 to 26 (operator configurable)

Regulatory Specifications

U.L.°, CSA, FCC B, EN60950, CE, VCCI, AS/NZ, 3548, AS/NZ 3260

ORDERING INFORMATION

Model #	Part #
CMTS 1000, ac Power	253667
CMTS 1000, dc Power	253666

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