# **CORNERSTONE®**

#### **CABLE MODEM TERMINATION SYSTEM 1500**



#### **APPLICATION**

The Cornerstone Cable Modem Termination System 1500 (CMTS 1500) is a DOCSIS™ 1.1 Qualified and Euro-DOCSIS 1.1 Qualified headend solution that enables Broadband Service Providers to provide reliable, high-speed services to their customers over DOCSIS and PacketCable™ based NIU devices.

#### **BENEFITS**

- Optimizes resources through simplified installation and management
- Enables operators to maximize revenues by providing high-speed services to their customers
- Enables operators to reduce maintenance costs through increased network availability and performance
- Ensures cable services security with enhanced security features
- Protects existing investments and prepares operators for tomorrow



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## FEATURES

- DOCSIS 1.1 Qualified and Euro-DOCSIS 1.1 Qualified
- Supports DOCSIS 1.1/Euro-DOCSIS 1.1 Quality of Service standards enabling operators to provide advanced services such as Telephony over IP (ToIP™)
- Enables operators provide guaranteed data rates and implement tiered data services
- Offers operators the ability to upgrade current equipment to DOCSIS 1.1/Euro-DOCSIS 1.1 functionality
- Employs "Intelligent Channel Seek™" technology
- 28.9 year mean-time-between-failure and less than 20 minute mean-time-to-repair
- Provides redundant upstream support using eighth upstream receiver card as spare

- Implements Layer 3 filtering and forwarding functionality
- Reduces cost and network complexity via Ethernet path redundancy with automated switchover
- Installs to full operational capacity in as little as 5 minutes after power-up
- Remote control of CMTS using SNMP and CLI commands
- Offers complete set of security features that comply with DOCSIS/Euro-DOCSIS Baseline Privacy Plus (BPI+) Specifications for cable services security and private end-to-end communications

#### **SPECIFICATIONS**

Physical	
Operating Temperature °F (°C)	32-104 (0-40)
Storage Temperature °F (°C)	-40 to 151 (-40 to 66)
Relative Humidity (MinMax.)	
(Non condensing)	10-90%
Input Voltage (MinMax.)	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	Redundant, self-sensing 10/100 Base-T Ethernet
Cable Plant Connectivity	9 F-connectors: 1 downstream, 8 upstream
RF	
Downstream	
RF Channel Width (MHz)	6 (DOCSIS) or 8 (Euro-DOCSIS)
Frequency Range (MHz)	88-860 (band edges)
Modulation (QAM)	64 or 256
Forward Error Correction	Reed Solomon
RF Output Level (dBmV)	50-61
Output Impendence (ohms)	75
	1.1
Return Loss (dB)	14

Specifications are subject to change without notice.

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#### SPECIFICATIONS (CONT'D)

ream	
RF Channel Spacing	Variable, 200 KHz-3.2 MHz
Frequency Range (MHz)	5-42 (band edges) (DOCSIS)
	or 5-65 (band edges) (Euro-DOCSIS)
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)

#### ORDERING INFORMATION

Model #	Part #
CMTS 1500, ac Power	254317
CMTS 1500, dc Power	254318
CMTS 1500, 4.0 Software	254330
CMTS 1500, 4.2 Software	708177
CMTS 1500, 4.2 Software (Upgrade for 4.x Users)	708178
CMTS 1000-1100 Upgrade (Factory Installed), ac Power	254319
CMTS 1000-1100 Upgrade (Factory Installed), dc Power	254498
CMTS ac to dc Power Conversion	706694

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