Cable Modem Termination System
Communication Station - CMTS

❍ **Features & Benefits**

• DOCSIS & Euro DOCSIS CMTS in 1 Rack High Chassis Unit

• Scalable Design supports Up to 8 Upstream Channels

• Traffic Forwarding Performed via Layer-2 Transparent Bridge

• Integrated Advanced Command Line Interface Permits Easy Programming

• Remotely Manageable & Upgradeable with SNMP & Telnet Access Capabilities

The Communication Station CMTS unit from Blonder Tongue is a high performance cable modem termination system designed to accommodate practically any application but is perfectly suited for small system type deployments.

The CS-CMTS starts out like your usual DOCSIS/Euro-DOCSIS "pizza box" like unit but that is where the comparison ends. The unit features a scalable design architecture that minimizes capital investment by providing the ability to add support for additional subscribers as the base grows. This is accomplished by supporting 1 to 8 upstream modules that are field installable. An advanced command line interface (CLI) software with context sensitive help and variable prompts make set-up easy. The CLI can be accessed locally via the serial interface or remotely through the built-in network secure Telnet server as well as provide remote download capability for software updates with the use of TFTP and FTP servers.

Security is vital to any data application today and the CS-CMTS provides advanced tools such as DOCSIS BPI and BPI+ packet filtering, and DHCP and ARP monitoring to prevent unauthorized system access. Traffic forwarding is handled as a layer-2 transparent bridge with support for Syslog, Radius, PPPoE and network protocol services. Plus, subscriber satisfaction during peak usage is maintained with a unique dynamic load balancing approach of upstream traffic management with the use of load balancing algorithms and support for upstream frequency reuse. An optional NMS (Network Monitoring Software) is also available to provide a single source for configuration, service provisioning, performance analysis, QoS accounting and subscriber access authentication. This all adds up to the most complete, easy to use and affordable DOCSIS based CMTS solution available.

❍ **Specifications**

Downstream	DOCSIS	Euro-DOCSIS
Downstreams (MHz):	44	36.125
IF Output (MHz):	6	8
RF Channel Spacing:	1	1
Number of Channels:	QAM 64 & QAM 256	QAM 64 & QAM 256
Modulation Type:	5.056 Msyms/s (QAM 64)	6.952 Msyms/s (QAM 64)
Symbol Rate:	5.360 Msyms/s (QAM 256)	6.952 Msyms/s (QAM 256)
Bandwidth (MHz):	6	8
Output Impedance (Ω):	75	75
Output Return Loss (dB):	> 14	> 14
Output Level (dBmV):	+ 40	+ 40
Upstream		
Frequency Range (MHz):	5 - 42	5 - 65
Number of Channels:	1 to 8	1 to 8
CNR (In Channel) (dB):	> 22	> 22
Level Range (dBmV):	-4 to 26	-4 to 26
Modulation Type:	QPSK & QAM 16	QPSK & QAM 16
Symbol Rate(ksym/s):	160, 320, 640, 1280 & 2560	160, 320, 640, 1280 & 2560
Bandwidth (kHz):	200, 400, 800, 1600, 3200 6	200, 400, 800, 1600, 3200

Connectors

LAN Interface: 10BaseT/100BaseT Fast Ethernet

Serial Port: EIA-232 9 Pin D

IF Out Port: F Connector, Rear

US Port: F Connector, Rear

-20 dB IF Test Port: BNC Connector, Front

LEDs: AC Power, Link, WAN, Data Downstream, Data Upstream

System Standards

Specification: DOCSIS/EuroDOCSIS 1.0

Communication: SNMP, Radius, PPPoE, Telnet

Mechanical

Dimensions: (H x W x H) 21 x 1.75 x 19 in.

515 x 44 x 483 mm

Weight: 19.8 lbs., 9 kg

General

Power: 34 W

Voltage: 100 to 240 V, 47 to 63 Hz, Auto

Safety Comliance: UL, CE

EMC/EMI: FCC Part 15, CE Class B

Operating Temperature: 0° to 40° C

Refer to product instruction manual for additional specification measurements and notes.

❍ **Ordering Information**

Model	Stock No.	Description
CS-BT-CMTS-1x1	2643	Blonder Tongue 1 x 1 DOCSIS CMTS, 1 Downstream 1 Upstream Channel
CS-BT CMTS U/S Mod	2644	BT CMTS Upstream Module
CS-CMTS-FOCS	2646	Flexible Operating & Control System Software for CMTS

Accessory

AQC	6274	Agile QAM Modulator