

miniCMTS200a

Mini Cable Modem Termination System

An alternative to larger, more expensive cable modem termination systems (CMTS) & second-hand units with low bandwidth, ATX's miniCMTS is designed to provide smaller cable operators with the capabilities they need at an exceptional value. The low-cost unit supports up to 400 cable modems depending on the usage model & cable modem type (maximum of 250 DOCSIS® 3.0 + 150 DOCSIS 2.0 or 400 DOCSIS 2.0). We recommend a maximum of 400 modems for hospitality applications & a maximum of approximately 200 modems for residential applications or anywhere that a higher usage model applies.

The miniCMTS offers 16 downstream bonded channels for up to 800 Mbps downstream /120 Mbps upstream data delivery. In a residential setting with 200 modems, this data rate provides for a 4 Mbps uncontended Internet connection per subscriber.

Specifications

DOWNSTREAM CHANNEL	
QAM MODULATION MODE	Annex A, B
QAM MODULATION	64 QAM, 256 QAM
DATA RATE	36 Mbps @ 64 QAM, 50 Mbps @ 256 QAM
DOWNSTREAM CHANNEL QUANTITY	16-channel
DOWNSTREAM MAX. SPEED	800 Mbps
FREQUENCY RANGE	87-1000 MHz
CHANNEL BANDWIDTH	8 MHz/6 MHz
OUTPUT POWER	49 dBmV (8-channel) 45 dBmV (16-channel)
POWER ADJUSTED RANGE	Adjusted 25 dB, Step Size 0.5 dB
PRE-EQUALIZED MER	42 dB
UPSTREAM CHANNEL	
UPSTREAM MODULATION	QFSK, 16 QAM, 64 QAM
DATA RATE	30 Mbps @ 64 QAM (6.4 MHz)



miniCMTS200a
(front view)

Features

- Optimized for smaller cable operators
- Supports up to 400 DOCSIS cable modems
- Offers 16 downstream bonded channels
- Provides high-speed data delivery: 800 Mbps downstream & 120 Mbps upstream
- Features an intuitive web interface for simple configuration, management & debugging



miniCMTS200a
(rear view)

UPSTREAM CHANNEL (cont'd)	
UPSTREAM CHANNEL QUANTITY	4-channel
UPSTREAM MAX. RATE	120 Mbps
INPUT FREQUENCY RANGE	5-65 MHz
INPUT LEVEL RANGE	Bandwidth 6.4 MHz, -7 dBmV to 23 dBmV Bandwidth 3.2 MHz, -10 dBmV to 20 dBmV Bandwidth 1.6 MHz, -13 dBmV to 17 dBmV
RF OUTPUT	
RF IN CONNECTOR (Upstream)	1x F Connector, 75 Ω
RF OUT CONNECTOR (Downstream)	1x F Connector, 75 Ω
PORT INSERT LOSS	< 4 dB
PORT REFLECT LOSS	< -12 dB
DATA PORT	
NET PORT RATE	10/100/1000 Mbps
NET PORT TYPE	Managed Connector, 1x RJ45 Data Connector, 1x SFP & 1x RJ45

Specifications (cont'd)

miniCMTS200a

COMMUNICATION INTERFACE (cont'd)	
COMMAND LINE INTERFACE (CLI)	RS232 Serial Port Telnet or SSH
SNMPv2	DOCSIS MIBs
OTHER FUNCTIONS	
MAX. CABLE MODEM AMOUNT	400 DOCSIS 2.0 400 (Max. 250 DOCSIS 3.0 + 150 DOCSIS 2.0)
DYNAMIC LOAD BALANCED	Supported
DHCP RELAY	Supported
GENERAL	
OPERATING TEMPERATURE	-10°C to +50°C (+14°F to +122°F)
HUMIDITY	10-90%
POWER	< 35 Watts (without Optical Receiver) < 45 Watts (with Optical Receiver)
POWER SUPPLY	220V/110V
DIMENSIONS	1.75"H x 19.0"W x 16.0"D (4.45H x 48.26W x 40.6D cm)

Ordering Information

Part Number	Description
miniCMTS200a	Mini Cable Modem Termination System
MCMTS-SF	One year annual support and service fee for miniCMTS200a

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