

# 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	
<b>QAM MODULATION MODE</b>	Annex A, B
<b>QAM MODULATION</b>	64 QAM, 256 QAM
<b>DATA RATE</b>	36 Mbps @ 64 QAM, 50 Mbps @ 256 QAM
<b>DOWNSTREAM CHANNEL QUANTITY</b>	16-channel
<b>DOWNSTREAM MAX. SPEED</b>	800 Mbps
<b>FREQUENCY RANGE</b>	87-1000 MHz
<b>CHANNEL BANDWIDTH</b>	8 MHz/6 MHz
<b>OUTPUT POWER</b>	49 dBmV (8-channel) 45 dBmV (16-channel)
<b>POWER ADJUSTED RANGE</b>	Adjusted 25 dB, Step Size 0.5 dB
<b>PRE-EQUALIZED MER</b>	42 dB
UPSTREAM CHANNEL	
<b>UPSTREAM MODULATION</b>	QFSK, 16 QAM, 64 QAM
<b>DATA RATE</b>	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)	
<b>UPSTREAM CHANNEL QUANTITY</b>	4-channel
<b>UPSTREAM MAX. RATE</b>	120 Mbps
<b>INPUT FREQUENCY RANGE</b>	5-65 MHz
<b>INPUT LEVEL RANGE</b>	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	
<b>RF IN CONNECTOR (Upstream)</b>	1x F Connector, 75 Ω
<b>RF OUT CONNECTOR (Downstream)</b>	1x F Connector, 75 Ω
<b>PORT INSERT LOSS</b>	< 4 dB
<b>PORT REFLECT LOSS</b>	< -12 dB
DATA PORT	
<b>NET PORT RATE</b>	10/100/1000 Mbps
<b>NET PORT TYPE</b>	Managed Connector, 1x RJ45 Data Connector, 1x SFP & 1x RJ45

## Specifications (cont'd)

### miniCMTS200a

COMMUNICATION INTERFACE (cont'd)	
<b>COMMAND LINE INTERFACE (CLI)</b>	RS232 Serial Port Telnet or SSH
<b>SNMPv2</b>	DOCSIS MIBs
OTHER FUNCTIONS	
<b>MAX. CABLE MODEM AMOUNT</b>	400 DOCSIS 2.0 400 (Max. 250 DOCSIS 3.0 + 150 DOCSIS 2.0)
<b>DYNAMIC LOAD BALANCED</b>	Supported
<b>DHCP RELAY</b>	Supported
GENERAL	
<b>OPERATING TEMPERATURE</b>	-10°C to +50°C (+14°F to +122°F)
<b>HUMIDITY</b>	10-90%
<b>POWER</b>	< 35 Watts (without Optical Receiver) < 45 Watts (with Optical Receiver)
<b>POWER SUPPLY</b>	220V/110V
<b>DIMENSIONS</b>	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
<b>miniCMTS200a</b>	Mini Cable Modem Termination System
<b>MCMTS-SF</b>	One year annual support and service fee for miniCMTS200a

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