



## CMTS EDGE

MULTI-FUNCTION EDGE CMTS AND QAM VIDEO PLATFORM



### PRODUCT OVERVIEW

The **CMTS Edge**, a best-in-class CMTS, supports DOCSIS 3.1, 3.0, and 2.0, using a powerful Marvell Octeon™ network processor with hardware acceleration. The CMTS Edge is built upon a stable and proven Linux operating system to deliver the industry’s best performance, scalability, security, and reliability. Compact in a 1RU footprint, the CMTS Edge makes mounting simple and takes up minimal space in a data center. The dual redundant power supplies also provide valuable uptime protection.

### KEY FEATURES

- » DOCSIS/EuroDOCSIS 3.1/3.0/2.0 compatible
- » Compact 1RU 19” chassis
- » Hot swap dual redundant power supplies
- » Intuitive web-based GUI
- » Command line interface via serial/SSH/Telnet
- » Integrated cable modem load balancing
- » Real time CM/CPE statistics
- » QoS support
- » Multicast IP video in Edge QAM mode
- » Internal DHCP/TFTP server
- » Support for external provisioning DHCP/TFTP
- » Dual-Stacked IPv4/IPv6 compatibility
- » VLAN tagging via option 60
- » L2/L3 DHCP relay
- » SFP+ 10GbE / Fast-Ethernet / Serial front panel
- » Mixed-Mode feature supports simultaneous operation of DOCSIS 3.1 and 3.0 cable modems

There are multiple **CMTS Edge** models, giving you the flexibility to deploy an economical solution today, with the availability to scale your throughput as your bandwidth demands increase.

### ORDERING INFORMATION

MODEL	STOCK#	DESCRIPTION
CMTS Edge 16	<b>2348 16</b>	16 Down / 4 Up; DOCSIS 3.0/2.0
CMTS Edge 32	<b>2348 32</b>	32 Down / 8 Up; DOCSIS 3.0/2.0
CMTS Edge 32 Plus	<b>2348 32P</b>	32 Down / 1 OFDM Down / 8 ATDMA Up; DOCSIS 3.1/3.0/2.0

## INPUT / OUTPUT INTERFACES

### DATA PORTS

<b>Up to 10GbE</b>	1x SFP+ Pluggable (Optical/Copper)
<b>100Mbps</b>	1x RJ45 Fast-Ethernet (Management)

### RF UPSTREAM

<b>Connectors</b>	4x "F" Connector
<b># of Channels</b>	Up to 8, depending on license
<b>Frequency Range</b>	5 - 85 MHz
<b>Modulation Mode</b>	QPSK / 16, 32, 64, or 256 QAM
<b>Bandwidth</b>	1.6 / 3.2 / 6.4 MHz
<b>Receive Levels</b>	-7 to +23 dBmV @ 6.4 MHz -10 to +20 dBmV @ 3.2 MHz -13 to +17 dBmV @ 1.6 MHz

### RF DOWNSTREAM

<b>Connectors</b>	1x "F" Connector
<b># of Channels</b>	Up to 32 SCQAM, 1 OFDM (optional)
<b>Frequency Range</b>	54-1003 MHz
<b>Modulation Scheme</b>	64 / 256 / 1024 / 2048 / 4096 QAM
<b>Max QAM Output Level (@ 6MHz)</b>	~37 dBmV @ 32 SCQAM & 1 OFDM ~42 dBmV @ 32 channels ~45 dBmV @ 16 channels ~49 dBmV @ 8 channels ~52 dBmV @ 4 channels ~56 dBmV @ 2 channels ~60 dBmV @ 1 channel

## ALARMS & MONITORING

<b>Local Monitoring</b>	Power Supply A/B, SFP+ Link, Power, Run, Cable, and Alarm (LED Indicators)
<b>Button</b>	1x IP Reset Button
<b>Control Port</b>	100Mbps RJ45 configurable IP address (Front Panel)
<b>Access</b>	HTTP GUI and Telnet/SSH over IP
<b>Console</b>	1 x RJ45 RS232 serial port (Front Panel)

## SYSTEM FUNCTIONS

<b>DHCP Internal</b>	IPv4 and IPv6
<b>DHCP External</b>	Supports L2 / L3 DHCP / DHCPv6 Relay
<b>IPv4 and IPv6</b>	IPv4 and IPv6 dual-stack
<b>QoS</b>	802.1ad / 802.1q
<b>VLAN</b>	VLAN tagging by device type using option 60
<b>L2VPN</b>	L2VPN support, IGMP v2 / v3 snooping
<b>Security</b>	Shared Secret, PKI
<b>Spread Spectrum</b>	Upstream Automatic frequency hopping
<b>Load Balancing</b>	RLBG / GLBG, Load balance priority
<b>Multicast</b>	Static Multicast verification MLD v1 & v2 IGMP v2 & v3

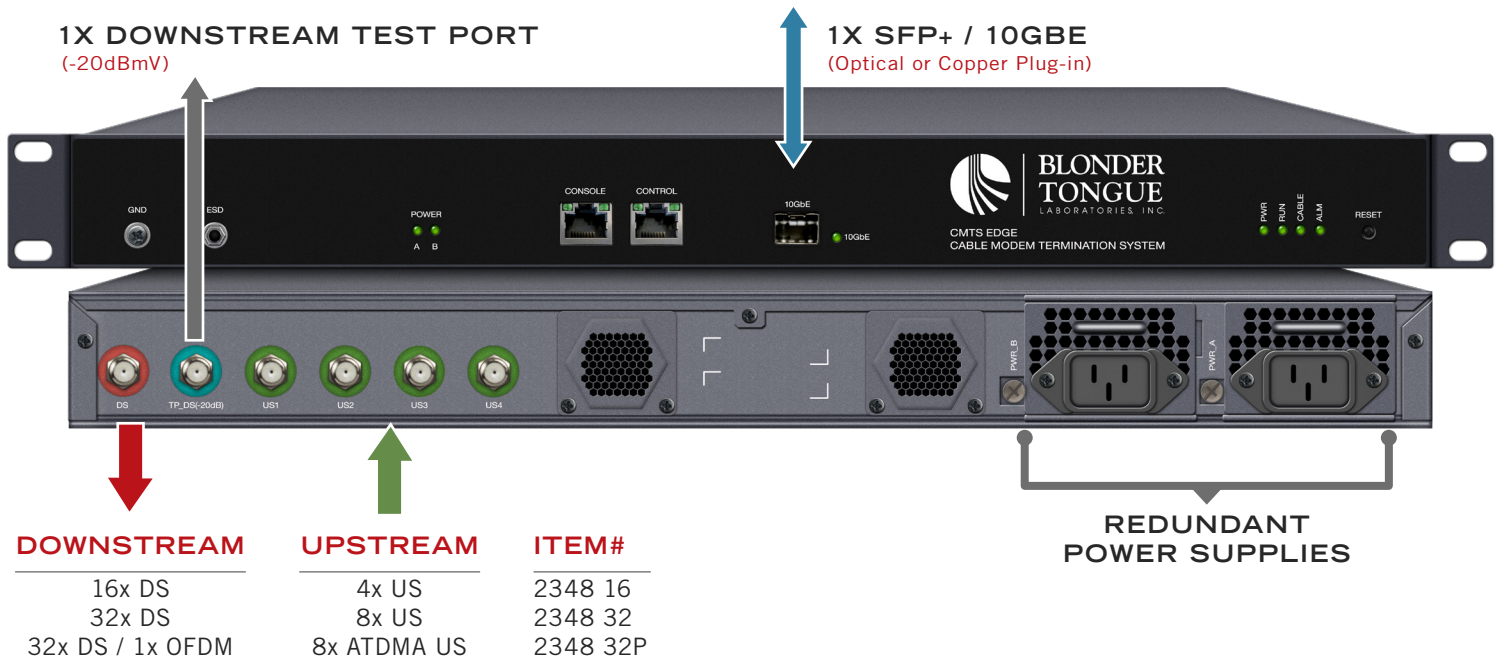
## GENERAL

<b>Dimensions (W x H x D)</b>	19.0 x 1.75 x 11.8 in (483 x 45 x 300 mm)
<b>Weight</b>	12 lbs (5.5 kg)
<b>Power</b>	90V-264VAC, 50-60Hz (Dual Redundant)
<b>Power Consumption</b>	64 W
<b>Operating Temp.</b>	32 to 122 °F (0 to 50 °C)
<b>Storage Temp.</b>	-13 to 158 °F (-25 to 70 °C)
<b>Operating Humidity</b>	0 to 95% RH @ 35 °C max, non-condensing

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## I/O OVERVIEW



## LICENSE INFORMATION

To provide the ultimate in scalability, software licenses are available to convert the CMTS Edge 16 to the CMTS Edge 32, and another one to convert the 32 to a 32 Plus.

STOCK#	DESCRIPTION
<b>2348 32 LIC</b>	CMTS Edge 32 License Upgrade
<b>2348 32P LIC</b>	CMTS Edge 32 Plus License Upgrade