

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	2348 16	16 Down / 4 Up; DOCSIS 3.0/2.0
CMTS Edge 32	2348 32	32 Down / 8 Up; DOCSIS 3.0/2.0
CMTS Edge 32 Plus	2348 32P	32 Down / 1 OFDM Down / 8 ATDMA Up; DOCSIS 3.1/3.0/2.0

INPUT / OUTPUT INTERFACES	
DATA PORTS	
Up to 10GbE	1x SFP+ Pluggable (Optical/Copper)
100Mbps	1x RJ45 Fast-Ethernet (Management)
RF UPSTREAM	
Connectors	4x “F” Connector
# of Channels	Up to 8, depending on license
Frequency Range	5 - 85 MHz
Modulation Mode	QPSK / 16, 32, 64, or 256 QAM
Bandwidth	1.6 / 3.2 / 6.4 MHz
Receive Levels	-7 to +23 dBmV @ 6.4 MHz -10 to +20 dBmV @ 3.2 MHz -13 to +17 dBmV @ 1.6 MHz
RF DOWNSTREAM	
Connectors	1x “F” Connector
# of Channels	Up to 32 SCQAM, 1 OFDM (optional)
Frequency Range	54-1003 MHz
Modulation Scheme	64 / 256 / 1024 / 2048 / 4096 QAM
Max QAM Output Level (@ 6MHz)	~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	
Local Monitoring	Power Supply A/B, SFP+ Link, Power, Run, Cable, and Alarm (LED Indicators)
Button	1x IP Reset Button
Control Port	100Mbps RJ45 configurable IP address (Front Panel)
Access	HTTP GUI and Telnet/SSH over IP
Console	1 x RJ45 RS232 serial port (Front Panel)

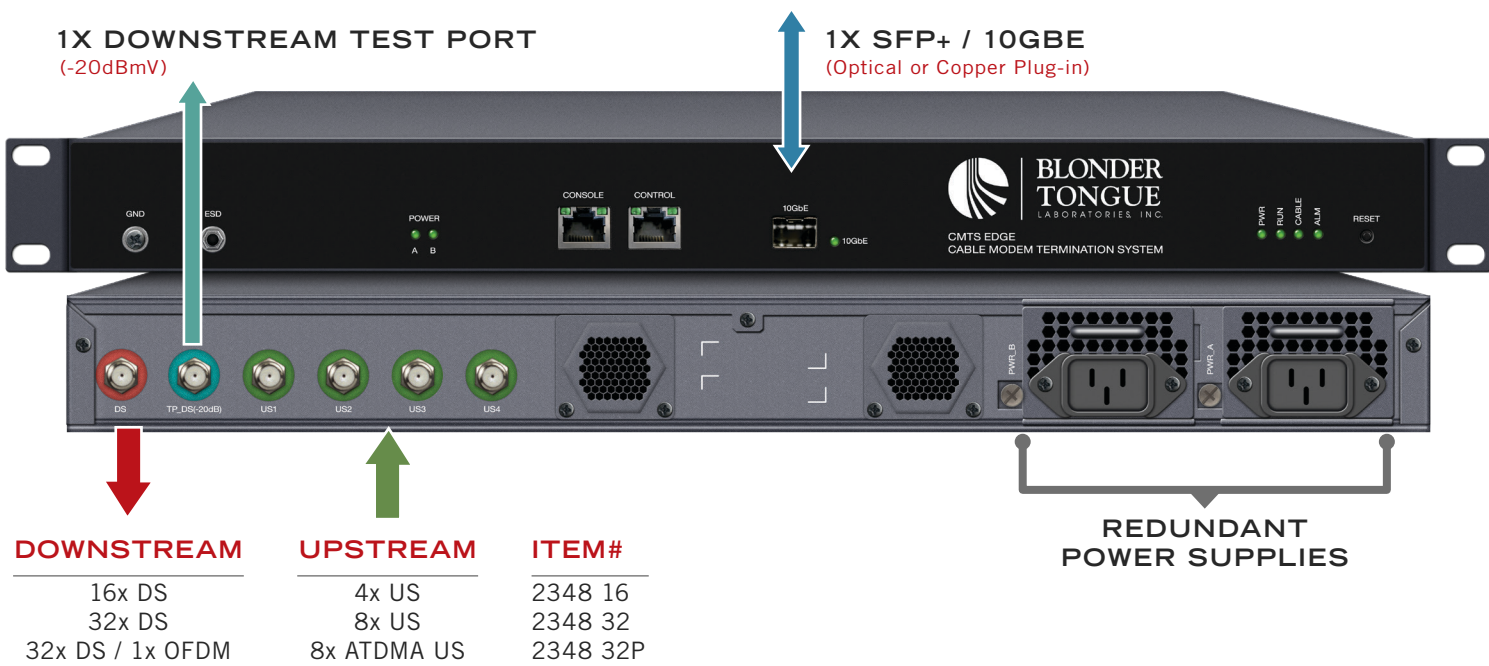
SYSTEM FUNCTIONS	
DHCP Internal	IPv4 and IPv6
DHCP External	Supports L2 / L3 DHCP / DHCPv6 Relay
IPv4 and IPv6	IPv4 and IPv6 dual-stack
QoS	802.1ad / 802.1q
VLAN	VLAN tagging by device type using option 60
L2VPN	L2VPN support, IGMP v2 / v3 snooping
Security	Shared Secret, PKI
Spread Spectrum	Upstream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

GENERAL	
Dimensions (W x H x D)	19.0 x 1.75 x 11.8 in (483 x 45 x 300 mm)
Weight	12 lbs (5.5 kg)
Power	90V-264VAC, 50-60Hz (Dual Redundant)
Power Consumption	64 W
Operating Temp.	32 to 122 °F (0 to 50 °C)
Storage Temp.	-13 to 158 °F (-25 to 70 °C)
Operating Humidity	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
2348 32 LIC	CMTS Edge 32 License Upgrade
2348 32P LIC	CMTS Edge 32 Plus License Upgrade