

BT-CMTS-3210 Cable Modem Termination System DOCSIS 3.0, 32x10 Configuration



Blonder
Tongue

Features

- Best-in-class edge-QAM/CMTS
- Powerful Marvell Octeon™ network processor with hardware acceleration
- Stable, proven industry standard Linux operating system
- Compact 1RU footprint, dual redundant PS



The **BT-CMTS-3210** supports 32 DS and 10 US channels. A maximum of 1 Gb/s is supported, as the total aggregate US/DS bandwidth throughput using higher order modulation schemes.

Based on optimal SNR conditions in a DOCSIS network, the BT-CMTS-3210 can support up to 1000 modems.

- DOCSIS/EuroDOCSIS 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+/1GbE/Serial ports on front panel

Ordering Information

<u>Model</u>	<u>Stock #</u>	<u>Description</u>
BT-CMTS-3210	2342A	32x10 DOCSIS 3.0 Edge-CMTS

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Input/Output Interfaces

Data Port	10GbE: 1x SFP+ (For Optical/Copper SFP Plug-In) 1GbE: Ethernet RS-232: Serial
RF Upstream	Connectors: 4x "F" Conn. # of Channels: 10 Frequency Range: 5-65 MHz Modulation Mode: QPSK 16 / 32/ 64 / 256 QAM Bandwidth: 1.6 / 3.2 / 6.4 MHz Receive Level: -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" Conn. # of Channels: 32 Frequency Range: 54 / 87 / 108 - 1003 MHz Modulation Scheme: 64 / 256 / 1024 QAM Max. QAM Output Level (6 MHz): 42 dBmV @ 32 channels 45 dBmV @ 16 channels 49 dBmV @ 8 channels 52 dBmV @ 4 channels 56 dBmV @ 2 channels 60 dBmV @ 1 channel

System Functions

DHCP Internal:	IPv4 and IPv6
DHCP External:	Support via L2/L3 DHCP forward
IPv4 and IPv6:	IPv4 and IPv6 dual-stack
QoS:	802.1ad/802.1q
VLAN :	VLAN addition according to device (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
MAC Domain Mgmt.:	13-bit DOCSIS L2 identifier SID
Multicast:	Static Multicast verification MLD v1&2 IGMP 2 &3 ping

Alarms/Monitoring/Control

Local Monitoring:	LED Indicators: Power Supply A, Power Supply B, SFP+ Link, Power, Run, Cable, Alarm
Button:	Front panel concealed reset
Control Port:	Front panel RJ45 with configurable IP address GUI access and Telnet/SSH over IP
Console:	1xRJ45 Front Panel Port, RS232 serial port

General

Electrical	Power: 90V-264VAC,50/60Hz (Dual Redundant) Power Consumption: 52 W
Mechanical	Operating Temp: 32 to 104 °F (0 to 40 °C) Operating Humidity: 10% to 90% non-condensing Dimensions (W x D x H): 19 x 11.8 x 1.75 inches Weight: 12 lbs. (5.5 kg)

Application Drawing

