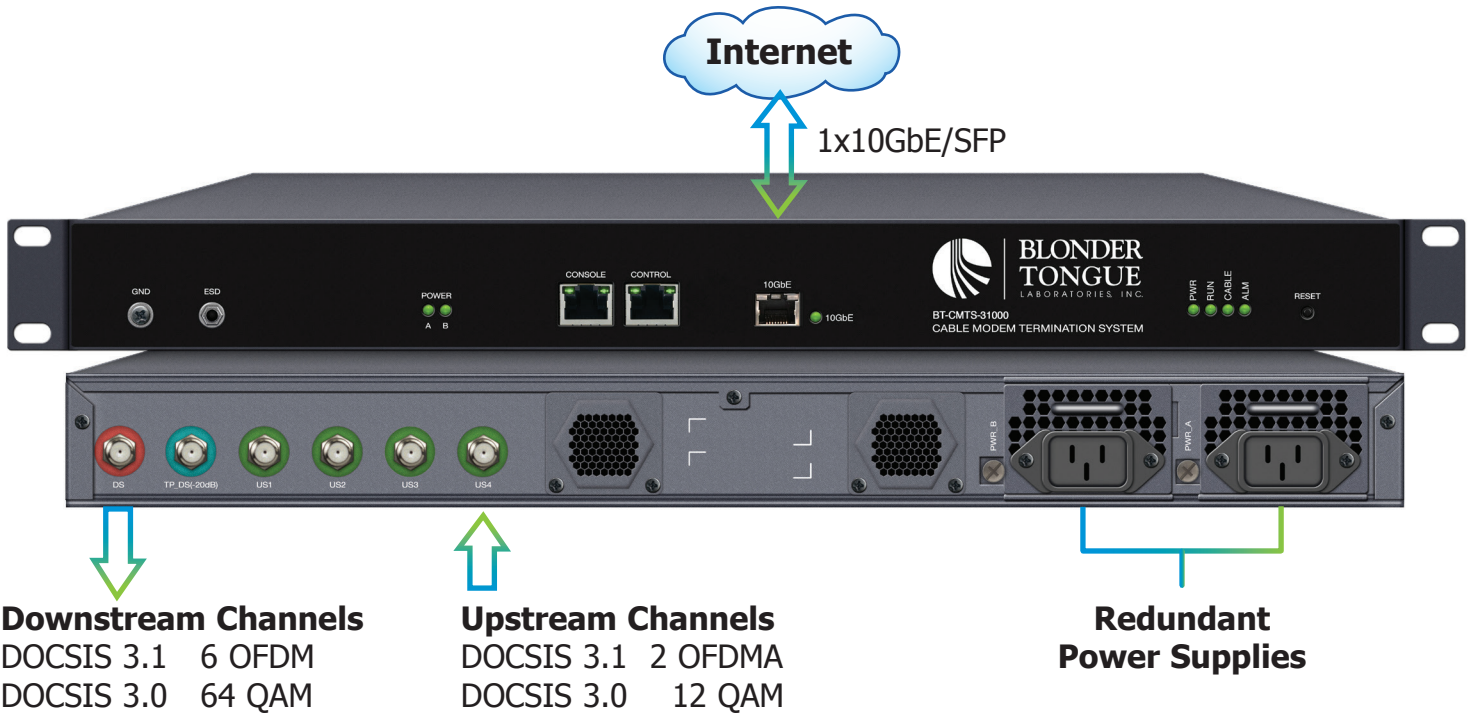


Blonder
Tongue

BT-CMTS-31000

Cable Modem Termination System

The **BT-CMTS-31000** is a DOCSIS 3.1/3.0/2.0 Cable Modem Termination System targeted for medium to large-size deployments to provide two-way data services on a coaxial network. The ability of the BT-CMTS-31000 to operate in "Mix-Mode", gives it the flexibility to provide service to DOCSIS 3.1 and DOCSIS 3.0 modems simultaneously. This feature gives the system operator a convenient means of migration to DOCSIS 3.1, as well as making it possible for gradual or partial deployments of DOCSIS 3.1 modems to aid in controlling upgrade expenditures. Partial DOCSIS 3.1 deployments provide premium data service to only those customers that subscribe to it or in a hotel environment, specific rooms or suites that offer additional amenities including the enhanced data service at increased room rates.



Features

- DOCSIS/EuroDOCSIS 3.1/3.0/2.0 compatible
- 1RU 19 inch chassis with dual redundant universal power supplies - hot-swappable
- Mix-Mode feature supports simultaneous operation of DOCSIS 3.1 and 3.0 CMs
- Supports 500 CMs in Mix-Mode
- End-to-end Quality of Service (QoS)
- Support Real-time CPE Info
- Load Balancing Function:
 - Dynamic balancing, restricted load balancing group
 - Support load balancing strategy
- Subnet VLAN & L2VPN
- Spectrum Monitoring
- Automatic Frequency Hopping
- Internal DHCP server
- Dual-Stacked IPv4/IPv6 capability

Ordering Information

Model	Stock #	Description
BT-CMTS-31000	2341	DOCSIS/EuroDOCSIS 3.1/3.0/2.0 CMTS (Cable Modem Termination System)

Specifications

Input/Output Interfaces

Connectors	RF DS: 1x "F" Conn. 10GbE: 2x SFP (For Optical Plug-In) Standard: Ethernet
-------------------	---

Connectors	RF US: 4x "F" Conn.
QoS Flow:	4K

Downstream

Channel Frequency Range DOCSIS 3.1: DOCSIS 3.0:	108/258~1218 MHz 54/87/108~1003 MHz
Working Channel DOCSIS 3.1: DOCSIS 3.0:	6 OFDM 64 (DOCSIS 64, NC 32, BC 64)
Channel Width DOCSIS 3.1: DOCSIS 3.0:	24~192 MHz 6/ 8 MHz
Modulation Mode DOCSIS 3.1: DOCSIS 3.0:	OFDM (16/ 64/ 128/ 256/ 512/ 1024/ 2048/ 4096 QAM) 64/256/1024 QAM
Reception Level Range DOCSIS 3.1: DOCSIS 3.0:	/ /
Max QAM Output Level (6 MHz)	38 dBmV @ 64 channels 42 dBmV @ 32 channels 45 dBmV @ 16 channels 49 dBmV @ 8 channels 52 dBmV @ 4 channels 56 dBmV @ 2 channels 60 dBmV @ 1 channel

Upstream

	5~85/204 MHz 5~42/65/85 MHz
	2 OFDMA 12 (DOCSIS)
	6.4~96 MHz 1.6/ 3.2/ 6.4 MHz
	OFDMA (BPSK, QPSK, 16/ 32 /64 /128/ 256 /512/ 1024/ 2048 QAM) QPSK, 16/ 32/ 64/ 256 QAM
	-4 dBmV to 10 dBmV -7-+23 dBmV @ 6.4 MHz; -10-+20 dBmV @ 3.2 MHz; -13-+17 dBmV @ 1.6 MHz

System Functions

IP Stack:	Support IPv4 and IPv6 dual-stack
DHCP:	Support DHCP relay/snooping Support DHCP bundle Support DHCP lease query Support according to Option 60 to identify equipment type Support insert Remote-ID, Interface-ID, CMTS capabilities and CM MAC
DHCPv6:	Support DHCPv6 relay/ snooping Support DHCPv6 bundle Support DHCPv6 lease query Support DHCPv6-PD Support according to Option 60 to identify equipment type Support insert Remote-ID, Interface-ID, CMTS capabilities and CM MAC
VLAN & L2VPN:	Support 802.1ad/ 802.1q Support service flow-based VLAN addition or deletion Support VLAN addition according to device type Support the L2VPN
QoS:	Static service flow/dynamic service flow/service class DOCSIS 3.0 USCB scheduling PowerBoost
MAC Domain Management:	Support MDD & MDF enable and disable Support MTC & MRC enable and disable Support UDC enable and disable Support upstream automatic frequency hopping Support piggyback, shared-secret, channel bonding
Multicast:	Support multicast authentication Support IGMP V2/ V3 Snooping Support MLD V1/ V2
Load balance:	Support RLBG/ GLBG Support load balance priority

Alarms/Monitoring/Control

Local Monitoring:	1x Power A (Power Supply A) 1x Power B (Power Supply B) 10x GbE 2x SFP 1x PWR 1x RUN 1x CABLE 1x ALM 1x Reset
Control:	GUI-based menu via Web Browser (1x RJ45 connector; 1GbE)
Console:	1x RJ45 Front-Panel Connector

General

Electrical	
Power:	90V-264VAC, 50/60 Hz (dual redundancy power supplies)
Power Consumption:	61 W
Mechanical	
Operating Temperature:	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" (480mm x 300mm x 44mm)
Weight:	12 lbs (5.5kg)

Related Products

Model	Description
DMM-5500-PoE	DOCSIS Modem Module with Power over Ethernet (PoE) Port