



Blonder Tongue

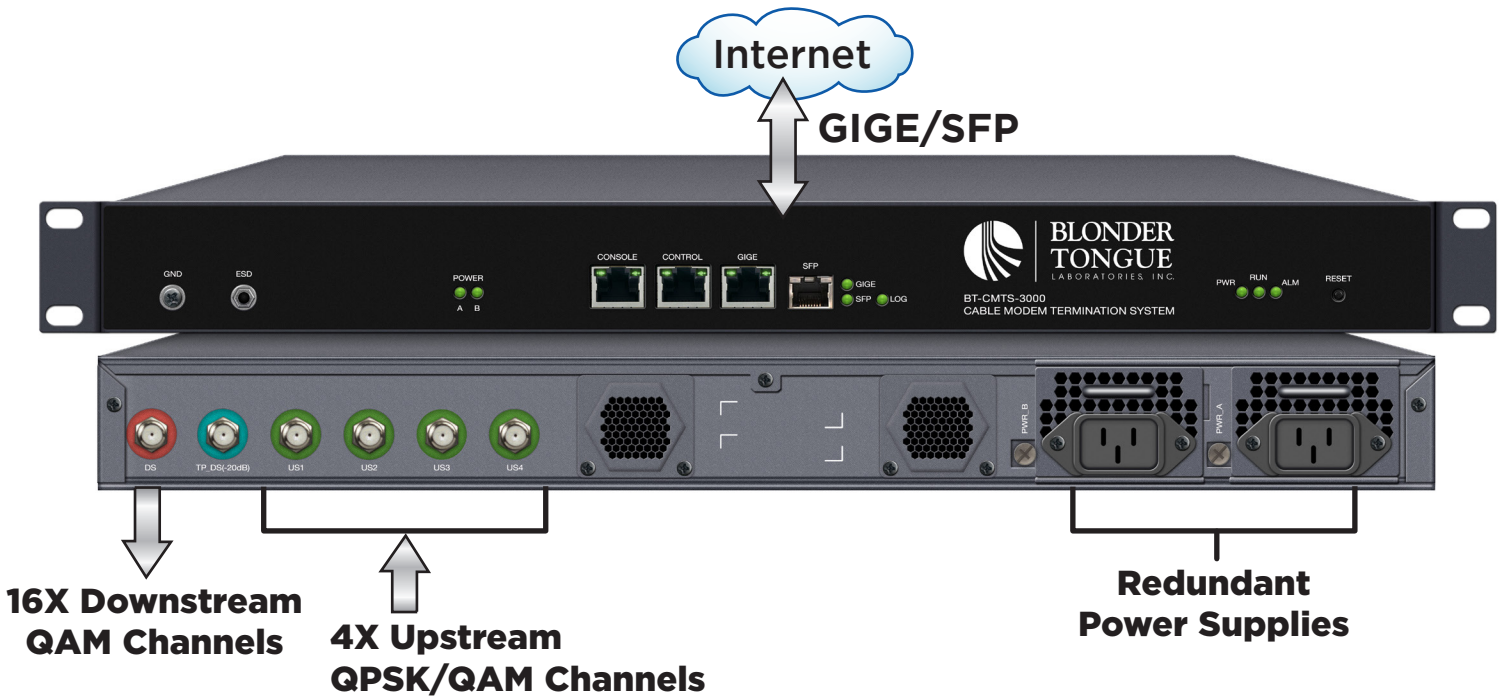
BT-CMTS-3000

CABLE MODEM TERMINATION SYSTEM

DOCSIS 3.0/2.0

SOLUTIONS FOR ALL YOUR APPLICATIONS

The Blonder Tongue model **BT-CMTS-3000** (Cable Modem Termination System) is targeted for small to medium size deployments to provide two-way data services on a coaxial network. It is designed to support up to 200 DOCSIS 3.0 or 500 DOCSIS 2.0 cable modems.



Features

- DOCSIS 3.0 / 2.0 compatible
- High Bandwidth
 - 16 Downstream Channels supporting up to QAM 256
 - 4 Upstream Channels supporting up to QAM 64
- 500 Cable Modem access capacity (DOCSIS 2.0)
- 200 Cable Modem access capacity (DOCSIS 3.0)
- 1RU 19 inch chassis with dual redundant universal power supplies - hot-swappable
- 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
- System Log
- Spectrum Monitoring
- Automatic Frequency Hopping
- Internal DHCP server
- Dual-Stacked IPv4/IPv6 capability

Ordering Information

Model	Stock #	Description
BT-CMTS-3000	2347	DOCSIS 3.0 CMTS (Cable Modem Termination System)

Made in U.S.A.

Specifications

Input/Output Interfaces

Connectors	GigE: 1x RJ45 1x SFP (For Optical Plug-In) Standard: Ethernet 1000Base-T
RF Upstream	Connectors: 4x "F" Conn. # of Channels: 4 Frequency Range: 5-65 MHz Modulation Mode: QPSK/QAM 16, QAM 32, QAM 64 Bandwidth: 1.6, 3.2 or 6.4 MHz Receive Level: -13 to +23 dBmV Qty of Service Flow: 1024
RF Downstream	Connectors: 1x "F" conn. # of Channels: 16 Frequency Range: 52-1002 MHz Modulation Mode: QAM 64, QAM 256 Bandwidth: 6.0 MHz RF Level: +44 dBmV Qty of Service Flow: 2048 Channel Selection: 16 ch's within 192 MHz

Alarms/Monitoring/Control

Local Monitoring:	1x Power A (Power Supply A) 1x Power B (Power Supply B) 1x GIGE 1x SFP 1x LOG 1x PWR 1x RUN 1x ALM
Remote Monitoring/Control:	GUI-based menu via Web Browser (1x RJ45 connector; 10/100Base-T)
Console:	1x RJ45 Front-Panel Connector

System Functions

DHCP	DHCP relay/snooping DHCP bundle DHCP lease query
DHCPv6:	DHCPv6 relay/snooping DHCPv6 bundle DHCPv6 lease query DHCPv6-PD Supports Vendor Class string to identify equipment type Supports Insert Remote-ID, Interface-ID, CMTS capabilities and CM MAC
IPv6:	IPv4 and IPv6 dual-stack
VLAN & L2VPN:	802.1ad/802.1q/subnet VLAN Service flow-based VLAN addition or deletion VLAN addition according to option60 L2VPN support VLAN conversion
QoS:	Static service flow/dynamic service flow/service class DOCSIS 3.0 USCB scheduling PowerBoost
MAC Domain Management:	MDD & MDF enable and disable MTC & MRC enable and disable UDC enable and disable Piggyback, shared-secret, channel bonding
Multicast:	Multicast authentication Static Multicast IGMP V2/V3 Snooping
Load balance:	RLBG/GLBG
Spectrum Monitor:	Reverse spectrum monitoring (0~81 MHz)
Automatic Opening:	Automatic Opening and upgrade based on DHCP and TFTP PN8600 series OLT unified opening and upgrade support

General

Electrical	Power: 90V-264VAC, 50/60 Hz (dual redundancy power supplies) Power Dissipation: < 65W
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)