toner
cable equipment, inc.
www.tonercable.com

Blonder Tongue

BT-CMTS-3000

DOCSIS 3.0 Cable Modem Termination System

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.

Internet

GIGE/SFP

BLONDER TONGUE
LABORATORIES, INC.
BT-CMTS-3000
CABLE MODEM TERMINATION SYSTEM

16X Downstream QAM Channels

4X Upstream QPSK/QAM Channels

Redundant Power Supplies
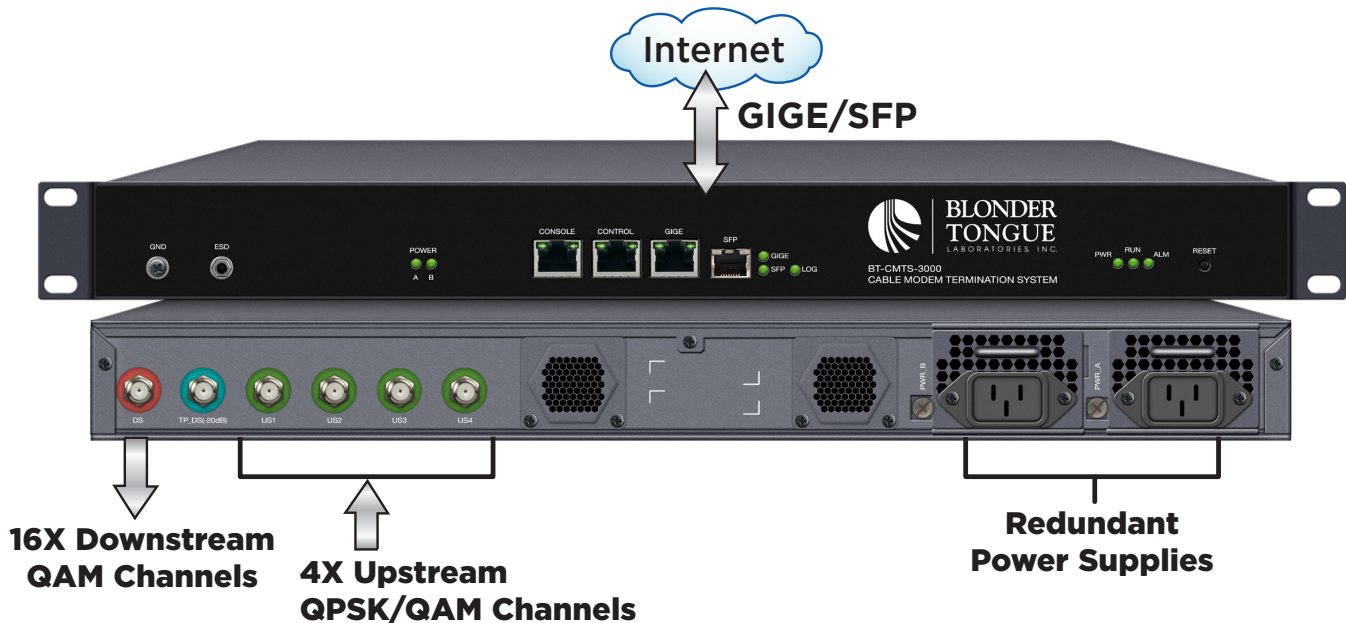
Features

- 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 (Future Release)
- Dual-Stacked IPv4/IPv6 capability

Ordering Information

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

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BT-CMTS-1000

DOCSIS 3.0/2.0 Cable Modem Termination System

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)