

BBS 1000

GIGABIT ETHERNET PASSIVE OPTICAL NETWORK PLATFORM

COMPACT OPTICAL LINE TERMINAL (OLT) PLATFORM WITH INTEGRATED L2/L3 FUNCTIONALITY DELIVERS HIGHSPEED TRIPLE PLAY SERVICES TO RESIDENTIAL AND BUSINESS SUBSCRIBERS



- **IEEE 802.3a h GE-PON**
- **32 SPLITS, 20KM REACH**
- **256 SUBSCRIBERS SERVED FROM COMPACT 1U CHASSIS**
- **ADVANCED L2/L3 FUNCTIONS**
- **DYNAMIC BANDWIDTH ALLOCATION**
- **INDIVIDUALIZED BILLING PER SERVICE LEVEL AGREEMENT**
- **MULTICAST SUPPORT FOR VIDEO STREAMING**
- **REMOTE PROVISIONING AND MANAGEMENT**
- **ADVANCED SECURITY**

UTStarcom's BBS 1000 Optical Line Terminal (OLT) provides a direct optical interface to the Ethernet/IP network core. Together with UTStarcom's Optical Network Unit (ONU), it completes the end-to-end optical last mile with up to 1 Gbps of bandwidth to residential and business customers. Combining the economic benefits of Ethernet Passive Optical Network (GE-PON) with built-in L2/L3 switching and routing functionalities, the BBS 1000 is an optimal transport platform for bandwidth-intensive triple play services.

KEY BENEFITS

Cost-effective Triple Play Transport

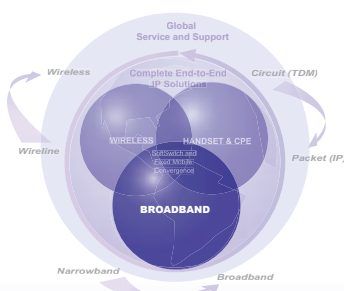
BBS 1000 supports up to 8 PON links, each delivering 1 Gbps of shared bandwidth between up to 32 subscribers, serving a maximum of 256 subscribers from a compact 1U chassis. High subscriber density, low cost of entry, combined with the operational cost savings of GE-PON technology make BBS 1000 a compelling alternative to legacy, last-mile access solutions.

Customized Broadband Service Offerings

BBS 1000's QoS features enable operators to oversubscribe bandwidth while protecting delay-sensitive traffic based on individualized Service Level Agreements (SLAs). Dynamic bandwidth allocation enables operators to bill bandwidth in 1 Mbps increments. For video services, IGMP support allows for multicast control and ensures efficient utilization of network infrastructure.

Flexible Provisioning, Quick to Revenue

Powerful OAM functions enable remote diagnostics, flexible provisioning, and reconfiguration of the BBS 1000 platform and subordinate ONU devices.



Technical Specifications



HARDWARE

MAIN CHASSIS

DIMENSIONS	440mm (W) x 420mm (D) x 43.6mm (H)
WEIGHT	14 lbs
POWER SUPPLY DC:	-48V / AC:100/220V
POWER CONSUMPTION	Fully loaded (2 OLT modules): 70W max, 50W average Per OLT module: 23W max, 19W average
ARCHITECTURE	2 slots for OLT module, modules hot swappable
CONSOLE PORT	1 DB9/RS232 Craft Interface
LAN MANAGEMENT	1 RJ45 Fast Ethernet
UPLINK PORTS	4 1000-X SFP Gigabit Ethernet



OLT MODULE

OLT PORT DENSITY	4 port/Module; 8 port /Chassis
OPTICAL FIBER	Single SMF Fiber
CONNECTOR	SC / UPC
SPLITS PER OLT PORT	32
DATA RATE	1 Gbps up and down stream
OPTICAL LOSS BUDGET	29 dB
WAVELENGTH	Tx: 1490 nm, Rx: 1310 nm

CERTIFICATIONS / COMPLIANCE

IEEE802.3ah, VCCI, UL and FCC part 15B

OPERATING REQUIREMENTS

Temperature:	0~40°C
Humidity:	5%~95%

ADVANCED SOFTWARE FEATURES

LAYER 2 SUPPORT

- Non-blocking line rate switching
- Flexible address learning
- IGMP Snooping
- VLAN 802.1Q
- IEEE 802.3ad link aggregation (trunking)
- Packet mirroring per ingress/egress port
- Packet buffering and advanced flow control

LAYER 3 SUPPORT

- Protocols: TCP/IP, ICMP, ARP, Proxy ARP, OSPF v2, BGP-4, RIP v2, PIM-DM, PIM-SM, IGMP v2

QUALITY OF SERVICE (QOS)

- Up to eight priority queues
- IEEE 802.1 P & Q
- IPv4 TOS priority
- Egress rate shaping
- Dynamic Bandwidth Allocation (DBA)

SECURITY

- Access Control List (ACL)

USER AUTHENTICATION

- IEEE 802.1x
- Radius

SYSTEM MANAGEMENT

- FTP, SNMP v1 & v2c, DHCP, Telnet, console interface with CLI
- In-Band/Out-of-band management channels
- Auto provision of ONUs
- Environmental monitoring
- Full FCAPS support

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About UTStarcom, Inc.

UTStarcom is a global leader in IP-based, end-to-end networking solutions and international service and support. The company sells its broadband, wireless, and handset solutions to operators in both emerging and established telecommunications markets around the world. UTStarcom enables its customers to rapidly deploy revenue-generating access services using their existing infrastructure, while providing a migration path to cost-efficient, end-to-end IP networks. Founded in 1991 and headquartered in Alameda, California, the company has research and design operations in the United States, China, Korea and India. UTStarcom is a FORTUNE 1000 company. For more information about UTStarcom, visit the company's Web site at www.utstar.com

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