ADTRAN®

Data Sheet

ADTRAN

8001B

EPON ONU

Gigabit | FTTH | Low TCO

Benefits

- Indoor-type EPON ONU
- CableLabs Certified DOCSIS Provisioning of EPON (DPoE)
- One Gigabit Ethernet port
- Bridge mode operation
- Low Power consumption: less than 5W
- SC/APC connector, 20Km Optic Module
- Up to 256 MAC addresses
- Dying Gasp
- High speed Internet service, Multicast IPTV Service
- LD Shutdown (Automatic)
- QoS & CoS Features
- Compliant with 1000BASE-PX20 according to YD/T 1475-2006-EPON.
- IEEE 802.3ah EPON Standard Compliant
- Safety/Locking Flap Bottom Cover to fix a fiber optic cable

Overview

The ADTRAN 8001B is an EPON Optical Network Unit designed for Single Family Unit (SFU) use in home and small office environment. It provides subscriber with rich, individualized, and comfortable triple-play services including video (IPTV), voice and high speed internet access. It has a small form factor and green, energy-saving advantage.

It supports 1(one) Gigabit Ethernet (UTP, RJ45) port to subscriber. It is connected to GEPON OLT and RN (Remote Node) via a fiber optic cable to provide TPS (Triple Play Service), while supporting DPoE.

By adopting the state-of-the-art E-PON technology, 8001B supports various features including Quality of Service (QoS) function, management function enabling prompt reactions against the problems in the system or a subscriber line, security function protecting subscriber information safe, and subscriber management function sheltering user information from illegal users.

Product Specifications

Interfaces
- Line: 1000Base-PX20 (SC/APC)
- LAN: One 10/100/1000BaseTx port (MDI/MDIX auto-negotiation)

EPON Features
- IEEE 802.3ah MPCP, OAM compliant
- 802.1Q VLAN
- Per LLID Filtering/Classification
- Supports up to four Logical Link IDs (LLID)
- AES-128 Downstream decryption
- Dying Gasp
- Automatic Plug and Play function for WAN PON Port (Discovery and Authorization)
- DDM (Digital Diagnostics Monitoring)
- Enables the LAN port only if the PON link is connected
- Automatically detects & shuts down abnormal operations of the optical transceiver

L2 Features
- IEEE 802.2Q VLAN
- Support up to 256 MAC addresses

Multicasting
- IGMP v1/v2, IGMP snooping for IPTV service

Security and Filtering
- MAC address limiting

QoS
- IEEE 802.1P
- Packet classification and marking (802.1P)
- Rate limiting

Technical Standard and Protocol
- IEEE Std 802.3™-2002 Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications
- IEEE Std 802.1D, 1998 Edition Media Access Control (MAC) Bridges
- IEEE Std 802.1Q, 2003Edition Virtual Bridged Local Area Networks
- IEEE Std 802.1X-2001 Port-Based Network Access Control
- IEEE Std 802.3ah.-2004 Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications Amendment:
- Media Access Control Parameters, Physical Layers, and Management Parameters for Subscriber Access Networks
- IEEE P802.1ad/D6.0 Draft Standard for Local and Metropolitan Area Networks—Virtual
- Bridged Local Area Networks — Amendment 4: Provider Bridges

Front Panel LED
- PWR: On/Off (During bootup: solid amber, during F/W download: blinking amber, after F/W download: solid green)
- PON: Logical link status of PON, loss of optical signal
- DATA: PON link and data transmission status
- LAN: LAN link and data transmission status

Power
- Power Consumption: 5W max
- On/Off switch
- Input: DC, 5V, 2A

Environmental
- **Operating Temperature:** 0° - 50°C
- **Humidity:** 20 – 90% (non-condensing)

Mechanical
- **Dimensions:** 40mm (H) x 180mm (W) x 135mm (D))
- **Weight:** 1.7 lbs (0.8 kg)
- **Mounting:** Desktop

Ordering Information

Hardware Options	Part No.
ADTRAN 8001B ONU (power adaptor included)	1768001BF1

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ADTRAN Certified Supplier
ISO 9001
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TL 9000

TL9000
TL19.1270