



ADTRAN

# FTE7757

## 10G EPON Business Class ONU



### Benefits

- Deliver tiered Gigabit services (symmetric 1G, 2.5G, 5G and 10G services)
- Lower service delivery costs taking advantage of the economics of PON
- Target medium and large enterprise opportunities with full jumbo frames support (9K)
- Improve ODN utilization and overcome fiber exhaust concerns
- Grow revenues and margins by addressing the emerging 5G x-haul opportunities

### Overview

**The ADTRAN FTE7757 advanced 10 Gigabit EPON (10G-EPON) business-class Optical Network Unit (ONU), is a key component of the ADTRAN 10G-EPON fiber access portfolio, allowing cable-MSOs to expand their distributed access architecture (DAA) and FTTH strategies from residential broadband delivery to supporting lucrative enterprise broadband services.**

The FTE7757 is the industry's first 10G-EPON business class ONU that delivers up to 10Gbps symmetric Ethernet services over an Optical Distribution Network, with jumbo frames support (9K), offering a cost-effective and yet highly capable Carrier Ethernet service alternative. With built-in support for DOCSIS Provisioning over EPON (DPoE), the ADTRAN FTE7757 10G EPON ONU can quickly and easily integrate with an MSO's existing infrastructure, speeding time-to-market for new fiber based service deployments. This flexible desk-top and wall-mountable ONU allows for deployment in space-constrained environments, offering low total-cost-of-ownership (TCO).

# ADTRAN FTE7757

## Product Specifications

### Physical

- **Dimension:** 8.3 x 6.5 x 1.4 inch (210 x 164 x 35 mm) (H x W x D)
- **Weight:** 2 lbs. (<1 kg)

### Power

- **Input Voltage:** 100 to 240 VAC (50/60Hz ±1Hz)
- **Power Consumption:** 15W (max)

### Environment

- **Operating Temperature:** 32-104° F (0-40° C)
- **Operating Humidity:** 30-90% RH (non-condensing)

### Standards

- FCC Part15 Class B, CAN ICES-3 (B)/NMB-3 (B)
- MEF 9 & 14 Capable
- DPoE 1.0 Capable
- **Safety:** UL/CSA 60950-1, IEC/EN 60950-1 & 60825-1

### ONU I/F

- **Number of Ports:** 5
- **Standard:** NBASE-T x 1 (10GBASE-T/1000BASE-T/100BASE-TX) 1000BASE-T x 4 (1000baSE-T/100BASE-TX/10BASE-T)
- **Connector:** RJ45

### PON I/F

- **Number of Ports:** 1
- **Connector:** SC (SFP+)
- **Standard Optics:** 10GBASE- PR-U3
- **Transmit Wavelength:** 1260 ~ 1280nm
  - ◆ **Transmit Power:** +4~+9dBm
  - ◆ **ER:** >6dB
- **Receive Wavelength:** 1575~1580nm
  - ◆ **Receive Power:** -28.5~10.0dBm
  - ◆ **ER:** 9dB

### Features

- **Logical Link:** Multiple LLIDs per ONU
- **Security:** MAC access control, downstream/bi-directional encryption (AES 128 BIT)
- **VLAN:** IEEE 802.1q, QinQ, configurable per LLID
- **Optical Monitoring:** Optical Laser Shutdown
- **QoS:** Variety of classification and filtering rules
- **IP Multicast:** IGMP snooping (IPv4)
- **MTU:** Jumbo Frames

### IEEE Standards

- IEEE 802.3z (1000BASE-X)
- IEEE 802.3ae (10GBASE-R)
- IEEE 803.3x (flow control)
- IEEE 802.3av (10G-EPON)
- IEEE 802.1D (MAC Bridges)
- IEEE 802.1p (QoS priority)
- IEEE 802.1Q (VLAN tagging)

## Ordering Information

Equipment	Part No.
ADTRAN FTE7757 10G-EPON ONU	1767757FTEF1



**ADTRAN, Inc.**  
901 Explorer Boulevard  
Huntsville, AL 35806

**General Information**  
800 9ADTRAN  
256 963 8000  
www.adtran.com/contactus

**Canada – Montreal, Quebec**  
+1 877 923 8726  
+1 514 940 2888  
sales.canada@adtran.com

**Mexico and Central America**  
+1 256 963 3321  
+1 52 55 5280 0265 Mexico  
sales.cala@adtran.com

**South America**  
+1 256 963 3185  
sales.brazil@adtran.com  
sales.latam@adtran.com

**61767757FTEF1-8A**

October Copyright © 2018 ADTRAN, Inc. All rights reserved. ADTRAN believes the information in this publication to be accurate as of publication date, and is not responsible for error. Specifications subject to change without notice. ADTRAN® and the other trademarks listed at www.adtran.com/trademarks are registered trademarks of ADTRAN, Inc. or its affiliates in various countries. All other trademarks mentioned in this document are the property of their respective owners.

ADTRAN warranty duration and entitlements vary by product and geography. For specific warranty information, visit www.adtran.com/warranty.

ADTRAN products may be subject to U.S. export controls and other trade restrictions. Any export, re-export, or transfer of the products contrary to law is prohibited. For more information regarding exportation of ADTRAN items (e.g. commodities, technology, software), please visit www.adtran.com/exportlicense.

ADTRAN  
Certified  
Supplier



TL9000  
TL9 1279

ISO 9001  
ISO 14001  
TL 9000