



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 utilisation and overcome fibre 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 fibre 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 fibre 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



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