ADTRAN

# FTE7502

## 10G ONU

| **10** Gbps | **DPoE** Capable | ❄ Weather-Hardened | $ Low TCO |

## Benefits

- 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 DPoE 1.0 Capable
- Optical Power Control DPoE 1.0 Capable
- QOS Variety of classification and filtering rules
- IP multicast IGMP snooping (IPv4)

## Overview

**The FTE7502 10G Optical Networking Unit (ONU) is IEEE802.3av standards compliant.** When used with the FSU7101 Optical Services Platform (OSP), it can offer up to 10Gbps symmetrical Ethernet transmission over an Optical Distribution Network (ODN). Carrier class QoS and security are implemented with a variety of classification and filtering rules.

The FTE7502 is a fanless 19-inch rack mountable DPoE™ 1.0, MEF 9 and 14 capable 10G Symmetrical ONU for business applications.

# ADTRAN FTE7502

## Product Specifications

### Physical Specifications

- **Dimension**: 16.9 in. x 6.7 in. x 1.7 in. (430 mm x 170 mm x 43.5 mm) (W x D x H)
- **Weight**: 5lbs (~2.5kg)

### Power

- **Input Voltage**: Redundant AC 100V to 240V (50/60Hz ±1Hz)
- **Power Consumption**: 15W (max)
- **Power Supply**: Redundancy 2 AC inputs

### Environment

- **Operating Temperature**: 32-104°F (0-40°C)
- **Operating Humidity**: 10-90% RH (non-condensing)

### Standards

- **EMI**: FCC Part15 Class A, ICES-003 Class A
- **MEF**: MEF 9 & 14 Capable
- **DPoE™**: DPoE 1.0 Capable
- **Safety**: UL/CSA 60950-1, IEC 60950-1 & 60825-1
- **Laser**: FDA 21CFR 1040.10, 1040.11, IEC60825
- **Lightning Surge**: CISPR24

### 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)

### Subscriber Interface

- **Number of Ports**: 1 port (10G or 1G)
- **Transceiver**: SFP+ (10Gbps) or SFP (1Gbps)
- **Standard**: 10GBASE-R or 1000BASE-X
- **Output Power**: 1W (max)

### PON Interface

- **Number of Ports**: 1 port
- **Connector**: SC Connector
- **Standard Optics**: 10GBASE–PR–U3
- **Transmission Wavelength**: 1260 ~ 1280 nm
- **Optical Output Power**: +4.0 ~ +9.0 dBm
- **Extinction Ratio**: more than 6dB
- **Reception Wavelength**: 1575 ~ 1580 nm
- **Optical Input Power (@BER ~ $1 \times 10^{-12}$, with FEC)**: -10 to -28.5dBm ~ @Extinction ratio 9 dB)

## Ordering Information

| Equipment | Part No. |
| --- | --- |
| ADTRAN FTE7502 EPON 10G ONU | 176FTE7502F1 |