

ADTRAN

# FTE7502

10G ONU



## 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 ~ 1x10<sup>-12</sup>,with FEC):**  
-10 to -28.5dBm ~ @Extinction ratio 9 dB)

## Ordering Information

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



ADTRAN, Inc.  
901 Explorer Boulevard  
Huntsville, AL 35806

**General Information**  
+1 256 963 8000  
www.adtran.com/contactus

**Headquarters—EMEA**  
**ADTRAN GmbH**  
Erika-Mann-Str. 25  
80636 Munich-Germany  
+49 89 411097 111  
sales.europe@adtran.com

**Central-/East and West Europe**  
+49 89 411097 111  
sales.cewe@adtran.com

**South Europe**  
+49 89 411097 111  
sales.southeurope@adtran.com

**North Europe and CIS**  
+49 89 411097 111  
sales.ne@adtran.com

**Middle East and Africa**  
+49 89 411097 111  
sales.mea@adtran.com

**Asia**  
+61 3 9658 0500  
sales.asia@adtran.com

**Australia/New Zealand**  
+61 3 9658 0500  
sales.australia@adtran.com

### I6176FTE7502F1-8A

June 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



ISO 9001  
ISO 14001  
TL 9000

TL9000  
TL101210