

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 ~ 1x10⁻¹²,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
sales.cewe@adtran.com

South Europe
sales.southeurope@adtran.com

Middle East and Africa
sales.mea@adtran.com

Australia/New Zealand
sales.australia@adtran.com

I6176FTE7502F1-8B

April Copyright © 2019 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
TL 10 1270