

Total Access

# 5000

## 4-Port GPON OLT Access Module



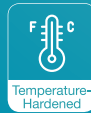
FTTH



Gigabit



IPTV



Temperature-Hardened

## Benefits

- G.984 compliant
- SFP-based optics
- Class B+ and C+ optics
- Temperature hardened for CO and RT deployments
- 5,376 subscribers per Total Access 5000 chassis
- Four GPON ports per OLT access module and 64 ONTs per port
- Native Ethernet transport over GPON
- IPTV and RF overlay video support
- OMCI management to ONTs

## Overview

**Service providers today are dealing with increasing competition, operational costs and demand for bandwidth, GPON offers a cost-effective option to deliver fibre to the home (FTTH) services.** GPON provides the flexibility, reliability, and bandwidth to give providers a fast ramp to next-generation 10G full-fibre networks. The ADTRAN® Total Access 5000 system includes a 4-port GPON OLT access module that supports up to 2.5 Gbps down and 1.25 Gbps service rates. The SFP-based GPON OLT supports up to 64 subscribers per PON port within a 20km service area.

The Total Access 5000 is a carrier-class, multi-service access and aggregation platform that bridges the gap between the existing and the next-generation networks like 10G PON. With a pure Ethernet core, the Total Access 5000 system scales to support even the most bandwidth intensive applications. The Total Access 5000 4-port GPON access module provides the bandwidth and Ethernet switching capabilities needed to deliver a cost-effective broadband service offering.

The ADTRAN GPON solution utilises GPON Encapsulation Mode (GEM) to carry Ethernet traffic exclusively. ADTRAN has made a complete commitment to Ethernet in the access network with Total Access 5000, and the GPON OLT Access Module is furthering this direction. Data traffic is carried natively as Ethernet, which is a very efficient means of transporting high-bandwidth data connexions.

Voice traffic is carried as VoIP packets to the GR303 gateway in the Total Access 5000 or as SIP/MGCP to an external softswitch to support the next generation of voice services.

Video options with the Total Access 5000 GPON OLT include both IPTV and RF video. IPTV functions in the Total Access 5000 and the GPON OLT Access Module provide IGMP signalling and multicast replication functions. RF Video Overlay is supported on a GPON as a third wavelength at 1550 nm using outboard amplifiers and wavelength combiners.

The Total Access 5000 GPON OLT supports a wide variety of management options. Transaction Language 1 (TL1) is used to communicate alarms with Telcordia's NMA Operations Support System (OSS). An Ethernet 10/100Base-T or standard RS-232 DB-9 connector is used for Telnet access and connexion to SNMP networks. Environmentally hardened, the Total Access 5000 GPON OLT Access Module can be installed in CO and in RT environments.

## Product Specifications

### Mechanical

- **Dimensions:** (241mm x 19mm x 228mm) (HxWxD)  
9.5" x 0.75" x 9"

### Interfaces

- Four SFP single fibre interfaces on faceplate

### Capacities

- Four GPON interfaces per OLT Access Module
- Supports up to 64 ONTs per GPON interface
- 5,376 subscribers per TA5000 chassis

### Regulatory Standards

- NEBS Level 3
- UL 60950
- RoHS
- FCC Part 15 Class A

### Management

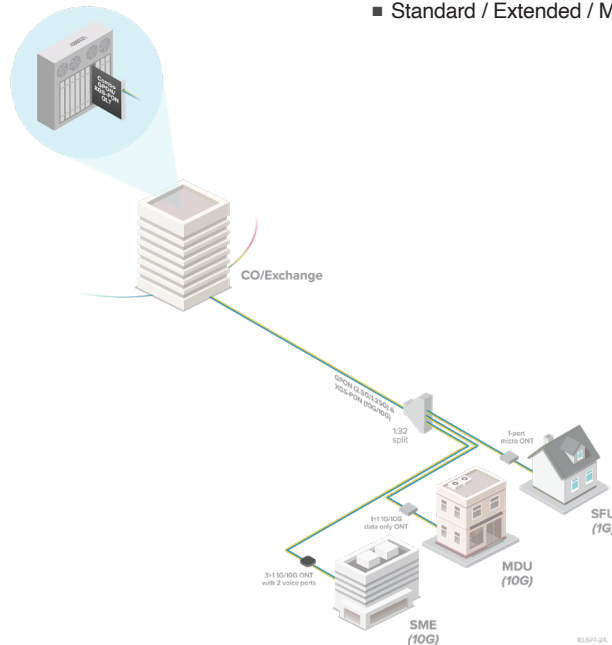
- Remote management through SNMP and TL1
- Ethernet interface on SCM for Web, SNMP and Telnet access
- Craft interface on SCM
- OMCI to ONTs

### Environmental

- **Operating Temperature:** -40C to +65C
- **Storage Temperature:** -40C to +85C
- **Relative Humidity:** Up to 95%, @+50C, noncondensing

### Optics

- B+ and C+ optics compliant
- Up to 60km logical reach
- Standard / Extended / Max reach



## Ordering Information

Equipment	Part No.
Total Access 5000 GPON Quad OLT	1187502F2
SFP GPON 2.5G, 1.25G B+	1442530G1
SFP GPON 2.5G, 1.25G C+	1442540F1



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

**General Information**  
+1 256 963 8000  
[www.adtran.com/contactus](http://www.adtran.com/contactus)

**Headquarters – EMEA**  
**ADTRAN GmbH**  
[sales.cewe@adtran.com](mailto:sales.cewe@adtran.com)

**South Europe**  
[sales.southeurope@adtran.com](mailto:sales.southeurope@adtran.com)

**Middle East and Africa**  
[sales.meaa@adtran.com](mailto:sales.meaa@adtran.com)

**Australia/New Zealand**  
[sales.australia@adtran.com](mailto:sales.australia@adtran.com)

**I61187502F2-8A**

January Copyright © 2020 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](http://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](http://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](http://www.adtran.com/exportlicense).

ADTRAN  
Certified  
Supplier



ISO 9001  
ISO 14001  
TL 9000

**TL9000**  
TL 10 1270