



Total Access

10G Combo OLT

GPON, XGS-PON or Combo



FTTH

10
Gbps

SDN

Enabled



IPTV

Benefits

- Supports symmetric residential, cloud and enterprise services
- Supports triple-play (voice, video and data) services
- Supports business E-LAN and E-LINE services
- Utilizes pluggable optics— low-cost, fixed-wavelength optics
- Allows for cost-effective deployment of symmetric 1G-10G business or residential services
- Extends PON deployment life by 5-10 years (longer with additional wavelengths)
- Reduces operational costs through SDN-ready management systems
- Part of the ADTRAN family of 10G PON software-defined access (SD-Access) solutions
- Ease of migration from GPON to high service rates

Overview

Upgrading FTTH networks to 10G-capable networks provides network operators the performance to extend the life of their Optical Distribution Network (ODN) while providing an architecture that supports cost-effective business and backhaul services delivery at greater than gigabit speeds.

Delivering Cost-Effective Converged Residential and Business Services

The biggest challenge facing 10G FTTH networks is developing a single system that meets the scale and flexibility needs of premium business and backhaul services while also delivering the price point needed for mass-market residential applications. The ADTRAN Total Access 5000 10G Combo (GPON/XGS-PON) solution uses a flexible optics approach that allows for a single 10G PON OLT module to utilize multiple types of optical transceivers, enabling service providers to support existing FTTH subscribers while also providing a path to higher-bandwidth business and mobile x-haul services. Flexible optics range from existing GPON to XGS-PON supported on a per-port basis, simplifying migration to 10G FTTH networks. Any mix of these options can be used on a single 10G PON OLT, allowing for maximum flexibility without compromising future capabilities.

Better ROI From Fiber Investments

The ADTRAN XGS-PON system offers the ability to benefit from mass-market price points without having to wait for large volumes to be reached in the 10G PON market. This approach gives service providers confidence that they can move forward with a 10G PON strategy today. Leveraging the additional capacity available through the disruptive ADTRAN 10G PON solution set, service providers can extract an additional five to 10 years of revenue from residential PON deployments, maximizing future service flexibility and minimizing risk of subscriber churn.

SDN-Ready Solution

The operational cost and complexity to connect a FTTH subscriber can be further reduced to accelerate the expansion of Gigabit broadband services. The Total Access 5000 10G ComboOLT supports provisioning via the ADTRAN Mosaic Cloud Platform, and OMCI provisioning, bridging the gap between current PON and next-generation SD-Access networks. This, in concert with accelerated mass-market electronics and optics pricing, ensures that cost-sensitive residential broadband will be viable using XGS-PON technology.

The Total Access 5000 10G Combo OLT works in concert with ADTRAN 600 Series 10G PON optical network terminals, and is part of a comprehensive portfolio of GPON, Active Ethernet and 10G PON solutions.

TOTAL ACCESS 10G COMBO OLT

Product Specifications

Front Panel Interfaces

- 8-port - GPON/XGS-PON/Combo PON SFP+ interfaces

Environment

- **Operating Temperature:** -40°F to 149°F (-40°C to 65°C)
- **Storage Temperature:** -40°F to 185°F (-40°C to 85°C)
- **Relative Humidity:** Storage: 0% to 95%, non-condensing

Physical

- **Dimensions:** 9.5in x 0.75in x 9.0in (241mm x 19mm x 228mm) (H x W x D)
- **Power Supply:** Dual -48 VDC Power Feed
- **Redundancy:**
 - ◆ Power Supplies
 - ◆ Hot Swappable Fans

Capacities

- Capable of up to 128 ONTs per GPON/XGS-PON Interface
- 21-10G PON OLT Access Modules per 23-inch Total Access 5000 Chassis
 - ◆ 21K Subscribers per 23-inch Total Access 5000 Chassis utilizing 1:128 Split
- 17-10G PON OLT Access Modules per 19-inch ETSI Total Access 5000 Chassis
 - ◆ 17K Subscriber per 19-inch ETSI Total Access 5000 Chassis utilizing 1:128 Split Supports
 - ◆ v1,024 MACs per port
 - ◆ **Technologies:** GPON, XGS-PON

- ◆ **Standards:** G.988, G.984.x, G.9807.x

Management

- Mosaic Cloud Platform
- AOE
- Remote Management through SNMP, RESTCONF, CLI, and Web-Services APIs (HTTPS)
- Ethernet Interface on SCM for Web and Telnet/SSH Access
- Craft Interface on SCM
- OMCI to ONTs

xPON Optics

- GPON B+/C+
- XGS-PON N1/N2
- Combo D1/D2

Regulatory Standards

- FCC Part 15 Class A
- NEBS Level 3
- UL/CUL 60950-1

Ordering Information

Equipment	Part No.
Total Access 5000 8-port 10G PON OLT Access Module	1187518F1
GPON Optics (C+)	1442540F1
XGS-PON Optics (N1/N2)	1442544F2
Combo (GPON/XGS-PON) Optics (D1/D2) c-temp	1442543F1C



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ISO 9001
ISO 14001
TL 9000