

Active Ethernet OLT

24-Port Point-to-Point OLT Access Module



FTTH



Gigabit

SDN
EnabledTemperature
Hardened

Benefits

- Provides 24 Subscriber Interfaces Using Compact SFPs
- Supports Single and Dual Fiber Applications
- Supports Voice, Video, and Data
- Supports Transparent LAN Services (TLS)
- Supports SNMP
- Supports Both TDM and VoIP Voice Options
- Supports IGMP v2 and v3
- Supports DHCP With Option 82

Overview

Active Ethernet is a Fiber-to-the-Home (FTTH) application that uses Ethernet components that are IEEE 802.3ah compliant. The Adtran Total

Access® 5000 Active Ethernet OLT Access Module provides dedicated bandwidth based on individual customer requirements that are applicable to both residential and business customers.

The Total Access 5000 Series offers a complete solution for migrating carrier networks to support the delivery of symmetrical Ethernet services for business or residential customers. This technology provides a consistent and common approach to triple-play services over fiber-based communications networks.

The Adtran Active Ethernet OLT occupies only one slot of the Total Access 5000 and supports gigabit broadband, video, voice (SIP, MGCP, GR-303 and TR-008), and a number of options for fiber connectivity. This access module supports up to 504 ports per Total Access 5000 system and all switch modules deployed by the platform. It is optimized for use with the 4x10G SM40 switch module to support non-blocking gigabit services.

The Active Ethernet OLT can support a variety of physical optical connections and speeds. Compact bi-directional SFPs provide support for two subscriber interfaces per physical SFP cage. It supports 10 km and 20 km Compact SFPs.

SDN-Ready Solution

The Total Access 5000 Active Ethernet OLT can be managed via the Adtran Mosaic Cloud Platform, or the Advanced Operational Environment (AOE), a traditional element management system.

ACTIVE ETHERNET OLT

Product Specifications

Interfaces

- 12 Compact Bi-Directional SFP Ports (24 Subscriber Interfaces)

Capacities

- Total Access 5000 23-inch Chassis
 - 21 Access Modules; Up to 504 Subscribers Per Chassis
- Total Access 5006 Chassis
 - Six Access Modules; Up to 144 Subscribers Per Chassis
- Total Access 5004 Global Chassis
 - Four Access Modules; Up to 96 Subscribers Per Chassis
- Total Access 5004 Micro Cabinet
 - Two Access Modules; Up to 48 Subscribers Per Chassis

Management

- Mosaic Software Suite
- Advanced Operational Environment (AOE)
- Remote Management Through SNMP, CLI, and Web-Service APIs (HTTPS)
- Ethernet Interface on SCM for Web and Telnet/SSH Access (In-Band or Out-of-Band)
- Craft and Ethernet Interfaces on SCM

Physical

- Dimensions: 9.56 in. x 0.87 in. x 9.81 in. (243 mm x 22 mm x 249 mm) (H x W x D)

Environmental

- Dimensions: 9.56 in. x 0.87 in. x 9.81 in. (243 mm x 22 mm x 249 mm) (H x W x D)
- Operating Temperature: -40° F to 158° F (-40° C to +65° C) (With High-Flow Fan)
- Storage Temperature: -40° F to 185° F (-40° C to +85° C)
- Relative Humidity: Up to 95%, at 122° F (50° C), Non-Condensing

Regulatory Standards

- NEBS Level 3
 - GR-1089-CORE
 - GR-63-CORE
- CE Marking (EMC and Low Voltage Directive)
 - ETSI EN 300 386
 - IEC 62368-1
- NRTL Listed
- FCC Part 15
- ETSI 300 019 (Environmental)
- ITU-T K.20
- AS/NZS 62368.1

Ordering Information

Equipment	Part No.
Total Access 5000 Active Ethernet Bundle 10km (Includes AE Module and 12 Compact BiDi 10km SFPs)	4187562F10
Total Access 5000 Active Ethernet Bundle 20km (Includes AE Module and 12 Compact BiDi 20km SFPs)	4187562F20

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