

# Total Access 5000 24-port AE Module

## 24-port Active Ethernet Optical Line Terminal Module

### Product Features

- Provides 24 subscriber interfaces using compact SFP's
- Supports standard single and two-fiber SFP's
- Supports voice, video and data
- Supports Transparent LAN Services (TLS)
- Supports Simple Network Management Protocol (SNMP)
- Supports both TDM and VoIP voice options
- Internet Group Management Protocol (IGMP) v2 and v3
- DHCP support with Option 82
- Supported by ADTRAN AOE Service Management

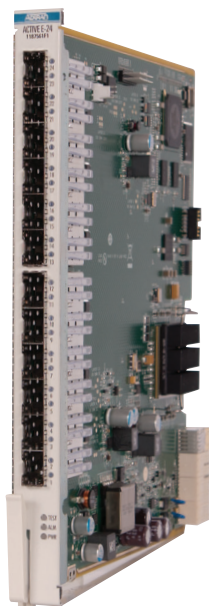
**The ADTRAN® Total Access® 5000 Multi-Service Access and Aggregation Platform can be configured to support a pure fiber to the premises (FTTP) application using either GPON and/or Active Ethernet solutions from central office, remote terminal and remote node locations.**

The Total Access 5000 also offers a complete solution for migrating the carrier's network infrastructure to support the delivery of symmetrical Ethernet services. In order to meet advancing demands related to bandwidth, Active Ethernet is the preferred technology choice of many service providers around the world for FTTP applications. The ADTRAN Active Ethernet access module will be initially geared towards the residential end-user with full support for business applications in subsequent software releases. Since the Active Ethernet deployment method uses standard Ethernet frames, no transition protocol is required. This technology provides a consistent and common approach to providing triple play services using the public communications network for traditional telephone services Plain Old Telephone Service (POTS), High speed data services and Video services.

The optical network consists of an Optical Line Terminal (OLT) located at the central office and Optical Network Terminals (ONTs) located at the customer premises. To allow for the transmission of downstream and upstream traffic on one single fiber, different wavelengths are used for each direction. Downstream traffic uses 1490 nm, while upstream traffic is carried on 1310 nm. The ONT employs diplexers to separate wavelengths.

The 3rd generation Active Ethernet OLT takes up only one slot of the Total Access 5000 and supports broadband data delivery, triple play (voice, video, and data), legacy voice services (GR-303 and TR-008), next-gen Voice over IP (SIP and MGCP), and a number of options for fiber connectivity. The 3rd generation Active Ethernet OLT provides support for up to 504 ports per system. It supports all Switch Modules deployed by the platform and 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. The single slot Active Ethernet OLT utilizes compact bi-directional SFP's (also known as dual bi-directional SFPs) which provide support for two subscriber interfaces per physical SFP cage. The single slot Active Ethernet OLT supports 10 km, 20 km, and 40 km Compact SFP's. Alternatively, the single slot Active Ethernet OLT supports standard two-fiber and single-fiber Gigabit Ethernet SFP's for long-haul deployments of up to 80 km. In addition, Fast Ethernet (100 Mbps) is supported using single fiber SFPs to a distance of 20 Km.





ADTRAN, Inc.  
Attn: Carrier Networks  
901 Explorer Boulevard  
Huntsville, AL 35806  
P.O. Box 140000  
Huntsville, AL 35814-4000

256 963-8000  
256 963-8699 fax

**General Information**  
800 9ADTRAN  
info@adtran.com  
www.adtran.com

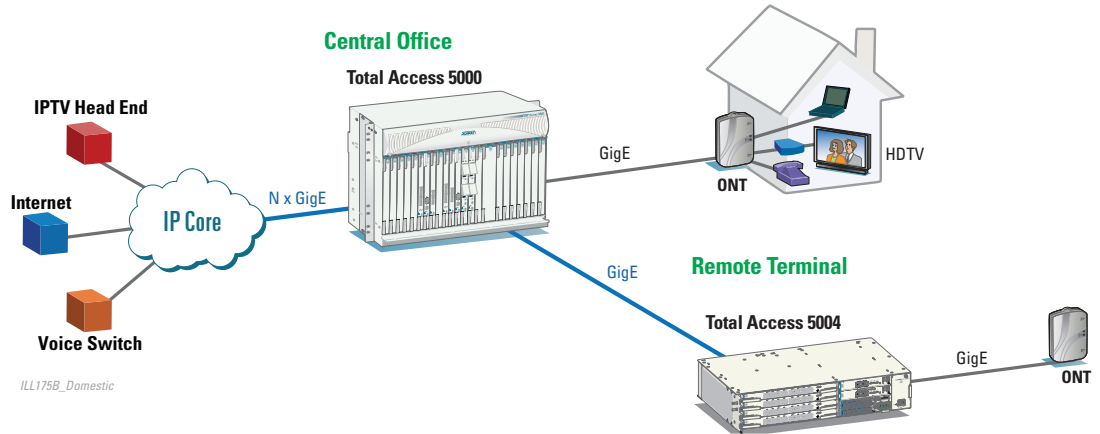
**Pre-Sales Technical Support**  
888 423-8726  
application.engineer@adtran.com  
www.adtran.com/presales

**Post-Sales Technical Support**  
888 423-8726  
support@adtran.com  
www.adtran.com/support

**Where to Buy**  
888 423-8726  
channel.sales@adtran.com  
www.adtran.com/where2buy

# Total Access 5000 24-port AE Module

24-port Active Ethernet  
Optical Line Terminal Module



ILL175B\_Domestic

## Product Specifications

### Modules

The Active Ethernet 24-Port can be used with the following ADTRAN Modules:

- Total Access 324E Indoor Active Ethernet ONT (P/N 1287737G1)
- Total Access 354E Active Ethernet Single Family Unit ONT (P/N 1287704G1)
- Total Access 372E Active Ethernet Small Business Unit ONT (P/N 1287723G1)

### Operational Specifications

- Powering Voltage Range: -40 VDC to -56.7 VDC
- Nominal Powering Voltage: -48 VDC
- Typical Current Draw: 0.58 Amps at -48 VDC
- Maximum Current: 0.67 Amps at -48 VDC
- Typical Heat Dissipation: 27.8 Watts
- Maximum Heat Dissipation: 32.2 Watts
- Operational Temperature Range: -40° C to +65° C
- Storage Temperature Range: -40° C to +85° C
- Relative Humidity: 95% at 50° C, Non-condensing

**NOTE:** The Current Draw and Heat Dissipation Figures Assume all 24ports are Equipped with SFPs and have Data Running.

### Regulatory Agency Approvals

- NEBS Level 3
- UL 60950-1
- IEC 60950-1
- RoHS 6 of 6
- FCC Part 15 Class A

## Ordering Information

Equipment	Part No.
Total Access 5000 Active Ethernet 1-slot, 24-port Access Module	1187562F1

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 Total Access are registered trademarks of ADTRAN, Inc. and 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 ADTRAN's export license, please visit [www.adtran.com/exportlicense](http://www.adtran.com/exportlicense)



TL19.1270



NSA  
TELECOMMUNICATIONS  
FOR QUALITY  
FOR A BETTER  
ENVIRONMENT

ADTRAN is an ISO 9001, ISO 14001, and a TL 9000 certified supplier.

61187562F1-8A April  
Copyright © 2014 ADTRAN, Inc.  
All rights reserved.