High Speed Fiber Line Module

Total Access® 3000 High-Speed Fiber Line Module (HSF LM)

Product Features

- Supports 100/1000Base-LX/SX/ZX operation (with appropriate SFP)

- Supports 10/100/1000Base-T operation (with appropriate SFP)

- SFP interface

- Performance monitoring

- SNMP and Telnet management support via system controller

- Provisioning and trouble-shooting menus via system controller

- TL1 Alarming

- Supported by Total Access EMS

- Front panel LEDs for Power, Status, Ethernet Transmit (TX) and Ethernet Receive (RX)

- Operational temperature range of –40°C to +70.6°C

- Industry-leading 10-year warranty

The High Speed Fiber Line Module (HSF LM) is a revolutionary new module for the Total Access 3000 line of products. As the demand rises for higher speeds to support advanced applications for home and business DSL users, copper-fed DSLAMs can fall short of the mark. For this reason, ADTRAN introduces the HSF Line Module. The HSF provides a 10/100/1000 Mbps interface to ADTRAN DSLAMs and/or other compliant Ethernet devices.

The HSF LM has been designed to operate in multiple distinct applications. The primary applications involve interacting with the Total Access 1100F or Total Access 1200F. The Total Access 1100F/1200F are devices used to "host" the ever popular Total Access 1148 and 1248 DSLAMs and provide a high speed fiber connection to the network. In these applications, the Total Access 3000 may be populated with either an ATM or Ethernet switch module depending on the requirements of the existing network. The HSF may also be used with any standard compliant Ethernet device, including a switch, router, CPE or even an IAD. Please refer to the product detail page at www.adtran.com for additional information.
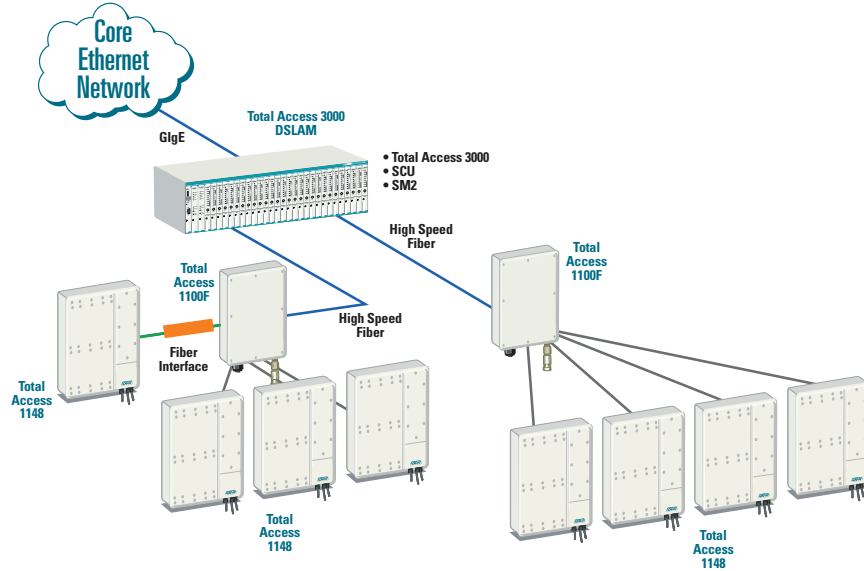
The Total Access 3000 HSF module requires two slots in the Total Access 3000 chassis and has an SFP cage on the PCB for easy access. The front of the card is slotted on the top in such a manner that the signal media goes directly into the fiber routing tray installed above the chassis for a clean installation. The Total Access 3000 accepts up to 14 HSF modules or other modules can be combined with the HSF multiservice operation. The Total Access 3000 HSF supports 10/100/1000Base-LX/SX/ZX as well as 10/100/1000Base-T SFPs for a variety of customizable interfaces.

The Total Access 3000 HSF Line Module provides status and performance monitoring information via Telnet, SNMP, and Craft Interface. Performance Monitoring (PM) information is provided in daily and quarter-hourly intervals and 96 – 15-minute intervals are stored in PM history. Alarms are provided to the network via TL1, SNMP, or via external alarm contacts on the rear of the Total Access 3000 chassis. An alarm log can be found on the system controller via a Craft or Telnet connection to provide insight into recent events. The HSF Module also provides front panel LEDs for instant on-site recognition of card status including Power, Port Status, and RX/TX activity.

All provisioning of the module is handled through the controller unit's communication link. The HSF module retains provisioning data in a nonvolatile memory device for recovery after a power loss. As an added feature, the controller unit provides the System Configuration Archival feature which stores the entire system's configuration on an offsite server for use in disaster recovery. The system controller also provides Auto Upgrade, a feature that keeps the system on a particular release of firmware automatically with no user intervention. Total Access EMS, ADTRAN's carrier class element management system, provides comprehensive remote management for the Total Access 3000 DSLAM, including the HSF Module.

Total Access Systems™

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High Speed Fiber Line Module

Total Access Systems™

Total Access 3000 DSLAM High Speed Fiber Line Module (HSF)

Product Specifications

LEDs

- ■ **Power**
- ■ **Status**
- ■ **ENET TX**
- ■ **ENET RX**

Mechanical

- ■ **Dimensions:** 5.35 in. H x 1.32 in. W x 10.2 in. D
- ■ **Weight:** 11 ounces
- ■ **Mounting:** Occupies one slot in a Total Access 3000 or Total Access 3010 chassis

Interfaces

- ■ SFP based Ethernet interface

Regulatory Standards

- ■ NEBS Level 3
- ■ GR-1089 CORE
- ■ NRTL Safety Listed
- ■ UL 60950
- ■ Telstra 1555
- ■ EN 300-386
- ■ GR-3108

Management

- ■ Local management: OAM&P interface via system controller
- ■ Remote management: TL1, SNMP, Telnet, and Total Access EMS

Environmental

- ■ Operating Temperature: -40°C to +70.6°C
- ■ Storage Temperature: -40°C to +85°C
- ■ Relative Humidity: Up to 95%, noncondensing

Ordering Information

Equipment	Part #
High Speed Fiber Line Module	1181455L1
SFP 1000Base-LX	1184561P1
SFP 1000Base-SX	1184561P3
SFP 1000Base-T	1184561P4

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