SHDSL

Total Access DSLAM Octal SHDSL Access Module

Product Features

- Eight individually configurable ports
- Rate/range adaptability for most efficient use of bandwidth
- Symmetrical data transfer for applications requiring equivalent transmission speeds, upstream and downstream
- Data-rate improvement of 35 to 45 percent over traditional solutions
- Reach improvement of 15 to 20 percent over traditional solutions
- Robust loop performance for dependable service over a single pair of copper cables
- Spectral compatibility for operation alongside other DSLs
- Fully compatible with International standard for G.shdsl (ITU-T G.991.2)

The ADTRAN™ Total Access® Octal SHDSL module provides high density, low-cost deployment of eight industry-standard SHDSL interfaces. SHDSL is the most functional, standards-based Digital Subscriber Line (DSL) technology developed to date. Resulting from the convergence of the best features of traditional DSL technologies, SHDSL incorporates rate/range adaptability, spectral compatibility, impairment tolerance, and high-speed symmetric deployment. SHDSL is particularly suited for business-based voice and data applications such as multiple voice-line delivery, Internet access, and remote LAN access.

The Octal SHDSL module is another addition to ADTRAN's Total Access DSLAM architecture. The Total Access DSLAM utilizes the enhanced System Controller Unit (SCU) and the Cell Switch Module (CSM) configured in the same chassis as ADTRAN's field-proven Total Access Broadband Platform. The CSM receives and routes ATM traffic from the network to the SHDSL module for transmission over the loop.

The Octal SHDSL module occupies one slot in the Total Access DSLAM shelf allowing 176 subscribers per single 48.26 cm chassis (224 for 58.42 cm chassis). Each SHDSL port is individually configurable and supports rates from 192 kbps to 2.304 Mbps over a single copper pair. The front panel is equipped with an LED for each port to quickly determine circuit status.

Each SHDSL circuit utilizes the Trellis Coded Pulse Amplitude Modulation (TC PAM) line code scheme ensuring spectral compatibility with existing binder group services. ADTRAN's SHDSL module is 100 percent compliant with the ITU Standard for SHDSL transmission (G.991.2) for interoperability with other standards-based SHDSL products.

The Total Access system offers several methods for user-friendly operation, administration, maintenance, and provisioning of the entire SHDSL circuit. SNMP management using ADTRAN's Total Access Element Management System (EMS) or other SNMP-based systems is provided via the 10BaseT connection on the Total Access DSLAM shelf.

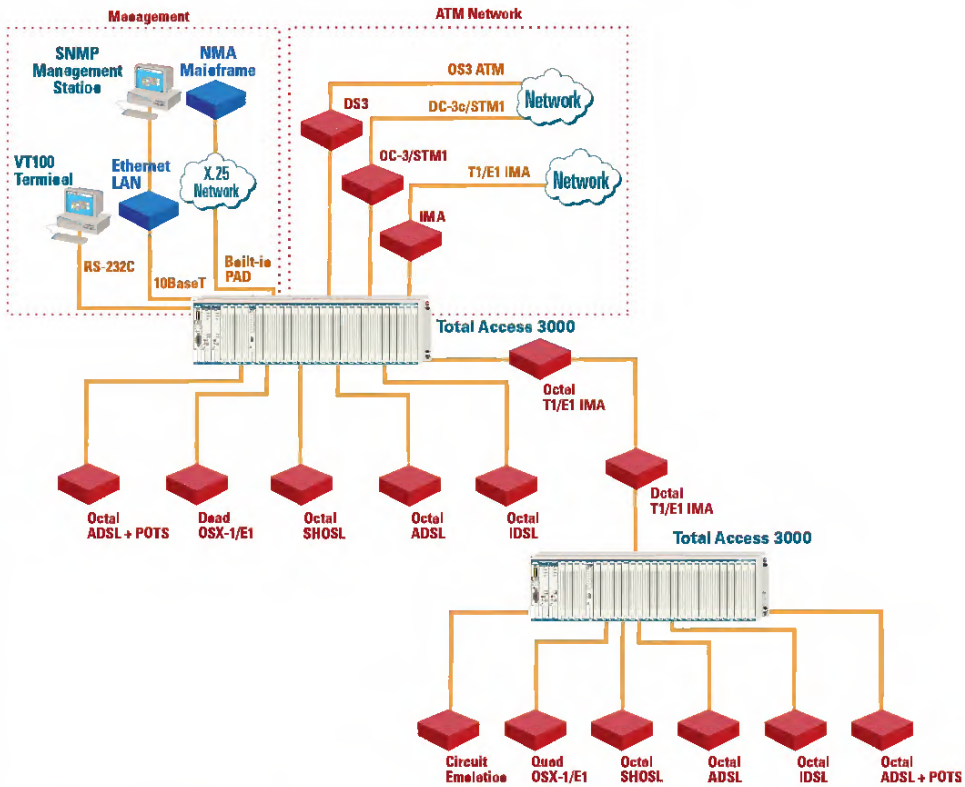
Total Access® System

ADTRAN®

SHDSL

Total Access® System

Total Access DSLAM Octal SHDSL Access Module



Product Specifications

Front Panel Features

Indicators

- Power LED
- Eight (8) SHDSL port indicators

Mechanical

- **Dimensions:** 132 mm H x 20 mm W x 254 mm D
- **Weight:** Less than 0.45 Kg
- **Mounting:** Occupies a single access module slot in the Total Access 3000/3010 chassis

Interfaces

- **Network Interface:** ATM upstream through the Cell Switch Module
- **Subscriber Interface:** SHDSL

Electrical

- **Power Requirements:** –42 VDC to –58 VDC input range

Regulatory Standards

- NEBS Level 3
- GR-1089-CDRE
- UL 1950
- EN 300 386-2
- EN 300 386-2
- EN 300 386-2

Management

- Craft interface, SNMP, TL1

Environmental

- **Operating:** –40°C to +65°C
- **Storage:** –40°C to +85°C
- **Relative Humidity:** Up to 95 percent, noncondensing

Ordering Information

Equipment	Part #
Octal SHDSL Access Module	1181403L2

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