TDM Voice Module

Total Access 5000 TDM Voice Module
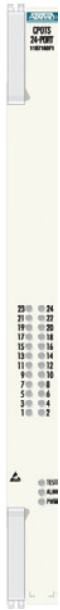
The pure IP/Ethernet core of the Total Access® 5000 is ideal for supporting emerging services like IPTV and VoIP, but there remains a large embedded base of traditional TDM voice switching infrastructure deployed. Although the Total Access 5000 RPOTS and Combo cards packetize the subscriber voice on the line card, the Total Access 5000 Voice Gateway card serves as a VoIP to TDM gateway, allowing interface to traditional Class 5 TDM switches.

The Total Access 5000 24-Port CPOTS Module is a Total Access 5000 access module that provides 24 independent POTS interfaces. Each interface consists of a 2-wire FXO interface between a VF transmission and signaling facility and the IP network. The module contains the necessary circuitry to convert voice from the customer's loop(s) to IP packets and to convert incoming packets to voice. Analog signaling, as defined in GR-57-CORE, Issue 1, will be transmitted to (and received from) the IP network via Voice Gateway Signaling.

The Total Access 5000 24-Port CPOTS Module supports all existing POTS-based modules for the Total Access 5000 platform and Outside Plant DSLAMs. This includes ADSL2+ Combo (1187100L1, L2), VDSL2 Combo (1187120L1), RPOTS (1187150L1), all Fiber to the Premises [GPON and Active Ethernet] ONT's, the Total Access 1124P (1179718L1 and 1179718G1) and Total Access 1108VP (1179791G1/G2/G3) Outside Plant DSLAM products.

The CPOTS module supports System CLI via the SCM craft interface and remote access through the System Web GUI and SNMP management interfaces. It supports both Y-Modem and Remote File Transfer options for field upgrades, and it meets NEBS III, GR-1089-CORE and UL60950 standards. In all modes, the signaling protocol shall comply with GR-57-CORE, Issue 1 or GR-303-CORE, Issue 2 signaling states. The access module will support Loop Start and Ground Start modes in both locally switched and non-locally switched applications.

The CPOTS Module will support the service states: In service, Out of Service—Maintenance, and Out of Service—Unassigned. Each FXO port will be assigned service states independently. The module will also support test modes activated through the SCM management interfaces. These test modes are 1004 Hz tone generation, loop test, and signaling bit test.

Product Features

- Provides 24 CPOTS FXO interfaces
- Up to 504 CPOTS FXOs per Total Access 5000
- Supported by all existing Total Access 5000 POTS Modules
- Supported by Total Access EMS
- Industry-leading 10-year warranty

Total Access® System

Smart Solutions for a Connected World.

ADTRAN®

TDM Voice Module

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TL9000

TL19.1270

TL 9000
TELECOMMUNICATIONS
ISO 9001:2000
QUALITY
ISO 14001
ENVIRONMENT

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

Total Access 5000 TDM Voice Module

Product Specifications

Mechanical
- **Dimensions:** 9.5 in. H x 10.5 in. W x 1.0 in. D

Interfaces
Network Interfaces
- Voice Switch Interface via CPOTS TDM Line Module

Physical
- Requires AMIO2 CH50 Push-Through Adapters
- Female CH50 connector for subscriber termination

Signaling
Ground Start and Loop Start Signaling
- TR-57
- Supports 24 interfaces

Regulatory Standards
- NEBS Level 3
- GR-1089 CORE
- GR-57 CORE
- UL60950

Management
- Remote management through SNMP and TL1 via Total Access 5000 SCM

Environmental
- **Operating Temperature:** 0°C to +50°C
- **Storage Temperature:** -40°C to +70°C
- **Relative Humidity:** Up to 95%, noncondensing

Ordering Information

Equipment	Part #
Total Access 5000 24-Port CPOTS Line Module	1187160F1
Total Access 5000 AMI02 CH50 Push-Through	1187410G1
Total Access 5000 AMIO3 CH50 Push-Through	1187411G1