



# Combo ADSL2+ Access Module

## Total Access® 5000 Combo ADSL2+ Access Module

### Product Features

- **RPOTS**
  - Provides 24 Remote POTS interfaces
  - Voice signaling via “Tunneled GR-303 over Ethernet”
  - Automatic detection algorithm locates new Total Access 5000 Combo cards installed into the node
- **DSL**
  - Provides 24-ports of ADSL2+, ADSL2, READSL or ADSL
  - Full backward compatibility with existing ADSL modems
  - Software upgradeable to support pair bonding
  - Supports separately configurable interface rates for upstream and downstream
- **General**
  - Up to 504 ports per Total Access 5000
  - Supported by Total Access EMS
  - Industry leading 10-year warranty

Carriers are moving to simplify the deployment of their next-generation networks.

The Total Access 5000 Combo ADSL2+ Access Module provides carriers with a single slot module that offers both analog POTS and broadband ADSL2+ services on each subscriber interface. This allows carriers to optimize their network infrastructure, providing simplified deployment and provisioning options and lowering overall operational cost.

The Combo ADSL2+ Access Module provides 24 POTS interfaces from a single access line slot. The subscriber interface is traditional analog POTS, but the Total Access 5000 Combo ADSL2+ Access Module card converts each analog signal directly to an RFC 3550 IP packet, allowing voice traffic to be carried across the same Ethernet transport architecture alongside next-generation services like IPTV. Network interface is provided via the DS1 Voice Gateway Line Module, providing up to 32 DS1 interfaces using standard GR-303 protocol to interface to the switch. However, the Combo ADSL2+ Access Module retains the flexibility to seamlessly upgrade via software to support next generation voice architectures, such as SIP.

Fully configurable to support up to 24-ports of ADSL2+, the Total Access 5000 Combo ADSL2+ Access Module also supports standard fall back modes including ADSL2, RE ADSL2+, G.Lite and ADSL. Flexible and configurable, the ADSL2+ Access Module allows operators to configure both upstream and downstream transmission rates or allows the interfaces to adapt to the best possible rates on the subscriber loop.

Front panel LEDs include power, card status and loop status for each subscriber loop. The Combo Access Module supports craft interface management via the Total Access 5000 System Controller Module (SCM). More comprehensive management is available using the Total Access Element Management System (EMS).

All provisioning data is supported through the SCM communications link. All provisioning data is stored in nonvolatile memory for recovery after a power loss and auto-provisioning is supported via the SCM.



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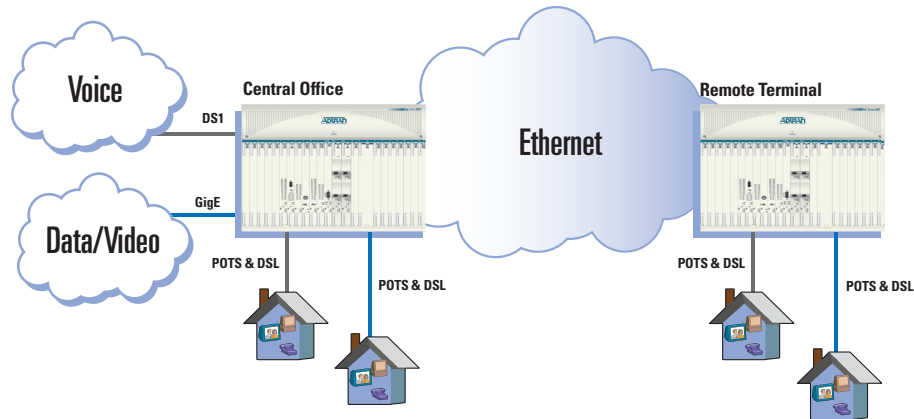
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ADTRAN is an ISO 9001, ISO 14001, and a TL 9000 certified supplier.

# Combo ADSL2+ Access Module

## Total Access 5000 Combo ADSL2+ Access Module



## Product Specifications

### Mechanical

#### Dimensions

- Height: 9.25 inches
- Width: 0.8 inches
- Depth: 9.25 inches

### Interfaces

#### Network Interfaces

- Intra-node via Ethernet transport (GE or EFM)
- Voice Switch Interface via DS1 Voice Gateway Line Module

#### Physical

- Requires AMI02 CH50 PUSH THROUGH (P/N 1187410L1) or AMI03 CH50 PUSH THROUGH (P/N 1187411L1)
- Female CH50 connection for subscriber termination

### POTS Performance

#### Signaling Modes

- Loop Start
- Ground Start

#### Impedance

- 600Ω +2.15μF
- 900Ω +2.15μF

**Loop Reach:** 1850Ω including handset

### DSL Performance

- ADSL2+ ITU G.992.5
- ADSL2 ITU G.992.3/4
- ADSL ITU G.992.1; ANSI T1.413-1998 Issue 2
- ADSL G.Lite ITU G.992.2
- READSL ITU G.992.5 Annex L

### Regulatory Standards

- NEBS Level 3
- GR-1089 CORE
- GR-63 CORE
- NRTL Listed
- FCC Part 15

### Management

- Remote management through SNMP and TL1
- Ethernet interface for SNMP environmental

### Environment

- Operating Temperature: -40°C to +65°C
- Storage Temperature: -40°C to +70°C
- Relative Humidity: Up to 95%, noncondensing

## Ordering Information

Equipment	Part #
TA5000 COMBO ADSL2+ AM	1187100L1
TA5000 AMI02 CH50 Push Through	1187410L1
TA5000 AMI03 CH50 Push Through	1187411L1