

# LIU

## TOTAL ACCESS™ 1500 LIU

The ADTRAN® Total Access 1500 Line Interface Unit is a common module plug-in unit that connects the channel bank to a T1 line at the DSX-1 level. All data formatting and line encoding, as well as backplane timing and control, are performed by the ACT LIU.

The LIU can be provisioned locally with on-board switches, remotely through the SCU craft interface, or remotely through network management. The on-board switches are a subset of the full set of provisioning parameters. All parameters are available when provisioning through the craft interface. A faceplate LED indicates whether the LIU operation mode is based on local or remote provisioning parameters. A dual bantam jack located on the faceplate provides test access of the T1 data stream.

The Quad T1 LIU offers up to four T1s of network bandwidth for POTS and special services deployment from a Total Access 1500. The Quad LIU can be deployed in a universal COT/RT configuration or in an integrated RT-only configuration. When used in a universal configuration, the Quad LIU provides 96 DS0s of POTS and special services. When used in an integrated configuration, the Quad LIU will support up to 96 POTS circuits.

The Quad LIU provides both facility and equipment protection. In the universal configuration, a fifth T1 is available for facility protection. Additionally, two Quad LIUs can be deployed in a single Total Access 1500 chassis to provide equipment protection.

ADTRAN's new Carrier Class multi-service access platform, Total Access 1500, offers unmatched versatility for narrowband service offerings in the smallest form factor available. The platform integrates the functionality of many different carrier products into a single chassis. It features high density, easy provisioning, flexible deployment, and low cost-per-port. Deployed in either the central office or remote terminal, Total Access 1500 provides a fast, simple, and effective means of increasing POTS capacity, deploying special services, and deploying DSL services.

## PRODUCT FEATURES

- Four T1 lines providing DSX-1 or DS1 interface to the network
- Protection T1
- SF, ESF, or SLC-96 data framing formats
- AMI or B8ZS line code formats
- Local and remote loopbacks
- Front panel Bantam jacks for monitoring T1s
- Front panel indicators showing the status of the unit
- Determines red/yellow/AIS alarm status
- Provisionable by SCU through intelligent control link
- Operates in SLC modes I, II, III
- Terminates BITS clock

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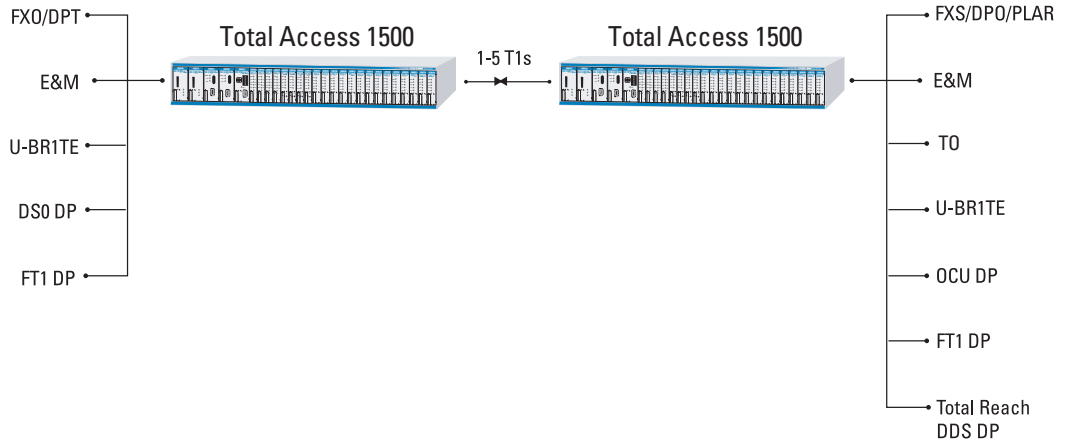
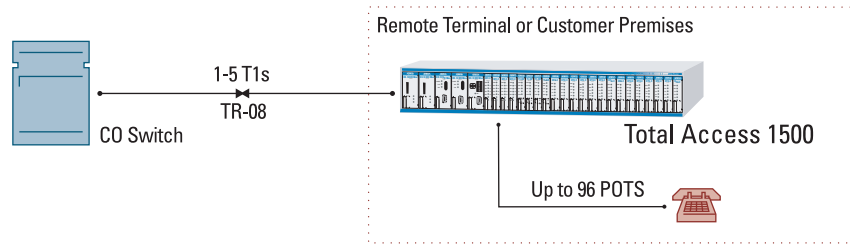
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ADTRAN is an ISO 9001 registered company.



**Product Specifications**

**MECHANICAL**

- **Dimensions:** 3.00" H, 0.90" W, 9.72" D
- **Weight:** 2 lbs
- **Mounting:** Plugs into either LIU slot of the Total Access 1500 Chassis

**FACEPLATE FEATURES**

**A, B, C, D, P**

- Red - Indicates T1 in trouble
- Yellow - Indicates T1 in yellow alarm
- Yellow flashing - Indicates T1 in test mode
- Green - Indicates is active
- OFF - Indicates monitor mode
- RCV - Red indicates monitored circuit status
- REM - Green indicates remotely provisioned (craft or Network)  
 OFF indicates locally provisioned (switches)
- TEST - Yellow indicates test mode active
- MASTER - Green indicates master LIU  
 OFF indicates slave LIU
- STATUS - T1 sector for test and troubleshooting

**ENVIRONMENTAL**

- **Operating:** -40° to +65°C
- **Storage:** -40° to +85°C
- **Relative Humidity:** Up to 95%, non-condensing

**Ordering Information**

EQUIPMENT	PART #
LIU 4T1 + Protect .....	1180109L1

Specifications subject to change without notice.