

Total Access® 1000 DSLAM Local Power ATM Power Supply Unit Installation and Maintenance

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1. GENERAL

This practice provides installation and maintenance procedures for the ADTRAN Total Access 1000 DSLAM Local Power ATM Power Supply Unit.

Figure 1 is an illustration of the Total Access 1000 DSLAM ATM PSU.

Revision History

This is the initial release of this document. Future revisions to this document will be explained in this subsection.

Features

The Total Access 1000 DSLAM Local Power ATM PSU, P/N 1179018L1, includes the following features:

- Converts incoming -48 VDC local power to regulated buss voltages
- Provision free plug and play
- Front Panel status LED
- Meets FCC, NEBS Level 3, and UL 60950 requirements

General Description

The Total Access 1000 DSLAM Local Power ATM PSU is a common module plug-in unit designed for use in the ADTRAN Total Access 1000 DSLAM channel bank. The PSU accepts local power (-42 VDC minimum -56 VDC maximum) from local power

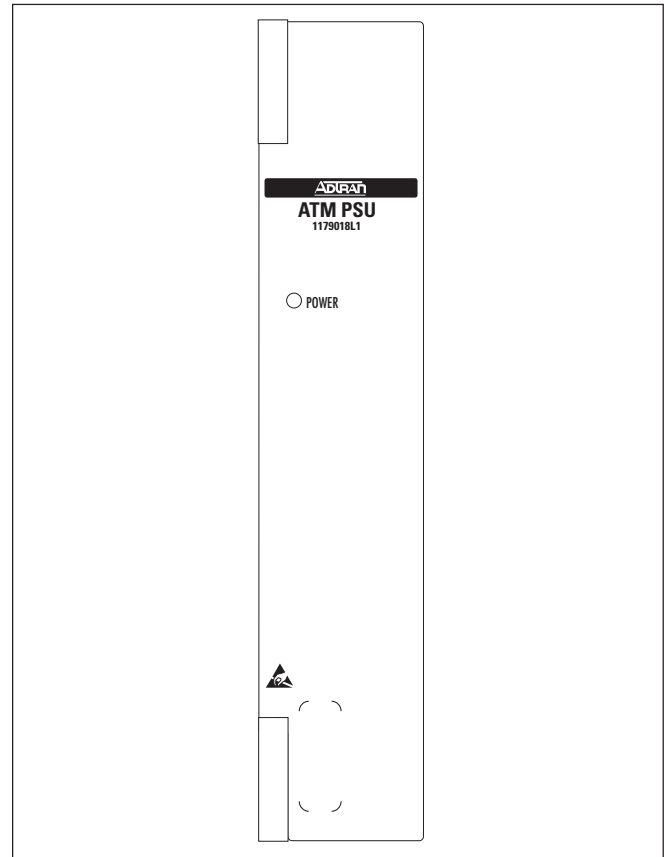


Figure 1. Total Access 1000 DSLAM Local Power ATM PSU

terminal on the backplane. Through switchmode operation, the PSU converts the local voltage to four buss voltages: +5 V, +3.3 V, +2.5 V, and +22 V. These voltages are distributed on the Total Access 1000 backplane for use by other cards in the system.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by ADTRAN could void the user's authority to operate this equipment.

2. INSTALLATION



After unpacking the unit, inspect it for damage. If damage is noted, file a claim with the carrier, then contact ADTRAN. Refer to *Warranty and Customer Service*.

The Total Access 1000 DSLAM ATM PSU inserts directly into the common card area in the position labeled PSU.

To install the PSU, grasp the unit by the front panel while supporting the bottom side. Align the card edges to the guide grooves and insert the unit until the edge connector seats firmly into the backplane. Lock the card in place by pushing in on the lock levers.

Provisioning Options

The Total Access 1000 DSLAM Local Power ATM PSU has no options or adjustments. It does not require provisioning prior to insertion into the channel bank.

Front Panel LED

The front panel LED will indicate GREEN when proper local power voltage is present and system voltages are present. An off LED indicates the loss of a system voltage.

Compliance Codes

Table 1 shows the Compliance Codes for the Total Access 1000 DSLAM Local Power ATM PSU. This product is intended to be installed in a Total Access 1000 Chassis providing a Type "B" or "E" enclosure, with Restricted Access.

Table 1. Compliance Codes

| Code | Input | Output |
|-----------------------------|-------|--------|
| Power Code (PC) | C | C |
| Telecommunication Code (TC) | X | — |
| Installation Code (IC) | A | — |

3. MAINTENANCE

The Total Access 1000 DSLAM Local Power ATM PSU does not require routine maintenance for normal operation.

Field Repairs

ADTRAN does not recommend that repairs be attempted in the field. Repair services are obtained by returning the defective unit to ADTRAN Customer Service Department.

4. SPECIFICATIONS

Refer to **Table 2** for Total Access 1000 DSLAM Local Power ATM PSU Specifications.

5. WARRANTY AND CUSTOMER SERVICE

ADTRAN will replace or repair this product within ten (10) years from the date of shipment if it does not meet its published specifications or fails while in service. Refer to *ADTRAN U.S. and Canada Carrier Networks Equipment Warranty*, Document 60000087-10.

Contact Customer and Product Service (CAPS) prior to returning equipment to ADTRAN.

For service, CAPS requests or further information, contact one of the following numbers:

ADTRAN Sales

Pricing and availability
(800) 827-0807

ADTRAN Technical Support

Pre-sales Applications/Post-sale Technical Assistance
(800) 726-8663

Standard support hours:

Monday-Friday, 7 a.m. - 7 p.m. CST

Emergency support:

7 days/week, 24 hours/day

ADTRAN Repair/CAPS

Return for repair / upgrade
(256) 963-8722

Repair and Return Address:

ADTRAN, Inc.
CAPS
901 Explorer Boulevard
Huntsville, Alabama 35806-2807

Table 2. Specifications

| Power | |
|------------------------|---|
| Input : | -42 VDC to -56 VDC |
| Outputs: | +22 V $\pm 10\%$, 0.20 A +5.0 V $\pm 5\%$, 1.75 A +3.3 V $\pm 5\%$, 1.00 A +2.5 V $\pm 5\%$, 2.75A |
| Environmental | |
| Operating Temperature: | -40°C to 70°C |
| Storage Temperature: | -40°C to 85°C |
| Relative Humidity: | 95% maximum@ 50°C, noncondensing |
| Physical | |
| Dimensions: | 9.825 in. L x 2.812 in. H x 1.084 in. W |

