

### DC SUPPLY

CLD: SUPDCDC

#### FRONT PANEL LEDs

**POWER** ○ Off

● Green

● Amber

● Red

**TEMP** ○ Off

● Red

Body -48 VDC (uses blown, power not supplied to the shelf, or incorrect polarity on the voltage supplied to the shelf).  
Power supplied is the correct voltage and polarity; backplane and hot insertion voltages correct.  
-48 VDC input and hot insertion voltage present; no backplane voltage.  
-48 VDC input present; no backplane voltage and no hot insertion voltage.  
Normal.  
Over-temperature condition.

#### DESCRIPTION

The Total Access® 4303 Plus DC Power Supply is a removable assembly that provides the voltages necessary for proper system operation. The unit features LEDs for over-temperature and DC output, an input fuse, and the ability to be hot-swapped when used with another DC supply in the same chassis. The supply interfaces to the Total Access backplane through a 48-pin connector. The unit accepts one or two -48 VDC inputs from the backplane and supplies -48 VDC (used output for use with external input logic), +0 VDC as hot insertion bias voltage for modules, and +2.1 VDC for backplane termination. In addition, the Total Access 4303 Plus DC Supply provides alarm relay outputs when installed in slot PS-A.

The following features are supported on the Total Access 4303 Plus DC Power Supply:

- Thermal break indicator with open collector output
- DC status indicator on the 2.1 and 5 volt outputs with open collector output
- Short circuit protection
- Compatible with existing Total Access DC Power Supplies (P/N 1220333L1)

#### SPECIFICATIONS

| Specifications                             |                                                    |
|--------------------------------------------|----------------------------------------------------|
| Input Voltage                              | -48 VDC to -56 VDC                                 |
| Operating Temperature                      | -40°C to +65°C                                     |
| Storage Temperature                        | -40°C to +85°C                                     |
| Relative Humidity                          | Up to 95% noncondensing                            |
| Over Temperature Indication                | 30°C ±5%                                           |
| -48 VDC Short Circuit Protection           | Fused 3-amp slow blow                              |
| Backplane Voltage Short Circuit Protection | Self-mending                                       |
| Compliance                                 | FCC Part 15, UL 94V0, NEBS Level III, 56-1086-C345 |

#### ALARM RELAYS

There are eight alarm relays that provide normally open or normally closed contacts for each of the following alarms:

- Visual Critical
- Visual Major
- Visual Minor
- Audible Critical
- Audible Major
- Audible Minor
- Auxiliary 1
- Auxiliary 2

#### POWER SUPPLY 48 PIN CONNECTOR PINOUT

| Pin # | Row A Signal | Row B Signal | Row C Signal   |
|-------|--------------|--------------|----------------|
| 1     | AWD_CRIT_NC  | AWD_CRIT_CM  | AWD_CRIT_NC    |
| 2     | AWD_MAJ_NC   | AWD_MAJ_CM   | AWD_MAJ_NC     |
| 3     | AWD_MIN_NC   | AWD_MIN_CM   | AWD_MIN_NC     |
| 4     | VIS_CRIT_NC  | VIS_CRIT_CM  | VIS_CRIT_NC    |
| 5     | VIS_MAJ_NC   | VIS_MAJ_CM   | VIS_MAJ_NC     |
| 6     | VIS_MIN_NC   | VIS_MIN_CM   | VIS_MIN_NC     |
| 7     | AUX1_RLY_NC  | AUX1_RLY_CM  | AUX1_RLY_NC    |
| 8     | AUX2_RLY_NC  | AUX2_RLY_CM  | AUX2_RLY_NC    |
| 9     | -48V_A       | PS_OK        | PS_TEMP        |
| 10    | -48V_B       | 2.1V         | PS_PRESENT     |
| 11    | 2.1V         | 2.1V         | 2.1V           |
| 12    | -48V_AB_RTN  | 2.1V         | VOC            |
| 13    | GND          | GND          | GND            |
| 14    | GND          | GND          | PSRELY_CLK     |
| 15    | GND          | PSRELY_LOAD  | PSRELY_DATAIN  |
| 16    | PS_SNC       | -48V         | PSRELY_DATAOUT |





## TOTAL ACCESS 4303 PLUS DC POWER SUPPLY

PRICING AND AVAILABILITY 800.827.0687  
TECHNICAL SUPPORT 800.726.6883  
RETURN FOR REPAIR 254.562.6732  
www.adtran.com  
#10033511-32A

### TURNUP STEPS

To install the Total Access 4303 Plus DC Power Supply, perform the following steps:

- 1 After unpacking the Total Access 4303 Plus DC Power Supply, inspect it for damage. If damage is found, file a claim with the carrier and then contact ADTRAN® Customer Service.
- 2 Pull the ejector tab on the bottom of the Total Access 4303 Plus DC Power Supply into the down position.
- 3 Hold the Total Access 4303 Plus DC Power Supply by the front panel while supporting the bottom edge of the module and align the module edge with the guide groove for slot PS-A or PS-B in the chassis. If using only one Total Access Plus DC Power Supply module, insert the module in slot PS-A in order to use the alarm relay outputs.
- 4 Gently but firmly push the module into the selected slot. Simultaneous thumb pressure at the top (above the POWER LED) and at the bottom (below the electrostatic caution symbol) of the module will ensure a good seat of the module pins into the backplane connector.
- 5 Apply power to the shelf and verify that the POWER LED is green. If the POWER LED does not illuminate, disconnect power, and verify polarity.
- 6 Push the ejector tab up and closed against the module front panel.

To verify one or both -48VDC supply voltages, use the SCU terminal and navigate to the following path:

System Status/System Alarms/-48V Bus

### COMPLIANCE

This product is NRTL listed to the applicable UL standards. The Total Access 4303 Plus DC Power Supply is intended for installation in a type "B" or "E" enclosure in a Restricted Access Only area. The Total Access 4303 shelf Frame Ground terminal must be connected to an earth ground to ensure that the front panel of the Total Access 4303 Plus DC Power Supply is properly grounded via the backplane connector.

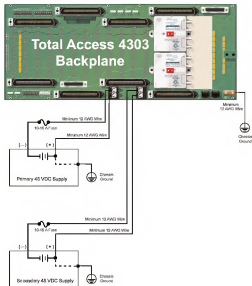
| Cable                        | Input | Output |
|------------------------------|-------|--------|
| Power Cable (PC)             | F     | G      |
| Telecommunication Cable (TC) | -     | K      |
| Installation Guide (IG)      | A     |        |

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.

### WARRANTY

ADTRAN will replace or repair this product within the warranty period if it does not meet its published specifications or fails while in service. Warranty information can be found at [www.adtran.com/warranty](http://www.adtran.com/warranty). U.S. and Canada customer hotbeds: 877-457-3807, Document 434.



Note: Only one of the above supplies is necessary for proper operation.