ADTRAN®
Quick Start Guide

T1 CSU ACE

P/N 1203022L1

NETWORK CONNECTION PINOUTS

Pin	Name	Description
1	R1 RXDATA	Receive data from the Network - Ring
2	T1 RXDATA	Receive data from the Network - Tip
3, 6, 7, 8	—	Unused
4	R TXDATA	Transmit data toward the Network - Ring
5	T TXDATA	Transmit data toward the Network - Tip

CPE CONNECTION PINOUTS

Pin	Name	Description
1	R TXDATA	Transmit data toward the Network - Ring
2	T TXDATA	Transmit data toward the Network - Tip
3, 6, 7, 8	—	Unused
4	R1 RXDATA	Receive data from the Network - Ring
5	T1 RXDATA	Receive data from the Network - Tip

INSTALLATION INFORMATION

- An eight-position modular jack (labeled NET) is provided to connect to the network T1 circuit. The pinout is provided on this quick start guide. See *Chapter 2, Installation*, of the *T1 CSU ACE User Manual* for more information. An eight-position modular jack (labeled CPE) is provided to connect to the customer equipment. The pinout is provided on this quick start guide. See *Chapter 2, Installation*, of the *T1 CSU ACE User Manual* for more information.

- The rear panel contains LBO dip switches for both the network and CPE interfaces. Detailed instructions on setting the switch positions are found on the back of this sheet.

- The T1 CSU ACE can be powered by either of the following methods:
  1. Use the included NEC Class 2, 12 V at 400 mA wall mount power supply.
  2. Connect to a reliably grounded 12 to 48 VDC source that is electrically isolated from the AC source. *Note: The branch circuit overcurrent protection shall be a fuse or circuit breaker rated 48 V, minimum to 10 A, maximum.*

- Additional information can be found on the product CD which contains the *T1 CSU ACE User Manual*, FAQs, data sheets, applications, and white papers.

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NETWORK LBO SWITCH POSITION SETTINGS

Position 1	Position 2	Attenuation (dB)
Up	Up	0
Up	Down	7.5
Down	Up	15
Down	Down	22.5

CPE LBO SWITCH POSITION SETTINGS

Position 3	Position 4	Position 5	Cable Length (feet)
Down	Down	Up	0 to 133
Up	Up	Down	134 to 265
Down	Up	Down	266 to 399
Up	Down	Down	400 to 533
Down	Down	Down	534 to 655

TEST AND MONITOR ACCESS

- Two monitor jacks are provided on the rear panel for bridging the received signals to allow in service circuit monitoring.

- Four break-and-test jacks are provided on the rear panel for use in out-of-service testing. These jacks bypass the connections of the modular jacks. **NET IN** and **NET OUT** are used to simulate the network input and output of the T1 CSU ACE. To test the CPE, a T1 Bit Error Rate Test (BERT) test set can be used to simulate the network. **EQ IN** and **EQ OUT** can be used to simulate the CPE with a BERT test set, allowing the network to be tested. The T1 CSU ACE on the other end of the circuit can be looped back to test only the network.