



T1 CSU ACE

Compact T1 Network Facility Interface

Product Features

- T1 line-conditioning and jitter tolerance per ANSI T1.403, T1.102 and AT&T TR 62411
- Supports PRI pass through
- Supports framed (B8ZS or AMI) or unframed signal formats
- Transmits unframed "all 1s" during signal loss from DTE or T1 network
- Bantam test jacks
- Front panel status LEDs
- 12 VDC powered
- Desktop or wallmount
- Industry-leading five-year North American warranty

The ADTRAN® T1 CSU ACE™ is a compact, full-featured T1 channel service unit used to connect T1 data terminal equipment (DTE) and T1 facilities. The unit is designed to provide alarms, loopbacks, signal regeneration, line build out, and surge protection.

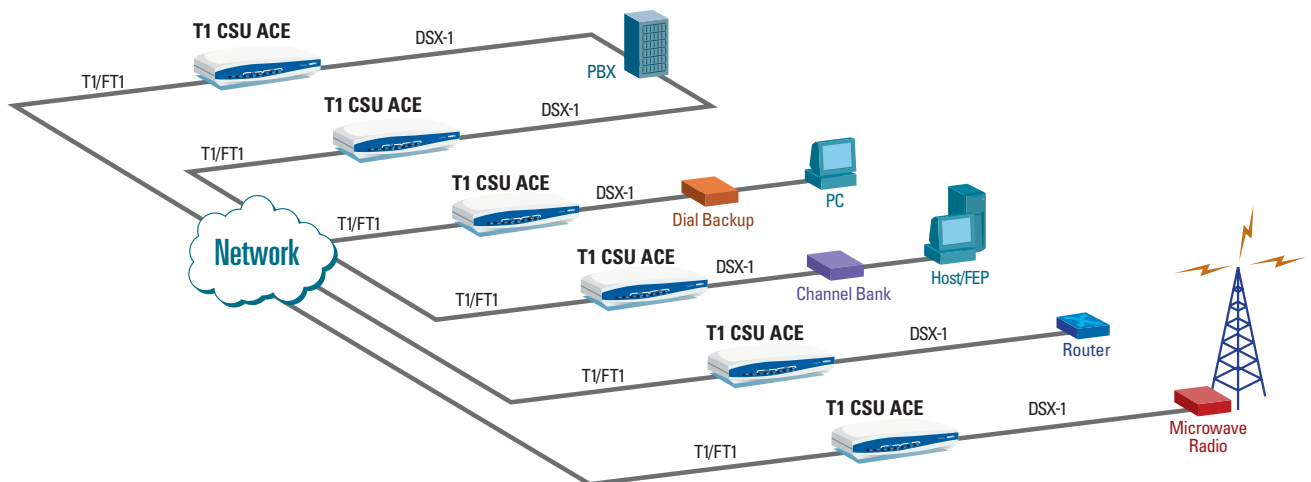
The transport signal maintains the framing format for both the WAN and customer interfaces and enables ISDN PRI pass through.

The unit is suitable for wallmounting or desktop use. Five LEDs on the front of the unit (POWER, SYNC, NETWORK LOS, NETWORK MANUAL and REMOTE LB, EQ LOS, EQ MANUAL and REMOTE LB) display the status of the unit. On the back of the unit an eight position dip switch provides settings for customer premises equipment and network line build out (LBO) distances as well as manual loopback operation. The two network LBO switches provide four combination settings from 0 to 22.5dB in 7.5dB increments. The three switches allotted for the equipment LBO offer five combination settings for PBX termination at distances up

to 655 feet. Two additional switches provide for manual loopback (LB) in both the Equipment (EQ) and Network (NET) directions. The last switch is a spare.

The unit provides three bantam jack pairs for testing purposes. Two pairs provide interruptive transmit and receive access toward the T1 network or the Data Terminal Equipment (DTE) device. The third pair is a non-interruptive connection for monitoring data flowing in either direction. Two RJ-48C modular jacks provide the network and DTE connections. A 12 VDC wallmount power supply that plugs into a receptacle is included with the unit. The T1 CSU ACE also supports wallmount applications via integrated keyholes in the base.

For additional T1 applications, ADTRAN provides several versions of the T1 CSU offering various features and mounting options. ADTRAN T1 CSU products include the T1 ESF CSU and the rackmounted T1 ESF CSU Smart 16 Card.



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Product Specifications

Network Interface

Line Rate

- T1/FT1 (1.544 Mbps)

Physical Interface

- RJ-48C: 8-pin modular

Specifications

- AT&T TR62411
- ANSI T1.403

Framing

- D4 (SF)/ESF

Line Code

- AMI/B8ZS

ESF Format

- Transparent

Input Signal

- 0 to -36dB, Auto sensitivity setting

Transmission Type

- Regenerative transparent toward network and toward DTE
- Transparent mode enables PRI pass through

Equipment Interface

Electrical

- DSX-1

Compliance

- ANSI T1.102

Receiver Performance

- Line build out for 0–655 ft

Keep Alive Signal

- Unframed all 1s on loss of signal from DTE

User Options

Option Switches

- Network loopback
- Equipment loopback
- Network Line Build Out (0, 7.5, 15, 22.5dB)
- Equipment Line Build Out (0–133, 134–265, 266–399, 400–533, 534–655 ft)

Test Jacks

- Interruptive test signal access network and DTE
- Non-interruptive signal receive monitor for network and DTE

LED Indicators

- Power
- Sync
- Network Loss of Signal
- Network Manual and Remote Loopback
- Equipment Loss of Signal
- Equipment Manual and Remote Loopback

Mounting

- Desktop or Wallmount

Compliance

- FCC Part 15, Class B
- FCC Part 68
- Industry Canada CS03
- UL 1950, third edition
- CUL

Environment

Operating Temperature

- 0° to 50°C, (32° to 122°F)

Storage Temperature

- -20° to 70°C, (-4° to 158°F)

Relative Humidity

- Up to 95%, non-condensing

Physical

Dimensions

- 1.45" H, 4" D, 6.7" W

Weight

- 12.8 oz

Power

- 12 VDC

Product Includes

- 115 VAC to 12 VDC power supply
- RJ-45 cable
- User manual

Ordering Information

Equipment	Part #
T1 CSU ACE	1203022L1
12 VDC Replacement Power Supply	1903022L1
19" Rackmount Shelf for Two Units	1200412L1



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