

T1 ESF CSU

HIGHLIGHTS

Compact, low-cost transcoding and transframing T1/FT1 ESF CSU

Automatic conversion from SF to ESF framing and line coding

Ease of installation with automatic line build out on network and equipment interface

All unframed ones during signal loss from DTE or T1 network

B8ZS or AMI formats

Performance report messages

DIP switch configurable

Test jacks

Desktop or wall mountable

COMPACT AND COST EFFECTIVE

Verilink's T1 ESF CSU builds on our market-proven CSU technology by providing T1 access in a compact, cost-effective device. This CSU offers simple configuration, test capability and full-featured performance by providing signal regeneration, line conditioning and surge protection for T1 circuits — all in one small package.

TESTING

Verilink's T1 ESF CSU offers easy configuration and test capability via DIP switches. Network administrators can locate Data Terminal Equipment (DTE) where needed using the CSU's switch-selectable DSX-1 pre-equalizer. The T1 ESF CSU's network transmit path contains a switch-selectable, T1 facility pad for -22.5, -15, or 0 dB, which allows line build out for the incoming DTE signal and supports signals of +1 to -30 dB from the network.

With the T1 ESF CSU, network administrators can test or monitor network transmission via three bantam jacks. Two bantam jacks are for interruptive loopbacks and testing toward the T1 network or the DTE while the third provides non-interruptive passive monitoring of transmitted data in either direction.



Additionally, Verilink's T1 ESF CSU extends cost efficiencies to network administrators requiring alternate mark inversion (AMI)-framed DTE devices to communicate over B8ZS framed-network circuits. This CSU will automatically adapt line coding as needed to accommodate legacy networks. This feature allows network administrators the capability to use existing PBX equipment.

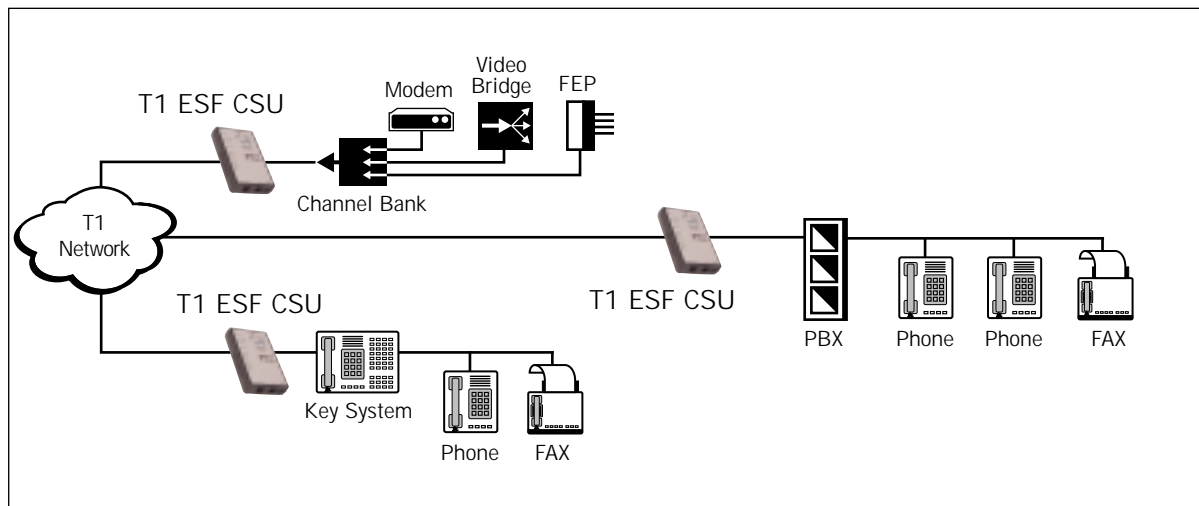
QUICK AND SIMPLE INSTALLATION

At Verilink, we understand that finding a solution for space limitation and high network costs, while at the same time requiring simple configuration, is an on-going challenge. That's why Verilink's T1 ESF CSU is compact yet delivers cost-efficient, full-featured T1 access — in an easily configured device.



VERILINK®

Go to www.verilink.com or call 866.665.1515 for more information



SPECIFICATIONS

PRICE GUIDE REFERENCE

1100022: T1 ESF CSU

NETWORK INTERFACE

Line Rate: 1.544 Mbps (± 50 bps)

Line Code: AMI or B8ZS

Line Framing: D4 or ESF

Line Impedance Balanced: 100 ohms $\pm 5\%$, RJ-48C

Input Signal: DS-1, +1 to -30 dB (ALBO)

Output Signal: 3.0 V, $\pm 15\%$, base-to-peak into 100-ohm resistor

Line Build Out: 0, -7.5, -15 and -22.5 dB attenuation

Line Protection: 1000 V lightning protection, fused input/output

Keep Alive: Unframed all ones loss of DTE signal (DTE loopback)

Jitter Control: per TR 62411 and T1.403

Pulse Density: per TR 62411

Connection: RJ-48C

EQUIPMENT INTERFACE

Line Rate: 1.544 Mbps (± 50 bps)

Line Code: AMI or B8ZS

Line Framing: D4 or ESF

Line Impedance Balanced: 100 ohms $\pm 5\%$, RJ-48C

Input Signal: DSX-1 to 655 ft

Output Signal: Selectable DSX-1 signal level from 0 to 655 ft

Line Protection: 1000 V lightning protection, fused input/output

Keep Alive: Unframed/framed all ones loss of network signal (line or payload loopback)

Connection: RJ-48C

MANAGEMENT INTERFACE

Configuration: DIP switch

LED Indicators: Power, loopback, net loss, equipment loss

PERFORMANCE DATA

Performance Report Messages: ANSI T1.403

Maintenance Messages: AT&T TR 54016

STANDARDS AND REGULATORY COMPLIANCE

FCC: Part 15, Class A Subpart B, FCC Part 68

U.S. Safety: UL 1950, C - UL CSA C22.2 No. 950-95

Industrie Canada: CS-03, Issue 8

Bellcore: GR-1080-CORE

POWER REQUIREMENTS

External Transformer: 115 VAC input; 9 VAC, 750 mA output

SIZE

3.5 in. W, 5.7 in. D, 1.25 in. H

WARRANTY AND SUPPORT

Five-year warranty



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