T1-ESF CSU

Specifications

Network Interface

Line Rate: $1.544 \text{ Mbps } \pm 75 \text{ bps}$

Line code:

Bipolar RZ AMI or B8ZS

Output Level:

2.7 – 3.3 V peak (0 dB LBO) 0 to –25 dB equivalent line loss

Input level: Impedance:

e: 100 ohms nominal, input and output

Line Build-Out:

Out: 0, 7.5, or 15 dB

Surge Protection:

1000 V per AT&T Pub 43601

• DTE Interface

Line Rate: Line code: 1.544 Mbps ±75 bps Bipolar RZ AMI or B8ZS

Output Level:

DIPUIAL NZ AIVII UL BOZG

Input level:

2.7 – 3.3 V peak; 4.5 – 5.5 V peak (at 655 line length) 2.7 – 3.3 V peak (referred to DTE output)

Impedance:

100 ohms nominal, input and output

Surge Protection:

1000 V per AT&T Pub 43601

Pulse Density Maintenance: AMI; 1 pulse every 8 bits, 12.5% (AMI with pulse stuffing); B8ZS

• Keep-Alive Generation

Code: Unframed all ones

Activation: Loss of DTE signal for 150 ms

General

Alarms:

Minor alarm – yellow alarm from network or AIS signal; Major alarm – loss of network or DTE receive signal or

loss of frame sync

Power Requirements:

120 VAC ±10%; 47 – 60 Hz; 3.5 watts (typical); Span

line powered from central office; –48 VDC local central office power

Dimensions:

Width: 7 inches; Height: 2 inches; Length: 10 inches 0 to 50° C: 95% relative humidity, noncondensing

Environmental: 0 to 50° C; 95% relative humidity, noncondensing

Indicators

LED indicators on the front panel of the T1-ESF CSU display signal status, alarm status, and test modes. The LEDs are arranged in two rows, the top row for DTE indications and the bottom for network indications.

DTE LOS — Red LED on when DWK AIS — Red LED on when

□ DTE LBK — Yellow LED on when DTE is looped back. Flashes for errors in LLTP test.

loss of signal is detected from the $$\operatorname{\textsc{d}}$ DTE. $$\operatorname{\textsc{d}}$

□ **NWK AIS** — Red LED on when an alarm indication signal is detected from the network.

□ **NWK LBK** — Yellow LED on when network is looped back.

Flashes for errors in LLTP test.

□ **NWK LOS** — Red LED on when loss of signal is detected from the network.

□ **DTE D** — Red LED indicates that signal from the DTE may have low ones density.

□ DTE SYN — Green LED on when correct framing pattern is detected from DTE.

□ **DTE AIS** — Red LED on when an alarm indication signal is detected from the DTE.

□ **NWK Y** — Red LED on when a "yellow alarm" signal is detected from the network.

□ **NWK SYN** — Green LED on when correct framing pattern is detected from network.