



T-Monitor/Tap and E-Monitor/Tap

DESCRIPTION

The DCB T-Monitor and E-Monitor uses 4-wire repeater technology to provide a monitor point for T1 or E1 lines. The T-Monitor and E-Monitor are based on the DCB T-Extender and E-Extender. The T/E-Monitor uses repeater circuits on all data paths. This active repeater function is superior to simple passive monitor devices. For some T1 and E1 circuits, the double termination of passive monitor devices will attenuate the signal enough to generate data errors. The T/E-Monitor units are the solution to this attenuation problem. The Monitor units provide both electrical isolation and actively repeat the signal.

The circuitry is rated to -36 dB dynamic range at the T-1 rate of 1.544 Mbps and -43 dB dynamic range at the E-1 rate of 2.048 Mbps. Solid copper 22 AWG, two twisted pair is the preferred cable for connection between the units (We do not recommend CAT5 cable). Connection to the Monitor is made through RJ48 modular connectors or 4-wire screw down barrier strips. Each Monitor comes standard with three screw down barrier strips and two RJ48 connectors. If only RJ48 connections are desired extra RJ48 adapters (part number 9502122 to connect to telco, 9502172 to connect to customer equipment) can be ordered.

The DCB T-Monitors and E-Monitors are powered by a small wall-mount transformer. Power supply options include 120/240 VAC, 12, 24, 48 or 125 VDC. Rack mount options include a 1U 3-unit shelf and a 20 slot rack.

The T-Monitors/E-Monitors are transparent to the type of data sent over the T-1/E-1 link. The data can be D-4 format, ESF, PRI, G.703, G.704, etc.

Applications:

- Monitor T1 or E1 line to extract SS7 info
- Monitor T1/E1 lines for voice applications
- Monitor T1/E1 lines for data analysis



FEATURES

- **Actively monitor T1 and E1 lines**
- **Actively repeats the T1 and E1 signals**
- **RJ48 or screw down connectors**
- **Simple connection to 4-wire circuits**
- **120/240 VAC, 12, 24, 48, or 125 VDC available**
- **1U high rack mountable, 1, 2, or 3 x 19" rack**
- **20 slot rack chassis option**
- **DIN mount option**
- **Ideal for lawful intercept and CALEA**
- **Use for quality monitoring**

Note! This product is NOT for 10BaseT or Ethernet networks. It is for T1 or E1 telephone lines.

T-Monitor/Tap and E-Monitor/Tap T-1 and E-1 Monitor (Specify T1 or E1 when ordering)

SPECIFICATIONS

General

T1 or E-1 monitor
Actively repeats T1 or E1 bi-polar signals
Indicators

Power

Accessories

RJ45 wiring adapter p/n 9502122 to connect to Telco and 9502172 to connect to customer equipment using straight through cables.

Customer to demarc RJ45 cable p/n 9500095

Rack shelf, 1 U for 1 to 3 T1/E1 Monitors

20 slot, 4U high 19" rack mount chassis

Din clip, spring mount, p/n 6013006

Physical/Electrical

5.5" x 7.5" x 1.5"

100 ohm T1, 120 ohm E1 interface

2 lbs including wall transformer

120 VAC external wall transformer supply

Optional 240 VAC, 12, 24, 48, 125 VDC

30 ma

-40 to +70 C operating temperature

Operating Humidity: < 95% non-condensing

Wire

Two twisted pair solid copper

T1/E1 In and Out Connectors

RJ48 modular 9502122	9502172
Pin 1 = In - Receive	Transmit
Pin 2 = In - Receive	Transmit
Pin 4 = Out - Transmit	Receive
Pin 5 = Out - Transmit	Receive

4-Wire barrier strip

Pin 1 = In - Receive

Pin 2 = In - Receive

Pin 3 = Out -Transmit

Pin 4 = Out -Transmit

Units supplied with 3 screw down connectors and 2 RJ48 connectors (9502122 to Telco, and 9502172 to Customer Equipment)

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APPLICATION

