



T-Extender and E-Extender

T-1 and E-1 Repeater for customer owned cable (Specify T-1 or E-1 when ordering)



←RJ45 Adapter p/n 9502122

- Extend phone company demarcs
- T-1 or E-1 4-wire repeater
- Extends T-1 or E-1 lines
- Up to 5000 feet between units
- RJ-45 or screw down connectors
- Simple connection to 4-wire circuits
- Inexpensive solution to long cable runs
- 120/220 VAC, 12, 24, 48, or 125 VDC available
- 1U high rack mountable, 1, 2 or 3 x 19" rack
- 20 slot rack chassis option

Note! This product is NOT for 10BaseT or Ethernet cables. It is for T-1 or E-1 lines

DESCRIPTION

The DCB T-Extender and E-Extender are 4-wire repeaters for use on customer owned lines or to extend telephone company demarcs. The Extenders are used to extend in-house T-1 and E-1 lines in campus and high-rise environments.

Each pair of T-1/E-1 Extenders may be located up to 5000 feet apart. The Extender 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. As implemented, the parts are slightly de-rated to provide long life at extended temperature range. Therefore the distances specified in this document are only 5000 feet. Solid copper 22 AWG, two twisted pair is the preferred cable for connection between the Extenders. Connection to the Extender is made through RJ-45 modular connectors or 4-wire screw down barrier strips. Each Extender comes standard with two screw down barrier strips and one RJ-45 connector. If only RJ-45 connections are desired extra RJ-45 adapters (part number 9502122) can be ordered.

The DCB T-Extenders and E-Extenders are powered by a small wall-mount transformer. The Extenders are designed for connections between T-1 equipment such as PBXs, T-1/E-1 multiplexers, T-1/E-1 line drivers, CSUs, routers or any other T-1/E-1 equipment requiring long customer owned cable runs. T-Extenders and E-Extenders can be used to connect this equipment across a campus, between floors of a high-rise office building or between office buildings with underground cable runs. The T-Extender/E-Extenders 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.

The T-Extenders are most often used in pairs to extend a telephone company demarc. For example, if a CSU or DSU is limited to 655 feet and is connecting to a phone company smart jack demarc which is limited to 655 feet, the T-Extenders are used in pairs to extend that distance up to 5000 feet.

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SPECIFICATIONS

General

T-1 repeater or E-1 repeater
Extends T-1 or E-1 bi-polar signals
Up to 5000 feet between T-Extenders
Up to 4000 feet between E-Extenders

Indicators

Power

Accessories

RJ45 wiring adapter p/n 9502122
Customer to demarc RJ45 cable p/n 9500095
Customer to customer RJ45 crossover cable p/n 9500099
Rack shelf, 1 U for 1 to 3 T-1/E-1 Extenders
20 slot, 4U high 19" rack mount chassis

Physical/Electrical

5.5" x 7.5" x 1.5"
100 ohm T-1, 120 ohm E-1 interface
2 lbs including wall transformer
120 VAC external wall transformer supply
Optional 220 VAC, 12, 24, 48, 125 VDC
30 ma
Operating Temperature: -40 to +70 C
Operating Humidity: <98% non-condensing

Wire

Two twisted pair solid copper
Other types will affect operational distance

Connectors

RJ-45 modular 8-conductor connectors

Pin 1 = Receive
Pin 2 = Receive
Pin 4 = Transmit
Pin 5 = Transmit

4-Wire barrier strip

Pin 1 = Receive
Pin 2 = Receive
Pin 3 = Transmit
Pin 4 = Transmit

Connect the transmit pair of one Extender to the receive pair of the other Extender. Pairs are not polarity sensitive
Units supplied with 2 screw downs, 1 RJ-45



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