



## 1 What's in the Package



Instructions



T1/E1-PT Tap

## 2 Introduction

The T1/E1-PT is a directional single-port full-duplex device that provides an easy method to rapidly and effectively deploy your analysis tools to monitor T1/E1 traffic between your network devices. Typically the tap is installed on a critical T1/E1 link in the network where monitoring and analysis capabilities are important.

T1/E1-PT features and benefits:

- T1/E1 compatible
- Non-intrusive monitoring device
- Standard RJ45 connectors

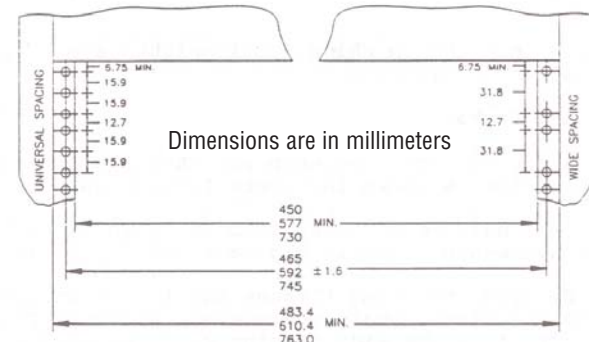
## 3 T1/E1-PT Specifications

Feature	Specification
Channel	One directional T1/E1
Cable Type	CAT 5E
Port Connectivity	
LINE	RJ45
NETWORK	RJ45
TAP	RJ45
Distance Limit	90 meter maximum length between network end-points. Tap typically 1 meter.
Power Requirements	none
Operating Temperature	0° to 40° C (32° to 104° F)
Storage Temperature	-30° to 65° C (-22° to 149° F)
Humidity	Less than 95° C non-condensing
Dimensions	1.10" (H) x 5.75" (W) x 5.75" (D) (includes rack mount bracket)
	28 mm (H) x 146 mm (W) x 146 mm (D)
Weight	Unit - 12 ounces; Shipping - 2 pounds

## 4 Installing a T1/E1-PT in an Equipment Rack

Prior to putting the T1/E1-PT in a standard 19-inch rack, a couple of equipment considerations should be noted:

- Do you have universal or wide spacing flanges?



ANSI/EIA-310-D-1992 Mounting Flange Dimensional Requirements

The T1/E1-PT occupies 1 unit of space when fastened in the middle hole of a universal flange. The T1/E1-PT occupies a part of 2 adjoining units of space when fastened in a wide spacing hole of a universal or wide-space flange.

- Do you need to install the T1/E1-PT on the left or right side of the rack? The tap ships with the rack mount bracket on the right side.

Do you want to fasten the tap differently? Then remove and replace the bracket screws on the side chosen with through hole mounting tab facing the direction required. (The thumbscrew is used with an optional rack panel shown below.)



Left side rack mount



Right side rack mount

The tap can be installed in an optional rack panel, contact your T1/E1-PT representative for further details.



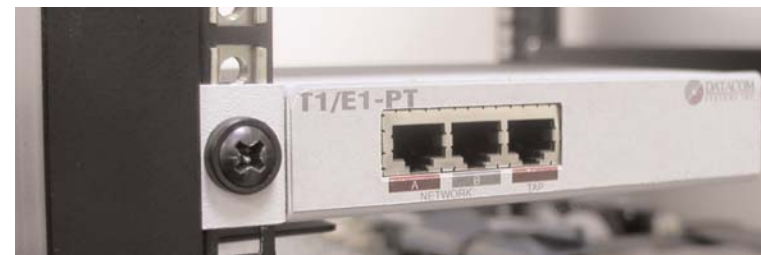
Three taps shown mounted in optional rack panel

To put the T1/E1-PT in a standard 19-inch equipment rack, follow these steps:

1. Decide where to place the T1/E1-PT in the equipment rack.
2. Align the T1/E1-PT through hole and the equipment rack hole.
3. Insert screw through the T1/E1-PT bracket into the rack.
4. Tighten the screw until the T1/E1-PT is secure in the rack.



T1/E1-PT fastened on the right side of the equipment rack



T1/E1-PT fastened on the left side of the equipment rack

## 5 Functional Operation

Refer to FIGURE 1 for a diagram of the functional operation of the T1/E1-PT.

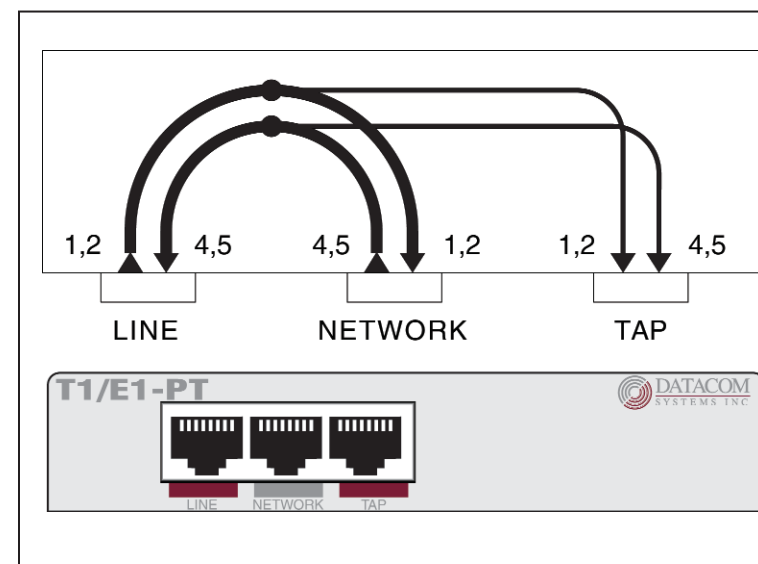


FIGURE 1 — T1/E1-PT Functional Diagram

## 6 Connecting a T1/E1-PT to the Network

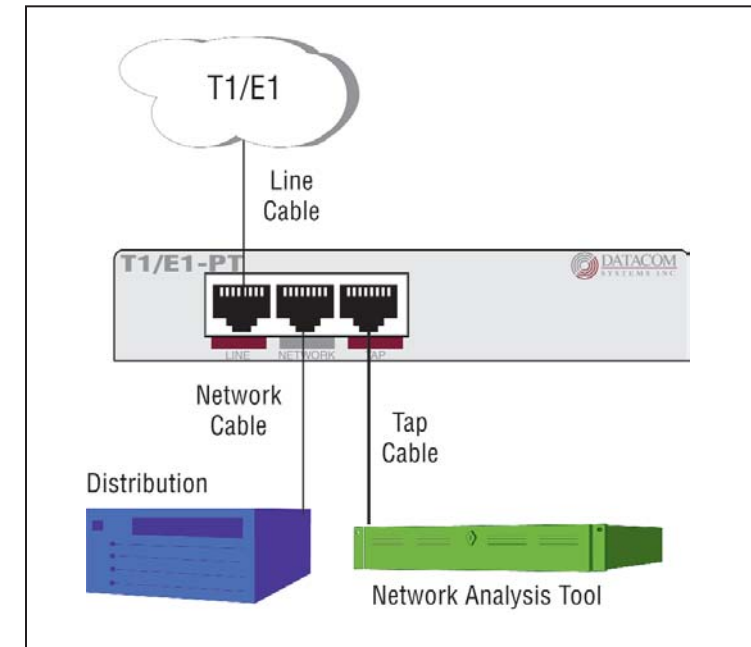


FIGURE 2 — T1/E1-PT Simple Connectivity Diagram

To connect the T1/E1-PT into the network, refer to FIGURE 2 and follow these steps:

**IMPORTANT: The maximum length of 90 meters must not be exceeded between end-points.**

1. Connect one of the network device cables to the T1/E1-PT RJ45 port **LINE** connector.
2. Connect the other network device cable to the T1/E1-PT RJ45 port **NETWORK** connector.
3. Connect a tap cable from the T1/E1-PT RJ45 port **TAP** connector into the port of the Network Analysis Tool interface card.