

DATACOMsystems[®]
10/100-PTx4 PASSIVEtaps[™]
Quick Installation Guide



Compliance Testing

CAUTION: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CE Certifications

This equipment has been tested and found to meet the radiated and conducted emission limits for **EN 61000-6-3:2001**, **EN 61000-6-4:2001** and a **Class A** product of **EN 55022** to the **EMC Directive 89/336/EEC** requirements.

This equipment has been tested and found to meet levels of **EN 6100-4-2** Electrostatic Discharge, of **EN 61000-4-3** Radiated Susceptibility, of **EN 61000-4-4** Electrical Fast Transient/Burst, of **EN 61000-4-5** Surge, and **EN 61000-4-6** Conducted Susceptibility to the **EN 61000-6-1:2001** generic immunity standard requirements and meets the **Class A** requirements for **EN 61000-3-2** and **EN 61000-3-3**.

This equipment has completed the Product Safety Review and found to meet the **EN 60960** Safety of Information Technology Equipment standards to the **Low Voltage Directive 98/68/EEC** requirements.

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Customer Service

This Quick Installation Guide was written to help you get to know your new 10/100-PTx4 PASSIVEtaps[™] quickly and easily. We would welcome any comments or suggestions you may have regarding this Quick Installation Guide. Please send your remarks and recommendations via mail, telephone, facsimile, or Internet E-mail.

Datacom Customer Service personnel are available from 8:30 AM to 5 PM Eastern time, weekdays. Customer Service is available via telephone, facsimile, and Internet E-mail. Outside of support hours, please leave a voice message and our Customer Service Staff will return your call as soon as possible.

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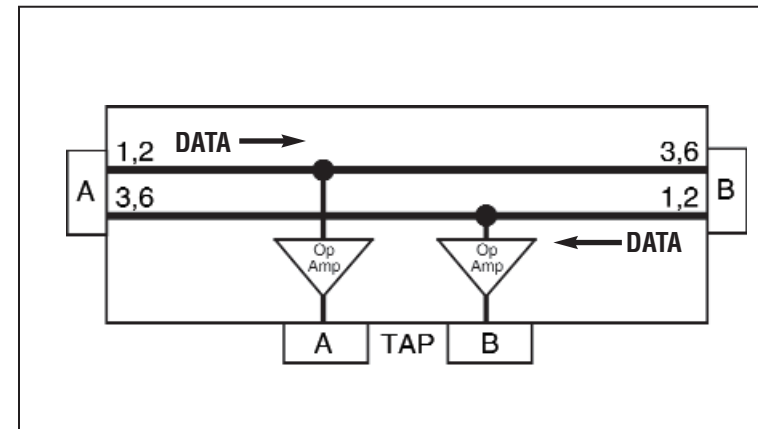
E-mail: support@datacomsystems.com

World Wide Web

You can obtain additional information about Datacom Systems, Inc. and its products and services from the World Wide Web at <http://www.datacomsystems.com>.

10/100-PTx4 Functional

Refer to the 10/100-PTx4 Functional Diagram.



10/100-PTx4 Functional Diagram

The 10/100-PTx4 PASSIVEtaps[™] functions as a truly passive 10/100 tap. The passive tap uses a simple form of physical passive tapping. The 10/100-PTx4 PASSIVEtaps[™] is a truly passive tap and adheres to the following: **if power to the tap is lost or restored there is never any change in the state of the tapped link.**

The 10/100 BaseT endpoint devices are attached via twisted pair cable. Only one signal is present on the transmit and/or receive pair, no multiplexing.

May 2010

Part Number: 541-0100-A.01

Warranty

Datacom Systems, Inc. (DSI) warrants that the hardware which it supplies will be free from significant defects in materials and workmanship for a period of two years from the date of delivery (Warranty Period), under normal use and conditions. In the event of any such defect, you can return an item of defective hardware, freight prepaid, to DSI during the Warranty Period, and DSI will repair or replace the defective equipment and return it to you, freight prepaid. If DSI determines that the equipment is not defective, it will return it to you, freight collect. DSI shall have no responsibility for any deficiency resulting from accidents, misuse, modifications, power disturbances (including use of a power supply not specified by DSI), or various other forms of disaster, e.g., earthquakes, floods, etc.

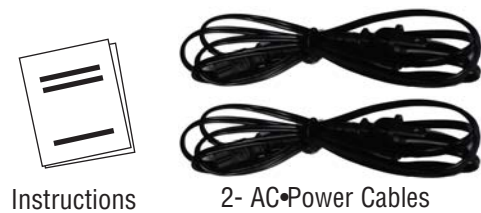
PLEASE DO NOT ATTEMPT TO RETURN ANY ITEM PRIOR TO RECEIVING A RETURN MATERIAL AUTHORIZATION (RMA) NUMBER FROM DATACOM CUSTOMER SERVICE AT (315) 463-9541

Limitation On Liability

The warranties set forth above are exclusive and in lieu of all other warranties. Datacom Systems, Inc. (DSI) makes no other warranties, expressed or implied, and DSI expressly disclaims all other warranties, including but not limited to implied warranties of merchantability and fitness for a particular purpose. Moreover, the provisions set forth above state DSI's entire responsibility and your sole and exclusive remedy with respect to any breach of warranty or contract.

No liability for consequential damages. Under no circumstances and under no theory of Liability shall DSI be liable for costs of procurement of substitute products or services, lost profits, lost savings, loss of information or data, or any other special, indirect, consequential or incidental damages, arising in any way out of the sale of, use of, or inability to use, any DSI product or service, even if DSI has been advised of the possibility of such damages.

1 What's in the Package



10/100-PTx4 PASSIVEtaps™

3 10/100-PTx4 PASSIVEtaps™ Specifications

Feature	Specification
Channel	10/100 BaseT Ethernet
Cable Type	CAT 5E
Port Connectivity	
NETWORK A	RJ45
NETWORK B	RJ45
TAP A	RJ45
TAP B	RJ45
Distance Limit	90 meter maximum length between network end-points. Tap typically 1 meter.
Power Requirements	(2) 120-240 VAC, 1 A
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	1.700" (H) x 19.000" (W) x 10.375" (D) (includes rack mount bracket)
	43 mm (H) x 483 mm (W) x 264 mm (D)
Weight	Unit - 5 pounds; Shipping - 10 pounds

2 Introduction

Refer to the general functional diagram of the 10/100-PTx4 PASSIVEtaps™. The 10/100-PTx4 PASSIVEtaps™ are four non-directional single-port full-duplex devices that provide an easy method to rapidly and effectively deploy your analysis tools to monitor 10/100 BaseT traffic between your network devices. Typically the taps are installed on critical 10/100 BaseT links in the network where monitoring and analysis capabilities are important.

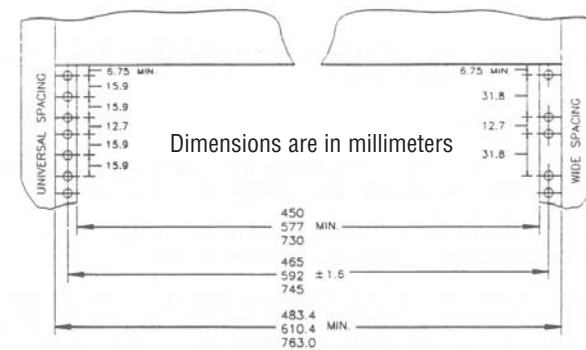
10/100-PTx4 PASSIVEtaps™ features and benefits:

- Non-directional inline tap
- Full duplex monitoring
- Non-intrusive monitoring device
- Power fault tolerant
- Standard RJ45 connectors

4 Installing a 10/100-PTx4 in an Equipment Rack

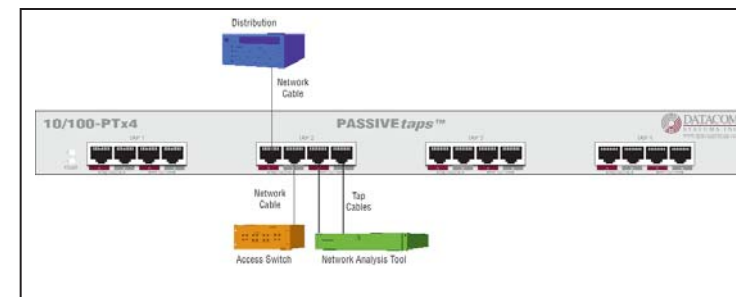
A couple of equipment considerations should be noted:

- Do you have universal or wide spacing flanges?
- The 10/100-PTx4 PASSIVEtaps™ occupies 1 unit of space when properly fastened in a universal flange. The 10/100-PTx4 PASSIVEtaps™ occupies part of 2 adjoining units of space when improperly fastened in a wide spacing hole of a universal or wide-space flange.



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

5 Connecting a 10/100-PTx4 to the Network

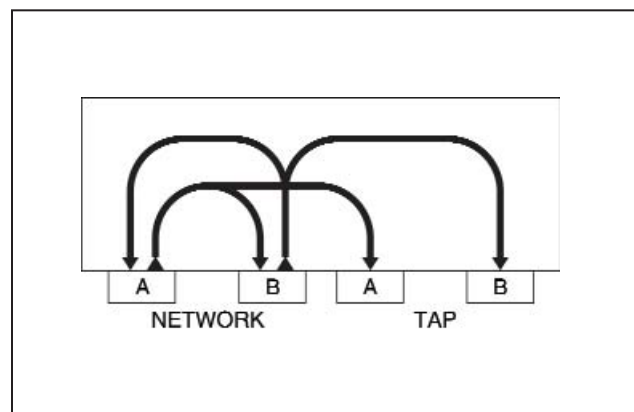


10/100-PTx4 PASSIVEtaps™ Connectivity Diagram

To connect the 10/100-PTx4 PASSIVEtaps™ into the network, refer to the Connectivity Diagram 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 10/100-PTx4 PASSIVEtaps™ RJ45 port **NETWORK A** connector.
2. Connect the other network device cable to the 10/100-PTx4 PASSIVEtaps™ RJ45 port **NETWORK B** connector.
3. Connect one tap cable from the 10/100-PTx4 PASSIVEtaps™ RJ45 port **TAP A** connector into one port of the Network Analysis Tool interface card.
4. Connect the other tap cable from the 10/100-PTx4 PASSIVEtaps™ RJ45 port **TAP B** connector into the other port of the Network Analysis Tool interface card.
5. Repeat steps 1 through 4 until all four taps are connected.
6. Connect both AC Power Cables into both the **POWER** ports of the 10/100-PTx4 PASSIVEtaps™ and then plug the Power Cables into separate external power source wall receptacles for reliable redundant power. The **POWER** LEDs to the left of the RJ connectors illuminates indicating power is on.



10/100-PTx4 PASSIVEtaps™ General Functional Diagram