

6 Connecting a 10/100-AT to the the Network

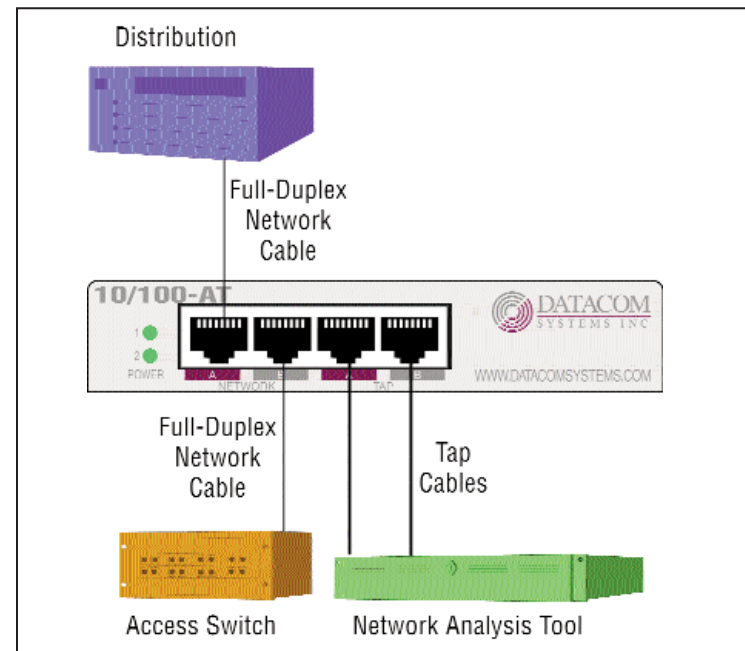


FIGURE 2 — 10/100-AT Simple Connectivity Diagram

To connect the 10/100-AT 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 10/100-AT RJ45 port **NETWORK A** connector.

NOTE: Network devices that DO NOT automatically negotiate Rx/Tx pin-out differences between devices to establish link typically require a cross-over cable. If needed, connect the cross-over cable as follows:

Equipment-Equipment Hookup	Crossover Cable Connection
PC - PC	B
PC/Router - Switch	NONE
Switch - Switch	A

2. Connect the other network device cable to the 10/100-AT RJ45 port **NETWORK B** connector.
3. Connect one tap cable from the 10/100-AT 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-AT RJ45 port **TAP B** connector into the other port of the Network Analysis Tool interface card.
5. Connect the Power Supply barrel connector into the **POWER** port of the 10/100-AT and then plug the Power Supply into the external power source wall receptacle. The **POWER** LED to the right of the RJ connectors illuminates indicating power is on.

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 a **Class B** product of **EN 55022** to the **EMC Directive 89/336/EEC** requirements.

This equipment has been tested and found to meet the immunity levels for **Class 1** tested to **level 2** for **EN 6100-4-2**, tested to **level 3** for **EN 61000-4-3**, tested to **level 2** for **EN 61000-4-4**, and tested to **level 3** for **EN 61000-4-5** to the **EN 50082-1** 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 **Low Voltage Directive 72/23/EEC (1993)** requirements.

DATACOMsystems®
10/100-AT Full-Duplex Tap
Quick Installation Guide



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Customer Service

This Quick Installation Guide was written to help you get to know your new 10/100-AT 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 via telephone, facsimile, and Internet E-mail. Please leave a voice message and our Customer Service Staff will return your call as soon as possible.

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1 What's in the Package



2 Introduction

The 10/100-AT is a non-directional single-port full-duplex device that provides an easy method to rapidly and effectively deploy your analysis tools to monitor 10/100 BaseT traffic between your network devices. Typically the tap is installed on a critical 10/100 BaseT link in the network where monitoring and analysis capabilities are important.

10/100-AT features and benefits:

- 10/100 BaseT compatible
- Non-directional totally passive inline tap
- Full duplex monitoring
- Non-intrusive monitoring device
- Standard RJ45 connectors

3 10/100-AT Specifications

Feature	Specification
Channel	One directional 10/100 BaseT Ethernet
Cable Type	CAT 5E
Port Connectivity	
NETWORK A	RJ45
NETWORK B	RJ45
ANALYZER A	RJ45
ANALYZER B	RJ45
Distance Limit	90 meter maximum length between network end-points. Tap typically 1 meter.
Power Requirements	External power supply 5 VDC, 200 mA
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 10/100-AT in an Equipment Rack

Prior to putting the 10/100-AT in a standard 19-inch rack you may want to contact your 10/100-AT representative to discuss a RMC-3 rack mount option or ...



5 Functional Operation

Refer to **FIGURE 1** for a diagram of the functional operation of the 10/100-AT.

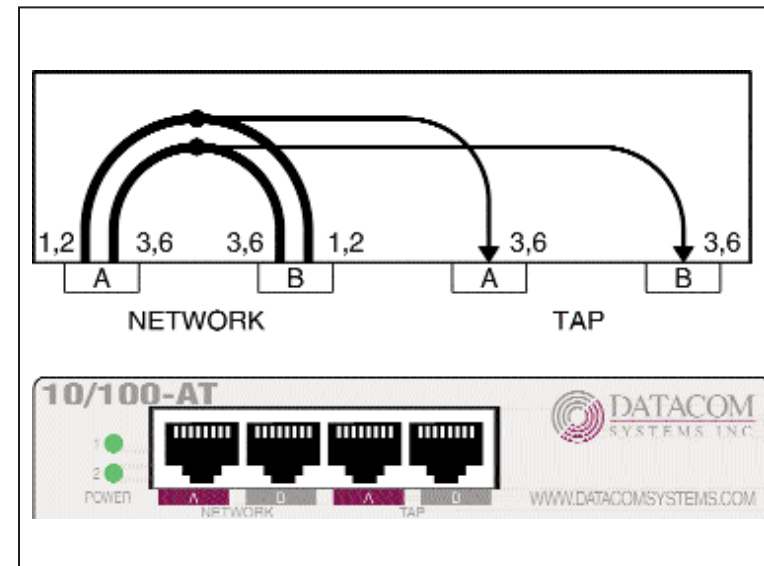
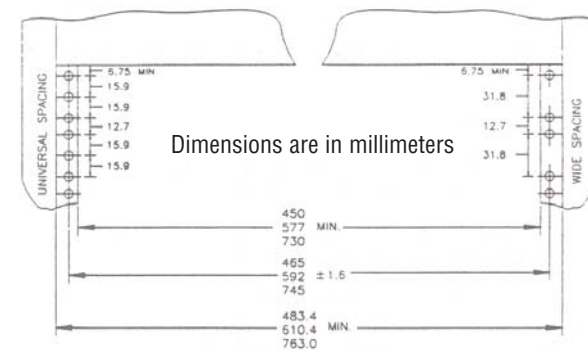


FIGURE 1 — 10/100-AT Functional Diagram

In any case, a couple of equipment considerations should be noted:

- Do you have universal or wide spacing flanges?
- The 10/100-AT occupies 1 unit of space when properly fastened in a universal flange. The 10/100-AT 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