

6 Connecting a 1000BT-AT-SX to the the Network

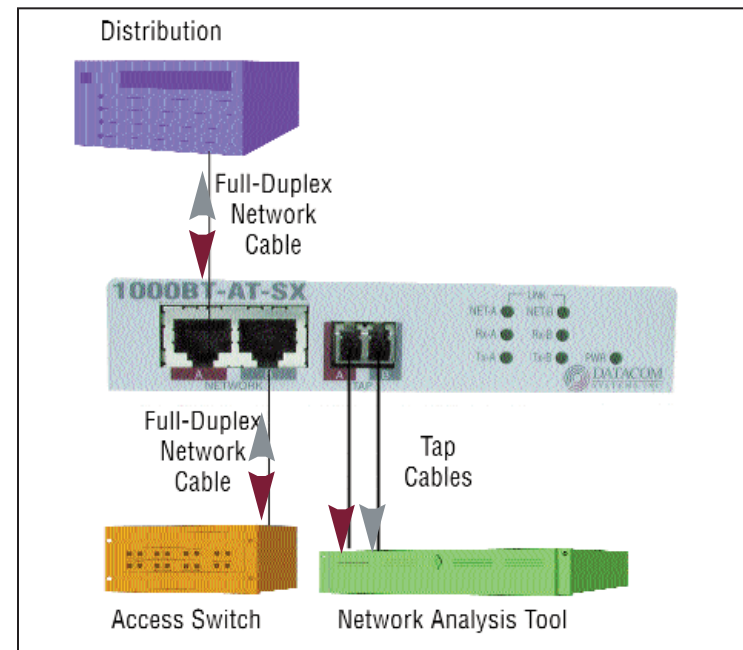


FIGURE 2 — 1000BT-AT-SX Simple Connectivity Diagram

To connect the 1000BT-AT-SX 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. Before powering the TAP, connect one of the network device cables to the 1000BT-AT-SX RJ45 port **NETWORK A** connector.
2. Before powering the TAP, connect the other network device cable to the 1000BT-AT-SX RJ45 port **NETWORK B** connector. Ensure link has been established between the NETWORK A device and NETWORK B device.
3. Connect the Power Supply barrel connector into the **POWER** port of the 1000BT-AT-SX 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.

The **Rx-A**, **Tx-A**, **Rx-B**, and **Tx-B** LEDs illuminate as data is passed back and forth between the NETWORK A and NETWORK B device.

4. Connect one tap cable from the 1000BT-AT-SX RJ45 port **TAP A** connector into one port of the Network Analysis Tool interface card. The **TAP-A LINK** LED illuminates indicating link has been established between the **TAP A** connector and Network Analysis Tool interface card.
5. Connect the other tap cable from the 1000BT-AT-SX RJ45 port **TAP B** connector into the other port of the Network Analysis Tool interface card. The **TAP-B LINK** LED illuminates indicating link has been established between the **TAP B** connector and Network Analysis Tool interface card.

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.

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Customer Service

This Quick Installation Guide was written to help you get to know your new 10/100/1000BT-AT-SX quickly. 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.

Mail: Datacom Systems, Inc.
Customer Service
9 Adler Drive
East Syracuse, NY 13057-1290

Tel: (315) 463-9541

FAX: (315) 463-9557

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> or support@datacomsystems.com.

DATACOMsystems® 1000BT-AT-SX Full-Duplex Tap Quick Installation Guide



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Part Number: 541-0078-A.01

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1 What's in the Package



1000BT-AT-SX Full-Duplex Tap

2 Introduction

The 1000BT-AT-SX is a single-port full-duplex device that provides an easy method to rapidly and effectively deploy your analysis tools to monitor 1000 BaseT traffic between your network devices. Typically the tap is installed on a critical 1000 BaseT link in the network where monitoring and analysis capabilities are important.

1000BT-AT-SX features and benefits:

- 1000 BaseT compatible
- Full duplex monitoring
- Power fault tolerant
- Standard RJ45 and SX connectors

3 1000BT-AT-SX Specifications

Feature	Specification
Channel	One directional 1000 BaseT Ethernet
Cable Type	CAT 5E and Multimode fiber
Port Connectivity	
NETWORK A	RJ45
NETWORK B	RJ45
TAP A	SX
TAP B	SX
Distance Limit	90 meter maximum length between network end-points. Tap typically 1 meter.
Power Requirements	External power supply 5 VDC, 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	1.10" (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 1000BT-AT-SX in an Equipment Rack

Prior to putting the 1000BT-AT-SX in a standard 19-inch rack you may want to contact your 1000BT-AT-SX representative to discuss a rack mount option or ...



1000BT-AT-SX with thumbscrew bracket to mount in RMC-3 rack mount



Three devices shown mounted in optional rack panel

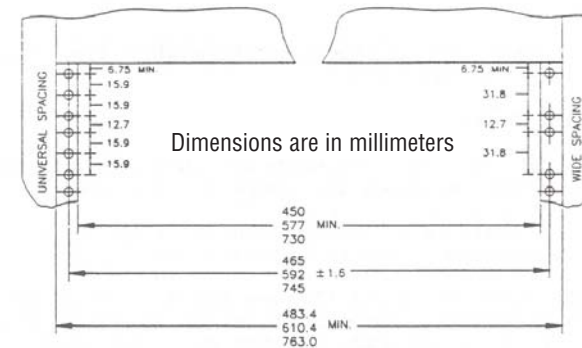
Single-mount rack bracket option.



Single device shown with rack mount bracket

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

- Do you have universal or wide spacing flanges?
- The 1000BT-AT-SX occupies 1 unit of space when properly fastened in a universal flange. The 1000BT-AT-SX 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 Functional Operation

Refer to **FIGURE 1** for a diagram of the functional operation of the 1000BT-AT-SX.

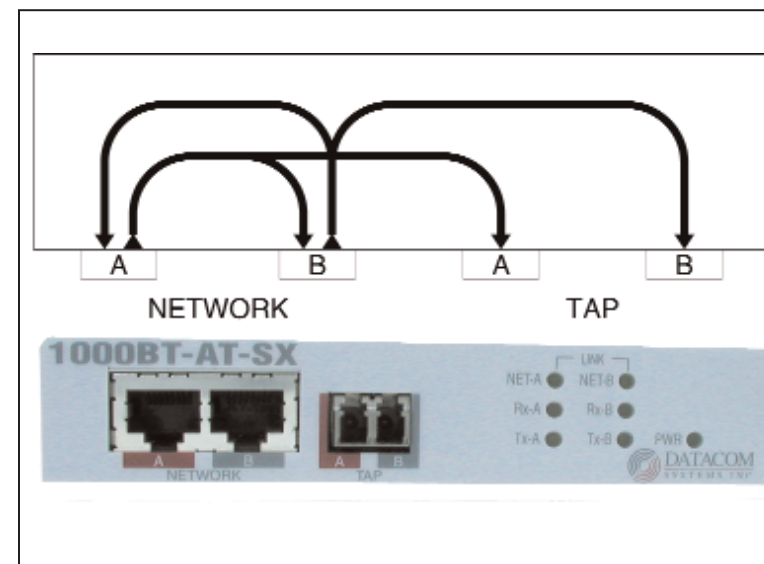


FIGURE 1 — 1000BT-AT-SX Functional Diagram