

## 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-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 from 8 AM to 5:30 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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## 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>.

## DATACOMsystems® Family of Products



### OPTICALswitch™

MODEL	PORTS	TOPOLOGY	CONNECTIVITY
1X8SP-OM (S)	8	100FX, OC3, OC12, Gigabit	Dual SC
1X8SY-OM (S)	8	100FX, OC3, OC12, Gigabit	Dual SC

### LANswitch™

#### ATM In-Line

MODEL	PORTS	TOPOLOGY	CONNECTIVITY
2X8SY-ATM-M (S)	2x8	ATM, OC3-OC12	Dual SC

#### Ethernet/Token Ring

MODEL	PORTS	TOPOLOGY	CONNECTIVITY
2X16FD-SY	2x16	10/100 BaseT	RJ45
MX8100E/Tsl	2x8	10/100 BaseT or Token	RJ45
MX16100E/Tsl	2x16	10/100 BaseT or Token	RJ45

#### Fiber Custom

MODEL	PORTS	TOPOLOGY	CONNECTIVITY
4XSPSY-CM	4	Gigabit	Dual SC
4X8SY-SX	4X8	Gigabit	Dual SC
4X8SP4-SX	4X8	Gigabit	Dual SC
4X16SP-SX	4X16	Gigabit	Dual SC

#### Gigabit In-Line

MODEL	PORTS	TOPOLOGY	CONNECTIVITY
1X8SY-SX (LX)	1x8	Gigabit	Dual SC
2X8SY-SX (LX)	2x8	Gigabit	Dual SC

#### Gigabit SPAN

MODEL	PORTS	TOPOLOGY	CONNECTIVITY
1X8SP-SX (LX)	1x8	Gigabit	Dual SC
2X4SY-SX (LX)	2x4	Gigabit	Dual SC
2X8SY-SX (LX)	2x8	Gigabit	Dual SC

#### Gigabit SPAN + In-Line

MODEL	PORTS	TOPOLOGY	CONNECTIVITY
2X8SP4-SX (LX)	2x8	Gigabit	Dual SC

#### Receive Only

MODEL	PORTS	TOPOLOGY	CONNECTIVITY
2X8RX-SX	2x8	Gigabit	Dual SC

## ACCESSORY

### Software

MANAgents — Multiple Agent Controlling Console Software

### Support

M3415A — V.35 Connectivity Panel  
RMC-3 — 1U Rack Panel for 3 Small Form DSI Products  
SCS — Switch Control Server

## TAP

### Ethernet/Token Ring

MODEL	PORTS	TOPOLOGY	CONNECTIVITY
10/100-AT	1	10/100 BaseT	RJ45
1000BT-AT	1	1000 BaseT	RJ45

### Fiber

MODEL	PORTS	TOPOLOGY	CONNECTIVITY
F50/50/62-M	1	100FX, OC3, OC12, Gigabit	Dual SC
F50/50/50-M	1	100FX, OC3, OC12, Gigabit	Dual SC
F50/50/9-S	1	OC3, OC12, Gigabit	Dual SC

### PERMALink™ Tray

MODEL	PORTS	TOPOLOGY	CONNECTIVITY
8SY-M/62	8	100FX, OC3, OC12, Gigabit	Dual SC
8SY-M/50	8	100FX, OC3, OC12, Gigabit	Dual SC
8SY-S/9	8	OC3, OC12, Gigabit	Dual SC

### VERSAtap™

MODEL	PORTS	TOPOLOGY	CONNECTIVITY
4SY-SX+4C	4	Gigabit	Dual SC & LC

### WAN

MODEL	PORTS	TOPOLOGY	CONNECTIVITY
DS3AT1 (4) (8)	1 (4) (8)	DS3	BNC
DS3-AT	1	DS3	BNC
DS3/E3-PT	1	DS3/E3	BNC
E3-AT	1	E3	BNC
T1/E1-PT	1	T1/E1	RJ48

### VERSALink™

MODEL	PORTS	TOPOLOGY	CONNECTIVITY
1X4SY-SX+2C	1X4	Gigabit	Dual SC & LC
1X8SY-SX+2C	1X8	Gigabit	Dual SC & LC
2X4SY-SX+2C	2X4	Gigabit	Dual SC & LC
2X8SY-SX+2C	2X8	Gigabit	Dual SC & LC

### WAN

MODEL	PORTS	TOPOLOGY	CONNECTIVITY
W2358Dsl	2X8	WAN	DB15
WX8T1/E1sl	2X8	T1/E1	RJ48
WX16T1/E1sl	2X16	T1/E1	RJ48
D28100BTsl	1x8 • 1x8	10/100BaseT and WAN	RJ48 • DB15
DS3-8Csl	2X8	DS3	BNC
2X4SY-DS3/E3	2X4	DS3/E3	BNC

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



February 2004

Part Number: 541-0078-A.00

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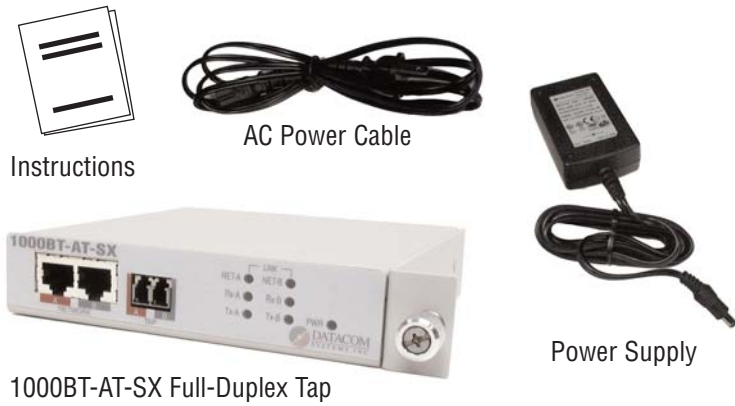
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## Warranty

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 an optional rack panel or ...



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



Three devices shown mounted in optional rack panel

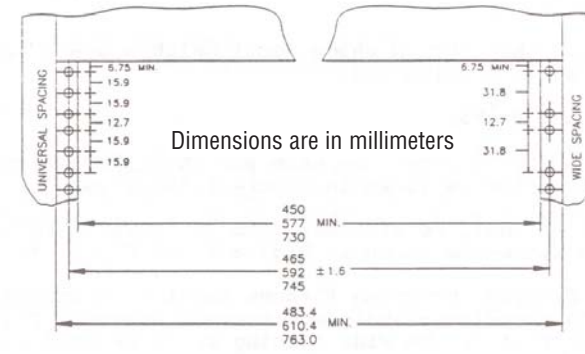
optional single mount rack bracket.



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.

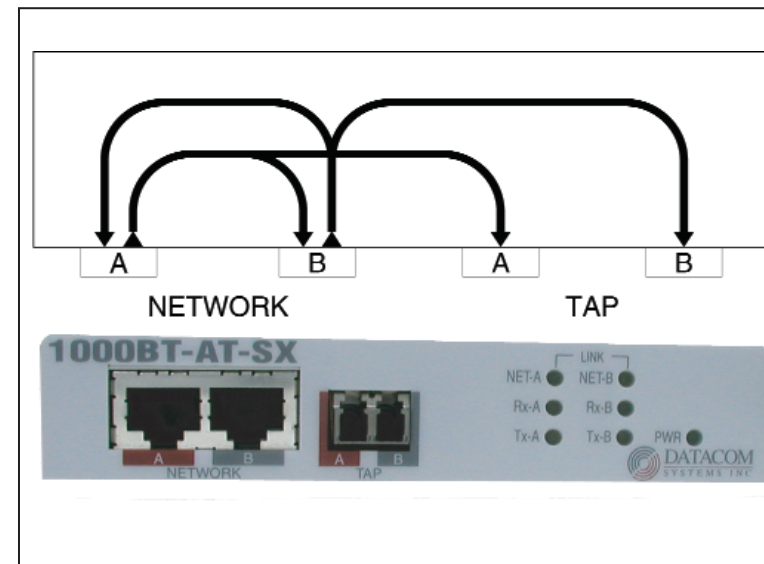


FIGURE 1 — 1000BT-AT-SX Functional Diagram

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

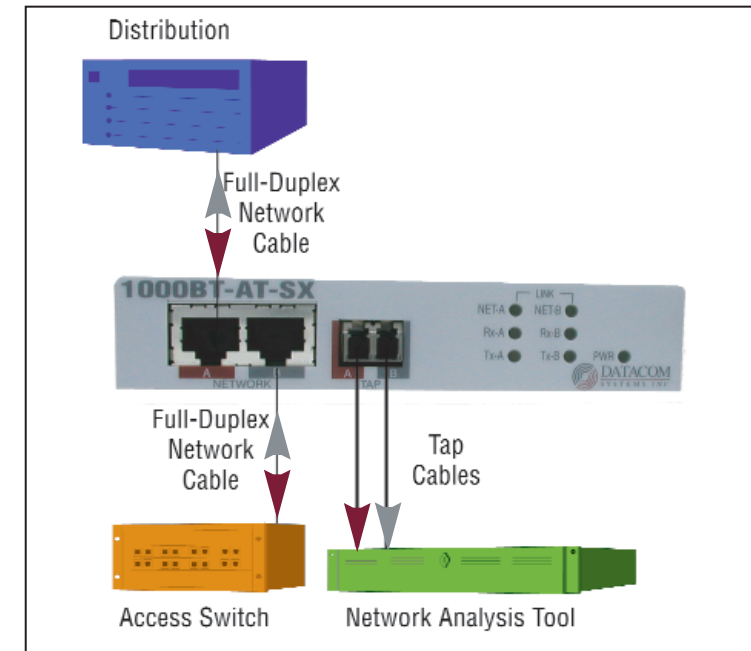


FIGURE 2 — 1000BT-AT-SX Simple Connectivity Diagram

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. 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.
2. Connect one of the network device cables to the 1000BT-AT-SX RJ45 port **NETWORK A** connector. The **NET-A LINK** LED illuminates indicating link has been established between the **NETWORK A** connector and NETWORK A device.
3. Connect the other network device cable to the 1000BT-AT-SX RJ45 port **NETWORK B** connector. The **NET-B LINK** LED illuminates indicating link has been established between the **NETWORK B** connector and NETWORK B device.

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.