MEDIA CONVERTER TECHNICAL SPECIFICATIONS

Standards	100BASE-SX, IEEE 802.3u		
Delay	400ns round trip		
Case dimensions	4.7" x 3.0" x 1.0"		(119mm x 76mm x 25mm)
Shipping Weight	3 lbs	(0.9 kg)	
Environment	Temperature: Humidity Altitude		0-40°C (32° to 100° F) 10-90%, non condensing 0-10,000 feet
Maximum number media converters in series:	2		
Warranty	Lifetime		

Power Supply Requirements Replace power supply with only the equivalent input rating (see below) and output rating (regulated 9VDC at 0.5 A).

<u>TN PN</u>	<u>Requirement</u>	Location
3525	240 volts, 50 hertz	United Kingdom
3525	230 volts, 50 hertz	Europe
3518	120 volts, 60 hertz	USA/Canada/Mexico
3514	100 volts, 50-60 hertz	Japan
3525	240 volts, 50 hertz	Australia

NOTE: This product also can be powered by the Transition Networks E-MCR series media converter rack.



CAUTION: RJ connectors are NOT INTENDED FOR CONNECTION TO THE PUBLIC TELEPHONE NETWORK. Failure to observe this caution could result in damage to the public telephone network.

Der Anschluss dieses Gerätes an ein öffentlickes Telekommunikationsnetz in den EG-Mitgliedstaaten verstösst gegen die jeweligen einzelstaatlichen Gesetze zur Anwendung der Richtlinie 91/263/EWG zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über Telekommunikationsendeinrichtungen einschliesslich der gegenseitigen Anerkennung ihrer Konformität.

Compliance Information

UL Listed C-UL Listed (Canada) CISPR/EN55022 Class A

FCC Regulations

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at the user's own expense.

Canadian Regulations

This digital apparatus does not exceed the Class A limits for radio noise for digital apparatus set out on the radio interference regulations of the Canadian Department of Communications.

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Minneapolis, MN 55344 USA

100BASE-TX/100BASE-SX Media Converters

850 Nanometer E-100BTX-SX-01, E-100BTX-SX-01(SC) USER'S GUIDE

The TRANSITION Networks Ethernet[™] E-100BTX-SX-01 series 100BASE-TX to 100BASE-SX media converters connect 100BASE-TX unshielded twisted pair cable to **850 nm** 100BASE-SX multimode fiber-optic cable, using either an ST connector (E-100BTX-SX-01) or an SC connector (E-100BTX-SX-01(SC)).

A four-positiion switch on the media converter allows selection of Autonegotiation, half-duplex or full-duplex, and/or Link Pass Through (LPT) /Remote Fault Detection (RFD). An MDI/MDI-X switch allows *straightthrough* twisted-pair cable to be used for *crossover* 100BASE-TX connections.

E-100BTX-SX-01

Provides an RJ-45 twisted pair 100BASE-TX connector and a set of RX (receive) and TX (transmit) **ST** 100BASE-SX connectors to **850 nm multimode** fiber-optic cable.





E-100BTX-SX-01(SC)

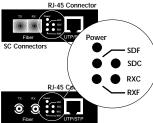
Provides an RJ-45 twisted pair 100BASE-TX connector and an RX (receive) and TX (transmit) SC 100BASE-SX connector to 850 nm multimode fiber-optic cable.



E-100BTX-SX-04(SC)

Status LEDs on the connector side of the media converters indicate:

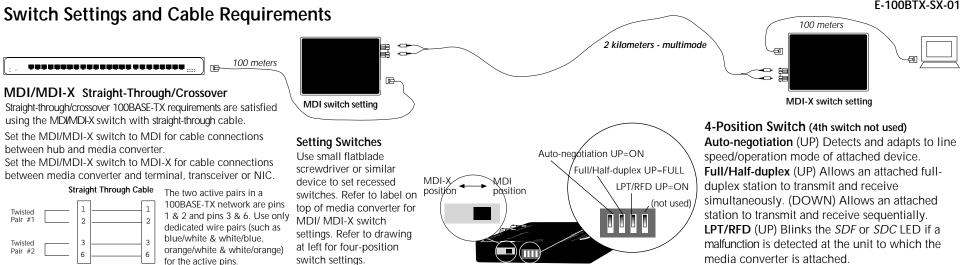
- Power Illuminated green LED indicates connection to external AC power.
- **SDF** Signal Detect/Fiber: Steady green LED indicates fiber port is connected to device.
- **SDC** Signal Detect/Copper: Steady green LED indicates RJ-45 port is connected to device.
- **RXC** Receive/Copper: Flashing green LED indicates packets are seen on RJ-45 port.
- **RXF** Receive/Fiber: Flashing green LED indicates



Download from Www.Somanuals.com. All Manuals Search After Strate as the port.

33064.C

ST Connectors



Installation Notes

- DO NOT CONNECT MEDIA CONVERTERS BETWEEN HUBS.
- KEEP TWISTED PAIR RUNS AS SHORT AS POSSIBLE.
- Be certain that the 100BASE-TX MDI/MDI-X switch is set correctly for site installation.
- Install unit with power supply unit provided. (Output 9 VDC regulated, 500 mA).
- Connect the power supply cable to the media converter BEFORE connecting to outlet.
- Install no more than two (2) media converters in series.

Troubleshooting the Media Converter

1. Is the power LED on the media converter illuminated?

NO

- Is the power adapter the proper type of voltage and cycle frequency for AC outlet? ٠
- Is the power adapter properly installed in the media converter and in the outlet?
- Contact Technical Support at (800) 260-1312/ (800) LAN-WANS. ٠

YFS

- Proceed to step 2.
- 2. Is the 100BASE-SX SDC LED illuminated?

NO

- ٠ Check UTP cables for proper connection and MDI/MDI-X switch position. (See above.)
- Contact Technical Support at (800) 260-1312/ (800) LAN-WANS.

YES

- Proceed to step 3.
- 3. Is the fiber SDF LED illuminated?

NO

YFS

- Check fiber cables for proper connection.
- Verify that TX and RX cables on media converter are connected to RX and TX ports, respectively, on the other 100BASE-SX device.
- Refer to Tech Tips available at: http://www.transition.com ٠
- Contact Technical Support at (800) 260-1312/0000 bar North Will Somanuals.com. All Manuals Search And Download. ٠

Ethernet Cable Specifications

Gauge Attenuation

Impedance

The physical characteristics of the media cable must meet or exceed IEEE 802.3u 100BASE-TX and IEEE 802.3z 100BASE-SX specifications.

100BASE-TX Cable Specifications

Category 5 wire or better is required. Either shielded twisted pair (STP) or unshielded twisted pair (UTP) can be used. DO NOT USE FLAT OR SILVER SATIN WIRE.

Category 5:

24 to 22 AWG 20 dB/1000' @ 10 MHz 100 Ω ±10% @ 10 MHz 100 meters (330 feet)

100BASE-SX Cable Specifications

Maximum Cable Distance:

MULTIMODE			
Fiber-optic Cable Recommend	led: 62.5 / 125 μm r	62.5 / 125 µm multimode fiber	
Optional:	50 / 125 μm	50 / 125 µm multimode fiber	
Modal bandwidth:	≤160MHz-Km		
Fiber-optic Transmitter Power:	min: -20 dBm	max: -12 dBm	
Fiber-optic Receiver Sensitivity	y: min: -24 dBm	max: -12 dBm	
Wavelength:	850nM		
Bit error rate:	<u>≤2.5</u> -10		
Maximum Cable Distance:	2-300 meters		

E-100BTX-SX-01

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