MEDIA CONVERTER TECHNICAL SPECIFICATIONS

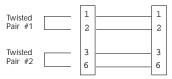
Standards	IEEE 802.3u	
Environment	Temperature: Humidity Altitude	0-40°C (32° to 104° F) 10-90%, non condensing 0-10,000 feet

Straight-through Cable Configuration

Straight-through/crossover 100BASE-TX requirements are satisfied using the MDI/MDI-X switch with straight-through cable.

Five years





The two active pairs in a 100BASE-TX network are pins 1 & 2 and pins 3 & 6. Use only dedicated wire pairs (such as blue/white & white/blue, orange/white & white/orange) for the active pins.



Warranty

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 B

FCC Regulations

This equipment has been tested and found to comply with the limits for a class B 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 B limits for radio noise for digital apparatus set out on the radio interference regulations of the Canadian Department of Communications.

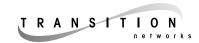
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Minneapolis, MN 55344 USA

100BASE-TX/100BASE-FX Slide-In-Module Media Converters

C/E-100BTX-FRL-03, C/E-100BTX-FRL-03(SC), C/E-100BTX-FRL-03(SM) **USER'S GUIDE**

The TRANSITION Networks 100BASE-TX to 100BASE-FX slide-in-module media converters, C/E-100BTX-FRL-03, C/E-100BTX-FRL-03(SC) and C/E-100BTX-FRL-03(SM), which are designed to be installed in the TRANSITION Networks Media Conversion Center, E-MCC-1600, connect 100BASE-TX unshielded twisted pair cable to 100BASE-FX multimode OR singlemode fiber-optic cable. All media converters function in halfduplex mode or, when connected to devices capable of full-duplex connectivity, in fullduplex mode. An MDI/MDI-X switch allows straight-through twisted-pair cable to be used for crossover 100BASE-TX connections.

C/E-100BTX-FRL-03

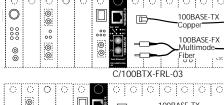
Provides an RJ-45 twisted pair 100BASE-TX connector and a set of RX (receive) and TX (transmit) ST 100BASE-FX connectors to multimode fiber-optic cable.

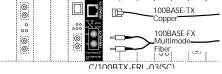
C/E-100BTX-FRL-03(SC)

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

C/E-100BTX-FRL-03(SM)

Provides an RJ-45 twisted pair 100BASE-TX connector and an RX (receive) and TX (transmit) SC 100BASE-FX connector to singlemode fiber-optic cable.

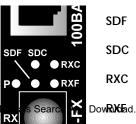








33044.C



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.
- Receive/Copper: Flashing green LED indicates packets RXC are seen on RJ-45 port.
 - Receive/Fiber: Flashing green LED indicates packets are seen on fiber port.

100BASE-FX CABLE CONNECTIONS

• Be certain that the correct **mode and wavelength** fiber cable is used for singlemode and/or for multimode fiber cable installations.

100BASE-TX CABLE CONNECTIONS

- Be certain that the MDI/MDI-X switch located *ON the Slide-In-Module circuit board* is set correctly *before installing Slide-In-Module in Media Conversion Center.* Cable connections between a hub and the media converter require the MDI/MDI-X switch to be set to MDI. Cable connections between the media converter and a terminal, transceiver or NIC require the switch to be set to MDI-X.
- Using small flatblade screwdriver or similar tool, set MDI/MDI-X switch position for site installation.
 Leave in default position MDI position
 MDI position
 MDI position
 MDI-X position

ETHERNET CABLE SPECIFICATIONS

The physical characteristics of the media cable must meet or exceed IEEE 802.3u 100BASE-TX and 100BASE-FX 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. Use a straight-through cable configuration *(see back page)*.

CATEGORY 5:

Gauge24 to 22 AWGAttenuation20 dB/1000' @ 10 MHzImpedance100 $\Omega \pm 10\%$ @ 10 MHzMaximum Cable Distance:100 meters (330 feet)

100BASE-FX CABLE SPECIFICATIONS

SINGLEMODE

Maximum Cable Distance:

Fiber-optic Cable Recommended: 9 µm singlemode fiber Fiber-optic Transmitter Power: min: -15.0 dBm max: -8.0 dBm Fiber-optic Receiver Sensitivity: min: -32.5 dBm max: -8.0 dBm Wavelength: 1300nM <10-9 Bit error rate: Maximum Cable Distance: 20 kilometers MULTIMODE Fiber-optic Cable Recommended: 62.5 / 125 µm multimode fiber 100 / 140 µm multimode fiber Optional: 85 / 125 µm multimode fiber 50 / 125 µm multimode fiber min: -19.0 dBm Fiber-optic Transmitter Power: max: -14.0 dBm min: -32.5 dBm Fiber-optic Receiver Sensitivity: max: -14.0 dBm Wavelength: 1300nM Bit error rate: ≤10⁻⁹

2 kilometers

Installing Slide-In-Module(s)

C/E-100BTX-FRL-03

CAUTION: Wear a grounding device and observe electrostatic discharge precautions when installing Media Converter Slide-in-Module(s) in the 16-Slot Media Conversion Center. Failure to observe this caution could result in damage to, and subsequent failure of, the Media Converter Slide-in-Module(s).

NOTE: Media Converter Slide-in-Modules can be installed in any installation slot, in any order.

To install the Media Converter Slide-in-Module in the E-MCC-1600 chassis:

- 1. Remove Media Converter Slide-in-Module protective plate from selected installation slot by removing two screws that secure plate to front of E-MCC-1600. Retain one installation screw.
- 2. Carefully slide Media Converter Slide-in-Module into installation slot, aligning Media Converter Slide-in-Module with installation guides. NOTE: Ensure that the Media Converter Slide-in-Module is firmly seated against the backplane.
- 3. Secure Slide-in-Module by installing retained installation screw.

Troubleshooting

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

NO

- Is the Slide-In-Module properly connected to the Media Conversion Center chasis backplane?
- Is the Power Supply Module properly connected both to the Media Conversion Center chasis backplane and to the AC outlet?
- Contact Technical Support at (800) 260-1312/ (800) LAN-WANS.

YES

- Proceed to step 2.
- 2. Is the 100BASE-TX Link LED illuminated?

NO

- Check UTP cables for proper connection and pin assignment. (See above.)
- Contact Technical Support at (800) 260-1312/ (800) LAN-WANS.

YES

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

NO

- 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-FX device.
- Refer to Tech Tips available at: http://www.transition.com
- Contact Technical Support at (800) 260-1312/ (800) LAN-WANS.
- YES

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