

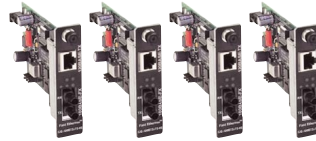
▶ FAST ETHERNET CONVERSION CENTER SLIDE-IN-MODULE MEDIA CONVERTERS

CONVERSION CENTER  
SLIDE-IN-MODULE  
MEDIA CONVERTERS

- ▶ FAST ETHERNET
- ▶ 100BASE-TX TO 100BASE-FX

Features

- Operates under heavy traffic loads without excess heat, so there is no need for a failure-prone internal fan.
- Round trip delay of only 40 bit times—far below the Class II rating of 92 bit times.
- Auto-Cross AutoCross technology eliminates an entire category of network troubleshooting by automatically matching crossed and uncrossed cables to the appropriate connection. The twisted pair port is instantaneously configured to the correct MDI or MDI-X configuration.
- N-Way Auto-Negotiation Only Transition Networks guarantees compatibility with any 10/100-compliant port. This feature allows you to force the proper port configuration through an external switch on the converter; unlike competitive products that ship



in auto-negotiation mode and may require both hardware and software configuration.

- Automatically detects and reports loss of link on a connection using Link Pass Through. This feature allows the equipment at the remote end of a link failure to "see" this failure and respond with corrective actions, such as Spanning Tree fail-over links, proprietary trunking links, or failure reports through SNMP or RMON procedures built into the switch, router or hub.
- Automatically detects faults in a link using Far End Fault. Ensures that link failures are reported properly to all devices on the network so that network problems can be diagnosed and corrected quickly.
- The converters will also automatically re-establish link when connected to two 10/100 auto-negotiating switches if link is lost. With other manufacturers' converters the user must intervene to re-establish link.
- Pause Transition Networks conversion products will pass PAUSE signaling unhindered; allowing devices which are pause enabled to operate properly.

Applications

Extend Network Distance in Full-Duplex Networks: Used in pairs, this media converter can extend distances between two twisted pair switches or a switch and a server up to 2,000 meters over multimode fiber or up to 80,000 meters over single mode fiber.

Connect Remote Devices: Using one media converter, a switch with a copper port can be connected to a switch with an existing fiber interface.

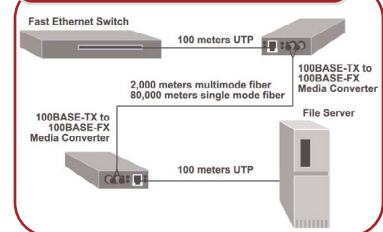
SPECIFICATIONS

Standards	IEEE 802.3 100BASE-FX, 100BASE-TX
Connectors	1 RJ-45 (100BASE-TX: 100 meters); 1 duplex fiber optic
Fiber Optic Connector Specs	
C/E-100BTX-FX-05	Min TX PWR: -19.0 dBm
& C/E-100BTX-FX-05(MT)	Max TX PWR: -14.0 dBm
& C/E-100BTX-FX-05(SC)	RX Sensitivity: -30.0 dBm
	Max In PWR: -14.0 dBm
	Link Budget: 11.0 dB
C/E-100BTX-FX-05(LH)	Min TX PWR: -8.0 dBm
	Max TX PWR: -2.0 dBm
	RX Sensitivity: -34.0 dBm
	Max In PWR: -7.0 dBm
	Link Budget: 26.0 dB
C/E-100BTX-FX-05(LW)	Min TX PWR: -5.0 dBm
& C/E-100BTX-FX-05(XL)	Max TX PWR: 0.0 dBm
	RX Sensitivity: -34.0 dBm
	Max In PWR: -7.0 dBm
	Link Budget: 29.0 dB
C/E-100BTX-FX-05(SM)	Min TX PWR: -15.0 dBm
	Max TX PWR: -8.0 dBm
	RX Sensitivity: -31.0 dBm
	Max In PWR: -8.0 dBm
	Link Budget: 16.0 dB
C/E-100BTX-FX-05 (SMLC)	Min TX PWR: -15.2 dBm
	Max TX PWR: -8.0 dBm
	RX Sensitivity: -32.5 dBm
	Max In PWR: -3.0 dBm
	Link Budget: 17.3 dB
Switches	SW1: Auto-Negotiation On/Off; SW2: Pause TX On/Off; SW3: LPT On/Off; SW4: FEF On/Off
Jumpers	Jumper Block 1: Auto Cross enable
Unit LED	Power: Lit for normal operation
Port LEDs	FACT (Fiber Activity): Blinking indicates activity; FLNK (Fiber Link): Lit indicates Link; TPACT (Twisted Pair Activity): Blinking indicates activity; TPLNK (Twisted Pair Link): Lit indicates Link
Dimensions	Width: 1.0" (25 mm); Depth: 4.7" (119 mm); Height: 3.0" (76 mm)
Power	Supplied by Conversion Center Chassis
Environment	0 – 50° C; 5% – 95% humidity non-condensing; 0 – 10,000 feet altitude
Shipping Weight	2 lbs. (.9 kg)
Compliance	UL Listed; FCC Class A; EN55024; EN55022 Class A; EN61000; CE Mark
Warranty	Lifetime

ORDERING INFO

Product Number	Port One	Port Two
C/E-100BTX-FX-05	100BASE-TX (RJ-45)	100BASE-FX 1300nm MM (ST) ▶ 2 KM
C/E-100BTX-FX-05(LH)	100BASE-TX (RJ-45)	100BASE-FX 1300nm SM (SC) ▶ 40 KM
C/E-100BTX-FX-05 (LW)	100BASE-TX (RJ-45)	100BASE-FX 1550nm SM (SC) ▶ 80 KM
C/E-100BTX-FX-05 (MT)	100BASE-TX (RJ-45)	100BASE-FX 1300nm MM (MT-RJ) ▶ 2 KM
C/E-100BTX-FX-05(SC)	100BASE-TX (RJ-45)	100BASE-FX 1300nm MM (SC) ▶ 2 KM
C/E-100BTX-FX-05 (SM)	100BASE-TX (RJ-45)	100BASE-FX 1300nm SM (SC) ▶ 20 KM
C/E-100BTX-FX-05 (SMLC)	100BASE-TX (RJ-45)	100BASE-FX 1300nm SM (LC) ▶ 20 KM
C/E-100BTX-FX-05(XL)	100BASE-TX (RJ-45)	100BASE-FX 1300nm SM (SC) ▶ 60 KM

▶ EXTEND NETWORK DISTANCE



3/02  
Technical information subject to change without notice.