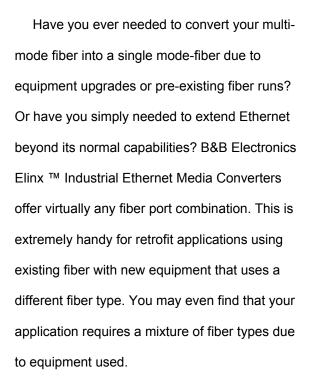**PRODUCT INFORMATION**

B&B ELECTRONICS

EIR102 Series
Industrial Ethernet Media Converter

- ✓ 10 to 48 VDC External Power Input
- ✓ Removable Terminal Blocks
- ✓ Multi-mode or Single-mode Fiber
- ✓ Virtually any Port Combination
- ✓ Easy DIP Switch Control for:
  - o 10/100 Mbps - Auto or Forced
  - o Full/Half Duplex - Auto or Forced
  - o Link Fault Pass Through - Enable or Disable
  - o Snooping Mode – Store & Forward or Forward All

Have you ever needed to convert your multi-mode fiber into a single mode-fiber due to equipment upgrades or pre-existing fiber runs? Or have you simply needed to extend Ethernet beyond its normal capabilities? B&B Electronics Elinx ™ Industrial Ethernet Media Converters offer virtually any fiber port combination. This is extremely handy for retrofit applications using existing fiber with new equipment that uses a different fiber type. You may even find that your application requires a mixture of fiber types due to equipment used.

Elinx ™ Industrial Media Converters can also be used for Ethernet extension, noise immunity, and protection against surges and spikes.

Ordering Information			
Model Number	10/100 Copper	Multi-Mode Fiber	Single-mode Fiber
EIR102-MT	1	1 (ST)	
EIR102-MC	1	1 (SC)	
EIR102-SC	1		1 (SC)
EIR102-ST	1		1 (ST)
EIR102-SC40	1		1 (SC) 40km
EIR102-ST40	1		1 (ST) 40 km
EIR102-SC80	1		1 (SC) 80km
EIR102-ST80	1		1 (ST) 80 km
EIR102-MT-SC	1 (ST)		1 (SC)
EIR102-MT-ST	1 (ST)		1 (ST)
EIR102-MC-SC	1 (SC)		1 (SC)
EIR102-MC-ST	1 (SC)		1 (ST)

These are only our most popular variations. Visit www.bb-elec.com/ElinxConfigurator to configure to configure your Media Converter with virtually any port combination

Accessory Items	
MDR-20-24	DIN Rail Mount, 24 VDC, 1 A Power Supply
MDR-40-24	DIN Rail Mount, 24 VDC, 1.7 A Power Supply
DRPM25	Panel Mount Adapter

We also offer a full line of Fiber Optic and RJ-45 Patch Cables

B&B electronics MANUFACTURING COMPANY

Specifications

Technology

Standards:	IEEE802.3, 802.3u, 802.3x
Processing Type:	Store and forward with IEEE802.3x full duplex, non-blocking flow control
Flow Control:	IEEE802.3x flow control, back pressure flow control
Packet buffer memory:	48 K bytes
Address Table Size	2K MAC Addresses

Interface

RJ45 Ports:	10/100BaseT(x) auto negation, Full/Half duplex, auto MDI/MDI-connection
Fiber Ports:	100BaseFX ports (multi-mode or single-mode with ST or SC connector)
LED Indicators:	Power and activity

Fiber Optics

Model	Distance	Wavelength	Output Power	Sensitivity
EIR102-Mx	2 km	1310 nm	⁻19 to ⁻30 dBm	≤ - 32 dBm
EIR102-Sx	15 km	1310 nm FP	⁻15 to ⁻8 dBm	≤ - 32 dBm
EIR102-Sx40	40 km	1310 nm FP	⁻5 to 0 dBm	≤ - 34 dBm
EIR102-Sx80	80 km	1550 nm DFB	⁻5 to 0 dBm	≤ - 34 dBm

Note: Specifications for mixed fiber optic models are combinations of the above

Power

Input Voltage	10 to 48 VDC
Power Use	2.5 W
Input Connection	Removable Terminal Block
Protection	Reverse Polarity Protection
Wiring Information	14 to 22 AWG, Solid Copper, 1.7 lb-in torque, Wire temp rating 105 C Minimum, sized for 60 C Ampacity

Environmental

Op. Temperature	32 to 140 °F (0 to 60°C)
Storage Temperature	-40 to 176 °F (-40 to 80 °C)
Op. Humidity	0 to 95% Non-condensing
MTBF (fiber / fiber)	269729 hours
MTBF (fiber / copper)	292645 hours

Mechanical

Enclosure	IP 30 Plastic Case
Dimensions (ST)	5.0x1.2x3.5 in (12.8x3.0x9.0 cm)
Dimensions (SC)	5.0x1.2x3.1 in (12.8x3.0x8.0 cm)
Installation	35mm DIN Rail Mount

Regulatory Approvals

CE, FCC, UL
CE/FCC DoC Available for Download
UL File – E222870
RoHS - Yes

PRODUCT INFORMATION

B&B ELECTRONICS

B&B electronics
MANUFACTURING COMPANY

PRODUCT INFORMATION

B&B ELECTRONICS

NOTES:

A – FLEXIBLE PORT OPTION, FIBER OPTIC ST SHOWN

B – FLEXIBLE PORT OPTION, RJ-45 SHOWN

C – MODELS WITH 2 FIBER OPTIC CONNECTORS HAVE A 4 POSITION DIP SWITCH

TITLED: EIR102 SERIES MEDIA CONVERTERS (EIR102-MT SHOWN)

REV A

SHEET 1 OF 1

SIZE B

SCALE: 1:1

(Ⓖ) DESIGNED TO FIT ON A STANDARD 35mm DIN RAIL

5.213

4.700

3.160

3.885

1.164

1.3976

.140

.100

International Headquarters: 815-433-5100 Fax 433-5104 *www.bb-elec.com*
European Headquarters: +353 91 792444 Fax +353 91 792445 *www.bb-europe.com*

B&B electronics
MANUFACTURING COMPANY