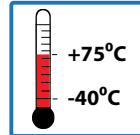


HARDENED 2 PORT MEDIA CONVERTER
1 PORT 10/100TX (RJ45) + 1 PORT FIXED OPTIC, 1 FIBER**MEDIA CONVERTER****FEATURES**

- 10/100 Base-T Ethernet Auto-negotiation
- Full Duplex or Half-duplex Supported
- IEEE 802.3 Compliant
- Environmentally Hardened for Wide Temperature Applications
- FC and ST Optical Connectors Standard
- Distances Up To 50km
- Wide Optical Dynamic Range
- Supports Single Fiber Communications
- 12 to 24VAC/VDC operation

DESCRIPTION

The MXA/MXB-1R-2/5 (stand-alone modules) are Media converters designed for bi-directional transmission of 10Base-T Ethernet / 100Base-T Fast Ethernet data over one multimode or singlemode fiber. Auto-negotiation eliminates the need for any internal adjustments or settings. Distances of 50km can be obtained using singlemode fiber. The MXA/MXB-1R-2/5 is environmentally hardened and will operate over the standard NEMA TS-2 temperature range - suitable for outdoor installations. LEDs on the module indicate the status of power, link speed, activity, laser current and optical signal. Standard shielded RJ-45 connectors are provided for CAT5 compliance. Optical interfaces are available with either ST or FC connectors.

SPECIFICATIONS

Physical Ports	
10/100 Base-T(X) Port in RJ45 Auto MDI/MDIX	1
ST, FC, SC	1
Technology	
Ethernet Standards	IEEE 802.3 CSMA/CD IEEE 802.3i 10Base-T IEEE 802.3u 100Base-T
Data Rate	10/100 Mb/s
Fiber Data Rate	125 Mb/s
LED indicators	
Rx Optic	Off (normal), Green – Optical signal absent
Tx Error	Off (normal), Green - Laser driver error
RX100	Green – when receiving 100 Base-T data
TX100	Green – when transmitting 100 Base-T data
RX10	Green – when receiving 10 Base-T data
TX10	Green – when transmitting 10 Base-T data

RX Data	Green flashing (normal) when data is being received into module
TX Data	Green flashing (normal) when data is being transmitted out of module
Power	
Input Power	12~24 VAC/VDC voltage power input at 2-pin terminal block
Power Consumption (Typ.)	4 Watts
Overload Current Protection	Yes
Reverse polarity protection	Yes
Physical Characteristic	
Enclosure	IP-30
Dimension (W x D x H)	90(W) x 60 (D) x 25 (H) mm (3.5x 2.3 x1 inch)
Weight	213g (0.5lb)
Environmental	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-40 to 75°C (-40 to 167°F)
Operating Humidity	5% to 95% Non-condensing

Optical Specifications

Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Multimode (FP Laser) 62.5 / 125	-6	-27	21	1300 / 850	ST	24
Singlemode (FP Laser) 9 / 125	-6	-27	21	1310 / 1550	ST, FC	24

Ordering Information

Products	Part Number	Description
	MXA-1R-2ST	10/100 Media converter w/ST multimode optical port, Tx @ 1300nm, Rx @ 850nm
	MXB-1R-2ST	10/100 Media converter w/ST multimode optical port, Tx @ 850nm, Rx @ 1300nm
	MXA-1R-5FC	10/100 Media converter w/FC singlemode optical port, Tx @ 1310nm, Rx @ 1550nm
	MXB-1R-5FC	10/100 Media converter w/FC singlemode optical port, Tx @ 1550nm, Rx @ 1310nm
	MXA-1R-5ST	10/100 Media converter w/ST singlemode optical port, Tx @ 1310nm, Rx @ 1550nm
	MXB-1R-5ST	10/100 Media converter w/ST singlemode optical port, Tx @ 1550nm, Rx @ 1310nm
Power supplies	WP-24A	24VAC @ 20VA
	PSH24DC24	24VDC @ 1 Amp (24 Watts)
	PSH24DC40	24VDC @ 1.7 Amps (40 Watts)

Packing List

Media converter	1
Quick Installation Guide	1