

HARDENED 2 PORT MEDIA CONVERTER
1 PORT 10/100TX (RJ45) + w/CWDM TRANSMIT OPTICS, 2 FIBER



MEDIA CONVERTER

FEATURES

- CWDM transmit optics from 1270 through 1610nm
- 10/100 Base-T Ethernet Auto-negotiation
- Full Duplex or Half-duplex Supported
- IEEE 802.3 Compliant
- Laser Based Systems for Multimode & Singlemode
- FC and ST Optical Connectors Standard, SC Optional
- Distances Up To 60km
- Hot Swappable Rack Cards

DESCRIPTION

The SX-1R-CWDM (1-slot rack-mount cards) are Media converters designed for bi-directional transmission of 10Base-T Ethernet / 100Base-T Fast Ethernet data over two singlemode fibers using CWDM transmit optics. Auto-negotiation eliminates the need for any internal adjustments or settings. Distances of 60km can be obtained using singlemode fiber. LEDs on the card indicate the status of power, link speed, activity, laser current and optical signal. Standard shielded RJ-45 connectors are provided for CAT5 compatibility. Optical connector options include ST, FC and SC. These units are available in either module or rack mount types.

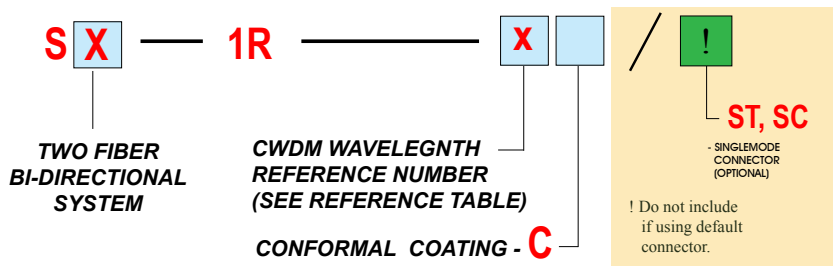
SPECIFICATIONS

Physical Ports		Power	
10/100 Base-T(X) Port in RJ45 Auto MDI/MDIX	1	Power Consumption (Typ.)	4 Watts
FC (default), ST, SC connectors	2	Overload Current Protection	Yes
Technology		Physical Characteristic	
Ethernet Standards	IEEE 802.3 CSMA/CD IEEE 802.3i 10Base-T IEEE 802.3u 100Base-T	Enclosure	Rack Card
Data Rate	10/100 Mb/s	Dimension (W x D x H)	20 (W) x 127 (D) x 160 (H) mm (0.8 x 5.0 x 6.3 inch)
Fiber Data Rate	125 Mb/s	Weight (g)	450 g (1 lb)
CWDM transmit optics	Industry standard CWDM wavelengths from 1270 through 1610nm	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
LED indicators			
Power / Diagnostic	1 - Green (Power On), Flashing Green (Diag. Active), Red (Diag. Error)		
Tx 10 Base-T(X)	1 - Green		
Rx 10 Base-T(X)	1 - Green		
Tx 100 Base-T(X)	1 - Green		
Rx 100 Base-T(X)	1 - Green		
Tx Activity	1 - Green		
Rx Activity	1 - Green		

Optical Specifications								
Optical Code	Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)	Estimated Transmission Distance (km)
CWDM REFERENCE NUMBER	Singlemode (FP Laser) 9 / 125	-5	-26	21	1270-1610nm	FC, SC	24	60

REFERENCE NUMBER	WAVELEGNTH
27	CWDM, 1270 nm DFB Laser
29	CWDM, 1290 nm DFB Laser
31	CWDM, 1310 nm DFB Laser
33	CWDM, 1330 nm DFB Laser
35	CWDM, 1350 nm DFB Laser
37	CWDM, 1370 nm DFB Laser
39	CWDM, 1390 nm DFB Laser
41	CWDM, 1410 nm DFB Laser
47	CWDM, 1470 nm DFB Laser
49	CWDM, 1490 nm DFB Laser
51	CWDM, 1510 nm DFB Laser
53	CWDM, 1530 nm DFB Laser
55	CWDM, 1550 nm DFB Laser
57	CWDM, 1570 nm DFB Laser
59	CWDM, 1590 nm DFB Laser
61	CWDM, 1610 nm DFB Laser

Part Numbers:



Packing List	
Media Converter	1
Quick Installation Guide	1