

PRODUCT SPECIFICATION SHEET

Product Name: Media Converter with Link Fault Signaling

Specifications	
Applicable Standards	IEEE 802.3 10BaseT; IEEE 802.3u 100BaseTX; IEEE 802.3u 100BaseFX
Fixed Ports	
For Models SX-065-1100 / 1110 / 1172 / 1174 / 1120 / 1120ES / 1120XLD	One (1) Auto-MDIX twisted-pair port meeting IEEE 802.3 10BaseT & IEEE 802.3u 100BaseTX standard specifications; Category 5 or better cable, 100 meters maximum distance for 100BaseTX, Category 3 or better cable, 100 meters maximum distance for 10BaseT
Plus	One (1) fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 62.5/125 or 50/125 micron multimode fiber optic cable, 2,000 meters maximum distance
Or (SX-065-1120)	One (1) fiber optic port meeting IEEE 802.3u 100BaseFX standard specifications; 9/125 micron singlemode fiber optic cable, spanning: 15km maximum distance
Or (SX-065-1120ED)	One (1) fiber optic port meeting IEEE 802.3u 100BaseFX standard specifications; 9/125 micron singlemode fiber optic cable, spanning: 40km maximum distance
LED Indicators	Per Unit: Power Status, RJ-45 port speed
	Per Port: LNK/ACT, FDX/COL
	Six LEDs total
Performance	
Latency	< 4.2 μ s (LIFO)
Throughput @ 100Base	148,809 pps (64-byte packets)
Speed	100BaseTX: 100/200 Mbps for half/full duplex
	100BaseT: 10/20 Mbps for half/full duplex
Switching Method	Store-and-Forward
Maximum MAC Addresses	1,024 entries
Memory	256 KB
Fiber Interface, Multimode Models	
Type	LED
Wavelength	1300 nm nominal (1270 nm maximum, 1380 nm minimum)
Maximum Output Power	- 14.0 dBm
Minimum Output Power	- 20.0 dBm
Sensitivity	-33.0 dBm
Maximum Input Power	- 8.0 dBm
Link Power Budget	13.0 dB

Fiber Interface, Singlemode (SX-065-1120)

Type	MQW Laser
Wavelength	1300 nm nominal (1260 nm maximum, 1360 nm minimum)
Maximum Output Power	- 7.0 dBm
Minimum Output Power	- 15.0 dBm
Sensitivity	-34.0 dBm
Maximum Input Power	- 7.0 dBm
Link Power Budget	19.0 dB

Fiber Interface, Singlemode (SX-065-1120ED)

Type	MQW Laser
Wavelength	1300 nm nominal (1261 nm maximum, 1360 nm minimum)
Maximum Output Power	- 5.0 dBm
Minimum Output Power	- 12.0 dBm
Sensitivity	-35.0 dBm
Maximum Input Power	- 5.0 dBm
Link Power Budget	23.0 dB

Fiber Interface, Singlemode

Type	MQW Laser
Wavelength	1300 nm nominal (1270 maximum, 1350 nm minimum)
Maximum Output Power	+ 3.0 dBm
Minimum Output Power	- 3.0 dBm
Sensitivity	-37.0 dBm
Maximum Input Power	- 0.0 dBm
Link Power Budget	34.0 dB

Physical Characteristics

Case Dimensions	4.33" L x 3.19" W x 0.91" H [110mm x 81mm x 23mm]
Weight	0.33 lbs [150 g]

Environmental Characteristics

Operating Temperature	32° F - 104° F (0° C - 40° C)
Storage Temperature	-13° F - 158° F (-25° C - 70° C)
Relative Humidity	10 - 90%, non-condensing

Power	
External Power Adapter	12 Volts DC; 600 mA
Power Consumption	5 Watts Maximum
Emissions	FCC Part 15 Class A, CISPR Class A, VCCI Class A, CE Mark
Safety	UL Listed
Warranty	Lifetime