

Switching Fiber Converters

Signamax Connectivity Systems' Switching Media Converters provide an intelligent solution for long distance connections between legacy 10BaseT networks and the newer 100Base Fast Ethernet or 1000Base Gigabit Ethernet networks. These converters are designed to handle a wide variety of fiber optic network applications and eliminate the 412 meter distance limitation when connecting hub-based sub-networks at 100BaseFX. They also extend the maximum Single Mode fiber distance, spanning over 75 km with the 065-1120XLD model.

Built-in 10/100 or 10/100/1000 switch enables the fiber cable connection to operate at 100 Mbps connected to either a 10BaseT or a 100BaseTX network, while remaining completely 100BaseFX or 1000BaseSX standard-compliant. Fiber connection can also operate in full duplex mode whether the RJ45 port is connected to a full duplex switch or a half duplex hub.

Each Media Converter provides a 10/100BaseT/TX auto-negotiating RJ45 twisted-pair connector port featuring store-and-forward switching architecture. Built-in switch does the network segmentation to provide the maximum fiber distance. Now with Auto-MDIX capability on the twisted-pair port for more convenient connection. Each Media Converter is also equipped with LFS (Link Fault Signaling) feature.



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PART NO.	DESCRIPTION	FIBER TYPE
065-1100	10/100BaseT/TX to 100BaseFX Converter	ST Multi Mode
065-1110	10/100BaseT/TX to 100BaseFX Converter	SC Multi Mode
065-1170	10/100BaseT/TX to 100BaseFX Converter	VF45 Multi Mode
065-1172	10/100BaseT/TX to 100BaseFX Converter	MTRJ Multi Mode
065-1174	10/100BaseT/TX to 100BaseFX Converter	LC Multi Mode
065-1120A	10/100BaseT/TX to 100BaseFX Converter	SC Single Mode (15 km span)
065-1120ED	10/100BaseT/TX to 100BaseFX Converter	SC Single Mode (40 km span)
065-1120XLD	10/100BaseT/TX to 100BaseFX Converter	SC Single Mode (75 km span)
065-11DINMT	DIN rail mounting bracket for 065-11xx series media converters	

SPECIFICATIONS

APPLICABLE STANDARDS

IEEE 802.3 10BaseT
 IEEE 802.3u 100BaseTX
 IEEE 802.3u 100BaseFX
 IEEE 802.3ab 1000BaseT
 IEEE 802.3z 1000BaseSX

FIXED PORTS

Models 065-1100/1110/1170/1172/1174/1120/1120ED/1120XLD:

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

1 fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 62.5/125 or 50/125 micron Multi Mode fiber optic cable, 2,000 meters maximum distance

or

1 fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 9/125 micron Single Mode fiber optic cable, spanning: 15 kilometers maximum distance (model 065-1120)

or

40 kilometers maximum distance (model 065-1120ED)

or

75 kilometers maximum distance (model 065-1120XLD)

PERFORMANCE

Latency: < 4.2 μ s (LIFO)

Throughput @ 100Base: 148,809 pps

Throughput @ 1000Base: 1,488,100 pps (64-byte packets)

LEDs

Per unit: Power status, RJ45 port speed

Per Port: LNK/ACT, FDX/COL

Six LEDs total

PHYSICAL CHARACTERISTICS

Case dimensions (L x W x H):

110 x 81 x 23 mm (4.33 x 3.19 x 0.91")

Fiber connector interface varies with model.

Weight: 150 grams

SAFETY

UL Listed



Model 065-1100



Model 065-1110



Model 065-1170



Model 065-1172



Model 065-1174