

Switching Converters with Link Fault Signaling

Signamax Connectivity Systems' Switching Media Converters with Link Fault Signaling provide the means for an SNMP-Managed switch to recognize a failure on a fiber channel or twisted-pair connection, enabling the switch to automatically route to a backup path if the connected switch is equipped with Spanning Tree Algorithm. This intelligence maximizes the power of managed switches, and enables fail-safe design solutions for complex networks. These converters also extend the maximum singlemode fiber distance, spanning over 75 km with the 065-1120XLDLFS model.

The built-in 10/100 switch enables the fiber optic connection to operate at 100 Mbps connected to either a 10BaseT or a 100BaseTX network, while remaining completely 100BaseFX standard-compliant. Fiber optic connection can also operate in full duplex mode whether the RJ45 port is connected to a full duplex switch or a half duplex hub, with the built-in switch providing the network segmentation that permits the maximum fiber distance. Each Media Converter provides a 10/100BaseT/TX auto-negotiating RJ45 twisted-pair interface featuring store-and-forward switching architecture. Auto-MDIX capability on the twisted-pair port allows for convenient connections.

The USB power connector on the rear panel provides additional power options where AC power outlets are unavailable.



10/100BaseT/TX Switching Converters with Link Fault Signaling

PART NO.	DESCRIPTION	FIBER TYPE
065-1100LFS	10/100BaseT/TX to 100BaseFX Converter	ST Multimode
065-1110LFS	10/100BaseT/TX to 100BaseFX Converter	SC Multimode
065-1170LFS	10/100BaseT/TX to 100BaseFX Converter	VF45 Multimode
065-1172LFS	10/100BaseT/TX to 100BaseFX Converter	MTRJ Multimode
065-1174LFS	10/100BaseT/TX to 100BaseFX Converter	LC Multimode
065-1120LFS	10/100BaseT/TX to 100BaseFX Converter	SC Singlemode (15 km span)
065-1120EDLFS	10/100BaseT/TX to 100BaseFX Converter	SC Singlemode (40 km span)
065-1120XLDLFS	10/100BaseT/TX to 100BaseFX Converter	SC Singlemode (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

FIXED PORTS

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 multimode fiber optic cable, 2,000 meters maximum distance

or

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

or

40 kilometers maximum distance (model 065-1120EDLFS)

or

75 kilometers maximum distance (model 065-1120XDLFS)

PERFORMANCE

Latency: < 4.2 μ s (LIFO)

Throughput @ 100Base: 148,809 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):

4.33" x 3.19" x 0.9"

(110 mm x 81 mm x 23 mm)

Fiber optic interface varies with model.

Weight: 0.33 pounds (150 grams)

USB power connector on the rear panel optionally powers converter from computer's USB port.

SAFETY

UL Listed



Model 065-1100LFS



Model 065-1110LFS



Model 065-1170LFS



Model 065-1172LFS



Model 065-1174LFS



Model 065-1110LFS
(rear panel view)