

10/100/1000 Switching Fiber Optic Media Converters

Signamax Connectivity Systems' 10/100/1000 Switching Media Converter provides an intelligent solution for long distance connections between legacy 10BaseT and 100BaseTX networks and the newer 1000Base Gigabit Ethernet networks. The built-in 10/100/1000 switch enables the fiber optic connection to operate at 1,000 Mbps connected to either a 10BaseT, 100BaseTX, or a 1000BaseT network, while remaining completely 1000BaseSX standard-compliant for the fiber optic connection. The 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 model 065-1196 Media Converter provides a 10/100/1000BaseT/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. Auto-MDIX capability on the twisted-pair port allows convenient connection.



Model 065-1196

10/100/1000 Switching Fiber Optic Media Converters

| PART NO. | DESCRIPTION |
|--------------|--|
| 065-1196 | 10/100/1000BaseT/TX to 1000BaseSX, Multi Mode/SC |
| 065-1196LX | 10/100/1000BaseT/TX to 1000BaseLX, Single Mode/SC (10 km span) |
| 065-1196LXED | 10/100/1000BaseT/TX to 1000BaseLX, Single Mode/SC (20 km span) |

SPECIFICATIONS

APPLICABLE STANDARDS

IEEE 802.3 10BaseT
 IEEE 802.3u 100BaseTX
 IEEE 802.3ab 1000BaseT
 IEEE 802.3z 1000BaseSX/LX

FIXED PORTS

1 Auto-MDIX twisted-pair port meeting IEEE 802.3 10BaseT, IEEE 802.3u 100BaseTX & IEEE 802.3ab 1000BaseT standard specifications; Category 5e or better cable, 100 meters maximum distance for 1000BaseT, 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 802.3z 1000BaseSX standard specification; 62.5/125 micron Multi Mode fiber optic cable, 220 meters maximum distance, or 50/125 micron Multi Mode fiber optic cable, 550 meters maximum distance (model 065-1196) **or**
 1 fiber optic port meeting IEEE 802.3z 1000BaseLX standard specification; 9 micron Single Mode fiber optic cable, 10 km maximum distance (model 065-1196LX) **or**
 1 fiber optic port meeting IEEE 802.3z 1000BaseLX standard specification; 9 micron Single Mode fiber optic cable, 20 km maximum distance (model 065-1196LXED)

PERFORMANCE

Latency: < 4.2 μ s (LIFO)
Throughput @ 100Base: 148,809 pps (64-byte packets)
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 optic interface varies with model.
Weight: 150 grams

SAFETY

UL Listed