



Media Converters- 065-1196



10/100/1000BaseT/TX To 1000BaseSX/LX Converters

 [Download Datasheet](#) (PDF 98.2 Kb) Revised 11.20.07

 [Download User's Guide](#) (PDF 150 Kb) Revised 10.30.03

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 cable connection to operate at 1000 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 RJ-45 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 RJ-45 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.

KEY FEATURES

- Built-in Twisted-Pair Port 10/100/1000 Switch With Store-and-Forward Architecture
- Auto-Negotiation RJ-45 Connector w/Auto-MDIX
- LEDs for Functions, Links & Activity
- Singlemode Spans up to 20 Km
- Wall or Chassis-mountable
- Lifetime Performance Warranty

ORDERING INFORMATION

Part Number	Description
065-1196	10/100/1000BaseT/TX to 1000BaseSX Media Converter SC Multimode, 220m Span on 62.5µm Fiber / 550m Span on 50µm Fiber
065-1196LX	10/100/1000BaseT/TX to 1000BaseLX Media Converter SC Singlemode, 10 km Span
065-1196LXED	10/100/1000BaseT/TX to 1000BaseLX Media Converter SC Singlemode, 20 km Span

DIN Rail Mounting Brackets

065-11DINMT DIN Rail Mounts Bracket for 065-11xx Series Media Converters

SPECIFICATIONS

• APPLICABLE STANDARDS

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

• 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 multimode fiber optic cable, 220 meters maximum distance, or 50/125 micron multimode fiber optic cable, 550 meters maximum distance

or

1 fiber optic port meeting IEEE 802.3z 1000BaseLX standard specification; 9/125 micron singlemode fiber optic cable, 10 kilometers maximum distance

or

1 fiber optic port meeting IEEE 802.3z 1000BaseLX standard specification; 9/125 micron singlemode fiber optic cable, 20 kilometers maximum distance

• PERFORMANCE

Latency: < 4.2 µs (LIFO)

Throughput @ 100Base: 148,810 pps (64-byte packets)

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

• FIBER INTERFACE, MULTIMODE PN 065-1196

Type: Laser Diode

Wavelength: 850 nm nominal.

Maximum Output: - 4.0 dBm

Minimum Output Power: - 9.5

Sensitivity: -13.5 dBm

Maximum Input Power: - 13.5

Link Power Budget: 4.0 dB

• FIBER INTERFACE, SINGLEMODE PN 065-1196LX

Type: MQW Laser

Wavelength: 1300 nm nominal (1270 nm maximum, 1355 nm minimum)

Maximum Output Power: - 3.0 dBm

Minimum Output Power: - 11.0 dBm

Sensitivity: -22.0 dBm

Maximum Input Power: - 3.0 dBm

Link Power Budget: 11.0 dB

• FIBER INTERFACE, SINGLEMODE PN 065-1196LXED

Type: MQW Laser

Wavelength: 1300 nm nominal (1261 nm maximum, 1360 nm minimum)

Maximum Output Power: - 3.0 dBm

Minimum Output Power: - 8.0 dBm

Sensitivity: -22.0 dBm

Maximum Input Power: - 3.0 dBm

Link Power Budget: 14.0 dB

- **LED INDICATORS**

Per Unit: Power status, RJ-45 100 port speed, RJ-45 1000 port speed, RJ-45 FDX indicator

Per Port: LNK/ACT

Six LEDs total

- **PHYSICAL CHARACTERISTICS**

Case dimensions:

4.33"L x 3.19"W x 0.91"H (110mm x 81mm x 23mm)

Fiber connector protrusion varies with model.

Weight: 0.33 pounds (150 grams)

- **SAFETY**

UL Listed