

Gigabit Ethernet Media Converters



Signamax Connectivity Systems' Gigabit Ethernet Media Converters make it simple to extend distances over multimode or singlemode fiber. They are designed to expand the scope of your Gigabit Ethernet network applications and are 100% compliant with Ethernet IEEE 802.3ab and 802.3z specifications. These converters maintain the same form factor as other Signamax media converters, allowing use in the 065-1185 16-Bay Signamax Rack Mount Chassis. Twisted pair to fiber optic converters for both multimode and singlemode fiber, multimode to singlemode converters, and singlemode to singlemode extenders are available.

KEY FEATURES

- Converts Twisted-Pair to Fiber or Singlemode Fiber to Multimode Fiber at Gigabit Speed
- Auto-MDIX for Twisted-Pair
- LEDs for Functions, Links & Activity
- Rack Mount or Standalone Operation
- IEEE 802.3z & 802.3ab Compliant
- FCC Class A & CE Approved
- Lifetime Performance Warranty

ORDERING INFORMATION

Part Number	Description
065-1194	1000SX to 1000LX, MM/SC to SM/SC, 10 km Converter
065-1194ED	1000SX to 1000LX, MM/SC to SM/SC, 20 km Converter
065-1195	1000T to 1000SX, MM/SC, 220 m - 62.5/125, 550 m - 50/125 Converter
065-1197	1000T to 1000LX, Singlemode/SC, 10 km Converter
065-1197ED	1000T to 1000LX, Singlemode/SC, 20 km Converter
065-1198XLD	1000LX to 1000LX ,Singlemode/SC, 20 km Repeater

DIN Rail Mounting Bracket

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

SPECIFICATIONS

• **APPLICABLE STANDARDS**

IEEE 802.3ab 1000BaseT
IEEE 802.3z 1000BaseSX
IEEE 802.3z 1000BaseLX

• **FIXED PORTS**

One twisted-pair port meeting IEEE 802.3ab standard specification; Category 5e or better cable, 100 meters maximum distance

and/or

One fiber optic port meeting IEEE 802.3z standard; 62.5/125 micron multimode fiber optic cable, 220 meters maximum distance or 50/125 micron multimode fiber optic cable, 550 meters maximum distance (Models 065-1194 & 065-1195)

or

1 fiber optic port meeting IEEE 802.3z 1000BaseLX standard specification; 9/125 micron singlemode fiber optic cable, spanning 10 kilometers maximum distance (Models 065-1194 & 065-1197)

or

20 kilometers maximum distance (Models 065-1194ED, 065-1197ED, & 065-1198XLD)

• **PERFORMANCE**

Latency: < 4.2 μs (LIFO)

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

• **FIBER INTERFACE, MULTIMODE PN 065-1194 & 065-1195**

Type: Laser Diode

Wavelength: 850 nm nominal.

Maximum Output: - 4.0 dBm

Minimum Output Power: - 9.5 dBm

Sensitivity: -13.5 dBm

Maximum Input Power: - 13.5 dBm

Link Power Budget: 4.0 dB

• **FIBER INTERFACE, SINGLEMODE PN 065-1194 & 065-1197**

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 065-1194ED, 065-1197ED, & 065-1198XLD**

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**

Power; TX; RX; FDX/COL; LNKF; LNKC (or LNK1; LNK2, Model 065-1198XLD)

• **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

• **WARRANTY**

Lifetime