

100FX Singlemode To Multimode Media Converters



Signamax Connectivity Systems' 100BaseFX Singlemode to Multimode Converters provide efficient solutions for interconnecting multimode fiber LANs over longer distances by integrating singlemode fiber optic cable into the LAN. They also enable Ethernet LAN and WAN connectivity, by providing a multimode interface to singlemode fiber carrier demarcation points. Each Media Converter is enclosed in a compact, strong metal case and includes an external power supply for stand-alone applications. They can also be installed without modification in the Signamax 065-1185 Rack Mount Chassis system, featuring redundant power supplies for high reliability in multiple converter installations.

KEY FEATURES

- LEDs Monitor Network Status
- Sturdy Metal Enclosure
- Singlemode Spans up to 75 Km
- Wall or Chassis-Mountable
- IEEE 802.3u Compliant
- Lifetime Performance Warranty

ORDERING INFORMATION

Part Number	Description
065-1130	100BaseFX Singlemode/SC, 15 km to Multimode/ST, 2 km
065-1130ED	100BaseFX Singlemode/SC, 40 km to Multimode/ST, 2 km
065-1130XLD	100BaseFX Singlemode/SC, 75 km to Multimode/ST, 2 km
065-1132	100BaseFX Singlemode/SC, 15 km to Multimode/SC, 2 km
065-1132ED	100BaseFX Singlemode/SC, 40 km to Multimode/SC, 2 km
065-1132XLD	100BaseFX Singlemode/SC, 75 km to Multimode/SC, 2 km

DIN Rail Mounting Bracket

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

SPECIFICATIONS

• **APPLICABLE STANDARDS**

IEEE 802.3u 100BaseFX

• **FIXED PORTS**

Models 065-

1130/1132/1130ED/1132ED/1130XLD/1132XLD

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

plus

1 fiber optic port meeting IEEE 802.3u 100BaseFX standard specification; 9/125 micron singlemode fiber optic cable, spanning: 15 kilometers maximum distance (Models 065-1130 & 065-1132)

or

40 kilometers maximum distance (Models 065-1130ED & 065-1132ED)

or

75 kilometers maximum distance (Models 065-1130XLD & 065-1132XLD)

• **LED INDICATORS**

Per Unit: Power status

Per Port: SD (A & B ports) – link and activity

Three LEDs total

• **PERFORMANCE**

Latency: < 21 bit times

Throughput @ 100Base: 148,809 pps (64-byte packets)

Speed: 100BaseFX: 100/200 Mbps for half/full duplex

• **FIBER INTERFACE, MULTIMODE PORTS**

Type: LED

Wavelength: 1300 nm nominal (1270 nm maximum, 1380 nm minimum)

Maximum Output Power: - 14.0 dBm

Minimum Output Power: - 20.0 dBm

Sensitivity: -33.0 dBm

Maximum Input Power: - 8.0 dBm

Link Power Budget: 13.0 dB

• **FIBER INTERFACE, SINGLEMODE PN 065-1130 & 065-1132**

Type: MQW Laser

Wavelength: 1300 nm nominal (1260 nm maximum, 1360 nm minimum)

Maximum Output Power: - 7.0 dBm

Minimum Output Power: - 15.0 dBm

Sensitivity: -34.0 dBm

Maximum Input Power: - 7.0 dBm

Link Power Budget: 19.0 dB

• **FIBER INTERFACE, SINGLEMODE PN 065-1130ED & 065-1132ED**

Type: MQW Laser

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

Maximum Output Power: - 5.0 dBm

Minimum Output Power: - 12.0 dBm

Sensitivity: -35.0 dBm

Maximum Input Power: - 5.0 dBm

Link Power Budget: 23.0 dB

• **FIBER INTERFACE, SINGLEMODE PN 065-1130XLD & 065-1132XLD**

Type: MQW Laser

Wavelength: 1300 nm nominal (1270 nm maximum, 1350 nm minimum)

Maximum Output Power: + 3.0 dBm

Minimum Output Power: - 3.0 dBm

Sensitivity: -37.0 dBm

Maximum Input Power: - 0.0 dBm

Link Power Budget: 34.0 dB

• **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)

• **ENVIRONMENTAL CHARACTERISTICS**

Operating Temperature: 32°F ~ 104°F (0°C~40°C)

Storage Temperature: -13°F ~ 158°F (-25°C~70°C)

Relative Humidity: 10 ~ 90%, non-condensing

• **POWER**

External power adapter: 12 Volts DC; 600 mA

Power Consumption: 5 Watts Maximum

• **EMISSIONS**

FCC part 15 Class A, CISPR Class A, VCCI Class A, CE Mark

• **SAFETY**

UL Listed

• **WARRANTY**

Lifetime