

Product Specifications

100FX Singlemode to Multimode Media Converters

KEY FEATURES

- Flexibility extends transmission distance via multimode to singlemode fiber conversion
- LEDs monitor network status
- Singlemode spans up to 75 km
- Supports wall mounting, DIN-rail mounting or use with media converter rack mount chassis



The Signamax 100FX Singlemode to Multimode Media Converters provide efficient solutions for interconnecting multimode fiber LANs over longer distances by integrating singlemode fiber optic cable into the LAN. By providing a multimode interface to singlemode fiber carrier demarcation points, these media converters enable Ethernet LAN and WAN connectivity.

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 into the Signamax Rack Mount Chassis system, featuring redundant power supplies for high reliability in multiple converter installations.

ORDERING INFORMATION

PART NO.	DESCRIPTION
065-1130	100BaseFX SC/SM, 15 km Span to 100BaseFX ST/MM, 2 km Span
065-1130ED	100BaseFX SC/SM, 40 km Span to 100BaseFX ST/MM, 2 km Span
065-1130XLD	100BaseFX SC/SM, 75 km Span to 100BaseFX ST/MM, 2 km Span
065-1132	100BaseFX SC/SM, 15 km Span to 100BaseFX SC/MM, 2 km Span
065-1132ED	100BaseFX SC/SM, 40 km Span to 100BaseFX SC/MM, 2 km Span
065-1132XLD	100BaseFX SC/SM, 75 km Span to 100BaseFX SC/MM, 2 km Span

SPECIFICATIONS

Applicable Standards

IEEE 802.3u 100BaseFX

Ports

1 - SM Fiber optic 100BaseFX port, plus 1 - MM Fiber optic 100BaseFX port with varying connectors per P/N

LED Status Indicators

Per Unit: Power

Per Fiber Port: Port A Link (SDA); Port B Link (SDB)

Performance

Latency: < 21 bit times

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

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

Electrical Characteristics

12 V DC. External 100 – 240 V AC 50/60 Hz. Power supply included.

Environmental Requirements

Operating Temperature: 32°F to 122°F (0°C to 50°C);

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

Relative Humidity: 10% to 95% (non-condensing)

Physical Characteristics

Dimensions: 4.33" L x 3.19" W x 0.91" H (109.2 mm x 83 mm x 23.8 mm)

Weight: 0.33 lb (150 g)

Certifications

CE, FCC, ROHS, VCCI Class A

Warranty

Limited Lifetime

Fiber Interface

Multimode Ports

Type: LED

Wavelength: 1300 nm nominal (1270 nm max., 1380 nm min.)

Max Output Power: -14.0 dBm

Min Output Power: -20.0 dBm

Sensitivity: -33.0 dBm

Max Input Power: -8.0 dBm

Link Power Budget: 13.0 dB

Singlemode Ports

Type: MQW Laser

Wavelength: 1300 nm nominal (1270 nm max., 1360 nm min.)

Max Output Power:

P/Ns 065-1130/1132: -7.0 dBm

P/Ns 065-1130ED/1132ED: -5.0 dBm

P/N 065-1130XLD/1132XLD: 3.0 dBm

Min Output Power:

P/Ns 065-1130/1132: -15.0 dBm

P/Ns 065-1130ED/1132ED: -12.0 dBm

P/N 065-1130XLD/1132XLD: -3.0 dBm

Sensitivity:

P/Ns 065-1130/1132: -34.0 dBm

P/Ns 065-1130ED/1132ED: -35.0 dBm

P/N 065-1130XLD/1132XLD: -37.0 dBm

Max Input Power:

P/Ns 065-1130/1132: -7.0 dBm

P/Ns 065-1130ED/1132ED: -5.0 dBm

P/N 065-1130XLD/1132XLD: 0.0 dBm

Link Power Budget:

P/Ns 065-1130/1132: 19.0 dB

P/Ns 065-1130ED/1132ED: 23.0 dB

P/N 065-1130XLD/1132XLD: 34.0 dB