

Product Specifications

10/100 to 100FX Media Converters with USB Power Option

KEY FEATURES

- Available with SC, ST, MT-RJ, and LC connectors
- DIP switch configuration for link fault signalling and fiber auto/force mode
- Built-In 10/100BaseT/TX switch utilizes store-and-forward architecture
- USB power option for added convenience
- Supports wall mounting, DIN-rail mounting or use with media converter rack mount chassis



The Signamax 10/100 to 100FX Media Converters with USB Power Option provides a built-in 10/100 switch that enables the fiber cable connection to operate at 100 Mbps, while remaining completely 100BaseFX 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 legacy hub. The built-in switch and its store-and-forward switching architecture performs the network segmentation that allows the maximum fiber distance extension.

An USB power connector on the rear panel provides additional power options where AC power outlets are unavailable. The Link Fault Signaling provides a means of propagating a link drop on either port of the media converter to the other port, enabling a connected managed switch to see the link drop and respond to it using Spanning Tree Protocol or another recovery scheme. This intelligence maximizes the power of managed switches, and enables failsafe design solutions for complex networks.

ORDERING INFORMATION

PART NO.	DESCRIPTION
065-1100LFS	10/100BaseT/TX to 100BaseFX Media Converter ST/MM, 2 km Span, USB Power Option
065-1110LFS	10/100BaseT/TX to 100BaseFX Media Converter SC/MM, 2 km Span, USB Power Option
065-1172LFS	10/100BaseT/TX to 100BaseFX Media Converter MT-RJ/MM, 2 km Span, USB Power Option
065-1174LFS	10/100BaseT/TX to 100BaseFX Media Converter LC/MM, 2 km Span, USB Power Option
065-1120LFS	10/100BaseT/TX to 100BaseFX Media Converter SC/SM, 15 km Span, USB Power Option
065-1120EDLFS	10/100BaseT/TX to 100BaseFX Media Converter SC/SM, 40 km Span, USB Power Option
065-1120XLDLFS	10/100BaseT/TX to 100BaseFX Media Converter SC/SM 75 km Span, USB Power Option

SPECIFICATIONS

Applicable Standards

IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3u 100BaseFX

Ports

1 - RJ-45 10/100BaseT/TX Auto-Negotiation, Auto-MDI/MDIX port plus 1 - fiber optic 100BaseFX port with varying connectors and span per P/N

LED Status Indicators

Per Unit: Power
Per RJ-45 Port: Link/Activity, Full Duplex/Collision (FDX/COL); RJ-45 port speed
Per Fiber Port: Link/Activity, Full Duplex/Collision (FDX/COL)

Performance

Latency: < 4.2 μ s (LIFO)
Throughput, per port: @ 100Base: 148,809 pps (64-byte packets)
Speed: 100BaseTX: 100/200 Mbps for half/full duplex; 10BaseT: 10/20 Mbps for half/full duplex
MAC Address Capacity: 1K; Memory: 256 KB

Electrical Characteristics

12 V DC. External 100 – 240 V AC 50/60 Hz. Power supply included.
USB power connector on the rear panel optionally powers converter from computer's USB port

Environmental Requirements

Operating Temperature: 32°F to 122°F (0°C to 50°C);
Storage Temperature: -14°F to 158°F (-10°C to 70°C)
Relative Humidity: 5% to 95% (non-condensing)

Physical Characteristics

Dimensions: 4.33" L x 3.16" 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 P/Ns

Type: LED
Wavelength: 1300 nm nominal (1270 nm max., 1355 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 P/Ns

Type: MQW Laser
Wavelength:
P/Ns 065-1120LFS/1120EDLFS: 1300 nm nominal (1260 nm max., 1360 nm min.)
P/N 065-1120XLDLFS: 1300 nm nominal (1270 nm max., 1350 nm min.)
Max Output Power:
P/Ns 065-1120LFS: -7.0 dBm
P/Ns 065-1120EDLFS: -5.0 dBm
P/N 065-1120XLDLFS: 3.0 dBm
Min Output Power:
P/Ns 065-1120LFS: -15.0 dBm
P/Ns 065-1120EDLFS: -12.0 dBm
P/N 065-1120XLDLFS: -3.0 dBm

Sensitivity:

P/Ns 065-1120LFS: -34.0 dBm
P/Ns 065-1120EDLFS: -35.0 dBm
P/N 065-1120XLDLFS: -37.0 dBm

Max Input Power:

P/Ns 065-1120LFS: -7.0 dBm
P/Ns 065-1120EDLFS: -5.0 dBm
P/N 065-1120XLDLFS: 0.0 dBm

Link Power Budget:

P/Ns 065-1120LFS: 19.0 dB
P/Ns 065-1120EDLFS: 23.0 dB
P/N 065-1120XLDLFS: 34.0 dB