

Product Specifications

10/100 to 100FX Non-Switching Media Converters

KEY FEATURES

- DIP switch configuration for link fault signalling, fiber auto/force mode, and SFP speed
- Built-In 10/100BaseT/TX Switch utilizes store-and-forward architecture
- Supports wall mounting, DIN-rail mounting or use with media converter rack mount chassis
- LEDs for functions, links, and activity



The Signamax 10/100 to 100FX Non-Switching Media Converters are available for direct connection to 100BaseTX RJ-45 and 100BaseFX fiber optic Fast Ethernet devices in a choice of connector and fiber optic cable types. The options available are enclosed in a compact, strong metal case with an external power supply for stand-alone applications.

They can be installed without modification into the Signamax Rack Mount Chassis system which features redundant power supplies for high reliability in multiple converter installations. These media converters reduce cabling cost by providing flexible, non-switching fiber optic solutions for Ethernet LANs and WAN connectivity.

ORDERING INFORMATION

PART NO.	DESCRIPTION
065-1100NS	100BaseTX to 100BaseFX Media Converter ST/MM, 2 km Span
065-1110NS	100BaseTX to 100BaseFX Media Converter SC/MM, 2 km Span
065-1120NS	100BaseTX to 100BaseFX Media Converter SC/SM, 15 km Span

SPECIFICATIONS

Applicable Standards

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

Ports

1 - RJ-45 100BaseTX 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)

Fiber Interface

Type:

P/Ns 065-1100NS/1110NS: LED

P/Ns 065-1120NS: MQW Laser

Wavelength:

P/Ns 065-1100NS/1110NS: 1300 nm nominal (1270 nm max., 1380 nm min.)

P/Ns 065-1120NS: 1300 nm nominal (1260 nm max., 1360 nm min.)

Max Output Power:

P/Ns 065-1100NS/1110NS: -14.0 dBm

P/Ns 065-1120NS: -7.0 dBm

Min Output Power:

P/Ns 065-1100NS/1110NS: -20.0 dBm

P/Ns 065-1120NS: -15.0 dBm

Sensitivity:

P/Ns 065-1100NS/1110NS: -33.0 dBm

P/Ns 065-1120NS: -34.0 dBm

Max Input Power:

P/Ns 065-1100NS/1110NS: -8.0 dBm

P/Ns 065-1120NS: -7.0 dBm

Link Power Budget:

P/Ns 065-1100NS/1110NS: 13.0 dB

P/Ns 065-1120NS: 19.0 dB

Performance

Latency: < 4.2 μ s (LIFO)

Throughput @ 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

Non-Switching 100BaseT to 100BaseFX models:

Latency: < 21 Bit Times

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: -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