

# Product Specifications

## Gigabit Ethernet Media Converters

### KEY FEATURES

- Converts twisted-pair to fiber at gigabit speed
- IEEE 802.3z & 802.3ab standard supported
- P/N 065-1195SFP supports SFP modules for flexible 1000Base fiber connection
- Supports wall mounting, DIN-rail mounting or use with media converter rack mount chassis



The Signamax Gigabit Ethernet Media Converters provide a flexible and intelligent solution to extend distances over multimode or singlemode fiber. The SFP option allows maximum flexibility of use in changing network architectures and all of them can be installed

without modification into the Signamax Rack Mount Chassis system. Designed to expand the scope of your Gigabit Ethernet network applications such as corporate data infrastructures and IP security networks.

### ORDERING INFORMATION

PART NO.	DESCRIPTION
065-1195	1000BaseT to 1000BaseSX Media Converter, SC/MM 220 m Span on 62.5 $\mu$ m Fiber / 550 m Span on 50 $\mu$ m Fiber
065-1195SFP	1000BaseT to 1000Base SFP Media Converter
065-1197	1000BaseT to 1000BaseLX Media Converter, SC/SM, 10 km Span
065-1197ED	1000BaseT to 1000BaseLX Media Converter; SC/SM, 20 km Span

Fiber type and distances spanned are SFP module-dependent for P/N 065-1195SFP

## SPECIFICATIONS

### Applicable Standards

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

### Ports

**P/N 065-1195/1197/1197ED:** 1 - RJ-45 1000BaseT port plus 1-fiber optic 1000BaseSX/LX port with varying connectors and span per P/N  
**P/N 065-1195SFP:** 1 - RJ-45 1000BaseT port plus 1 - 1000Base SFP port.

### LED Status Indicators

**Per Unit Power:** Transmit (TX); Receive (RX)  
**Per RJ-45 Port:** Link Copper; Full Duplex/Collision (FDX/COL);  
**Per Fiber Port:** Link Fiber

### Performance

**Latency:** < 4.2  $\mu$ s (LIFO)  
**Throughput, per port:** @ 1000Base: 1,488,100 pps (64-byte packets)

### 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)

### Electrical Characteristics

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

### 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

#### Type:

**P/N 065-1195** Laser Diode  
**P/N 065-1197/1197ED:** MQW Laser

#### Wavelength:

**P/N 065-1195:** 850 nm nominal (830 nm max., 860 nm min.)  
**P/N 065-1197:** 1300 nm nominal (1270 nm max., 1355 nm min.)  
**P/N 065-1197ED:** 1300 nm nominal (1261 nm max., 1360 nm min.)

#### Max Output Power:

**P/N 065-1195:** -4.0 dBm  
**P/N 065-1197/1197ED:** -3.0 dBm

#### Min Output Power:

**P/N 065-1195:** -9.5 dBm  
**P/N 065-1197:** -11.0 dBm  
**P/N 065-1197ED:** -8.0 dBm

#### Sensitivity:

**P/N 065-1195:** -13.5 dBm  
**P/N 065-1197/1197ED:** -22.0 dBm

#### Max Input Power:

**P/N 065-1195:** -13.5 dBm  
**P/N 065-1197/1197ED:** -3.0 dBm

#### Link Power Budget:

**P/N 065-1195:** 4.0 dB  
**P/N 065-1197:** 11.0 dB  
**P/N 065-1197ED:** 14.0 dB