

# Product Specifications

## Gigabit Singlemode to Multimode Media Converters/ Repeater

### KEY FEATURES

- Convert singlemode fiber to multimode fiber at gigabit speed
- P/N 065-1198 repeats singlemode fiber signals at gigabit speed for phase jitter correction
- IEEE 802.3z standard supported
- Supports wall mounting, DIN-rail mounting or use with media converter rack mount chassis

The Signamax Gigabit Singlemode to Multimode Media Converters Repeater provide a flexible and intelligent solution to extend distances over multimode or singlemode fiber. They 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
065-1194	1000BaseLX SC/SM, 10 km Span to 1000BaseSX SC/MM, 220 m Span on 62.5 μm Fiber / 550 m Span on 50 μm Fiber Media Converter
065-1194ED	1000BaseLX SC/SM, 20 km Span to 1000BaseSX SC/MM, 220 m Span on 62.5 μm Fiber / 550 m Span on 50 μm Fiber Media Converter
065-1198XLD	1000BaseLX SC/SM, 20 km Span to 1000BaseLX, SC/SM 20 km Span Repeater

### SPECIFICATIONS

#### Applicable Standards

IEEE 802.3z 1000BaseSX  
 IEEE 802.3z 1000BaseLX

#### Ports

P/N 065-1194/1194ED: 1 - Fiber optic 1000BaseSX port plus 1-fiber optic 1000BaseLX port  
 P/N 065-1198XLD: 2 - Fiber optic 1000BaseLX ports

#### LED Status Indicators

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

#### Performance

Latency: ≤4.2 μs (FIFO).  
 Throughput, per port: @ 1000Base: 1,488,100 pps (64-byte packets)

#### 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: 10% to 95% (non-condensing)

#### Fiber Interface

Type: MQW Laser  
 Wavelength:  
 P/N 065-1194: 1300 nm nominal (1270 nm max., 1355 nm min.)  
 P/N 065-1194ED/1198XLD: 1300 nm nominal (1261 nm max., 1360 nm min.)  
 Max Output Power: -3.0 dBm  
 Min Output Power:  
 P/N 065-1194: -11.0 dBm  
 P/N 065-1194ED/1198XLD: -8.0 dBm  
 Sensitivity: -22.0 dBm  
 Max Input Power: -3.0 dBm  
 Link Power Budget:  
 P/N 065-1194: 11.0 dB  
 P/N 065-1194ED/1198XLD: 14.0 dB

#### 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