

# Specifications www.signam

# 10/100/1000 to 100/1000 SFP Media Converter

## **KEY FEATURES**

- · Dual-rate 1000Base or 100Base SFP capability
- · Extremely low latency supports larger multi-hop networks
- · Extremely high reliability; MTBF of over 212 years
- · Gigabit transmission supports 9K bytes jumbo frames
- IEEE 802.3x flow control for full duplex and back pressure for half duplex supported
- DIP switch configuration for link fault signalling, fiber auto/force mode, and SFP speed
- · Full wire-speed forwarding rate
- Supports wall mounting, DIN-rail mounting or use with media converter rack mount chassis



The Signamax 10/100/1000 to 100/1000 SFP Media Converters provides a flexible and intelligent solution for long distance connections between legacy 10BaseT and 100BaseTX networks and either 1000Base Gigabit Ethernet fiber or 100Base fiber networks. The built-in 10/100/1000 switch enables the fiber cable connection to operate at 1000 Mbps, while remaining completely 1000BaseSX/LX or 100BaseFX/BX standard-compliant for the fiber optic connection.

The dual-rate fiber converter includes the ability to force the RJ-45 port to 100Base or 10Base full or half-duplex modes where required. 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.

## ORDERING INFORMATION

PART NO.	DESCRIPTION
065-1196SFPDR	10/100/1000BaseT/TX to Dual-Rate 100Base or 1000Base SFP Media Converter
Fiber types, 100 or 1000Base speed, and distances spanned are SFP module-dependent.	

## **SPECIFICATIONS**

## **Applicable Standards**

IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3u 100BaseFX IEEE 802.3ab 1000BaseTX IEEE 802.3ab 1000BaseSX

IEEE 802.3z 1000BaseLX

IEEE 802.3x Flow Control

#### **Ports**

1 - RJ-45 10/100/1000BaseT/TX Auto-Negotiation, Auto-MDI/MDIX port, plus 1 - Dual-rate 100Base or 1000Base SFP port.

#### **LED Status Indicators**

Per Unit: Power; LFS Status; Full Duplex Per RJ-45 Port: Link Copper; Copper port speed (Green = 1000 Mbps, Amber = 100 Mbps, off = 10 Mbps)

Per SFP Port: Link Fiber

## **Performance**

Latency: ≤1.6 µs (FIFO).

MTBF: 1,857,775.35 hours (212.07 years), calculated via the Part Stress

Analysis Method.

Throughput, per port: @ 1000Base: 1,488,100 pps (64-byte packets);

@ 100Base: 148,810 pps (64-byte packets)

Switch Fabric Speed: 4.0 Gbps (non-blocking, wire speed performance)

Frame Buffer: 12K total

Jumbo Frame Support: 9K packets supported

## **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

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