SIGNAMAX
Network Solutions

Product Specifications

10/100/1000 to Gigabit SFP Industrial Media Converter

KEY FEATURES

- NEMA TS1/2 Environmental requirements compliant for traffic control equipment
- IEC61000-6-2 EMC Generic Standard Immunity compliant for industrial environment
- UL 508 Listed
- One SFP port for Gigabit fiber optic extension
- DIP switch configuration for link fault signalling, link down alarm, plus fiber auto/force mode
- Alarms for power failure and port link failure via relay output
- Redundant 24 V DC terminal block power inputs
- Supports DIN-rail or panel mount installations

The Signamax 10/100/1000 to Gigabit SFP Industrial Media Converter is designed to operate flexibly at standard Ethernet, Fast Ethernet, or Gigabit Ethernet speeds in harsh industrial environments that require rugged equipment. Provides the user with a 10/100/1000Base T/TX port converting to a 1000Base SFP port. The SFP receptacle meets the SFP Multi-Source Agreement and will operate with a variety of SFP modules that can transmit over either multimode or singlemode fiber.

This industrial media converter is a compact, plug-and-play device that does not require complex user setup, but has the manual setting features necessary to adjust to unusual operating conditions. This is an affordable solution for outdoor environments, transportation roadside systems, shop floors, and other harsh environments where consistent operation at temperature extremes of -40°F to 176°F (-40°C to 80°C) is necessary and varying Ethernet speeds interface to a fiber optic Gigabit Ethernet network.

ORDERING INFORMATION

PART NO.	DESCRIPTION
065-1896SFPTB	10/100/1000BaseT/TX to 1000Base SFP Industrial Media Converter

800 446 2377 • **www.signamax.com** • 999 N.W. 159th Drive, Miami, FL 33169 • Phone 305-944-7710 • Fax 305-949-4483

SPECIFICATIONS

Applicable Standards
IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3ab 1000BaseT
IEEE 802.3z 1000BaseSX/LX
SFP Multi-Source Agreement (MSA)

Ports
1 - RJ-45 10/100/1000BaseT/TX Auto-Negotiation, Auto-MDI/MDIX port, plus 1 - 1000Base SFP port. See page D1 – D5 for SFP ordering information.

LED Status Indicators
Per Unit: Power1, Power2, Power3 (Green). Fault, LFS
Per Port: 10/100/1000BaseT/TX port: Link/Activity, Speed, Full Duplex/Collision. 1000Base SFP port - Link/Activity

Performance
Latency: <4.2 µs
Throughput, per port: @ 1000BaseT 1,488,100 pps; @ 100BaseTX**:** 148,810 pps; @ 10BaseT**:** 14,881 pps (64-byte packets)

Electrical Characteristics
DC Input Range: 12 to 48 V DC Connected via Redundant Terminal Block

Environmental Requirements
Operating Temperature: -40°F to 167°F (-40°C to 75°C)
Storage Temperature: -40°F to 185°F (-40°C to 85°C)
Operating Humidity: 5% to 95% (non-condensing)

Physical Characteristics
Dimensions: 1.97 W" x 4.33" D x 5.31" H (50 mm x 110 mm x 135 mm)
Housing: IP30 protection, metal case. Pre-attached DIN-rail included.
Weight: 1.76 lb (0.8 kg)

Certifications
NEMA TS1/2 Environmental requirements for traffic control equipment
Safety: UL 508
EMI: FCC; EN61000-6-3
EMS: ESD Standards (EN61000-4-2); Radiated RFI Standards (IEC 61000-4-3); Burst Standards (IEC 61000-4-4); Surge Standards (IEC 61000-4-5); Induced RFI Standards (IEC 61000-4-6); Magnetic Field Standards (IEC 61000-4-8); Voltage Dip Standards (IEC 61000-4-11)
Environmental Test Compliance: Vibration Resistance (IEC 60068-2-6 Fc); Operation/Storage/Transport Shock (IEC 60068-2-27 Ea); Free Fall (IEC 60068-2-32 Ed)

Warranty
Limited Lifetime

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