

Product Specifications

10/100 to 100FX Industrial Media Converters

KEY FEATURES

- NEMA TS2 Environmental requirements compliant for traffic control equipment
- 100FX port available with multimode and singlemode fiber interfaces
- DIP switch configuration for link fault signalling, link down alarm, plus speed/duplex mode
- Supports 2K MAC addresses
- Broadcast storm filtering
- Back-pressure and IEEE 802.3x Compliant Flow Control
- 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 to 100FX Industrial Media Converters have been developed to operate in harsh industrial environments that require rugged equipment that can operate in severe temperature extremes. These media converters are 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. They are compact, plug-and-play devices that do not require complex user setup, but also have the manual setting features necessary to adjust to unusual operating conditions.

ORDERING INFORMATION

PART NO.	DESCRIPTION
065-1800ATB	10/100BaseT/TX to 100BaseFX Industrial Media Converter, ST/MM, 2 km Span
065-1810ATB	10/100BaseT/TX to 100BaseFX Industrial Media Converter, SC/MM, 2 km Span
065-1820ATB	10/100BaseT/TX to 100BaseFX Industrial Media Converter, SC/SM, 15 km Span

SPECIFICATIONS

Applicable Standards

IEEE802.3 10BaseT
 IEEE802.3u 100BaseTX
 IEEE802.3u 100BaseFX
 IEEE802.3x Flow Control and Back pressure

Ports

1 - RJ-45 10/100BaseT/TX Auto-Negotiation, Auto-MDIX port plus
 1 - fiber optic 100BaseFX port

LED Status Indicators

Per Unit: Power1, Power2, (Green), Fault, LFS
Per Port: 10/100BaseT/TX port: 100 Mbps Speed, Link/Activity, FDX/COL
 100BaseFX port: Link/Activity, FDX/COL

Performance

Latency: < 4.2 μs (LIFO)
Throughput, per port: @ 100Base: 148,810 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 176°F (-40°C to 80°C)
Storage Temperature: -50°F to 200°F (-45°C to 93°C)
Operating Humidity: 10% to 95% (non-condensing)

Physical Characteristics

Dimensions: 1.97" W x 5.35" D x 4.33" H (50 mm x 136 mm x 110 mm)
Housing: IP30 protection, metal case. Pre-attached DIN-rail included.
Weight: 1.76 lb (0.8 kg)

Certifications

NEMA TS2 Environmental requirements for traffic control equipment
Safety: UL 1604: Classified for ITE Equipment for use in hazardous locations: Class 1, Division 2 group A, B, C, & D; Temp Code T4A; -25C < Tamb < 74C UL 60950, EN 60950, IEC 60950, IEC 61000-6-2
EMI: FCC; EN61000-6-3; EN55022 (CISPR22 ClassA), EN55024 (CISPR24 Class A), CE EN 6100-4-4/5/6
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); Operation/Storage/Transport Shock (IEC 60068-2-27); Free Fall (IEC 60068-2-32)

Warranty

Limited Lifetime