Industrial Gigabit Media Converter and PoE++ Injector

10/100/1000Base-TX to SFP Slot, PoE Injector Function, 95 W, IEEE 802.3bt (4PPoE) Compliant, IP50-rated Metal Housing, DIN-Rail Mount and Wall-Mount Option

Part No.: 509589

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Media Converter with PoE Injector - IP50-rated Industrial Housing with 802.3bt 4PPoE Injector - expand your existing network in harsh industrial environments

With minimum cost and complexity, the Intellinet Network Solutions Industrial Gigabit Media Converter and PoE++ Injector offers the network designer a way to migrate from copper-based Ethernet to fiber Ethernet or to expand an existing network. The Converter is completely transparent to the network, so the network performs exactly the way it did before, only now it can support both copper and fiber media. It can achieve building-to-building connectivity without the need for the cost and disruption associated with the installation of additional routers.

More capable with Power over Ethernet

The media converter brings power to where there is none, which helps avoid the need to hire an electrician and run electrical lines. And because the converter supports the IEEE 802.3bt / 802.3at / 802.3af standard, up to 95 watts are available, even for power-hungry PoE++ devices like motorized PTZ cameras, thin clients, point-of-sale systems, lighting controllers and digital signage applications.

Equipped even for challenging environmental conditions

With its rugged, protective, IP50-rated metal housing, the converter operates

reliably, even in extreme temperatures from -40 - 75°C (-40 - 167°F). In combination with its DIN-rail mounting option and a DC power input with plenty of other safety features, this converter is ideal for IoT applications in Industry 4.0 and more.

Features:

- One 10/100/1000 RJ45 port supporting a maximum distance of 100 m (328 ft.)
- One SFP port for 1000Base-X optical transceiver modules and distances up to 120 km / 75 mi. (depending on module used)
- Power over Ethernet injector function with output up to 95 watts
- IP50 slim-type metal housing to withstand harsh industrial conditions
- Suitable for extreme operating temperatures of -40 to 75ºC (-40 to 167ºF)
- Option for DIN-rail installation
- Ideal for power-hungry IoT devices like motorized IP cameras, thin clients, PoE lighting and more
- Short-circuit, overload and high-voltage protection
- Auto-sensing PoE awareness to ensure that power is only sent to IEEE 802.3bt/at/af-compliant devices; non-PoE devices only receive data
- Grounding point to protect equipment from external electrical surges
- DC input (48 - 57 V) through terminal block
- ESD protection up to 8 kV (air) and 6 kV (contact)
- Port surge protection up to 6 kV
- Rated for shock (IEC 60068-2-27), freefall (IEC 60068-2-31) and vibration (IEC 60068-2-6)
- Saves time and money by delivering data and power via existing network cables
- Supports full-duplex and half-duplex modes with autonegotiation
- IEEE 802.3x flow control for full duplex
- Link Fault Passthrough (LFP) function for easier network maintenance
- Supports 1k MAC address entries with Auto-learning and Auto-aging
- Buffer memory of 512 Kbits
- Supports jumbo frames up to 16 kBytes
- Requires additional industrial power supply (not included)
- Fully TAA-compliant
- Three-year warranty

Specifications:

Standards
- IEEE 802.3af (Power over Ethernet)
- IEEE 802.3at (High-Power PoE+ Power over Ethernet)
- IEEE 802.3bt (PoE++/4PPoE Power over Ethernet)

- IEEE 802.3 (10Base-T Ethernet)
- IEEE 802.3u (100Base-TX Fast Ethernet)
- IEEE 802.3z (1000Base-X Gigabit Ethernet)

General
- Media support:
  - 10Base-T Cat3/4/5/5e/6/6a UTP/STP RJ45
  - 100Base-TX Cat5/5e/6/6a UTP/STP RJ45
  - 1000Base-T Cat5e/6/6a UTP/STP RJ45
  - SFP module slot for Mini GBIC module (not included)
- Certifications: FCC, CE, RoHS, REACH, UKCA, TAA
- MTBF: 1M hours

Electrical
- DC input: 48.0 - 57.0 V DC, up to 2.3 A, 6-pin terminal block
- DC output: 95.0 W, 54.0 V DC, RJ45 PoE port
- Power consumption: 100.0 W (max.)

PoE Pinout
- Pin 1: DC (-)
- Pin 2: DC (-)
- Pin 3: DC (+)
- Pin 4: DC (+)
- Pin 5: DC (+)
- Pin 6: DC (+)
- Pin 7: DC (-)
- Pin 8: DC (-)

DC input pin assignment
- PWR1 +
- PWR1 -
- PWR2 +
- PWR2 -

LEDs
- Power 1
- Power 2
- Power 3
- Alarm
- PoE
- LINK/ACT 1
- LINK/ACT 2

Physical
- IP50-rated metal housing
- DIN rail: In accordance with IEC/EN 60715 (top hat)
- Dimensions (L x W x H): 99 x 90 x 28 mm (3.9 x 3.54 x 1.1 in.)

- Net weight: 311 g (0.69 lbs.)
- Gross weight: 380 g (0.84 lbs.)
- Operating temperature: -40 - 75°C (-40 - 167°F)
- Storage temperature: -40 - 85°C (-40 - 185°F)
- Operating humidity: 10 - 95% RH, non-condensing
- Storage humidity: 10 - 95% RH, non-condensing
- Recommended AWG for terminal block: 14-22

Package Contents
- Industrial Gigabit Media Converter and PoE++ Injector
- Instructions