



Gigabit Media Converter and PoE++ Injector

10/100/1000Base-TX to SFP Slot, PoE Injector Function, 90 W, IEEE 802.3bt (4PPoE) Compliant, Supports UPoE and Legacy 4PPoE, Metal Housing

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Media Converter with Power over Ethernet IEEE 802.3bt, UPoE, and Legacy 4PPoE, and Long-Distance Fiber - All in One Compact Device

The Gigabit Media Converter and PoE++ Injector from Intellinet Network Solutions offers simplified migration from copper-based Ethernet to Fiber Ethernet while providing power to a compatible device at up to 90 watts. The device creates the easy expansion of existing networks with minimum cost and complexity. 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 mediums.

Flexible Connectivity and Impressive Reach

Featuring one 10/100/1000 Mbps RJ45 port with support for up to 100 meters, and one SFP slot for 1000Base-X optical modules, this converter supports transmission distances of up to 120 km (75 mi.), depending on the module used. Whether across a campus or between buildings, it delivers reliable, high-speed data wherever it's needed.

Ultra-High Power PoE++ for Demanding Devices

Deliver up to 90 watts of power via PoE++ to devices such as motorized IP cameras, thin clients, PoE lighting, and more. With a simple DIP switch, choose between IEEE 802.3bt, UPoE, or Legacy modes for maximum compatibility. Auto-sensing PoE awareness ensures that only compliant devices receive power — non-PoE devices stay protected and receive data only.

Reliable, Protected, and Built to Last

Designed for critical environments, the device features short-circuit, overload, and high-voltage protection, plus ESD protection up to 8 kV (air) and 6 kV (contact). Port surge protection up to 4 kV and a dedicated grounding point provide added peace of mind against electrical hazards.

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 90 watts
- Supports three PoE++ modes, selectable with a DIP switch: IEEE 802.3bt, UPoE, and Legacy
- 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
- ESD protection up to 8 kV (air) and 6 kV (contact)
- Port surge protection up to 4 kV
- 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
- Supports 2k MAC address entries with Auto-learning and Auto-aging
- Buffer memory of 2 Mbits
- Supports jumbo frames up to 9 kBytes
- Fanless design ideal for silent operation
- Fully TAA-compliant
- Three-year warranty

For more information on Intellinet products, consult your local dealer or visit www.intellinet-network.com.

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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 802.3ab (1000BASE-T Gigabit Ethernet)
- IEEE 802.3z (1000Base-X Gigabit over Fiber Optic)

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)
- MAC address table: 2k
- Buffer memory: 2 Mbits
- Switch architecture: store and forward
- Certifications: FCC, CE, RoHS, REACH, UKCA, TAA
- MTBF: 574,619 hours

DIP switch functions to select the PoE standard of the connected PD:

- 802.3bt (for fully compliant IEEE 802.3bt/at/af PDs)
- UPoE (for PDs that support the maximum power from PSE over four pairs, regardless of the PD class, including Cisco Universal Power over Ethernet)
- Legacy (for PDs not in full compliance with 802.3bt/at/af)

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 (-)

Power

- Included external power adapter:
 - Input: 100.0 - 240.0 VAC, 50 - 60 Hz
 - Output: DC, 55.0 V, 2.3 A
 - PoE power budget: 90.0 watts (max.)
 - Power consumption: 126.5 watts (max.)

LEDs

- FIBER
- POE
- PWR
- LAN

Physical

- Dimensions (L x W x H): 94 x 70 x 26 mm (3.7 x 2.76 x 1.02 in.)
- Net weight: 200 g (0.44 lbs.)
- Gross weight: 760 g (1.68 lbs.)
- Operating temperature: 0 - 50°C (32 - 122°F)
- Storage temperature: -40 - 80°C (-40 - 176°F)
- Operating humidity: 10 - 90% RH, non-condensing
- Storage humidity: 5 - 90% RH, non-condensing

Package Contents

- Gigabit Media Converter and PoE++ Injector
- Power adapter
- Instructions

