Industrial 10G PoE++ Splitter 90 W

IEEE 802.3bt (4PPoE) Compliant, up to 90 W Input, 12/16/24/48 V DC Output, 100 Mbps/1G/2.5G/5G/10G RJ45 Ports, IP50-rated Metal Housing, DIN-Rail Mount and Wall-Mount Option

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Tough 10 Gbps PoE Splitter 12V / 16V / 24V / 48V - Turn a high-power PoE link into separate terminal-block power and 10G data connections

The Industrial 10G PoE++ Splitter 90 W from Intellinet Network Solutions brings cutting-edge speed and reliable power delivery to industrial environments. Compliant with IEEE 802.3bt (4PPoE), it accepts up to 90 watts of input power over a single Ethernet cable and splits it into 10-Gigabit Ethernet and selectable DC output. It's the perfect solution for powering high-performance non-PoE devices such as servers, IP cameras, edge computing devices, or industrial workstations in environments that demand both speed and stability.

Flexible DC Output for Maximum Compatibility

With selectable output voltages of 12 V, 16 V, 24 V (2.3 A), or 48 V (1.25 A) via a secure 4-pin terminal block, this splitter supports a wide range of equipment. Whether powering control systems, security hardware, or industrial computing gear, it delivers clean, reliable power without the need for additional conversion equipment. At the same time, the 10G Ethernet output ensures ultra-fast data throughput to keep operations moving at full speed.

Engineered for Harsh Industrial Environments

Built with an IP50-rated metal housing and a wide operating temperature range of -40 to 75ºC (-40 to 167ºF), this splitter is ready for tough jobs in demanding environments. It’s ideal for deployment in factory floors, outdoor enclosures, and remote industrial control panels. The compact form factor supports DIN-rail mounting, offering simple and space-efficient installation.

Advanced Electrical Protection

To ensure long-term reliability, the splitter includes extensive protection features such as short-circuit, overload, and over-voltage safeguards. It also offers ESD protection up to 8 kV (air) and 6 kV (contact), as well as surge protection up to 6 kV on data ports. An integrated grounding point provides further defense against electrical interference and transient spikes.

TAA-Compliant and Future-Proof

Equipped with one IEEE 802.3bt/at/af-compliant 90 W input port and a high-speed 10G Ethernet data output port, the splitter is ready for modern network demands. It supports standard Ethernet distances up to 100 meters (328 ft.) and is fully TAA-compliant, making it suitable for government, enterprise, and industrial installations that require both performance and regulatory compliance.

Features:

- Splits an IEEE 802.3bt PoE++ connection into power and Gigabit Ethernet for non-PoE devices
- Selectable DC outputs with 12, 16, or 24 V (2.3 A) or 48 V (1.25 A) via 4-pin terminal block
- One RJ45 input port up to 90 W from an IEEE 802.3bt/at/af-compliant PoE injector or PoE switch (PSE)
- Ultra-fast 10GBASE-T RJ45 Ethernet ports, IEEE 802.3bz compliant
- 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
- Rated for shock (IEC 60068-2-27), freefall (IEC 60068-2-31) and vibration (IEC 60068-2-6)
- Backward compatible with 100/1000/2500/5000 Mbps devices
- Distance support: up to 100 m (328 ft.)
- Short-circuit, overload and high-voltage protection
- 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 6 kV
- Wall-mountable for network areas with limited floor space (wall-mounting hardware 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 802.3u (100Base-TX Fast Ethernet)
• IEEE 802.3ab (1000BASE-T Gigabit Ethernet)
• IEEE 802.3bz (2.5G/5G/10GBASE-T Ethernet)

General
• Media support:
  - 100Base-TX Cat5e/6/6a UTP/STP RJ45
  - 1000Base-T Cat5e/6/6a UTP/STP RJ45
  - 2.5G/5GBase-T Cat5e/Cat6/6a UTP/STP RJ45
  - 10GBase-T Cat6/6a or higher UTP/STP RJ45
• Ports:
  - One RJ45 10G PoE input port
  - One RJ45 10G data output port
  - One DC output with 4-pin terminal block
• Certifications: FCC, CE, RoHS, REACH, UKCA, TAA
• MTBF: 1M hours

Power
• Input power: IEEE 802.3bt/at/af compliant PSE, 90.0 W max., 42.5 - 57.0 V DC
• Max. output power:
  - 12.0 V DC, 2.3 A, 27.6 W (max.)
  - 16.0 V DC, 2.3 A, 36.8 W (max.).
  - 24.0 V DC, 2.3 A, 55.2 W (max.)
  - 48.0 V DC, 1.25 A, 60.0 W (max.)
• Power consumption: 90.0 W (max.)

DIP switch settings
• DIP2: U, DIP1: U - 12.0 V output (2.3 A max.)
• DIP2: D, DIP1: U - 16.0 V output (2.3 A max.)
• DIP2: U, DIP1: D - 24.0 V output (2.3 A max.)
• DIP2: D, DIP1: D - 48.0 V output (1.25 A max.)

PoE Pinout
Pin1: DC(-)
Pin2: DC(-)
Pin3: DC(+)
Pin4: DC(+)
Pin5: DC(+)
Pin6: DC(+)
Pin7: DC(-)
Pin8: DC(-)

Terminal block Pinout
- Pin 1: V+
- Pin 2: V-
- Pin 3: V+
- Pin 4: V-

LED
• PD Power In
• DC Power Out

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: 405 g (0.89 lbs.)
• Gross weight: 489 g (1.08 lbs.)
• Operating temperature: -40 - 75°C (-40 - 167°F)
• Storage temperature: -40 - 85°C (-40 - 185°F)
• Operating humidity: 5 - 95% RH, non-condensing
• Storage humidity: 5 - 95% RH, non-condensing
• Recommended AWG for terminal block: 12 - 18

Package Contents
- Industrial 10G PoE++ Splitter
- DIN-rail mount bracket
- Instructions