



## 8-Port Gigabit Ethernet PoE+ Switch with PoE Passthrough

One PD PoE Port with 95 W Power Input, Seven PSE PoE Ports, PoE Power Budget up to 120 W, IEEE 802.3at/af Compliant, DIN-Rail Mount

Part No.: **561624**

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### The PoE Passthrough Switch — Save installation costs with PoE and get the most out each PoE connection

The Intellinet Network Solutions 8-Port Gigabit Ethernet PoE+ Switch with PoE Passthrough is designed to take power from a PoE switch or injector and pass both data and electrical power to PoE-compatible devices via network cables. Its PD port even supports power input from the latest Ultra PoE sources, easily handling up to 95 W. Equipped with eight Gigabit Ethernet ports, this switch can power up to seven wireless LAN access points and bridges, VoIP phones or IP video cameras and deliver network speeds up to 1,000 Mbps without an external power adapter.

#### Usable as a PoE extender

Thanks to its PoE passthrough technology that extends a PoE connection, this versatile unit doubles the range between PoE source and device from 100 m (328 ft.) to 200 m (656 ft.). Using the PoE Passthrough Switch this way also eliminates the time and expense of electrical rewiring, which minimizes the unsightly clutter of power cables in awkward places such as ceilings and walls. This Switch can also accept power through a DC power adapter or an industrial power supply, providing up to 120 W to compatible devices.

#### Ideal for harsh industrial environments

With its rugged, protective metal housing, the switch operates reliably and quietly, even in

extreme temperatures from -20 to 75° (-4 – 167°F). In combination with its DIN-rail mounting option and two safe redundant DC power inputs with plenty of other safety features, this switch is ideal for IoT applications in Industry 4.0 and more.

## Features:

- Supports up to 95 W power input from a PoE injector or switch
- Provides up to seven PoE network devices with power and data
- Doubles the connection distance between PoE source and device from 100 m (328 ft.) to 200 m (656 ft.)
- Powered via PoE, DC power adapter or industrial power supply (no power supply included)
- PoE power budget up to 120 watts (depending on the power supply used)
- Saves installation costs by delivering data and power over existing network cables
- IEEE 802.3at/af-compliant RJ45 PoE/PoE+ output ports
- Power output up to 30 watts per port
- Grounding point to protect equipment from external electrical surges
- Two redundant DC inputs (48 – 57 V) with I/O terminal block
- Port surge protection up to 6 kV
- Supports IEEE 802.3at and IEEE 802.3af-compliant PoE devices (e.g., wireless access points, VoIP phones, IP cameras)
- Supports IEEE 802.3at/af detection and short circuit, overload and high-voltage protection
- Option for DIN-rail installation
- Rated for shock (IEC 60068-2-27), freefall (IEC 60068-2-32) and vibration (IEC 60068-2-6)
- Wide operating temperature: -20 – 75° (-4 – 167°F)
- On/off switch to toggle VLAN
- 10/100/1000 auto-sensing ports automatically detect optimal network speeds
- 16 Gbps switch fabric
- Green Ethernet power-saving technology deactivates unused ports and adjusts power levels based on the cable length
- All RJ45 ports with Auto-MDIX (auto uplink) support
- Supports 4k MAC address entries with Auto-Learning and Auto-Aging
- Supports jumbo frames up to 9.2 kBytes
- Store and forward switching architecture
- Supports IEEE 802.3x flow control on full duplex and backpressure on half duplex
- LEDs for power, link/activity and PoE
- Fanless design ideal for silent operation
- Three-year warranty

## Specifications:

### Standards

- IEEE 802.3 (10Base-T Ethernet)
- IEEE 802.3u (100Base-TX Fast Ethernet)
- IEEE 802.3ab (Twisted Pair Gigabit Ethernet)
- IEEE 802.3af (Power over Ethernet 802.3at Type 1)
- IEEE 802.3at (Power over Ethernet 802.3at Type 2)
- IEEE 802.3az (Energy Efficient Ethernet [EEE])
- IEEE 802.3x (flow control for full-duplex mode)

### General

- Media support:
  - 10Base-T Cat5e UTP/STP RJ45, 8 pin
  - 100Base-TX Cat5e UTP/STP RJ45, 8 pin
  - 1000Base-T Cat5e UTP/STP RJ45, 8 pin
- Packet filter/forwarding rate:
  - 1,488,000 pps (1,000 Mbps)
  - 148,800 pps (100 Mbps)
  - 14,880 pps (10 Mbps)
- MAC address table: 4,000 entries
- Backplane speed: 16 Gbps
- Switch architecture: store and forward
- Certifications: FCC Class B, CE, RoHS

### LEDs

- PoE
- Power
- Link/activity

### PoE Pinout

- IEEE 802.3af/at Standard Mode A
  - Pin 1: DC (+)
  - Pin 2: DC (+)
  - Pin 3: DC (-)
  - Pin 6: DC (-)

### Power

- Via PD port (port 8)
  - Input: IEEE802.3af/at compliant
  - PoE Budget: 95 watts (maximum)
- Via DC power adapter
  - Input: 55 V DC/2.3 A
  - PoE Budget: 120 watts (maximum)
- Via DC industrial power supply
  - Input: 48 – 57 V
  - PoE Budget: 120 watts (maximum)



### Environmental

- Metal housing
- Dimensions: 108 x 138 x 50 mm (4.25 x 5.43 x 1.97 in.)
- Weight: 673 g (1.48 lbs.)
- Operating temperature: -20 – 70° (-4 – 158°F)
- Storage temperature: -40 – 75°C (-40 – 167°F)
- Operating humidity: 10 – 90% RH, non-condensing
- Storage humidity: 5 – 90% RH, non-condensing

### Package Contents

- 8-Port Gigabit Ethernet PoE+ Switch with PoE Passthrough
- DIN-rail mount bracket
- Instructions



