



## Outdoor PoE-Powered 5-Port Gigabit Switch with PoE Passthrough / 4-Port PoE+ Extender

One IEEE 802.3bt (PoE++ / 4PPoE) PD PoE Port with 90 W Power Input, Four IEEE 802.3at/af Compliant PSE PoE ports, Rainproof IP65, NEMA 4, for Wall- and Pole-Mounting, Adds up to 100 m (328 ft.) to PoE Range  
Part No.: 509220

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### Waterproof Outdoor PoE Switch with extra-high range and no need for AC power thanks to PoE Passthrough - great for network cameras

This PoE-Powered 5-Port Gigabit Switch from Intellinet Network Solutions is designed to take power from a PoE switch or injector and pass both data and electrical power directly to a number of PoE-compatible devices via standard Ethernet cables. Equipped with five Gigabit ports, it can power up to four IP video cameras or wireless access points, drawing its own power from the PoE switch it is connected to, and deliver network speeds of up to 1,000 Mbps. Its high range and weatherproof housing are especially useful for outdoor surveillance camera deployments, where both power and data connectivity are critical. As opposed to traditional 1-port outdoor PoE extenders, this 4-output switch simplifies the expansion of your outdoor infrastructure as needed for easier scalability of your network.

### Designed for Outdoor Use

For more information on Intellinet products, consult your local dealer or visit [www.intellinet-network.com](http://www.intellinet-network.com).

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While you can power it from an indoor source, this outdoor PoE+ switch offers benefits where traditional indoor switches are not suitable, especially for longer-distance applications in a wide variety of environments. Its weatherproof IP65 (waterproof and dustproof) rating and a wide operating temperature range of -40 to 80°C (-40 to 176°F) make it able to withstand even the harshest conditions like rain, snow, dust, and extreme heat.

## **Usable as a PoE extender for reduced wiring costs**

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 it this way also avoids the expense of running AC power lines to an outdoor device. Simply connect the switch to a PSE in your network through existing Cat5e/6/6a cables to deliver DC power as well as transfer data.

## **Power over Ethernet 802.3bt Compliant**

This switch supports the IEEE 802.3bt protocol over four pairs (4PPoE), which allows for a power input up to 90 W. It forwards data at Gigabit speeds and offers up to 30 watts per port to connected IEEE 802.3at- or IEEE 802.3af-compliant devices.

## **Wall-mount and pole-mount option**

For full installation flexibility, you can mount the switch on the wall or a pole through its built-in bracket with mounting holes.

### **Features:**

- PoE-powered switch in a weatherproof housing, ideal for IP camera installations and other outdoor PoE applications
- Supports up to 90 W power input from a IEEE 802.3bt PoE++ injector or switch for a PoE power budget up to 85 W
- Provides up to four PoE network devices with power and data
- IP65-rated, dustproof and waterproof, NEMA 4
- Suitable for extreme operating temperatures of -40 to 80°C (-40 to 176°F)
- Doubles the connection distance between PoE source and device from 100 m (328 ft.) to 200 m (656 ft.)
- Power output up to 30 watts per port
- 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

- PoE power budget of 25 W through IEEE 802.3at connection and 10.4 W through IEEE 802.3af connection
- 10 Gbps switch fabric / switching capacity
- 10/100/1000 auto-sensing ports that automatically detect optimal network speeds
- Auto-MDIX and NWay auto-negotiation support on all RJ45 ports
- Supports jumbo frames up to 9216 Bytes
- Store and forward switching architecture
- Supports 802.3x flow control for full duplex mode and collision-based backpressure for half duplex mode
- Supports 2k MAC address entries with Auto-learning and Auto-aging
- Buffer memory of 2 Mbits
- Grounding point to protect equipment from external electrical surges
- PoE surge protection up to 4 kV in common mode and 2 kV in differential mode for all RJ45 ports
- Bracket with installation holes on the back, suitable for wall and pole mounting
- Fanless design
- Plug-and-play installation; no configuration required
- Fully NDAA-compliant
- Three-year warranty

## Specifications:

### Standards

- IEEE 802.3 (10Base-T 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 802.3bt (PoE++/4PPoE Power over Ethernet)
- IEEE 802.3u (100Base-TX Fast Ethernet)
- IEEE 802.3x (flow control, for full duplex mode)

### General

- Ports
  - Four 10/100/1000 Mbps RJ45 PoE+ PSE output ports
  - One 10/100/1000 Mbps RJ45 uplink port that can also serve as a PoE+ PD input port
  - One 10/100/1000 Mbps RJ45 uplink port
- Media support
  - 10Base-T Cat5e/6/6a/8.1 UTP/STP RJ45, 8 pin
  - 100Base-TX Cat5e/6/6a/8.1 UTP/STP RJ45, 8 pin
  - 1000Base-T Cat5e/6/6a/8.1 UTP/STP RJ45, 8 pin
- MAC address table: 2k
- Buffer memory: 2 Mbits
- Forwarding rate: 7.44 Mpps

- MTBF: >50k hours
- Backplane speed/switch fabric: 10 Gbps
- Switch architecture: store and forward
- Certifications: FCC, CE, RoHS, UKCA, NDAA

#### LEDs

- POE IN
- POE OUT
- LINK
- PWR

#### Pinout RJ45 input port

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

#### Pinout RJ45 output ports

- Pin 1: DC (-)
- Pin 2: DC (-)
- Pin 3: DC (+)
- Pin 6: DC (+)

#### Power

- PoE input voltage: 50.0 - 57.0 V DC
- PD input and PoE power budget
  - 90.0 W (IEEE 802.3bt) input: 85 W total output
  - 30.0 W (IEEE 802.3at) input: 25.0 W total output
  - 15.4 W (IEEE 802.3af) input: 10.4 W total output

#### Physical

- IP65-rated plastic housing (weatherproof)
- Dimensions (L x W x H): 299 x 206 x 65 mm (11.77 x 8.11 x 2.66 in.)
- Net weight: 1 kg (2.2 lbs.)
- Gross weight: 1.3 kg (2.87 lbs.)
- Operating temperature: -40 - 80°C (-40 - 176°F)
- Storage temperature: -40 - 80°C (-40 - 176°F)
- Operating humidity: up to 90% RH, non-condensing
- Storage humidity: up to 95% RH, non-condensing

#### Package Contents

- Outdoor PoE-Powered 5-Port Gigabit Switch with PoE Passthrough / 4-Port PoE+ Extender

- Instructions





