



## Industrial 6-Port PoE+ Switch with 5 Gigabit Ethernet Ports and 1 SFP Uplink

IEEE 802.3at/af Compliant, Four PSE PoE+ Ports (up to 30 W per port), PoE Power Budget up to 120 W, IP50-Rated Metal Housing, Redundant Power Supply, DIN-Rail Mount and Wall-Mount Option

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### Industrial 6-Port PoE Switch - Power and Connectivity in One Rugged Package for Demanding Environments

The Industrial 6-Port PoE+ Switch from Intellinet Network Solutions delivers Power over Ethernet in a compact, durable form for demanding environments. With five Gigabit Ethernet ports - four of which support PoE+ (IEEE 802.3at/af) - and one SFP uplink port, this switch offers reliable, high-speed connectivity while simultaneously powering compatible devices like IP cameras, VoIP phones, and wireless access points. The PoE power budget of up to 120 watts (depending on the power supply used) ensures sufficient power even in high-load scenarios.

### Built to Perform in Extreme Conditions

Housed in a robust IP50-rated metal enclosure, this switch is engineered to perform in the harshest industrial settings. It withstands shock, vibration, and freefall (IEC 60068 standards) and operates within a wide temperature range of -40 to 75°C (-40 to 167°F). Whether installed in factory floors, outdoor enclosures, or transportation hubs, the switch maintains stable and consistent operation even in the most challenging environments.

### Flexible Mounting and Power Redundancy

Installation is simple and versatile, with both DIN-rail and wall-mounting options available to suit your setup. For enhanced network reliability, it features two redundant 48-57 V DC power inputs via an I/O terminal block. This redundancy ensures uninterrupted operation in the event of a power supply failure, making it a dependable choice for mission-critical systems.

### Reliable, Safe, and Energy-Conscious

To protect connected equipment and ensure long-term reliability, the switch includes surge protection up to 6 kV, ESD protection (8 kV air, 6 kV contact), and a grounding point for external surge mitigation. It also supports IEEE 802.3az Energy Efficient Ethernet, automatically reducing power consumption by disabling unused ports and adjusting power based on cable length.

### Ideal for Industrial and Government Applications

TAA compliance makes this switch suitable for federal procurement and institutional installations. Whether you're expanding an industrial automation system, securing a remote site, or modernizing a transportation hub, this Industrial 6-Port PoE+ Switch delivers rugged performance, efficient power delivery, and flexible deployment options to meet your networking needs.

### Features:

- Offers five Gigabit RJ45 Ethernet ports, with four supporting PoE+ to provide both power and data to connected devices
- One small form-factor pluggable (SFP) GBIC module slot for 1G uplink capability
- PoE power budget of 120 watts (depending on the power supply used)
- IP50 slim-type metal housing to withstand harsh industrial conditions
- Suitable for extreme operating temperatures of -40 to 75°C (-40 to 167°F)
- Option for DIN-rail installation
- Rated for shock (IEC 60068-2-27), freefall (IEC 60068-2-31) and vibration (IEC 60068-2-6)
- 24 Gbps switch fabric / switching capacity
- 10/100/1000 auto-sensing ports that automatically detect optimal network speeds
- Supports IEEE 802.3at and IEEE 802.3af-compliant PoE devices (wireless access points, VoIP phones, IP cameras)
- Supports IEEE 802.3at/af detection and short circuit, overload and high-voltage protection
- Two redundant DC inputs (48 - 57 V) with I/O terminal block
- ESD protection up to 8 kV (air) and 6 kV (contact)
- Port surge protection up to 6 kV
- Grounding point to protect equipment from external electrical surges
- Complies with the IEEE 802.3az (Energy Efficient Ethernet EEE) specification
- Green Ethernet power-saving technology that deactivates unused ports and adjusts power levels based on the cable length
- Auto-MDIX and NWay auto-negotiation support on all RJ45 ports

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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- Supports 2k MAC address entries with Auto-Learning and Auto-Aging
- Buffer memory of 2 Mbits
- Supports jumbo frames up to 9 kBytes
- Store and forward switching architecture
- Full/half duplex operation
- IEEE 802.3x flow control for full duplex
- LEDs for power, alarm, LAN, SFP, and PoE
- Fanless design for silent operation
- Requires additional industrial power supply (not included)
- Wall-mountable for network areas with limited floor space (wall-mounting hardware not included)
- Fully TAA-compliant
- 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)
- IEEE 802.3z (1000BASE-X Gigabit Ethernet)

### General

- Media support:
  - 10Base-T Cat5e/6/6a UTP/STP RJ45
  - 100Base-TX Cat5e/6/6a UTP/STP RJ45
  - 1000Base-T Cat5e/6/6a UTP/STP RJ45
- Packet filter/forwarding rate:
  - 1,488,000 pps (1000 Mbps)
  - 148,800 pps (100 Mbps)
  - 14,880 pps (10 Mbps)
- MAC address table: 2k
- Buffer memory: 2 Mbits
- Backplane speed / switching capacity: 24 Gbps
- Switch architecture: store and forward
- Certifications: FCC, CE, RoHS, REACH, UKCA, TAA
- MTBF: 1M hours

### Electrical

- Via DC industrial power supply (not included), 6-pin terminal block
  - Input: 48.0 - 57.0 V, up to 5.21 A
  - PoE power budget: 120.0 W (max.)
- DC output: up to 30.0 W per RJ45 PoE port

### LEDs

- Power
- Alarm
- LAN
- SFP
- PoE

### Pinout RJ45 output ports

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

### Terminal block Pinout

- PWR2: Pin 1 (V+) and Pin 2 (V-)
- PWR3: Pin 5 (V+) and Pin 6 (V-)
- ALARM: Pin 3 (+) and Pin 4 (-)

### Physical

- IP50-rated metal housing
- DIN rail: In accordance with IEC/EN 60715 (top hat)
- Dimensions (L x W x H): 127 x 101 x 39 mm (5 x 3.98 x 1.53 in.)
- Net weight: 358 g (0.79 lbs.)
- Gross weight: 649 g (1.43 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: 12-24

#### Package Contents

- 6-Port PoE+ Switch with 5 Gigabit Ethernet Ports and 1 SFP Uplink
- Instructions

