

24-Port Gigabit Ethernet PoE+ Web-Managed Switch with 2 SFP Ports

240 W PoE Power Budget, IEEE 802.3at/af Power over Ethernet (PoE+/PoE), 2 x SFP, Self-Healing Network, Endspan, 19" Rackmount

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Save installation time and money with Power over Ethernet.

The Intellinet Network Solutions 24-Port Gigabit Ethernet PoE+ Web-Managed Switch with 2 SFP Ports (560559) is designed to pass both data and electrical power to a number of PoE-compatible devices via standard Cat5e or Cat6 network cables. Equipped with 24 Gigabit Ethernet ports, all of which support 802.3at/af Power over Ethernet (PoE/PoE+), this switch can power Wireless LAN access points and bridges, VoIP (Voice over Internet Protocol) telephones, IP surveillance cameras and more while delivering network speeds of up to 1000 Mbps.

Self-Healing Network with increased reliability and stability - Intellinet Powered Device Monitor (PDM)

This Power over Ethernet switch is equipped with Powered Device Monitoring, a self-healing PoE function. This PoE watchdog performs a PD alive check to all connected PDs and automatically resets unresponsive devices, such as PoE security surveillance cameras, by cutting off and then restoring power. The PDM function is especially useful in applications where connected devices are critical to network operation, such as in industrial or surveillance settings. As an added benefit, the PD Alive function helps eliminate unnecessary technical support calls and costly field trips by field-support engineers because the functional reboot can often bring the unresponsive device back online.

Power over Ethernet 802.3at

The Intellinet Network Solutions 24-Port Gigabit Ethernet PoE+ Web-Managed Switch with 2 SFP Ports supports the IEEE 802.3at protocol and is designed to inject up to 30 watts of power per port*. IEEE802.3af or IEEE802.3at compliant devices attached to the switch require no additional power, thus eliminating the time and expense of electrical rewiring and minimizing the unsightly clutter caused by power supplies and adapters in awkward places such as ceilings and walls. Any mix of PoE and non-PoE devices is supported, and thanks to its short circuit, overload and high-voltage protection function, your equipment is well-protected. For devices that are not 802.3at/af compliant (legacy wireless access points or network cameras), we suggest the use of an Intellinet Network Solutions PoE/PoE+ Splitter.

Eliminate Bottlenecks with Gigabit Speeds

Equipped with 24 auto-sensing 10/100/1000 Mbps RJ45 Gigabit Ethernet ports, the 24-Port Gigabit Ethernet PoE+ Web-Managed Switch with 2 SFP Ports offers plenty of performance for your computers, servers and other networking devices. In addition, two small form-factor pluggable GBIC module slots (SFP) provide fiber connectivity for greater distances.

Web-Management

This PoE switch is equipped with an impressive array of advanced management functions that allow you to be in full control over your network. The 24-Port Gigabit Ethernet PoE+ Web-Managed Switch with 2 SFP Ports supports VLAN, port aggregation, QoS, port mirroring, SNMP V1 and the popular SNMP V2c, just to name a few.

How our PoE scheduling saves you energy

As part of our Self-Healing Networks suite, our managed switches are not only capable of providing high power but also of controlling the power supply efficiently. The "PoE scheduling" function allows you to turn on or off the PoE power for each PoE port at specific time intervals. Turning off devices like IP phones and access points outside of office hours helps your enterprise reduce its energy costs and protect the environment.* *Total PoE budget for this switch is 240 watts. Per-port average power distribution is 10 watts; maximum per-port power usage cannot exceed 30 watts.*

Features:

- Provides power and data connection for up to 24 PoE network devices
- Save installation cost by delivering data and power over existing network cables
- Self-Healing Network - the Powered Device Monitor feature (PDM) restarts any connected PoE device that fails to respond or send out network traffic
- Domotz compatible for cloud management (may require firmware upgrade)
- 10/100/1000 auto-sensing ports automatically detect optimal network speeds
- Two small form-factor pluggable GBIC module slots (SFP)
- IEEE 802.3at/af-compliant RJ45 PoE/PoE+ output ports

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- Power output up to 30 watts per port*
- PoE power budget of 240 watts
- Supports both PoE modes A (even ports) and B (odd ports)
- Supports IEEE 802.3at and IEEE 802.3af-compliant PoE devices (wireless access points, VoIP phones, IP cameras)
- Green Ethernet power-saving technology deactivates unused ports and adjusts power levels based on the cable length
- Complies with the IEEE 802.3az (Energy Efficient Ethernet EEE) specification
- IEEE 802.3az (Energy Efficient Ethernet EEE) can be deactivated
- Supports IEEE 802.3at/af detection and short circuit, overload and high-voltage protection
- All RJ45 ports with Auto-MDIX and NWay auto-negotiation support
- 52 Gbps switch fabric
- Web-based configuration
- Remote Reboot/restart
- Supports SNMP management
- Supports VLAN (tag-based and port-based)
- Provides IEEE 802.1x port-based security
- Supports link aggregation (trunking)
- IGMP Snooping for multicast filtering
- Supports bandwidth control per port
- Supports port mirroring
- Supports two types of QoS: port-based and DSCP
- Broadcast storm control with multicast packet rate settings
- Supports jumbo frames up to 9 kBytes
- Supports Rapid Spanning Tree/Spanning Tree protocol
- Store and forward switching architecture
- Full/half duplex operation
- IEEE 802.3x flow control for full duplex
- Supports 8k MAC address entries
- 512 kBytes buffer memory
- LEDs for power, link/activity and PoE
- Two high-volume cooling fans ensure perfect ventilation
- Includes 19" rackmount brackets
- Fully NDAA-compliant
- Three-Year Warranty

Specifications:

Standards
• IEEE 802.1d (Spanning Tree Protocol)
• IEEE 802.1p (Traffic Prioritization)
• IEEE 802.1q (VLAN Tagging)
• IEEE 802.1w (Rapid Spanning Tree Protocol)
• IEEE 802.3 (10Base-T Ethernet)
• IEEE 802.3ab (Twisted Pair Gigabit Ethernet)
• IEEE 802.3ad (Link Aggregation Control Protocol LACP)
• 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) (can be deactivated)
• IEEE 802.3u (100Base-TX Fast Ethernet)
• IEEE 802.3x (flow control, for full duplex mode)

General
• Media support:
  - 10Base-T Cat3, 4, 5 UTP/STP RJ45
  - 100Base-TX Cat5 UTP/STP RJ45
  - 1000Base-T Cat5e 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: 8k
• Backplane speed: 52 Gbps
• Switch architecture: store and forward
• Configuration Options:
  - Port link speed: 10 Mbps, 100 Mbps, 1000 Mbps or auto-negotiation
  - PoE on/off per port
  - Flow control on/off per port
  - VLAN
  - Rate limiting (ingress rate and egress rate)
  - Port Mirroring
  - Port Aggregation/LACP: 8 groups
  - Broadcast Storm configuration with broadcast rate, multicast rate, and flooded unicast rate

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- IGMP Snooping
- Quality of Service (QoS): port-based or DSCP
- Link Layer Discovery Protocol (LLDP) - Station and Media Access Control Connectivity Discovery
- Integrated VeriPHY cable diagnostics tool
- Integrated ICMP Ping client sends ping requests to other network nodes
- SNMPv1/v2c (Simple Network Management Protocol)
- LAN settings (IP address, Gateway, etc.)

• PoE Scheduling
• Certifications: FCC Class A, CE, UKCA, NDAA, BSMI

LEDs
• PoE
• Power
• Link/activity

Power
• Input: 90 – 260 V AC, 50 – 60 Hz
• Power consumption: 260 watts (maximum)

Environmental
• Metal housing
• Dimensions: 440 (W) x 208 (L) x 44 (H) mm (17.3 x 8.19 x 1.7 in.)
• Weight: 3.05 kg (6.72 lbs.)
• Operating temperature: 0 – 40°C (32 – 104°F)
• Operating humidity: 10 – 90% RH, non-condensing
• Storage temperature: -20 – 70°C (-4 – 158°F)

Package Contents
• 24-Port Gigabit Ethernet PoE+ Web-Managed Switch with 2 SFP Ports
• Power cable
• User manual









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