

Industrial 8-Port Gigabit Ethernet PoE+ Layer 2+ Web-Managed Switch with 2 SFP Ports

240 W PoE Power Budget, IEEE 802.3at/af (PoE+/PoE) Compliant, Layer 2+/Layer 3 Lite, IP30-Rated Metal Housing, Self-Healing Network, Endspan, DIN-Rail Mount

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8-Port Gigabit Ethernet PoE+ L2+ Web-Managed Industrial Switch with 2 SFP Ports — managed high-power PoE+ connectivity for harsh industrial environments

The 8-Port Gigabit Ethernet PoE+ Web-Managed Industrial Switch with 2 SFP Ports from Intellinet Network Solutions was designed to give you the network connections and device power you need in places that are less than calm or temperate. With its rugged, IP30-rated protective metal housing, the switch operates reliably and quietly, even in extreme temperatures that range from -40 to 185°F (-40 – 85°C). In combination with its DIN-rail mounting option and two safe redundant DC power inputs with power failure alarm and plenty of other safety features, this switch is ideal for IoT applications in Industry 4.0 and more.

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.

Gigabit Speeds paired with a large Power Budget

Featuring eight auto-sensing 10/100/1000 Mbps RJ45 Gigabit Ethernet ports, this managed switch offers plenty of performance for the devices in your network. The switch features a power budget of 240 W and can distribute a full 30 W (per the IEEE 802.3at standard) to every RJ45 port simultaneously. Also, two small form-factor pluggable GBIC module slots (SFP) provide fiber connectivity for greater distances.

Advanced Management and Security Features

This PoE switch comes with an impressive array of advanced management functions that give you full control over your network and keep you securely protected from ARP attacks. Among those functions are VLAN, port aggregation, QoS, port mirroring, SNMP management and Remote Monitoring (RMON). Port binding allows a specific MAC address to be bound to a port, and then only that MAC has the privilege to access the network. Thanks to 802.1X port-based access control, every user needs to be authorized first when they want to access the network. The access control list (ACL) lets you define access privilege based on IP or port number.

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.

Features:

- Provides power and data connections for up to eight PoE network devices
- Saves installation costs 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)
- IP30-rated metal housing to withstand harsh industrial conditions
- Wide operating temperature: -40 – 85°C (-40 – 185°F)
- Option for DIN-rail installation

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- 10/100/1000 auto-sensing ports that automatically detect optimal network speeds
- Two small form-factor pluggable GBIC module slots (SFP)
- IEEE 802.3at/af-compliant RJ45 PoE/PoE+ output ports
- Power output up to 30 watts per port
- PoE power budget of 240 watts (depending on the power supply used)
- Two redundant DC inputs (45 – 57 V) with I/O terminal block
- Power failure alarm (one-way relay output, current load capacity 1A @ 24 V DC)
- Port surge protection up to 6 kV
- Grounding point to protect equipment from external electrical surges
- Rated for shock (IEC 60068-2-27), freefall (IEC 60068-2-32) and vibration (IEC 60068-2-6)
- 20 Gbps switch fabric
- Supports IEEE 802.3at- and IEEE 802.3af-compliant PoE devices (wireless access points, VoIP phones, IP cameras, etc.)
- Supports IEEE 802.3at/af detection and short circuit, overload and high-voltage protection
- PoE scheduling to help save energy
- Auto-MDIX and NWay auto-negotiation support on all RJ45 ports
- Complies with the IEEE 802.3az (Energy Efficient Ethernet EEE) specification
- Green Ethernet power-saving technology deactivates unused ports and adjusts power levels based on the cable length
- SNMP Management and Remote Monitoring (RMON)
- Supports VLAN (tag-based and port-based)
- Supports two types of QoS: port-based and DSCP
- Provides IEEE 802.1x port-based security
- Supports link aggregation (trunking)
- Supports bandwidth control per port
- Supports port mirroring
- IGMP Snooping for multicast filtering
- Broadcast storm control with multicast packet rate settings
- Supports 8k MAC address entries with Auto-learning and Auto-aging
- 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
- Configuration via Web browser, Telnet, SSH or console port
- LEDs for power, link/activity, PoE and SFP
- Fanless design for silent operation
- Requires additional industrial power supply (not included)
- 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 802.3i (Twisted pair 10BASE-T Fast Ethernet)
• IEEE 802.3u (100Base-TX Fast Ethernet)
• IEEE 802.3x (Flow control for full-duplex mode)
• IEEE 802.3z (1000BASE-X Gigabit Ethernet)
• IEEE 802.3az (Energy Efficient Ethernet EEE)

General
• Media support:
RJ45 —
- 10Base-T: Cat3, 4, 5 UTP/STP
- 100Base-TX: Cat5 UTP/STP
- 1000Base-T: Cat5e UTP/STP
SFP —
- 1000Base-SX: 50 µm / 62.5 µm MMF (2 – 550 m)
- 1000Base-LX: 50 µm / 62.5 µm MMF (2 – 550 m) or 10 µm SMF (2 – 5,000 m)
• Packet filter/forwarding rate:
- 1,488,000 pps (1,000 Mbps)
- 148,800 pps (100 Mbps)
- 14,880 pps (10 Mbps)
• MAC address table: 8k
• Backplane speed / switch fabric: 20 Gbps
• Ring Protection Protocol: Ethernet Ring Protection Switching (ERPS)
• Switch architecture: store and forward
• Configuration options:
- Port link speed: 10 Mbps, 100 Mbps, 1,000 Mbps or auto-negotiation

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- PoE on/off per port
- PD monitor function, watch guard
- PoE Scheduling
- Flow control on/off per port
- VLAN
- Rate limiting
- Port mirroring
- Port aggregation / LACP
- Broadcast storm configuration with broadcast rate, multicast rate, and flooded unicast rate
- IGMP snooping
- Quality of Service (QoS): IEEE 802.1p or DSCP
- 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.)
• Certifications: FCC Class A, CE, UKCA, NDAA

LEDs
• PoE
• Power
• Link/activity
• SFP

Power
• DC input voltage: 48.0 – 57.0 V, up to 5.3 A
• Power consumption: 255 watts (maximum)

Environmental
• IP30-rated metal housing
• DIN-rail: In accordance with IEC/EN 60715 (top hat)
• Dimensions: 175 (L) x 140 (W) x 55 (H) mm (6.89 [L] x 5.51 [W] x 2.17 [H] in.)
• Weight: 448 g (0.99 lbs.)
• Operating temperature: -40 – 85°C (-40 – 185°F)
• Operating humidity: 5 – 95% RH, non-condensing
• Storage temperature: -40 – 85°C (-40 – 185°F)

Package Contents
• 8-Port Gigabit Ethernet PoE+ Web-Managed Industrial Switch with 2 SFP Ports
• DIN-rail mount bracket






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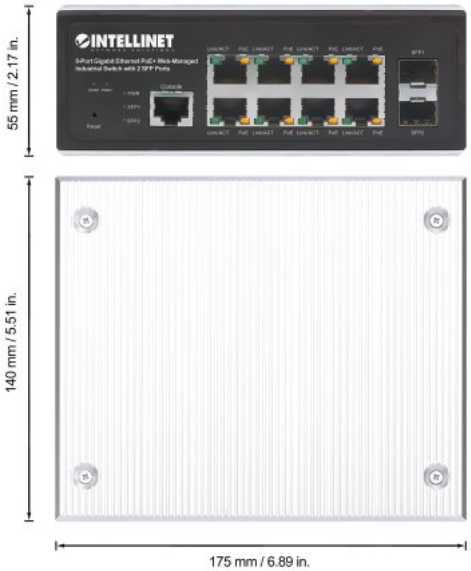

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