

10-Port L2+ Fully Managed PoE++ Switch with 8 Gigabit Ethernet Ports and 2 SFP Uplinks

242 W PoE Power Budget, IEEE 802.3bt (4PPoE) Compliant (2 x 90 W Ports, 6 x 30 W Ports), Layer 2+/Layer 3 Lite, Two 1G SFP Open Slots, Self-Healing Network, Desktop Format, Includes Optional 19" Rackmount Brackets

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PoE++ IEEE 802.3bt Layer 2+ Managed Switch with Two Gigabit Uplinks and Self-Healing Network features

The 10-Port L2+ Fully Managed PoE++ Switch with 8 Gigabit Ports and 2 SFP Uplinks from Intellinet Network Solutions is the feature-rich installer’s choice for small businesses and enterprises. Two 10/100/1000BASE-T 4PPoE (PoE++) ports deliver up to 90 watts to even the most power-hungry devices like Thin Clients, POS systems or PTZ speed dome cameras. Six more PoE+ Gigabit ports power devices like IP phones and IP cameras with up to 30 W per port. Any IEEE802.3bt/at/af-compliant device attached to the switch requires no additional power, which avoids the time and expense of electrical rewiring and reduces the clutter from power supplies and adapters on ceilings and walls. This managed switch supports any mix of PoE and non-PoE devices, and thanks to its short circuit, overload and high-voltage protection function, your equipment is well-protected.

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

This managed PoE switch is equipped with Powered Device Monitoring, a self-healing PoE function. A built-in PoE watchdog performs a PD alive check on 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 crucial 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 trips by field-support engineers because the functional reboot can often bring the unresponsive device back online.

Web Management

Equipped with an impressive array of advanced management functions, this managed switch allows you to be in full control of your network. It supports VLAN, port aggregation, QoS, port mirroring, SNMP V1 and the popular V2c, just to name a few. It's also Domotz compatible for even easier management via the cloud.

PoE Management

This web-managed switch provides extensive PoE management features. The delay-time-per-port feature reduces the power hike that usually happens at system start, and the PoE priority feature (low, medium, high) allows you to define mission-critical, high-priority ports that will continue to receive power even if the switch's power budget has been exceeded. You can also define the maximum available power per port, turn PoE on and off at each port and monitor the current power draw of all connected PoE devices. Additionally, this managed network switch can send SNMP-traps messages to alert the administrator that the total power draw on the switch exceeds the user-defined threshold value.

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.

Eliminate Bottlenecks with a total of Ten Gigabit Ports

Equipped with eight auto-sensing 10/100/1000 Mbps RJ45 Gigabit Ethernet ports, this switch 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. These are not shared combo ports, but true Gigabit ports, pushing the total available bandwidth up to 20 Gbps.

Features:

- Provides up to eight PoE network devices with power and data
- Two 1G small form-factor pluggable (SFP) module slots

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- Self-Healing Network - the Powered Device Monitor feature (PDM), also known as PD Alive Check, restarts any connected PoE device that fails to respond or send out network traffic
- Domotz compatible for cloud management
- PoE power budget of 242 watts
- PoE++ output up to 90 watts on ports 7 and 8 ; PoE+ output up to 30 watts on ports 1 through 6
- Supports 802.1Q VLAN (tag-based and port-based)
- 10/100/1000 auto-sensing ports that automatically detect optimal network speeds
- Supports IEEE 802.3bt/at/af-compliant PoE devices (wireless access points, VoIP phones, IP cameras and more)
- Supports IEEE 802.3bt/at/af detection and short circuit, overload and high-voltage protection
- All RJ45 ports with Auto-MDIX and NWay auto-negotiation support
- 20 Gbps switch fabric / switching capacity
- SNMP Management and Remote Monitoring (RMON)
- IPv4/v6 dual protocol
- Supports link aggregation (trunking)
- IGMP Snooping for multicast filtering
- Supports bandwidth control per port
- Supports port mirroring
- Supports two types of QoS: CoS and DSCP
- Broadcast storm control with multicast packet rate settings
- Supports jumbo frames up to 9216 Bytes
- Store and forward switching architecture
- Full/half duplex operation
- Supports 802.3x flow control for full duplex mode and collision-based backpressure for half duplex mode
- Supports 8k MAC address entries with Auto-learning and Auto-aging
- Buffer memory of 4.1 Mbits
- Grounding point to protect equipment from external electrical surges
- PoE surge protection (4 kV) for all RJ45 ports
- ESD protection up to 8 kV for air and 4 kV for contact
- Configuration via Web browser, Telnet, SSH or RJ45 console port
- LEDs for power, link/activity, PoE and system
- One high-efficiency fan for quiet, reliable cooling
- Includes 19" rackmount brackets
- Fully NDAA-compliant
- Three-year warranty

Specifications:

Standards
• IEEE 802.1p (Traffic Prioritization)
• IEEE 802.1q (VLAN Tagging)
• IEEE 802.3ad (Link Aggregation)
• IEEE 802.3z Gigabit SX/LX
• 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 802.3bt (PoE++/4PPoE/Ultra Power over Ethernet)
• IEEE 802.3u (100Base-TX Fast Ethernet)
• IEEE 802.3x (flow control, for full-duplex mode)

General
• Ports
  - Eight 10/100/1000 Mbps RJ45 PoE-enabled ports
  - Two Gigabit SFP slots
  - One console port
• 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
• MAC address table: 8k
• Buffer memory: 4.1 Mbits
• Forwarding rate: 14.88 Mpps
• MTBF: 392,650 hours
• Backplane speed/switch fabric: 20 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
  - PoE maximum power per port
  - PoE mode per port

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- PoE priority per port: low, medium, high
- PoE alarm notification via SNMP traps
- PoE delay start configuration per port
- PoE restart time configuration per port
- PoE status monitoring

• PD monitor function, watch guard
• PoE Scheduling
• Flow control on/off per port
• VLAN
• Rate Limiting (ingress rate and egress rate)
• Port Mirroring, one-to-one or many-to-one
• Port Aggregation/LACP: 8 groups
• Broadcast Storm configuration with broadcast rate, multicast rate and flooded unicast rate
• IGMP Snooping
• Access management filtering: SNMP, HTTP, HTTPS, SSH, TELNET
• Quality of Service (QoS): CoS or DSCP
• Link Layer Discovery Protocol (LLDP)
• Integrated ICMP Ping client sends ping requests to other network nodes
• SNMPv1/v2c/v3 (Simple Network Management Protocol)
• RMON 1, 2, 3 and 9 groups (statistic, history, alarm and event)
• TACACS+ via command line
• Built-in RADIUS client to cooperate with the RADIUS servers
• Tracert utility
• Access Control List: MAC-based and IPv4/IPv6 IP-based ACL
• Built-in Trivial File Transfer Protocol (TFTP) client
• Dynamic ARP Inspection (DAI) discards ARP packets with invalid MAC-address to IP-address binding
• DoS attack prevention
• DHCP: Client/Option82/Snooping
• LAN settings (IP address, Gateway, etc.)
• SSHv2
• Certifications: FCC, CE, RoHS, UKCA, NDAA

LEDs
• PoE
• Power
• Link/Activity

Buttons
• Mode
• Reset

Pinout RJ45 output ports (PoE+ ports 1 - 6)
- Pin 1: DC (-)
- Pin 2: DC (-)
- Pin 3: DC (+)
- Pin 6: DC (+)

Pinout RJ45 output ports (PoE++ ports 7 - 8)
- Pin 1: DC (-)
- Pin 2: DC (-)
- Pin 3: DC (+)
- Pin 4: DC (+)
- Pin 5: DC (+)
- Pin 6: DC (+)
- Pin 7: DC (-)
- Pin 8: DC (-)

Power
• Input: 100.0 - 240.0 VAC, 50 - 60 Hz, internal power supply
• PoE power budget: 242.0 watts (max.)
• Power consumption: 252.0 W (max.)

Physical
• Metal housing
• Dimensions (L x W x H): 230 x 280 x 44 mm (9.06 x 11.02 x 1.73 in.)
• Net weight: 2.5 kg (5.51 lbs.)
• Gross weight: 2.65 kg (5.84 lbs.)

Environmental
• Operating temperature: 0 - 45°C (32 - 113°F)
• Storage temperature: -40 - 70°C (-40 - 158°F)

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• Operating humidity: 10 - 90% RH, non-condensing
• Storage humidity: 5 - 90% RH, non-condensing

Package Contents
• 10-Port L2+ Fully Managed PoE++ Switch with 8 Gigabit Ports and 2 SFP Uplinks
• Power cable
• Instructions
• 19" rackmount brackets








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