

48-Port Gigabit Ethernet PoE+ Layer2+ Managed Switch with 10 GbE Uplink

48 x PoE ports, IEEE 802.3at Power over Ethernet (PoE+), Layer 2+, 2 x 10 GbE SFP+ open slots, Endspan, 19" Rackmount

Part No.: 561112

Save installation time and money with PoE.

The Intellinet 48-Port Gigabit Ethernet PoE+ Managed Switch with 2 SFP+ Ports (561112) 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 48 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 providing a total switching capacity of 136 Gbps in for your network.

Power over Ethernet 802.3at

The Intellinet 48-Port Gigabit Ethernet PoE+ Managed Switch with 2 SFP+ 10 Gigabit Uplink 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 use of an Intellinet PoE/PoE+ Splitter.

Future-Proof with 10 Gigabit Ethernet (IEEE 802.3ae)

Equipped with two 10 GbE SFP+ open slots, the Intellinet 48-Port PoE+ Managed Rackmount Gigabit Switch is the ideal solution for cost-sensitive organizations considering 10 Gigabit Ethernet. With 10 GbE technology going mainstream and becoming ever more popular, the need for additional bandwidth has become more urgent than ever before - even in smaller networks. Whether you wish to connect servers, network attached storage units or NVRs at 10 Gbps, or perhaps you simply want to connect to another Gigabit switch without resorting to LACP techniques, 10 GbE provides the solution. And in case you are not quite ready for 10 GbE just yet, the Intellinet 48-Port PoE+ Managed Gigabit Switch will happily take standard 1.25G SFP transceiver modules, until the time is right for you to make the switch.

Eliminate Bottlenecks with Gigabit Speeds

Equipped with 48 auto-sensing 10/100/1000 Mbps RJ45 Gigabit Ethernet ports, the Intellinet 48-Port Gigabit Switch offers plenty of performance for your computers, servers and other networking devices.

Full Layer 2+ Management Features

The switch includes full Layer 2+ Management features. The software set includes up to 4k 802.1Q VLAN and advanced protocol VLAN, private VLAN and MVR. There are eight physical Quality of Service queues, IPv4/v6 Multicast filtering, Rapid Spanning Tree Protocol to avoid network loop, Multiple Spanning Tree Protocol to integrate VLAN and spanning tree, LACP, LLDP; sFlow, port mirroring, cable diagnostic and advanced network security features. It also provides Console CLI for out-of-band management and SNMP, Web GUI for in-band management.

Advanced Security

The Intellinet 48-Port PoE+ Managed Gigabit Switch supports advanced security features. For secure switch management, HTTPS and SSH are provided. In addition, the login password and configuration packets are secured. Port binding allows to bind a specific MAC address 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

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network. AAA stands for Authentication, Authorization and Accounting with RADIUS, TACAS+ server. The Layer 2+ access control list (ACL) allows the user to define the access privilege based on IP, MAC address or Port number.

* Total PoE budget for this switch is 400 watts. Per-port average power distribution is 8.3 watts; maximum per-port power usage cannot exceed 30 watts.

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Features:

- Provides power and data connection for up to 48 PoE network devices
- Save installation cost by delivering data and power over existing network cables
- 10/100/1000 auto-sensing ports automatically detect optimal network speeds
- Two small form-factor pluggable 10 GbE SFP/SFP+ module slots
- IEEE 802.3at/af-compliant RJ45 PoE/PoE+ output ports
- Power output up to 30 watts per port*
- PoE power budget of 400 watts
- 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
- All RJ45 ports with Auto-MDIX and NWay auto-negotiation support
- Complies with the IEEE 802.3az (Energy Efficient Ethernet EEE) specification
- 136 Gbps switch fabric
- SNMP Management and Remote Monitoring (RMON)
- SNMP V1, V2, V3 with RMON groups 1, 2, 3 & 9
- IPv4/v6 dual protocol
- 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 10 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 64k MAC address entries
- 8 MBytes buffer memory
- LEDs for power, link/activity and PoE
- Two high-volume cooling fans ensure perfect ventilation
- Includes 19" rackmount brackets
- Three-Year Warranty

Specifications:

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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 802.3ad (Link Aggregation)
• IEEE 802.3 (10Base-T Ethernet)
• IEEE 802.3ab (Twisted Pair Gigabit Ethernet)
• IEEE 802.3ad (Link Aggregation Control Protocol LACP)
• IEEE 802.3ae (10 Gigabit Ethernet over fiber)
• IEEE 802.3az (Energy Efficient Ethernet EEE)
• IEEE 802.3af (Power over Ethernet 802.3at Type 1)
• IEEE 802.3at (Power over Ethernet 802.3at Type 2)
• 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
• MAC address table: 64k
• Buffer memory: 8 MBytes
• Forwarding rate: 101.2 Mpps
• Backplane speed / switch fabric: 136 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
- 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): port-based or DSCP
- Integrated ICMP Ping client sends ping requests to other network nodes
- SNMPv1/v2c/v3 (Simple Network Management Protocol)
- RMON (1,2,3, & 9 groups)
- DHCP: Client/ Relay/ Option82/ Snooping
- LAN settings (IP address, Gateway, etc.)
- EEE Energy Efficient Ethernet

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- SSHv2
• Certifications: FCC Class A, CE

LEDs
• PoE
• Power
• Link/activity

Power
• Input: 100 – 240 VAC, 50 – 60 Hz
• Power consumption: 500 watts (maximum)

Environmental
• Metal housing
• Dimensions: 331 (L) x 440 (W) x 44 (H) [mm] / 13.03 (L) x 17.32 (W) x 1.73 (H) [in]
• Weight: 5.0 kg (11 lbs.)
• Operating temperature: 0 – 40°C (32 – 104°F)
• Operating humidity: 10 – 90% RH, non-condensing
• Storage temperature: -20 – 90°C (-4 – 194°F)

Package Contents
• 48-Port Gigabit Ethernet PoE+ Layer2+ Managed Switch with 10 GbE Uplink
• Power cable
• User manual
• 19" rackmount brackets






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