



## 20-Port L2+ Fully Managed PoE+ Switch with 16 Gigabit Ethernet Ports and 4 SFP+ Uplinks

IEEE 802.3at/af (PoE+/PoE) Compliant, 370 W PoE Power Budget, Layer 2+/Layer 3 Lite, Four 10G SFP+ Open Slots, Self-Healing Network, 19" Rackmount

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### 20-port Gigabit Ethernet Layer 2+ Managed Switch with Four 10G Uplinks - intelligent and secure edge connectivity, ideal for small and medium enterprise networks

This 16 + 4 Layer 3 Lite Gigabit Switch is a high-performance SNMP-managed device that provides users with eight 10/100/1000 Mbps Ethernet and two additional 10G SFP+ ports. The Web/SNMP management provides remote control capability for flexible network management and monitoring options. Whether managed through an "in-band" SNMP management station or an Internet Web browser, this Intellinet Network Solutions Gigabit switch facilitates network administration and problem diagnosis. It can also be trunked, providing a link up to 40G to another switch.

#### Flexible Network Management

The Intellinet Network Solutions 20-Port Web-Managed Gigabit Ethernet Switch is easy to use and manage, having been designed to increase business productivity by reliably supporting business applications. It features a Web-based GUI and supports SNMP, RMON and Telnet. The impressive list of features includes, but is not limited to, ACL management, sophisticated QoS-related settings, port mirroring, integrated IP-connectivity tools, logging, MAC filtering, RADIUS authentication, Port aggregation and detailed port rate configuration options.

#### 10 Gigabit Ethernet (IEEE 802.3ae)

Equipped with four 10G SFP+ open slots, this switch is the ideal solution for cost-sensitive organizations considering 10 Gigabit Ethernet. With 10G technology going mainstream and becoming ever more popular, the need for additional bandwidth has become more urgent than ever - even in smaller networks. Whether you wish to connect servers, network-attached-storage units or NVRs at 10 Gbps, or even simply connect to another gigabit switch without resorting to LACP techniques, 10G provides the solution. And in case you are not quite ready for 10G just yet, it will happily take standard 1G SFP transceiver modules until the time is right for you to make the switch.

#### 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.

#### 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 up to 16 PoE network devices with power and data
- Four small-form-factor pluggable SFP/SFP+ module slots for 10G uplink capability
- 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 370 watts
- Power output up to 30 watts per port
- Secure web management through HTTPS with TLS 1.3
- Secure Command Line Interface (CLI) management with SSHv2
- Supports VLAN (tag-based and port-based)
- 10/100/1000 auto-sensing ports that automatically detect optimal network speeds

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 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
- Auto-MDIX and NWay auto-negotiation support on all RJ45 ports
- 112 Gbps switch fabric / switching capacity
- 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
- 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 12 kBytes
- Store and forward switching architecture
- Supports 802.3x flow control for full duplex mode and collision-based backpressure for half duplex mode
- Supports 16k MAC address entries with Auto-learning and Auto-aging
- Buffer memory of 12 Mbits
- Configuration via Web browser, SNMP/Remote Monitoring (RMON), Telnet, SSH or RJ45 console port
- LEDs for power, link/activity, PoE and system
- Grounding point to protect equipment from external electrical surges
- Two high-volume cooling fans to ensure perfect ventilation
- 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 802.3 (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

- Ports
  - 16 x 10/100/1000 Mbps RJ45 PoE-enabled ports
  - Four 10G 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: 16k
- Buffer memory: 12 Mbits
- Forwarding rate: 83.33 Mpps
- MTBF: 90k hours
- Backplane speed/switch fabric: 112 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
- PD monitor function, watch guard
- PoE Scheduling
- Switch architecture: store and forward
- PD monitor function, watch guard
- Flow control on/off per port
- VLAN
  - Rate Limiting (ingress rate and egress rate)
  - Port Mirroring, one-to-one or many-to-one

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- Port Aggregation/LACP: 16 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)
- DHCP: Client/Option82/Snooping
- LAN settings (IP address, Gateway, etc.)
- Energy Efficient Ethernet (EEE)
- TLS 1.3
- SSHv2
- Certifications: FCC, CE, RoHS, UKCA

#### LEDs

- PoE
- Power
- Link/Activity
- System

#### Buttons

- Reset

#### Pinout RJ45 output ports

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

#### Power

- Input: 100.0 - 240.0 VAC, 50 - 60 Hz, internal power supply
- Power output per port: 30.0 W
- PoE power budget: 370.0 watts (max.)
- Power consumption: 425.0 W (max.)

#### Physical

- Metal housing
- Dimensions (L x W x H): 208 x 440 x 44 mm (8.19 x 17.32 x 1.73 in.)
- Net weight: 3 kg (6.61 lbs.)
- Gross weight: 3.85 kg (8.49 lbs.)

#### Environmental

- Operating temperature: 0 - 45°C (32 - 113°F)
- Storage temperature: -40 - 70°C (-40 - 158°F)
- Operating humidity: 10 - 90% RH, non-condensing
- Storage humidity: 5 - 90% RH, non-condensing

#### Package Contents

- 20-Port L2+ Fully Managed PoE+ Switch with 16 Gigabit Ethernet Ports and 4 SFP+ Uplinks
- Power cable
- Instructions
- 19" rackmount brackets



