18-Port PoE++ Switch with 16 Gigabit Ethernet Ports and 2 SFP Uplinks

IEEE 802.3bt (4PPoE) Compliant, 16 PSE PoE++ Ports (90 W), 440 W PoE Power Budget, Two 1G SFP Open Slots, 19" Rackmount

Part No.: 562232

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IEEE 802.3bt PoE Switch 18 Port - Unmanaged 19 inch Rackmount Gigabit PoE++ Switch with 10/100/1000 Mbps Uplinks

The 18-Port PoE++ Switch from Intellinet Network Solutions is the extra-powerful solution for small to medium-sized businesses. Featuring 16 Gigabit Ethernet ports and 2 SFP uplinks, this switch is designed to meet the demands of modern networking environments.

Power-Hungry Devices? No Problem

All 16 of the switch's 10/100/1000BASE-T 4PPoE (PoE++) ports deliver up to 90 watts each, ideal for power-intensive devices such as Thin Clients, POS systems, or PTZ speed dome cameras. Connected IEEE 802.3bt/at/af-compliant devices receive power directly through the switch, eliminating the need for separate power supplies and adapters. This saves time, reduces installation costs, and minimizes clutter on walls and ceilings. The switch also supports any combination of PoE and non-PoE devices, ensuring seamless integration into your existing setup. For added peace of mind, the switch includes short circuit, overload, and high-voltage protection to safeguard your valuable equipment.

Eliminate Bottlenecks with High-Speed Connectivity

With 16 auto-sensing 10/100/1000 Mbps RJ45 Gigabit Ethernet ports, this switch offers exceptional performance for computers, servers, and other network devices. Additionally, two dedicated SFP slots provide fiber connectivity for longer-distance links. These are true Gigabit ports - not shared combo ports - delivering a total available bandwidth of up to 36 Gbps to keep your network running at full speed.

Compact and Built to Last with Smart Fan

Designed for flexibility and durability, the switch comes in a compact, rugged metal housing perfect for desktop or 19" rack-mounting with the two included brackets. An adaptive, highly efficient fan adjusts its speed automatically based on the switch's chip temperature for quiet and reliable cooling.

Features:

- Provides up to 16 PoE network devices with power and data
- Two small form-factor pluggable (SFP) GBIC module slots for 1G uplink capability
- PoE power budget of 440 watts
- Power output up to 90 watts per port
- 36 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
- 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
- Ideal for power-hungry IoT devices like motorized IP cameras, thin clients, PoE lighting and more
- Saves installation costs by delivering data and power over existing network cables
- Supports jumbo frames up to 9 kBytes
- Store and forward switching architecture
- IEEE 802.3x flow control for full duplex
- Supports 8k MAC address entries with Auto-learning and Auto-aging
- Buffer memory of 4.1 Mbits
- Auto-MDIX and NWay auto-negotiation support on all RJ45 ports
- Provides IEEE 802.1x port-based security
- Smart, high-efficiency fan adjusts speed based on chip temperature for quiet and reliable cooling
- Includes 19" rackmount brackets
- Fully TAA-compliant
- Three-year warranty

Specifications:

Standards

- IEEE 802.3 (10Base-T Ethernet)
- IEEE 802.3ab (Twisted Pair Gigabit Ethernet)
- 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 802.3bt (PoE++/4PPoE/Ultra Power over Ethernet)
- IEEE 802.3u (100Base-TX Fast Ethernet)
- IEEE 802.3x (flow control for full duplex mode)

General
- Media support:
  - 10Base-T Cat5e/6/6a UTP/STP RJ45
  - 100Base-TX Cat5e/6/6a UTP/STP RJ45
  - 1000Base-T Cat5e/6/6a 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
- Buffer memory: 4.1 MBits
- Forwarding rate: 26.7 Mpps
- Backplane speed / switching capacity: 36 Gbps
- Switch architecture: store and forward
- Certifications: FCC, CE, RoHS, REACH, UKCA, TAA
- MTBF: 392,650 hours
- Smart fan operation
 - MAC/PHY IC temp. > 85 °C (185 °F): 6300 rpm
 - MAC/PHY IC temp. ≤ 85 °C (185 °F): 2000 rpm

LEDs
- PoE
- Power
- Link/Activity

Pinout RJ45 output ports
- 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: 440.0 W (max.)
- Power consumption: 480.0 W (max.)

Physical
- Metal housing
- Dimensions (L x W x H): 196 x 440 x 44 mm (7.71 x 17.32 x 1.73 in.)
- Net weight: 3.06 kg (6.75 lbs.)
- Gross weight: 3.91 kg (8.62 lbs.)

Environmental
- Operating temperature: 0 - 40°C (32 - 104°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
- 18-Port PoE++ Switch with 16 Gigabit Ethernet Ports and 2 SFP Uplinks
- Power cable
- Instructions
- 19" rackmount brackets (1U)