

Industrial 8 Port Gigabit PoE Switch - 4 x PoE+ 30W - Power Over Ethernet - Hardened GbE  
Layer/L2 Managed Switch - Rugged High Power Gigabit Network Switch IP-30/-40C to +75C - TAA

**Product ID:** IES81GPOEW



Easily deploy or scale your network with this Gigabit Ethernet switch, by adding eight copper Gigabit Ethernet (GbE) connections, including four PoE+ ports. This IP30 industrial network switch provides intelligent Layer 2 management. Its rugged, compact design and wall-mount option with front access make it ideal for demanding applications, even where space is limited.

This Gigabit Ethernet switch lets you expand your network by connecting up to eight RJ45 devices (four PoE+). The 8-port switch enables up to eight users to share files and devices, such as printers and scanners, over a LAN connection, by enhancing your existing network capacity with additional ports.

The switch gives you the freedom to place your equipment in locations where power outlets are not available, with support for Power over Ethernet Plus. The network switch provides abundant PoE power, with up to 30 watts for each PoE port (120W budget).

With its compact design, you can wall-mount the Gigabit switch to provide convenient front access to ports and indicators. It's ideal for a wide range of applications, including tight installation areas with significant electromagnetic interference, such as control cabinets and panels. The network switch is also DIN-rail mountable.

The switch delivers efficient and stable performance, with Layer 2 management capabilities. This lets you control packet traffic on a busy network, and customize your settings to achieve optimal network performance, offering improved efficiency and reliability.

This rugged network switch features an IP30-rated metal housing and extended operating temperature range of -40C to 75C, which makes it ideal for a wide range of conditions. The sturdy metal enclosure offers durability, even in harsh industrial environments.

With support for 10/100/1000Mbps transfer speeds, this managed switch supports full/half-duplex auto-negotiation, jumbo frames, and auto MDI/MDIX operation. This lets you connect your network devices quickly and easily, with little to no configuration required.

To help prevent any unnecessary downtime, the switch features redundant 12-58V DC terminal block power inputs,

which ensures seamless operation in the event of power dips or failures.

The IES81GPOEW is backed by a StarTech.com 2-year warranty and free lifetime technical support.

## Certifications, Reports and Compatibility



## Applications

- Install in a server rack or cabinet, or wall mount in a convenient location
- An ideal solution for many network applications including IP surveillance, wireless LAN, building/home automation network and Internet of things (IoT)
- Add small workgroups to expand your existing network in a business or home office
- Works well in industrial, non-climate controlled environments, such as warehouses

## Features

- **POWER OVER ETHERNET:** Industrial gigabit PoE switch up to 30W/4 PoE ports (PSE) to IEEE 802.3af (PoE) & IEEE 802.3at (PoE+) for cameras sensors wi-fi APs w/Cat5e or higher cable Total power budget 120W
- **FLAT DESIGN:** Compact IP-30 steel housing w/6kV ESD/Vibration/shock/free fall rating allows for front access w/easy install; DIN rail/wall mounting options w/hardware incl; -40C to 75C operating temps
- **FLEXIBLE POWER:** Rugged/hardened GbE network switch can be hardwired using terminal block (48-56VDC) power or by Type-M barrel plug (48-56V); terminal block kit included
- **TECH SPECS:** 8 port Gigabit switch; 4 PoE+ ports; 10/100/1000 Mbps auto negotiation; Managed Layer/L2; VLAN; MTBF 100000+ hrs @ 25C; Web GUI/SSH/Telnet; Link Aggregation/SNMP/QoS/Spanning Tree
- **STARTECH.COM ADVANTAGE:** IT professionals choice for over 30 years; This 8 port Gigabit switch is backed for 2-years by StarTech.com, including free 24/5 North America based multi-lingual tech support

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### Hardware

Warranty	2 Years
Ports	8
Industry Standards	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3u 100BASE-FX, IEEE 802.3z 1000BASE-SX, IEEE 802.3z 1000BASE-LX, 4-Port IEEE 802.3af/at Power over Ethernet end-span PSE

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**Performance**

Maximum Data Transfer Rate	2 Gbps (Full-Duplex)
Maximum Cable Length	328.0 ft [100 m]
Buffer Size	512 KB
Flow Control	IEEE 802.3x pause frame for full-duplex, back pressure for half-duplex
Surge Protection	6kV ESD, 6kV EFT
Compatible Networks	10/100/1000 Mbps
Auto MDIX	Yes
Full Duplex Support	Yes
Jumbo Frame Support	9K max.
Switching Architecture	Store-and-Forward
MTBF	> 100,000 hrs @ 25 degrees C
Supported Protocols	IEEE 802.3ad Port Trunk with LACP, IEEE 802.1D Spanning Tree Protocol, IEEE 802.1w Rapid Spanning Tree Protocol, IEEE 802.1s Multiple Spanning Tree Protocol, IEEE 802.1p Class of Service, RFC 3810 MLD version 2, RFC 792 ICMP, RFC 2068 HTTP, RFC 1112 IGMP version 1, RFC 2236 IGMP version 2, RFC 3376 IGMP version 3, RFC 2710 MLD version 1, IEEE 802.1Q VLAN Tagging, IEEE 802.1x Port Authentication Network Control, bIEEE 802.1ab LLDP, RFC 768 UDP, RFC 793 TFTP, RFC 791 IP

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**Connector(s)**

Connector Type(s)	4 - RJ-45
	4 - RJ-45 (PoE+)
	1 - Terminal Block (3 Wire)

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**Special Notes / Requirements**

Patents and Licenses	<p>The following patents are licensed for this product. This list might not be all inclusive.</p> <ul style="list-style-type: none"> <li>• United States Patent No. 5,406,260 (expired)</li> <li>• United States Patent No. 6,650,622</li> </ul>
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- United States Patent No. 7,457,250
- United States Patent No. 8,155,012
- United States Patent No. 8,902,760
- United States Patent No. 8,942,107
- United States Patent No. 9,019,838
- United States Patent No. 9,049,019
- United States Patent Application No. 14/695,456
- United States Patent Application No. 14/726,940

Note	4 ports support IEEE 802.3at Power over Ethernet Plus (PoE+) and IEEE 802.3af Power over Ethernet (PoE)  Supports PeE Powered Device alive check, scheduled power recycling, and time-based PoE schedule  PoE power up to 30W per PoE+ port (120W budget) and remote PoE power control  A power adapter is not included with this switch.
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#### Indicators

LED Indicators	1 - Power  8 - PoE Active (yellow)  Link/Activity (green)
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#### Power

Power Source	Terminal Block
Input Voltage	48 ~ 56V DC
Input Current	1A minimum
Plug Type	M

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#### Environmental

Operating Temperature	-40C to 75C (-40F to 167F)
Storage Temperature	-40C to 90C (-40F to 194F)
Humidity	5~95% RH (Non-Condensing)

**Physical  
Characteristics**

Color	Black
Material	Steel
Product Length	5.3 in [13.4 cm]
Product Width	4.6 in [11.8 cm]
Product Height	1.0 in [2.5 cm]
Weight of Product	23.7 oz [672 g]

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**Packaging  
Information**

Package Quantity	1
Package Length	6.9 in [17.6 cm]
Package Width	12.1 in [30.8 cm]
Package Height	3.6 in [92 mm]
Shipping (Package) Weight	2.2 lb [1.0 kg]

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**What's in the Box**

Included in Package	1 - network switch
	1 - terminal block connector
	4 - screw anchors
	4 - screws
	4 - attaching pins
	4 - locking pins
	4 - washers
	4 - magnets
	1 - DIN rail
	3 - DIN-rail screws
	8 - RJ45 dust caps

1 - quick-start guide

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**Warranty  
Information**

Warranty	2 Years
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*\*Product appearance and specifications are subject to change without notice.*

