

Industrial 8 Port Gigabit PoE+ Switch w/2 SFP MSA Slots - 30W - Layer/L2 Switch Hardened GbE Managed - Rugged High Power Gigabit Ethernet Network Switch IP-30/-40 C to 75 C - TAA

**Product ID:** IES101GP2SFW



Easily deploy or scale your network with this Gigabit Ethernet switch, by adding eight copper Gigabit Ethernet ports (PoE+) and two fiber-optic SFP slots. 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 versatile switch adapts to your network needs by providing two open SFP slots and eight RJ45 Ethernet ports (PoE+), providing both fiber and copper connections in a single network device. The MSA compliant SFP ports are compatible with 100/1000Mbps networks. The network switch enables you to connect up to eight RJ45 PoE+ devices, so different users can share files and devices, such as printers and scanners, over a LAN connection.

Dual power input (terminal block and DC plug) provides flexible power options. 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 (200W budget).

Wall-mount the compact 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 temperature range of -40C to 75C, which makes it ideal for a wide range of operating 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.

The IES101GP2SFW 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 8-port Gigabit PoE+ switch with 2 SFP ports, suitable for PoE devices such as cameras, sensors and WiFi APs using Cat5e or higher network cables; Up to 30W per PoE port with 200W total power budget for the switch
- **FLAT DESIGN:** Compact steel enclosure allows front access for easy installation and troubleshooting; IP-30 / vibration / shock / free fall ratings & 6kV ESD; DIN rail or wall mounting options available with all hardware included; RJ45 dust caps included
- **FULL LAYER 2 MANAGEMENT CAPABILITIES:** Built in web-based GUI / Telnet / SSH; This switch can be managed to configure features like Ports / VLAN / Link Aggregation / SNMP / QoS / Spanning Tree among others
- **TECH SPECS:** 8 x RJ45; 2 x Open SFP slot (MSA Compliant); 48-56VDC power input; 10/100/1000 Mbps; MTBF 500,000+ hours; Redundant power inputs with terminal block kit or AC adapter (not included); IEEE 802.3af & IEEE 802.3at Compliant
- **THE IT PRO'S CHOICE:** Designed and built for IT Professionals, this 8 port Gigabit switch is backed for 2-years, including free lifetime 24/5 multi-lingual technical assistance

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### General

|                  |              |
|------------------|--------------|
| UPC              | 065030871198 |
| Package Quantity | 1            |
| Warranty         | 2 Years      |

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## Compliance & Certifications

### Patents and Licenses

The following patents are licensed for this product. This list might not be all inclusive.

- United States Patent No. 5,406,260 (expired)
- United States Patent No. 6,650,622
- 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

## Special Notes / Requirements

### Special Notes

8 ports support IEEE 802.3at Power over Ethernet Plus (PoE+) and IEEE 802.3af Power over Ethernet (PoE)

Supports PoE Powered Device alive check, scheduled power recycling, and time-based PoE schedule

PoE power up to 30W per PoE+ port (200W budget) and remote PoE power control

A power adapter is not included with this switch.

## Power

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

## Physical & Environmental

|          |       |
|----------|-------|
| Color    | Black |
| Material | Steel |

|                       |                            |
|-----------------------|----------------------------|
| Product Length        | 5.3 in [13.4 cm]           |
| Product Width         | 7.0 in [17.8 cm]           |
| Product Height        | 1.0 in [25.0 mm]           |
| Weight of Product     | 21.8 oz [618.0 g]          |
| Operating Temperature | -40C to 75C (-40F to 167F) |
| Storage Temperature   | -40C to 90C (-40F to 194F) |
| Humidity              | 5-95% RH (Non-Condensing)  |

## Performance

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Surge Protection           | 6kV ESD, 6kV EFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Maximum Data Transfer Rate | 2 Gbps (Full-Duplex)                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Maximum Cable Length       | 328.1 ft [100 m]                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Buffer Size                | 512 KB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Flow Control               | IEEE 802.3x pause frame for full-duplex, back pressure for half-duplex                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Compatible Networks        | 10/100/1000 Mbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Auto MDIX                  | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Full Duplex Support        | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Jumbo Frame Support        | 9K max.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Switching Architecture     | Store-and-Forward                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 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 |
| MTBF                       | > 100,000 hrs @ 25 degrees C                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Hardware

|                    |                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Ports    | 10                                                                                                                                                                                                                                                                                                                                                                                   |
| Interface          | RJ45 (Gigabit Ethernet)<br><br>Fiber Ethernet                                                                                                                                                                                                                                                                                                                                        |
| Industry Standards | IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T<br><br>IEEE 802.3z 1000Base-SX/LX<br><br>IEEE 802.3az Energy-Efficient Ethernet, IEEE 802.3x Flow Control, IEEE 802.1q VLAN Tagging, IEEE 802.1p QoS, IEEE 802.1x Port-Based Network Access Control, IEEE802.3ad Link Aggregation, IEEE 802.1d Spanning Tree Protocol, IEEE 802.1w Rapid Spanning Tree Protocol |
| LED Indicators     | 1 - Power<br><br>8 - PoE Active (yellow)<br><br>Link/Activity (green)<br><br>2 - 100Mbps Link/Activity (yellow)<br><br>1000Mbps Link/Activity (green)                                                                                                                                                                                                                                |

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#### Packaging & In-the-Box

|                     |                                                                                                                                                                                                                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Included in Package | 1 - network switch<br><br>1 - terminal block connector<br><br>4 - screw anchors<br><br>4 - screws<br><br>4 - attaching pins<br><br>4 - locking pins<br><br>4 - washers<br><br>4 - magnets<br><br>1 - DIN rail<br><br>3 - DIN-rail screws<br><br>8 - RJ45 dust caps<br><br>2 - SFP dust caps |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

1 - quick-start guide

|                           |                  |
|---------------------------|------------------|
| Package Width             | 11.8 in [30 cm]  |
| Package Depth             | 6.8 in [17.2 cm] |
| Package Height            | 3.6 in [91.2 mm] |
| Shipping (Package) Weight | 31.6 oz [896 g]  |

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**Connector(s)**

|                        |                         |
|------------------------|-------------------------|
| Connector 1 (Quantity) | 8                       |
| Connector 1            | RJ-45                   |
| Connector 2 (Quantity) | 2                       |
| Connector 2            | SFP Slot                |
| Connector 3 (Quantity) | 1                       |
| Connector 3            | Terminal Block (3 Wire) |

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