

# Industrial 8-Port 10/100/1000T Wall-mounted Gigabit Ethernet Switch with 4-Port PoE+



## Easily-deployed and Expanded Network

Designed to be installed in a wall enclosure or simply mounted at any convenient location on a wall, PLANET WGS-804HP is an innovative, **wall-mounted industrial 8-port Gigabit Ethernet Switch with 4-port 802.3af/802.3at Power over Ethernet**. It comes in a compact but rugged IP30 metal housing. Featuring a total PoE budget of **120 watts**, ultra networking speed and operating temperature ranging from **-40 to 75 degrees C**, the WGS-804HP is an ideal solution to meeting the demand for sufficient PoE power for the following network applications.

- Building/Home automation network
- Internet of things (IoT)
- IP surveillance
- Wireless LAN

The WGS-804HP is able to operate reliably, stably and quietly in any environment without affecting its performance, and provides a quick, safe and easy deployment of PoE PDs with power feeding.



## Physical Port

- **8-Port 10/100/1000BASE-T** Gigabit RJ45 copper with 4-Port **IEEE 802.3at/af** PoE Injector function (Ports 1 to 4)

## Power over Ethernet

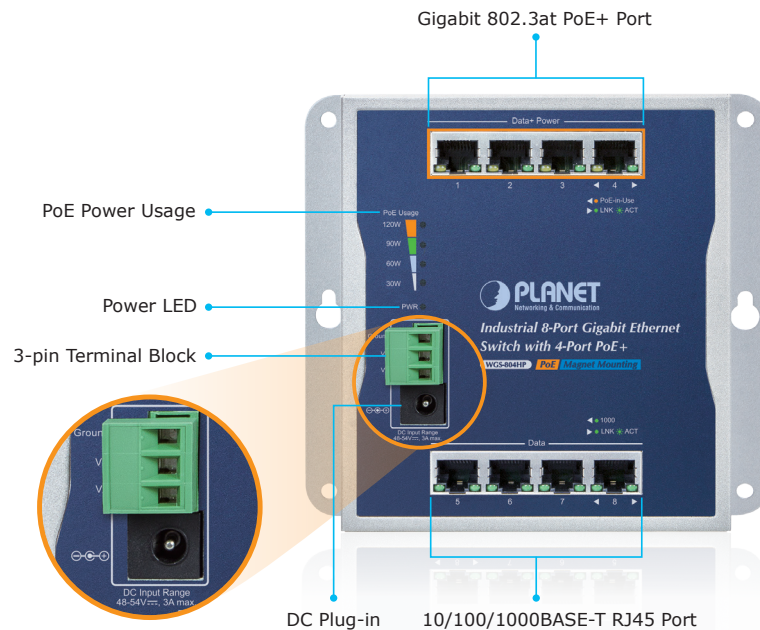
- Complies with IEEE 802.3at Power over Ethernet Plus, end-span PSE
- Backward compatible with IEEE 802.3af Power over Ethernet
- Up to 4 ports of IEEE 802.3af/802.3at devices powered
- Supports PoE power up to 36 watts for each PoE port
- Auto detects powered device (PD)
- Circuit protection prevents power interference between ports

## Switching

- Hardware-based 10/100Mbps, half/full duplex and 1000Mbps full duplex mode, flow control and auto-negotiation and auto MDI/MDI-X
- Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- IEEE 802.3x flow control for full duplex operation and back pressure for half duplex operation
- 8K MAC address table size
- 9K jumbo frame
- Automatic address learning and address aging
- Supports CSMA/CD protocol

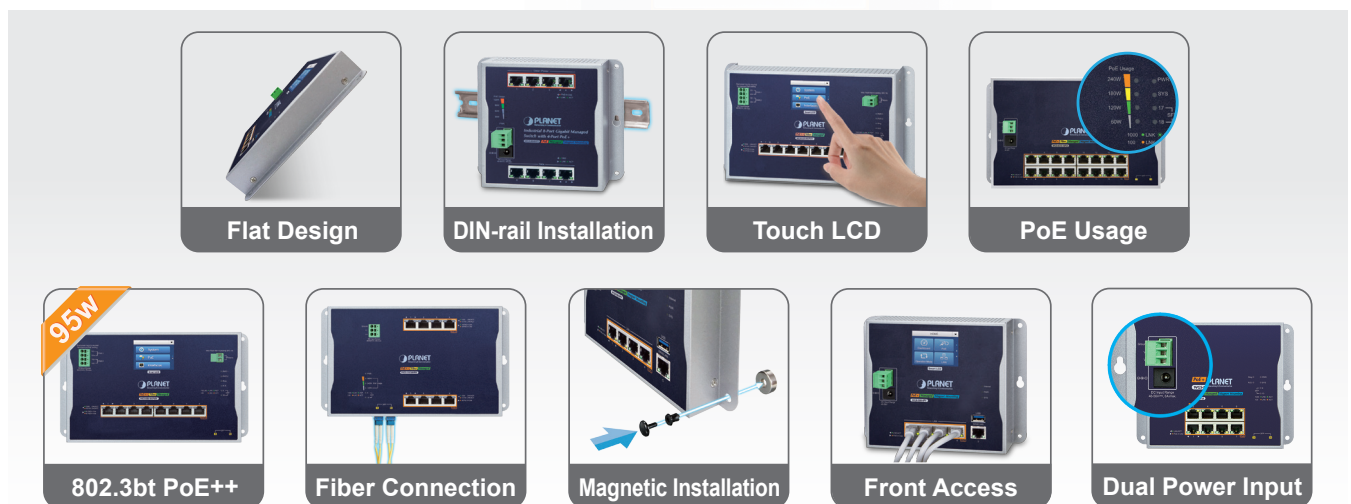
## Industrial Case and Installation

- Compact size, wall-mounted, magnetic wall mount and DIN-rail designs
- IP30 metal case
- Supports -40 to 75 degrees C operating temperature
- Supports EFT 6000VDC protection for power line
- Supports ESD 6000VDC Ethernet protection
- LED indicators for real-time PoE usage
- Redundant power design
  - 48V~54V DC wide power input
  - 3-pin terminal block or DC jack connector



### Innovative Wall-mount Installation

The WGS-804HP is specially designed to be installed in a narrow environment, such as wall enclosure. The compact, flat and wall-mounted design fits easily in any space-limited location. It adopts the user-friendly “**Front Access**” design, making the installing, cable wiring, LED monitoring and maintenance of the WGS-804HP placed in an enclosure very convenient for technicians. The WGS-804HP can be installed by **fixed wall mounting**, **magnetic wall mounting** or **DIN rail**, thereby making its usability more flexible.



\* The above pictures are for illustration only.

### Centralized Power Distribution for Small Ethernet Networking

The WGS-804HP provides four PoE ports that combine up to **120 watts** of power output budget for catering to small-scale PoE network applications. Compliant with both IEEE 802.3at and IEEE 802.3af Power over Ethernet standards, each PoE port supplies up to 36 watts of power output and data transmission in Gigabit speed both delivered over one Cat.5e/6 Ethernet cable, powering remote PoE PD at distance up to 100 meters.

### Intelligent LED Indicator for Real-time PoE Usage

To facilitate auto power management, the WGS-804HP implements **Power Budget Control** function that helps to prevent power budget overloading. Moreover, the WGS-804HP helps users to monitor the current status of PoE power usage easily and efficiently via its advanced LED indication. Called “**PoE Power Usage**”, the front panel of the WGS-804HP has four LEDs indicating **30W**, **60W**, **90W** and **120W** of power usage.



### Ready to Power Up IoT

Internet is very popular the world over as users surf online daily with their mobile devices, such as smart phones and tablets, or laptop computers. However, users want more from the Internet, like how to use their mobile devices to control something via the Internet, thus making life more convenient. The WGS-804HP is based on such concept to help users implement the Internet of things (IoT) on the PoE network. Home automation is no longer a dream as Gigabit network performance plus power over Ethernet can easily drive IoT equipment, making it a smart home.

### Quick, Safe and Easy PoE Network Deployment

Carrying both Ethernet data and power simultaneously, the WGS-804HP reduces cabling requirements and eliminates the need for dedicated electrical outlets on the wall, ceiling or any unreachable place. It helps users to utilize just one Ethernet cable to install and deploy IP camera, wireless AP or VoIP phone more efficiently and cost-effectively.

## Applications

### Industrial Area Department/Workgroup PoE Switch

The WGS-804HP provides 4 PoE, in-line power interfaces and can easily build a power centrally-controlled for an IP phone system, IP surveillance system, and wireless AP group in the harsh Industrial environment. For instance, 4 PoE IP cameras or PoE wireless APs can be easily installed for surveillance demands or building a wireless roaming environment in the industrial area. Without the power-socket limitation, the WGS-804HP series makes the installation of IP cameras or wireless APs easier and more efficient.

