

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



### Easily-deployed and Expanded PoE Network

Designed to be installed in a wall enclosure or simply mounted at any convenient location on a wall, PLANET WGS-814HP and WGS-818HP are innovative, **wall-mounted industrial 8-port Gigabit Ethernet Switches with 4-/8-port 802.3at Power over Ethernet Plus injector**. They come in a compact but rugged IP30 metal housing. Featuring a total PoE budget of **60/120 watts**, ultra networking speed and operating temperature ranging from **-20 to 60 degrees C**, the WGS-814HP and WGS-818HP are ideal solutions to meet the demand for sufficient PoE power for the following network applications.

- Building / Home automation network
- Internet of things (IoT)
- IP surveillance and wireless

The WGS-814HP and WGS-818HP are 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.



### Innovative Wall-mount Installation

The WGS-814HP and WGS-818HP are 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 **"Front Access"** design, making the installing, cable wiring, LED monitoring and maintenance of the WGS-818HP placed in an enclosure very easy for technicians to manage. **Fixed wall mounting, magnetic wall mounting or DIN rail** installation can be had to suit your working environment, thereby making its usability more flexible.

### Physical Port

- **WGS-814HP**
  - **8-Port 10/100/1000BASE-T** Gigabit RJ45 copper with 4-Port **IEEE 802.3at PoE+** Injector (Port-1 to Port-4)
- **WGS-818HP**
  - **8-Port 10/100/1000BASE-T** Gigabit RJ45 copper with 8-Port **IEEE 802.3at PoE+** Injector (Port-1 to Port-8)

### Power over Ethernet

- Complies with IEEE 802.3at Power over Ethernet Plus, end-span PSE
- Backward compliant with IEEE 802.3af Power over Ethernet end-span PSE
- Up to 4 ports of IEEE 802.3at devices powered (WGS-814HP)
- Up to 8 ports of IEEE 802.3at devices powered (WGS-818HP)
- Supports PoE Power up to 30.8 watts for each PoE port
- Auto detects powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 250 meters ( in extend mode)

### Layer 2 Features

- High performance Store and Forward architecture
- IEEE 802.3x flow control for full duplex operation and back pressure for half duplex operation
- 9K jumbo frame supports in 1000Mbps duplex mode
- Automatic address learning and address aging

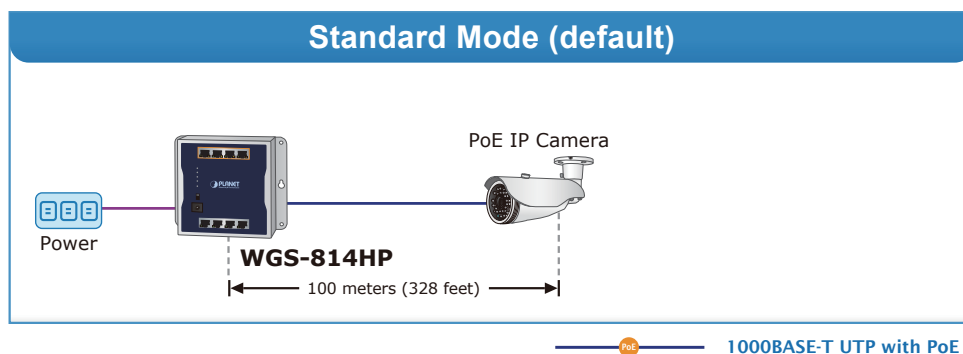
### Industrial Case and Installation

- Compact size; fixed wall mounting, magnetic wall mounting or DIN-rail mounting
- IP30 metal chassis
- Supports -20 to 60 degrees C operating temperature
- LED indicators for real-time PoE usage
- 48V~56V DC input range

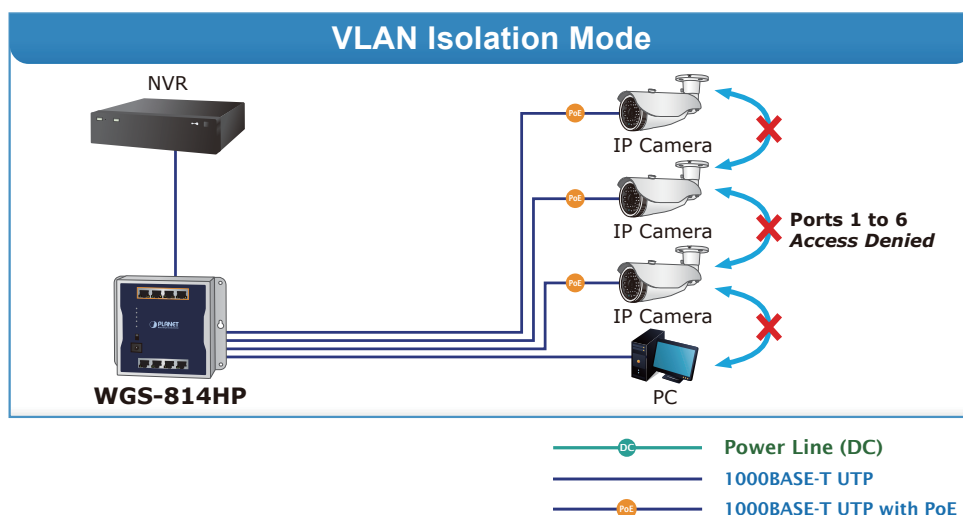


### Standard, VLAN and Extend Operation Modes

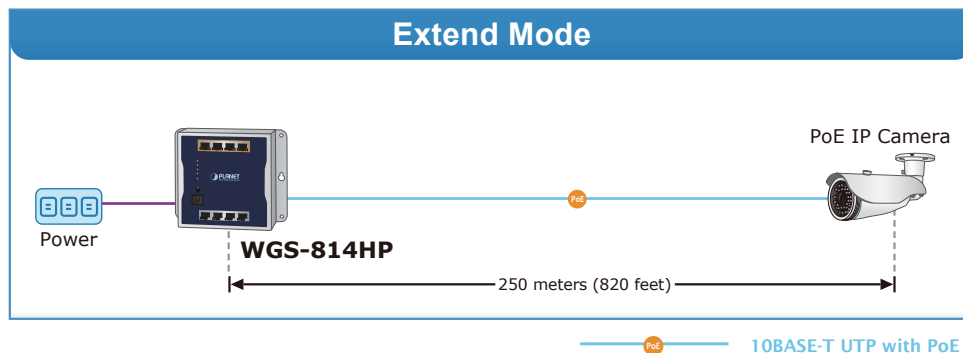
The WGS-814HP and WGS-818HP provide **Standard**, **VLAN** and **Extend** operation modes. The WGS-814HP and WGS-818HP can operate as a normal IEEE 802.3at/ PoE+ switch in the standard operation mode.



The **VLAN operation mode** features the port-based VLAN function that can help to prevent the IP camera's multicast or broadcast storm from influencing each other. With two uplink ports with 1000Mbps transfer rate, it ensures high-speed data and video transmission, and reliable assurance for connection between the surveillance system and outside network where the four PoE+ ports can be used to their full potential.



In the **Extend operation mode**, the WGS-814HP and WGS-818HP operate on a per-port basis at 10Mbps duplex operation but can support 20-watt PoE power output over a distance of up to 250 meters overcoming the 100m limit on Ethernet UTP cable. With this brand-new feature, both WGS-814HP and WGS-818HP provide an additional solution for 802.3at PoE distance extension, thus saving the cost of Ethernet cable installation. Its VLAN isolation function isolates ports so as to prevent broadcast storm and defend DHCP spoofing in the extend operation mode.



#### Centralized Power Distribution for Small Ethernet Networking

The WGS-814HP and WGS-818HP provide four/Eight PoE ports that combine up to **60/120 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 30 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-818HP implements **Power Budget Control** function that helps to prevent power budget overloading. Moreover, the WGS-818HP 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-814HP has four LEDs indicating **15W, 30W, 45W** and **60W** of power usage while the front panel of the WGS-818HP has four LEDs indicating **30W, 60W, 90W** and **120W** of power usage

#### PoE Power Usage 60W



#### PoE Power Usage 120W

