

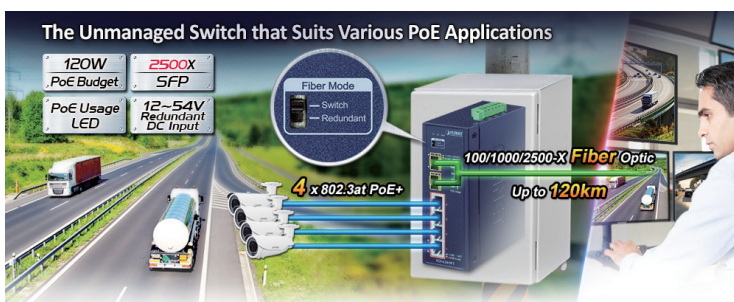
## Industrial 4-Port 10/100/1000T 802.3at PoE + 2-Port 100/1000/2500X SFP Ethernet Switch



### Cost-effective Full PoE+ Power Solution Ideal for Hardened Environment

Featuring Plug and Play designed to be installed in heavy industrial environments, the IGS-624HPT is a PLANET Industrial-grade, DIN-rail type Unmanaged Gigabit Ethernet PoE+ Switch with **four 10/100/1000BASE-T** ports featuring IEEE **802.3at PoE+** and **two extra 100/1000/2500BASE-X SFP** fiber optic interfaces for uplink connection.

The IGS-624HPT, designed with redundant power system, is able to operate reliably, stably and quietly in any hardened environment without affecting its performance. It comes with a total power budget of up to **120 watts** for different kinds of PoE applications and operating temperature ranging from **-40 to 75 degrees C** in a rugged IP40 metal housing.



### Convenient and Reliable Power System

To facilitate the 802.3at PoE+ usage with commonly used 12~54V DC power input for transportation and industrial-level applications, the IGS-624HPT adopts **12~54V DC to 54V power boost technology** to solve power source issue but does not require special power supplies. The IGS-624HPT provides an integrated power solution with a wide range of voltages (12~54V DC) for worldwide operability. It also provides dual-redundant, reversible polarity 12~54V DC power supply inputs for high availability applications.

### Interface

- 4 10/100/1000BASE-T Gigabit Ethernet RJ45 copper ports
- Two SFP slots, supporting 1000/2500BASE-X and 100BASE-FX transceiver in dual modes (auto detection)

### Power over Ethernet

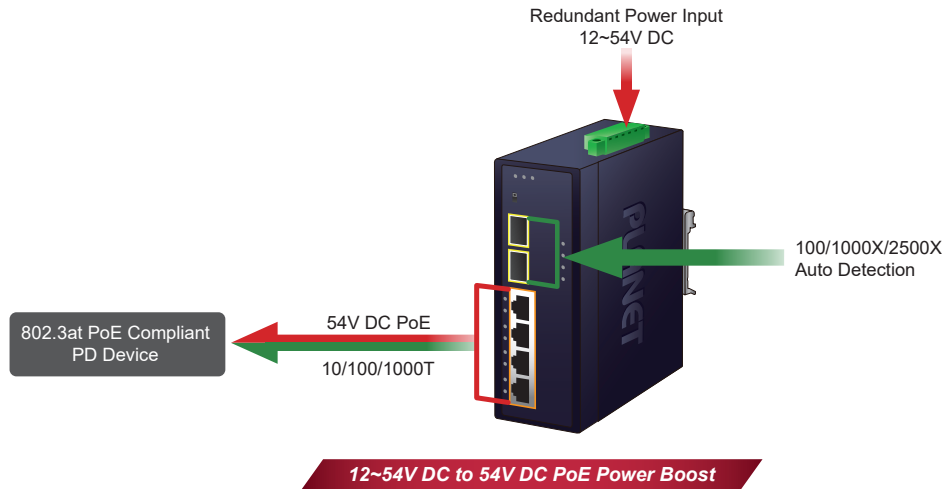
- Complies with IEEE 802.3at Power over Ethernet Plus, end-span PSE
- Backward compatible with IEEE 802.3af Power over Ethernet
- Up to 4 ports of IEEE 802.3af/at devices powered
- Up to 120-watt PoE budget
- Supports PoE power up to 36 watts for each PoE port
- Each port supports 54V DC power to PoE powered device
- Auto detects powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100m

### Layer 2 Switching

- 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
- 4K MAC address table size
- 12.2K jumbo frame
- IEEE 802.1Q VLAN transparency
- Automatic address learning and address aging
- Supports CSMA/CD protocol

### Industrial Case and Installation

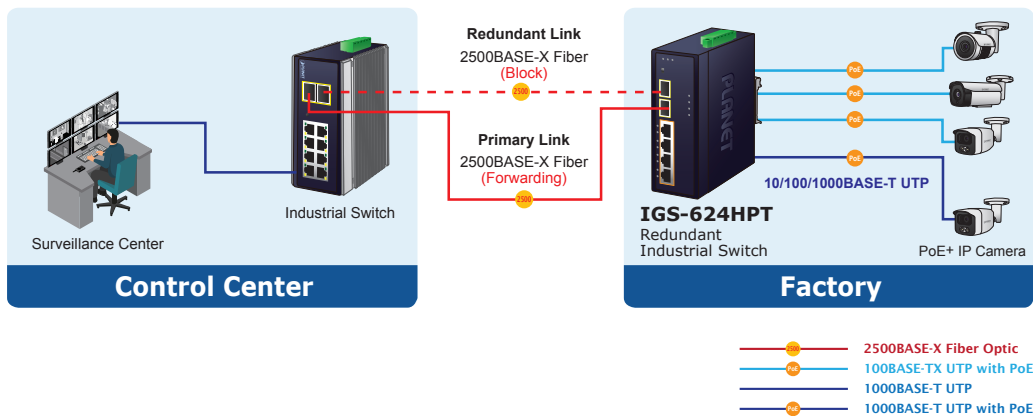
- IP40 metal case
- DIP switch for switch or redundant mode selection
- 4 real-time PoE power usage indicators
- DIN-rail, wall-mount or side wall-mount design
- 12~54V DC redundant power with reverse polarity protection
- Fault alarm for power input failed
- Supports 6KV DC Ethernet ESD protection
- -40 to 75 degrees C operating temperature



**Adjustable 6-Port Switch Mode or 4 + 2 Fiber Redundant Mode**

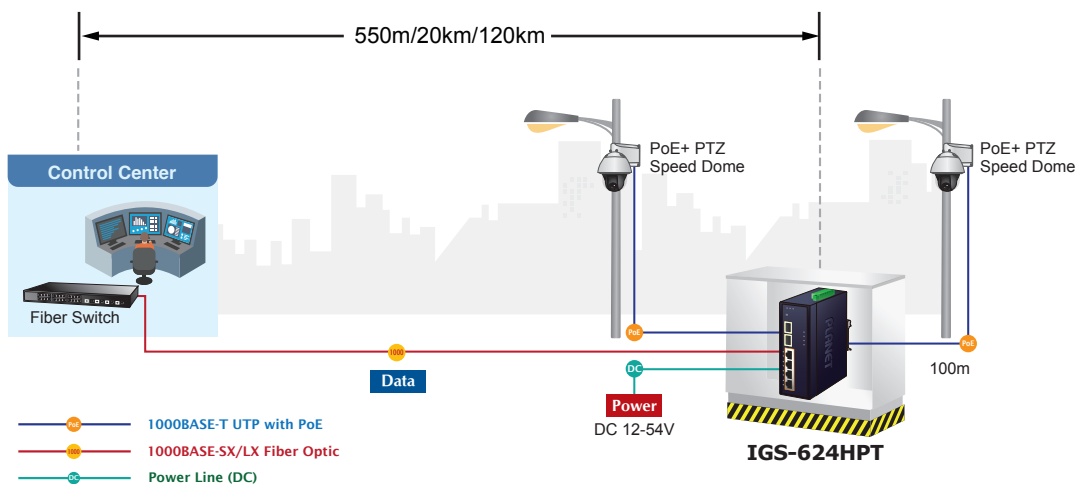
Via the built-in DIP switch, the IGS-624HPT can be configured as 6-port Gigabit Ethernet switch or 4+2 fiber redundant mode. With the 6-port Gigabit Switch mode, the IGS-624HPT can operate in Store-and-Forward mechanism with high performance; on the other hand, when in the 4+2 fiber redundant mode, it provides rapid fiber redundancy of link for highly critical Ethernet applications. The redundant mode also supports auto-recovering function. If the destination port of a packet is link down, it will forward the packet to the other port of the backup pair.

**Site to Site Fiber Link Redundancy of IP Surveillance**



**Fiber Optic Link Capability for Flexible Distance Extension**

The additional two mini-GBIC slot built in the IGS-624HPT supports SFP auto-detection and dual speed as it features **100BASE-FX, 1000BASE-SX/LX and 2500BASE-X SFP** (Small Form-factor Pluggable) fiber-optic modules, meaning the administrator now can flexibly choose the suitable SFP transceiver according to the transmission distance or the transmission speed required to extend the network efficiently. The distance can be extended from 550 meters to 2 kilometers (multi-mode fiber) and 10/20/40/60/80/120 kilometers (single-mode fiber or WDM fiber). They are well suited for applications to uplink to backbone switch and monitoring center in long distance.



### Environmentally Hardened Design

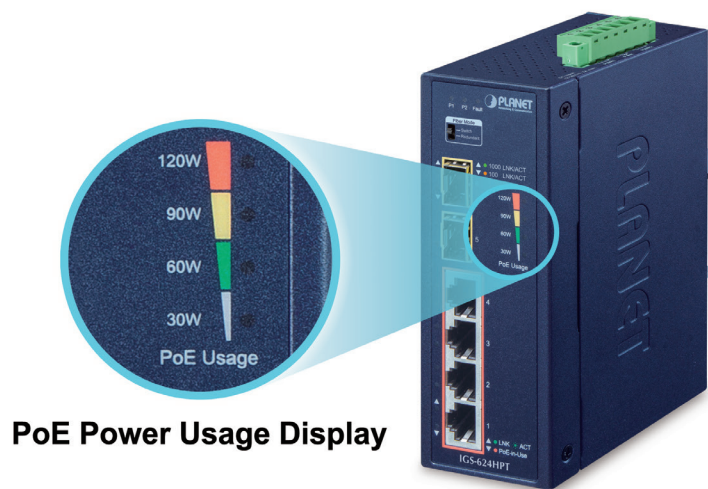
With the **IP40** metal industrial case, the IGS-624HPT provides a high level of immunity against electromagnetic interference and heavy electrical surges which are usually found on plant floors or in curb-side traffic control cabinets without air conditioning. It features a ventilated construction in which a cooling fan is not necessary, thereby making its operation noiseless. Being able to operate under the temperature range from **-40 to 75 degrees C**, the IGS-624HPT can be placed in almost any difficult environment.

### Robust Protection

The IGS-624HPT provides contact discharge of  $\pm 6\text{KV}$  DC and air discharge of  $\pm 8\text{KV}$  DC for Ethernet ESD protection. It also supports  $\pm 6\text{KV}$  surge immunity to improve product stability and protects users' networks from devastating ESD attacks, making sure the flow of operation does not fluctuate.

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

The IGS-624HPT helps users to monitor current status of PoE power usage easily and efficiently by its advanced LED indication. Called "PoE Power Usage", the front panel of the Industrial Gigabit PoE+ Switch has four orange LEDs indicating 30W, 60W, 90W and 120W of PoE power usage.



### Flexible and Easy Installation with Limited Space

The compact-sized IGS-624HPT is specially designed to be installed in a narrow environment, such as wall enclosure. It can be installed by fixed wall mounting or DIN rail, thereby making its usability more flexibly and easily in any space-limited location.

## Optional installation method



\* The above pictures are for illustration only.