

Industrial 4-Port 10/100/1000BASE-T 802.3at PoE+ Gigabit Ethernet Switch



A Perfect Full PoE+ Power Solution Ideal for Hardened Environment

With Plug and Play design, PLANET IGS-504HPT/IGS-614HPT Industrial-grade, DIN-rail type Unmanaged Gigabit Ethernet PoE+ Switch, featuring four IEEE 802.3at PoE+ 10/100/1000BASE-T ports, and one extra 10/100/1000BASE-T RJ45 copper port and one 100/1000BASE-X fiber optic interface for uplink connection, allows to automatically detect and configure internal and external peripherals.

The IGS-504HPT/IGS-614HPT supports **12~54V DC** power input for power redundancy and operational flexibility. 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.

| Model | PoE Standard | PoE Budget | LAN Port Speed | SFP Slot Speed |
|------------|-----------------|------------|-----------------|----------------|
| IGS-504HPT | IEEE 802.3af/at | 120 watts | 10/100/1000Mbps | 15 |
| IGS-614HPT | IEEE 802.3af/at | 120 watts | 10/100/1000Mbps | 100/1000BASE-X |





Interface

- · 5 10/100/1000BASE-T Gigabit Ethernet RJ45 copper ports
- One SFP slot, supporting 1000BASE-X and 100BASE-FX transceiver in dual modes (IGS-614HPT only)

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
- · 2K MAC address table size
- 9K jumbo frame
- · IEEE 802.1Q VLAN transparency
- · Automatic address learning and address aging
- · Supports CSMA/CD protocol

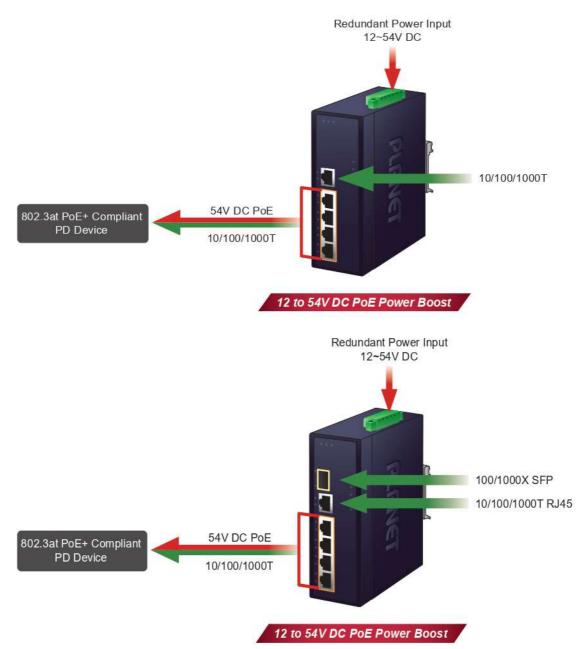
Industrial Case and Installation

- IP40 metal case
- 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
- · 4 real-time PoE power usage indicators



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-504HPT/IGS-614HPT adopts 12~54V DC to 54V power boost technology to solve power source issue but does not require special power supplies. The IGS-504HPT/IGS-614HPT 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.





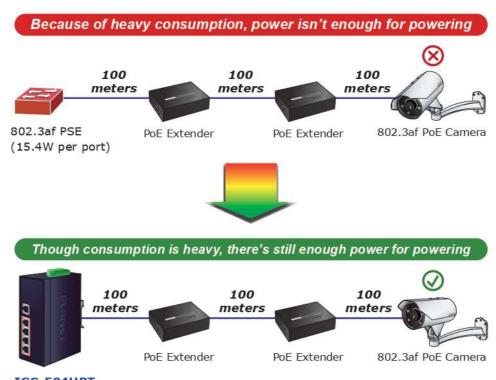
Fiber Optic Link Capability for Flexible Distance Extension (IGS-614HPT Only)

The additional mini-GBIC slot built in the IGS-614HPT supports SFP auto-detection and dual speed as it features **100BASE-FX** and **1000BASE-SX/LX 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 to 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.



Plug and Play High Power Sourcing Solution

Complying with the IEEE 802.3at Power over Ethernet Plus technology, the IGS-504HPT/IGS-614HPT provides up to 36 watts of PoE output power to allow users to flexibly deploy standard and high powered devices simultaneously with no need of software configuration. Furthermore, the IGS-504HPT/IGS-614HPT can extend much longer distance by using PLANET PoE Extender for powering up the PoE PD devices which can be installed over more than 100 meters away. By daisy-chaining multiple PoE extenders, it offers the great flexibility of doubling, tripling or quadrupling the distance of PoE network.



IGS-504HPT 802.3at PSE(36W per port)



Environmentally Hardened Design

With the **IP40** metal industrial case, the IGS-504HPT/IGS-614HPT 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-504HPT/IGS-614HPT can be placed in almost any difficult environment.

Robust Protection

The IGS-504HPT/IGS-614HPT provides contact discharge of ±6KV DC and air discharge of ±8KV DC for Ethernet ESD protection. It also supports ±6KV 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-504HPT/IGS-614HPT 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-504HPT/IGS-614HPT 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 flexible and easier in any space-limited location.

Optional installation method



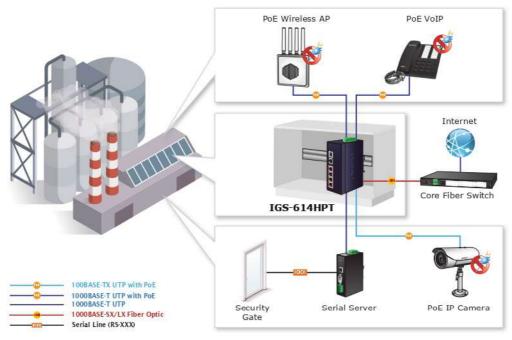
^{*} The above pictures are for illustration only.



Applications

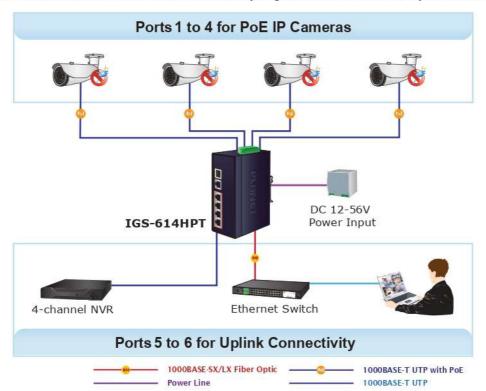
Industrial-grade PoE+ Switch for Building Automation and Security

Suitable for buildings where security is strictly enforced, the IGS-504HPT/IGS-614HPT, with four Gigabit Ethernet 802.3at PoE+, in-line power interfaces, can easily build a power that can centrally control 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 a wireless roaming environment in the industrial area can be built. Without the power-socket limitation, the IGS-504HPT and IGS-614HPT make the installation of IP cameras or wireless APs easier and more efficient.



Perfect Integration Solution for IP PoE Camera and NVR System

The IGS-504HPT/IGS-614HPT provides four 10/100/1000BASE-T 802.3at PoE+ ports which can offer sufficient PoE power to 4 PoE IP cameras at the same time. In addition, with the 10/100/1000BASE-T or 100/1000BASE-X uplink interfaces, the IGS-504HPT/IGS-614HPT can connect to a core switch and send video streams to an NVR and monitoring center. Through the high-performance switch architecture, the IGS-504HPT/IGS-614HPT facilitates the recorded video files from the 4 PoE+ IP cameras to be saved in the NVR systems. Furthermore, the NVR systems can be controlled and monitored in both the local LAN and the remote site via Internet. The IGS-504HPT/IGS-614HPT undoubtedly brings an ideal secure surveillance system at a lower total cost.





Specifications

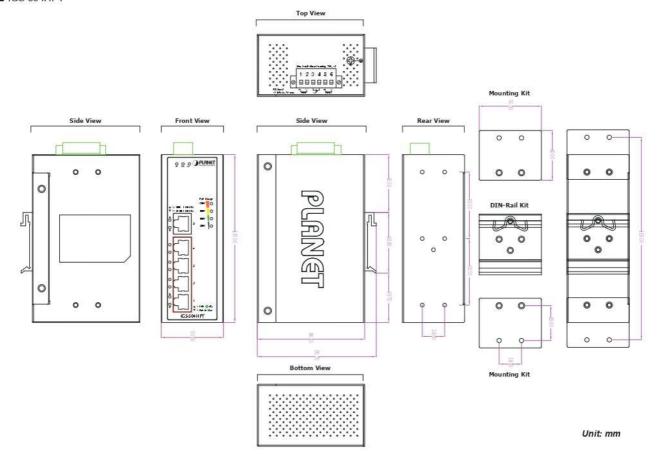
| Hardware Specifications | | IGS-614HPT | | | | |
|---|--|------------|--|--|--|--|
| | | | | | | |
| Copper Ports | 5 10/100/1000BASET RJ45 auto-MDI/MDI-X ports | | | | | |
| PoE Injector Ports | Four ports with 802.3at PoE+ injector function (Ports | | | | | |
| SFP Slots | NA 1 1000BASE-SX/LX/BX SFP interface Compatible with 100BASE-FX SFP | | | | | |
| Connector | Removable 6-pin terminal block Pin 1/2 for Power 1; Pin 3/4 for fault alarm; Pin 5/6 for | Power 2 | | | | |
| Power Requirements | 12~54V DC, 7A (max.) Redundant power with reverse polarity protection | | | | | |
| Power Consumption | Max. 6.48 watts/22BTU@54V DC input (System) Max. Max. 137 watts/467BTU(Ethernet + PoE Full Loading) Max. 5.94 watts/20BTU@54V DC input (System) Max. 139 watts/474BTU(Ethernet + PoE Full | | | | | |
| Dimensions (W x D x H) | 50 x 86 x 135 mm | | | | | |
| Weight | 618g | 623g | | | | |
| Enclosure | IP40 metal case | | | | | |
| Installation | DIN-rail kit and wall-mount kit | | | | | |
| ESD Protection | 6KV | | | | | |
| LED | 2 x LED for PoE Copper Port (Ports 1~Port 4): Green: LNK/ACT (10/100/1000Mbps) Amber: PoE-In-Use 2 x LED for 10/100/1000T Copper Port (Port 5): Green: 1000 LNK/ACT Amber: 10/100 LNK/ACT | | | | | |
| | 2 x LED for 100/1000X SFP Interface (Port 6): IGS-61 Green: 1000 LNK/ACT Amber: 100 LNK/ACT 4 x LED for PoE Power Usage (W) (Low to high): Amber: 30W, 60W, 90W and 120W | 14HPT | | | | |
| Switch Specifications | ■ Green: 1000 LNK/ACT ■ Amber: 100 LNK/ACT | I4HPT | | | | |
| | ■ Green: 1000 LNK/ACT ■ Amber: 100 LNK/ACT 4 x LED for PoE Power Usage (W) (Low to high): ■ Amber: 30W, 60W, 90W and 120W | 14HPT | | | | |
| Switch Architecture | ■ Green: 1000 LNK/ACT ■ Amber: 100 LNK/ACT 4 x LED for PoE Power Usage (W) (Low to high): ■ Amber: 30W, 60W, 90W and 120W Store-and-Forward | | | | | |
| Switch Architecture Switch Fabric | ■ Green: 1000 LNK/ACT ■ Amber: 100 LNK/ACT 4 x LED for PoE Power Usage (W) (Low to high): ■ Amber: 30W, 60W, 90W and 120W Store-and-Forward 10Gbps | 12Gbps | | | | |
| Switch Architecture Switch Fabric Throughput (packet per second) | ■ Green: 1000 LNK/ACT ■ Amber: 100 LNK/ACT 4 x LED for PoE Power Usage (W) (Low to high): ■ Amber: 30W, 60W, 90W and 120W Store-and-Forward 10Gbps 7.4Mpps@64bytes | | | | | |
| Switch Architecture Switch Fabric Throughput (packet per second) Address Table | ■ Green: 1000 LNK/ACT ■ Amber: 100 LNK/ACT 4 x LED for PoE Power Usage (W) (Low to high): ■ Amber: 30W, 60W, 90W and 120W Store-and-Forward 10Gbps 7.4Mpps@64bytes 2K entries | 12Gbps | | | | |
| Switch Architecture Switch Fabric Throughput (packet per second) Address Table Buffer Memory | ■ Green: 1000 LNK/ACT ■ Amber: 100 LNK/ACT 4 x LED for PoE Power Usage (W) (Low to high): ■ Amber: 30W, 60W, 90W and 120W Store-and-Forward 10Gbps 7.4Mpps@64bytes 2K entries 4M bits on-chip buffer memory | 12Gbps | | | | |
| Switch Specifications Switch Architecture Switch Fabric Throughput (packet per second) Address Table Buffer Memory Jumbo Frame Flow Control | ■ Green: 1000 LNK/ACT ■ Amber: 100 LNK/ACT 4 x LED for PoE Power Usage (W) (Low to high): ■ Amber: 30W, 60W, 90W and 120W Store-and-Forward 10Gbps 7.4Mpps@64bytes 2K entries | 12Gbps | | | | |
| Switch Architecture Switch Fabric Throughput (packet per second) Address Table Buffer Memory Jumbo Frame Flow Control | ■ Green: 1000 LNK/ACT ■ Amber: 100 LNK/ACT 4 x LED for PoE Power Usage (W) (Low to high): ■ Amber: 30W, 60W, 90W and 120W Store-and-Forward 10Gbps 7.4Mpps@64bytes 2K entries 4M bits on-chip buffer memory 9Kbytes Back pressure for half duplex | 12Gbps | | | | |
| Switch Architecture Switch Fabric Throughput (packet per second) Address Table Buffer Memory Jumbo Frame Flow Control Power over Ethernet | ■ Green: 1000 LNK/ACT ■ Amber: 100 LNK/ACT 4 x LED for PoE Power Usage (W) (Low to high): ■ Amber: 30W, 60W, 90W and 120W Store-and-Forward 10Gbps 7.4Mpps@64bytes 2K entries 4M bits on-chip buffer memory 9Kbytes Back pressure for half duplex | 12Gbps | | | | |
| Switch Architecture Switch Fabric Throughput (packet per second) Address Table Buffer Memory Jumbo Frame Flow Control Power over Ethernet PoE Standard | ■ Green: 1000 LNK/ACT ■ Amber: 100 LNK/ACT 4 x LED for PoE Power Usage (W) (Low to high): ■ Amber: 30W, 60W, 90W and 120W Store-and-Forward 10Gbps 7.4Mpps@64bytes 2K entries 4M bits on-chip buffer memory 9Kbytes Back pressure for half duplex IEEE 802.3x pause frame for full duplex | 12Gbps | | | | |
| Switch Architecture Switch Fabric Throughput (packet per second) Address Table Buffer Memory Jumbo Frame Flow Control Power over Ethernet PoE Standard PoE Power Supply Type | ■ Green: 1000 LNK/ACT ■ Amber: 100 LNK/ACT 4 x LED for PoE Power Usage (W) (Low to high): ■ Amber: 30W, 60W, 90W and 120W Store-and-Forward 10Gbps 7.4Mpps@64bytes 2K entries 4M bits on-chip buffer memory 9Kbytes Back pressure for half duplex IEEE 802.3x pause frame for full duplex IEEE 802.3at Power over Ethernet Plus/PSE | 12Gbps | | | | |
| Switch Architecture Switch Fabric Throughput (packet per second) Address Table Buffer Memory Jumbo Frame Flow Control Power over Ethernet PoE Standard PoE Power Supply Type Power Pin Assignment | ■ Green: 1000 LNK/ACT ■ Amber: 100 LNK/ACT 4 x LED for PoE Power Usage (W) (Low to high): ■ Amber: 30W, 60W, 90W and 120W Store-and-Forward 10Gbps 7.4Mpps@64bytes 2K entries 4M bits on-chip buffer memory 9Kbytes Back pressure for half duplex IEEE 802.3x pause frame for full duplex IEEE 802.3at Power over Ethernet Plus/PSE End-span | 12Gbps | | | | |
| Switch Architecture Switch Fabric Throughput (packet per second) Address Table Buffer Memory Jumbo Frame Flow Control Power over Ethernet PoE Standard PoE Power Supply Type Power Pin Assignment PoE Power Output | ■ Green: 1000 LNK/ACT ■ Amber: 100 LNK/ACT 4 x LED for PoE Power Usage (W) (Low to high): ■ Amber: 30W, 60W, 90W and 120W Store-and-Forward 10Gbps 7.4Mpps@64bytes 2K entries 4M bits on-chip buffer memory 9Kbytes Back pressure for half duplex IEEE 802.3x pause frame for full duplex IEEE 802.3at Power over Ethernet Plus/PSE End-span 1/2(+), 3/6(-) | 12Gbps | | | | |
| Switch Architecture Switch Fabric Throughput (packet per second) Address Table Buffer Memory Jumbo Frame Flow Control Power over Ethernet PoE Standard PoE Power Supply Type Power Pin Assignment PoE Power Output PoE Power Budget (max.) | ■ Green: 1000 LNK/ACT ■ Amber: 100 LNK/ACT 4 x LED for PoE Power Usage (W) (Low to high): ■ Amber: 30W, 60W, 90W and 120W Store-and-Forward 10Gbps 7.4Mpps@64bytes 2K entries 4M bits on-chip buffer memory 9Kbytes Back pressure for half duplex IEEE 802.3x pause frame for full duplex IEEE 802.3at Power over Ethernet Plus/PSE End-span 1/2(+), 3/6(-) Per port 54V DC, max. 36 watts 60W@12V DC input 90W@24V DC input | 12Gbps | | | | |
| Switch Architecture Switch Fabric Throughput (packet per second) Address Table Buffer Memory Jumbo Frame Flow Control Power over Ethernet PoE Standard PoE Power Supply Type Power Pin Assignment PoE Power Output PoE Power Budget (max.) Max. Number of Class 2 PDs | ■ Green: 1000 LNK/ACT ■ Amber: 100 LNK/ACT 4 x LED for PoE Power Usage (W) (Low to high): ■ Amber: 30W, 60W, 90W and 120W Store-and-Forward 10Gbps 7.4Mpps@64bytes 2K entries 4M bits on-chip buffer memory 9Kbytes Back pressure for half duplex IEEE 802.3x pause frame for full duplex IEEE 802.3at Power over Ethernet Plus/PSE End-span 1/2(+), 3/6(-) Per port 54V DC, max. 36 watts 60W@12V DC input 90W@24V DC input 120W@48V-54V DC input | 12Gbps | | | | |
| Switch Architecture Switch Fabric Throughput (packet per second) Address Table Buffer Memory Jumbo Frame Flow Control Power over Ethernet PoE Standard PoE Power Supply Type Power Pin Assignment PoE Power Output PoE Power Budget (max.) Max. Number of Class 2 PDs Max. Number of Class 3 PDs | ■ Green: 1000 LNK/ACT ■ Amber: 100 LNK/ACT 4 x LED for PoE Power Usage (W) (Low to high): ■ Amber: 30W, 60W, 90W and 120W Store-and-Forward 10Gbps 7.4Mpps@64bytes 2K entries 4M bits on-chip buffer memory 9Kbytes Back pressure for half duplex IEEE 802.3x pause frame for full duplex IEEE 802.3at Power over Ethernet Plus/PSE End-span 1/2(+), 3/6(-) Per port 54V DC, max. 36 watts 60W@12V DC input 90W@24V DC input 120W@48V-54V DC input 4 | 12Gbps | | | | |
| Switch Architecture Switch Fabric Throughput (packet per second) Address Table Buffer Memory Jumbo Frame Flow Control Power over Ethernet PoE Standard PoE Power Supply Type Power Pin Assignment PoE Power Budget (max.) Max. Number of Class 2 PDs Max. Number of Class 3 PDs Max. Number of Class 4 PDs | ■ Green: 1000 LNK/ACT ■ Amber: 100 LNK/ACT 4 x LED for PoE Power Usage (W) (Low to high): ■ Amber: 30W, 60W, 90W and 120W Store-and-Forward 10Gbps 7.4Mpps@64bytes 2K entries 4M bits on-chip buffer memory 9Kbytes Back pressure for half duplex IEEE 802.3x pause frame for full duplex IEEE 802.3at Power over Ethernet Plus/PSE End-span 1/2(+), 3/6(-) Per port 54V DC, max. 36 watts 60W@12V DC input 90W@24V DC input 120W@48V-54V DC input 4 | 12Gbps | | | | |
| Switch Architecture Switch Fabric Throughput (packet per second) Address Table Buffer Memory Jumbo Frame | ■ Green: 1000 LNK/ACT ■ Amber: 100 LNK/ACT 4 x LED for PoE Power Usage (W) (Low to high): ■ Amber: 30W, 60W, 90W and 120W Store-and-Forward 10Gbps 7.4Mpps@64bytes 2K entries 4M bits on-chip buffer memory 9Kbytes Back pressure for half duplex IEEE 802.3x pause frame for full duplex IEEE 802.3at Power over Ethernet Plus/PSE End-span 1/2(+), 3/6(-) Per port 54V DC, max. 36 watts 60W@12V DC input 90W@24V DC input 120W@48V-54V DC input 4 | 12Gbps | | | | |



| | IEEE 802.3 Ethernet | | | | |
|----------------------|--|--|--|--|--|
| | IEEE 802.3u Fast Ethernet | | | | |
| | IEEE 802.3ab Gigabit Ethernet | | | | |
| | IEEE 802.3z Gigabit SX/LX (IGS-614HPT) | | | | |
| Standards Compliance | IEEE 802.3x Full-Duplex Flow Control | | | | |
| | IEEE 802.3az Energy Efficient Ethernet (EEE) | | | | |
| | IEEE 802.3at Power over Ethernet Plus PSE | | | | |
| | IEEE 802.3af Power over Ethernet Plus | | | | |
| | IEEE 802.1p Class of Service | | | | |
| Environment | | | | | |
| Townstatus | Operating: -40~75 degrees C | | | | |
| Temperature | Storage: -40~75 degrees C | | | | |
| Llumidit. | Operating: 5~90% (non-condensing) | | | | |
| Humidity | Storage: 5~90% (non-condensing) | | | | |

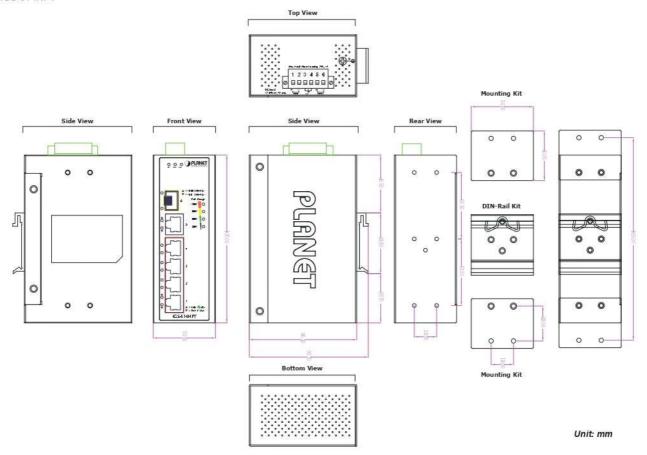
Dimensions

■ IGS-504HPT





■ IGS-614HPT



Ordering Information

| IGS-504HPT | Industrial 4-Port 10/100/1000T 802.3at PoE + 1-Port 10/100/1000T Gigabit Ethernet Switch |
|------------|---|
| IGS-614HPT | Industrial 4-Port 10/100/1000T 802.3at PoE + 1-Port 10/100/1000T + 1-Port 100/1000XSFP Gigabit Ethernet Switch |

Related Products

| IGS-504PT | Compact Industrial 4-Port 10/100/1000T 802.3at PoE + 1-Port 10/100/1000T Ethernet Switch |
|-----------------|--|
| IGS-1020PTF | Industrial 8-Port 10/100/1000T 802.3at PoE + 2-Port 100/1000X SFP Ethernet Switch |
| IGS-1020PTF-12V | Industrial 8-Port 10/100/1000T 802.3at PoE + 2-Port 100/1000X SFP Ethernet Switch w/ 12V Booster |
| IGS-504HPT | Industrial 4-Port 10/100/1000T 802.3at PoE + 1-Port 10/100/1000T Gigabit Ethernet Switch |
| IGS-624HPT | Industrial 4-Port 10/100/1000T 802.3at PoE + 2-Port 100/1000X SFP Ethernet Switch |
| IGS-824UPT | Industrial 4-Port 10/100/1000T 802.3bt PoE + 2-Port 10/100/1000T + 2-Port 100/1000X SFP Gigabit Ethernet Switch |
| WGS-804HP | 8-Port 10/100/1000T Wall Mounted Gigabit Ethernet Switch with 4-Port PoE+ |
| WGS-814HP | Industrial 8-Port 10/100/1000T Wall-mounted Gigabit Switch with 4-port PoE+ |
| WGS-818HP | Industrial 8-Port 10/100/1000T Wall-mounted Gigabit PoE+ Switch |

Accessories

| PWR-240-48 | 48V, 240W DIN-rail Power Supply (NDR-480-48, adjustable 48-56V DC Output) |
|------------|---|
| PWR-480-48 | 48V, 480W DIN-rail Power Supply (NDR-480-48, adjustable 48-56V DC Output) |



Available 100Mbps Modules (IGS-614HPT only)

Fast Ethernet Transceiver (100BASE-X SFP)

| Model | Speed (Mbps) | Connector Interface | Fiber Mode | Distance | Wavelength (nm) | Operating Temp. |
|----------|--------------|---------------------|-------------|----------|-----------------|--------------------|
| MFB-TFX | 100 | LC | Multi-mode | 2km | 1310nm | -40 ~ 85 degrees C |
| MFB-TF20 | 100 | LC | Single Mode | 20km | 1310nm | -40 ~ 85 degrees C |

Fast Ethernet Transceiver (100BASE-BX, Single Fiber Bi-directional SFP)

| Model | Speed (Mbps) | Connector Interface | Fiber Mode | Distance | Wavelength (TX) | Wavelength (RX) | Operating Temp. |
|-----------|--------------|---------------------|-------------|----------|-----------------|-----------------|--------------------|
| MFB-TSA | 100 | WDM(LC) | Multi-Mode | 2km | 1310nm | 1550nm | -40 ~ 85 degrees C |
| MFB-TSB | 100 | WDM(LC) | Multi-Mode | 2km | 1550nm | 1310nm | -40 ~ 85 degrees C |
| MFB-TFA20 | 100 | WDM(LC) | Single Mode | 20km | 1310nm | 1550nm | -40 ~ 85 degrees C |
| MFB-TFB20 | 100 | WDM(LC) | Single Mode | 20km | 1550nm | 1310nm | -40 ~ 85 degrees C |
| MFB-TFA40 | 100 | WDM(LC) | Single Mode | 40km | 1310nm | 1550nm | -40 ~ 85 degrees C |
| MFB-TFB40 | 100 | WDM(LC) | Single Mode | 40km | 1550nm | 1310nm | -40 ~ 85 degrees C |

Available 1000Mbps Modules (IGS-614HPT only)

Gigabit Ethernet Transceiver (1000BASE-X SFP)

| Model | DDM | Speed (Mbps) | Connector Interface | Fiber Mode | Distance | Wavelength (nm) | Operating Temp. |
|----------|------|--------------|---------------------|-------------|----------|-----------------|--------------------|
| MGB-TGT | 3863 | 1000 | Copper | 1001 | 100m | | -40 ~ 85 degrees C |
| MGB-TSX | YES | 1000 | LC | Multi-mode | 550m | 850nm | -40 ~ 85 degrees C |
| MGB-TSX2 | YES | 1000 | LC | Multi-mode | 2km | 1310nm | -40 ~ 85 degrees C |
| MGB-TLX | YES | 1000 | LC | Single Mode | 20km | 1310nm | -40 ~ 85 degrees C |
| MGB-TL40 | YES | 1000 | LC | Single Mode | 40km | 1310nm | -40 ~ 85 degrees C |
| MGB-TL80 | YES | 1000 | LC | Single Mode | 80km | 1550nm | -40 ~ 85 degrees C |

Gigabit Ethernet Transceiver (1000BASE-BX, Single Fiber Bi-directional SFP)

| Model | DDM | Speed (Mbps) | Connector Interface | Fiber Mode | Distance | Wavelength (TX) | Wavelength (RX) | Operating Temp. |
|------------------------|------|--------------|---------------------|-------------|----------|-----------------|--------------------|--------------------|
| MGB-TSA MGB-TSB YES | 1000 | WDM(LC) | Multi-mode | 2km | 1310nm | 1550nm | -40 ~ 85 degrees C | |
| | 1000 | WDM(LC) | Multi-mode | 2km | 1550nm | 1310nm | -40 ~ 85 degrees C | |
| MGB-TLA10 MGB-TLB10 | YES | 1000 | WDM(LC) | Single Mode | 10km | 1310nm | 1550nm | -40 ~ 85 degrees C |

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