

Compact Industrial 4-Port 10/100/1000T 802.3at PoE + 1-Port 100/1000X SFP / 1-Port 10/100/1000T Ethernet Switch



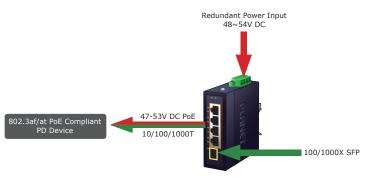
High Power PoE Solution for Harsh Industrial Network

PLANET IGS-5x4PT is the smallest industrial-grade 4-Port PoE+ Switch in PLANET industrial PoE product lineup and is specially designed to be installed in a narrow environment. It provides up to 120-watt 802.3at PoE+ output capability and wire-speed Gigabit performance even in the harsh industrial environment. It comes with four 10/100/1000BASE-T 802.3at PoE+ ports and one 100/1000X SFP interface or one 10/100/1000BASE-T RJ45 copper interface for uplink connection.

The power system of the IGS-5x4PT supports **48~54V 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 IP30 metal housing.

Plug and Play High Power Sourcing Solution

Complying with the **IEEE 802.3at Power over Ethernet Plus** technology, the IGS-5x4PT provides up to **30 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-5x4PT 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 flexibility of doubling, tripling or quadrupling the distance of PoE network.



Interface

- 4 10/100/1000BASE-T Gigabit Ethernet RJ45 copper ports with 802.3at PoE+ injector function
- One SFP slot, supporting 1000BASE-X and 100BASE-FX transceiver in dual modes (IGS-514PT only)

Power over Ethernet

- Complies with IEEE 802.3at Power over Ethernet Plus, endspan 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 30 watts for each PoE port.
- · 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
- · PROFINET Traffic Pass-through with QoS

Industrial Case and Installation

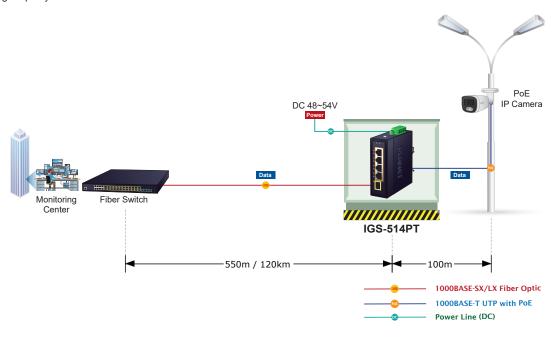
- · IP30 metal case
- · DIN-rail, wall-mount or side wall-mount design
- 48~54V DC redundant power with reverse polarity protection
- Supports 6KV DC Ethernet ESD protection.
- -40 to 75 degrees C operating temperature



Fiber-optic Link Capability Extends the Range of Network Deployment (IGS-514PT only)

The maximum distance between two IP devices via Ethernet UTP cable is 100 meters. To flexibly extend the deployment range of IP devices, the IGS-514PT's SFP slot supporting 100BASE-FX/1000BASE-X, SFP modules, and more can reach a transmission distance of up to 120km.

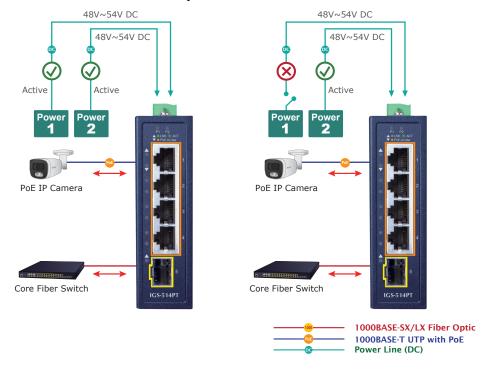
Thus, building a network solution of FTTH (Fiber to the Home), FTTC (Fiber to the Curb) for ISPs or FTTB (Fiber to the Building) for enterprises becomes so easy to users when long-distance deployment is employed. The IGS-514PT can handle extremely large amounts of data in a secure topology linking to a metro switch, backbone or high-capacity server.



Dual Power Input for High Availability Network System

The IGS-5x4PT features a strong dual power input system with wide-ranging voltages (48V~54V DC) incorporated into customer's automation network to enhance system reliability and uptime. In the example below, when Power Supply 1 fails to work, the hardware failover function will be activated automatically to keep powering the IGS-5x4PT via Power Supply 2 without any break of operation.

Non-stop Ethernet Server Dual Power Input with Auto Failover

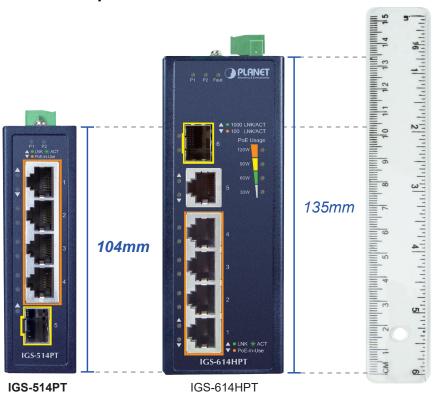




Small but Strong Enough for Any Hardened Environment

With the IP30 industrial metal case, the IGS-5x4PT 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-5x4PT can be placed in almost any difficult environment.

Compact Industrial 5-Port PoE Switch



Robust Protection

The IGS-5x4PT 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.

Flexible and Easy Installation with Limited Space

The compact-sized IGS-5x4PT 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



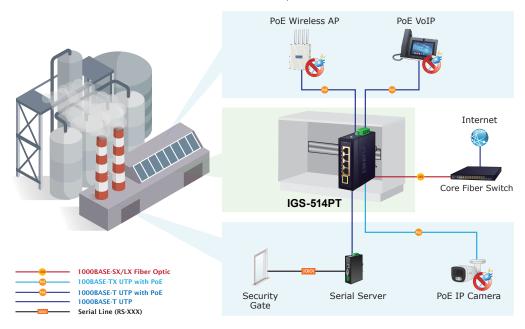
^{*} The above pictures are for illustration only.



Applications

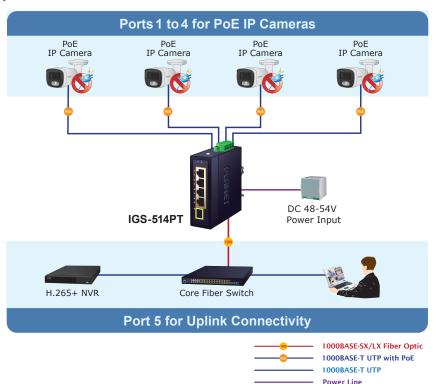
Industrial-grade PoE+ Switch for Building Automation and Security

Suitable for buildings where security is strictly enforced, the IGS-5x4PT, with four Gigabit Ethernet 802.3at PoE+ ports and one extra 100/1000X SFP interface or one extra 10/100/1000BASE-T RJ45 copper interface for uplink connection, and in-line power interfaces, can easily build a power system 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. The IGS-5x4PT makes the installation of IP cameras or wireless APs easier and more efficient as it does not require electrical outlets.



Perfect Integration Solution for IP PoE Camera and NVR System

The IGS-5x4PT 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 Gigabit interface, the IGS-5x4PT can connect to a core switch and send video streams to an NVR and monitoring center. Through the high-performance switch architecture, the IGS-5x4PT 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-5x4PT undoubtedly brings an ideal secure surveillance system at a lower total cost.





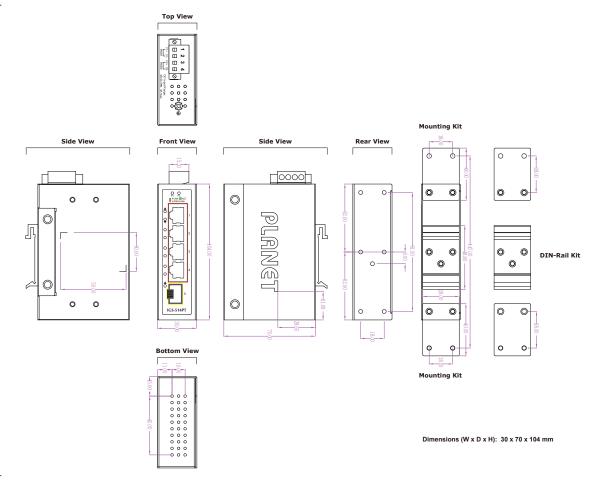
Specifications

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Model	IGS-514PT	IGS-504PT	
Hardware Specifications			
Copper Ports	4 10/100/1000BASET RJ45 auto-MDI/MDI-X ports	5 10/100/1000BASET RJ45 auto-MDI/MDI-X ports	
SFP Ports	1 1000BASE-SX/LX/BX SFP interface, backward compatible with 100BASE-FX SFP	NA	
PoE Injector Ports	4 ports with 802.3at PoE+ injector function (Ports 1 t	0 4)	
Connector	Removable 4-pin terminal block Pin 1/2 for Power 1; Pin 3/4 for Power 2		
Power Requirements	48~54V DC, 3A (max.) Redundant power with reverse polarity protection		
	DC 48V:	DC 48V:	
Power Consumption	Max. 1.44 watts/4.91BTU (System) Max. 129.6 watts/442.21BTU (Full Loading) DC 54V: Max. 1.62 watts/5.53BTU (System) Max. 135 watts/460.64BTU (Full Loading)	Max. 0.48 watts/1.63BTU (System) Max. 62.88 watts/214.5BTU (Full Loading) DC 54V: Max. 0.54 watts/1.84BTU (System) Max. 123.12 watts/420BTU (Full Loading)	
Dimensions (W x D x H)	30 x 70 x 104 mm		
Weight	260g		
Enclosure	IP30 metal case		
Installation	DIN-rail kit and wall-mount kit		
ESD Protection	6KV		
	OLVA		
Switch Specifications Switch Architecture	Store-and-Forward		
Switch Architecture Switch Fabric			
	10Gbps		
Throughput (packet per second)	7.4Mpps@64bytes		
Address Table	2K entries		
Jumbo Frame	9Kbytes		
Flow Control	Back pressure for half duplex IEEE 802.3x pause frame for full duplex		
Power over Ethernet			
PoE Standard	IEEE 802.3at Power over Ethernet Plus/PSE Backward compatible with IEEE 802.3af Power over Ethernet/PSE		
PoE Power Supply Type	End-span		
Power Pin Assignment	1/2 (+), 3/6 (-)		
PoE Power Output	30 watts (per port)		
PoE Power Budget	120 watts		
Max. Number of Class 4 PDs	4		
Standards Conformance			
Regulatory Compliance	FCC Part 15 Class A, CE		
	IEC 60068-2-32 (free fall)		
Stability Testing	IEC 60068-2-27 (shock) IEC 60068-2-6 (vibration)		
Standards Compliance	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3z Gigabit Ethernet over Fiber Optic (IGS-514PT only) IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet (EEE) IEEE 802.3at Power over Ethernet Plus PSE		
	IEEE 802.3at Power over Ethernet Plus IEEE 802.1p Class of Service		
Environment	IEEE 802.3af Power over Ethernet Plus IEEE 802.1p Class of Service		
Environment Temperature	IEEE 802.3af Power over Ethernet Plus		

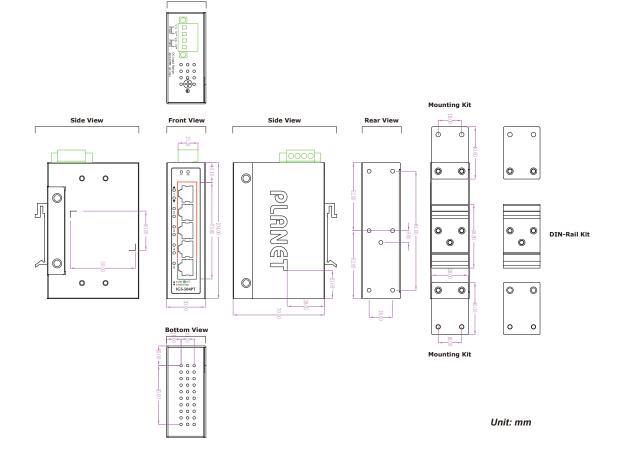


Dimensions

■ IGS-514PT



■ IGS-504PT





Ordering Information

IGS-514PT	Compact Industrial 4-Port 10/100/1000T 802.3at PoE + 1-Port 100/1000X SFP Ethernet Switch
IGS-504PT	Compact Industrial 4-Port 10/100/1000T 802.3at PoE + 1-Port 10/100/1000T Ethernet Switch

Related Product

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
100-01411F1	Gigabit Ethernet Switch
IGS-624HPT	Industrial 4-Port 10/100/1000T 802.3at PoE + 2-Port 100/1000XSFP Gigabit Ethernet Switch
ISW-504PT	Industrial 4-Port 10/100TX 802.3at PoE+ plus 1-Port 10/100TX Ethernet Switch
ISW-514PTF	Industrial 4-Port 10/100TX 802.3at PoE+ plus 1-Port 100FX Ethernet Switch
IFGS-1022HPT	Industrial 8-Port 10/100TX 802.3at PoE + 2-Port Gigabit TP/SFP Combo Ethernet Switch
IGS-5225-4P2S	L2+ Industrial 4-Port 10/100/1000T 802.3at PoE + 2-Port 100/1000X SFP Managed Ethernet Switch

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