

8-Port 10/100/1000Mbps with 4-Port PoE Gigabit Ethernet Switch



Centralized Power Distribution for Gigabit Ethernet Networking

To fulfill the demand of sufficient PoE power for network applications with Gigabit speed transmission, PLANET introduces a new member in the 802.3af PoE Gigabit Ethernet Switch family - **GSD-804P**, the **8-Port 10/100/1000Mbps with 4-Port 802.3af Power over Ethernet Switch** which features high performance Gigabit **IEEE 802.3af PoE (Up to 15.4 Watts)** and totally **55 Watts** PoE budget on half of the 10/100/1000Mbps TP ports of **GSD-804P**. The four 802.3af PoE ports provide PoE power injector function which is able to drive 4 IEEE 802.3af compliant powered devices. The **GSD-804P** also provides a simple, cost-effective, and non-blocking wire-speed performance with 10-inch metal shape for desktop deployment in compact housing, SOHO office or department network application.

Lead PoE Device into High-Speed Generation of Gigabit Ethernet

Providing data transfer and PoE in one unit, the GSD-804P shall reduce the need of extension cables and dedicated electrical outlets on the wall, ceiling or any unreachable place. It helps to lower the installation costs and simplify the installation effort. Besides, the first important key feature is energy saving. With more efficient switching power supply, the efficiency of the GSD-804P would be much better than four linear power adapters in the long run. Furthermore, it is the ideal device for bridging among Fast Ethernet and Gigabit Ethernet workgroups and networks. With Gigabit throughput and four 802.3af PoE interfaces supported, the GSD-804P is ideal for small business and workgroups to efficiently deploy the PoE network for the wireless access points, IP-based surveillance camera or IP phones in any places.

Excellent Ethernet Traffic Transmission Ability

The GSD-804P features high performance switch architecture capable of providing the non-blocking 16Gbps switch fabric and wire-speed throughput as high as 11.9Mpps, which greatly simplifies the tasks of upgrading the LAN for catering to increasing bandwidth demands. Besides, the 802.3x Full-Duplex flow control function of the GSD-804P enables PD devices and servers directly connect to the Switch for wire-speed packet transfer performance without risk of packet loss.

Energy-Saving

The GSD-804P uses new engine that provides energy saving up to 40% less energy than normal Switch and remains the superior performance. The GSD-804P incorporates two advanced Green Networking technologies:

- Idle Mode Link Down power saving
- Intelligent Scales Power based on cable length

The Idle mode Link Down power saving of the GSD-804P complies with IEEE 802.3az Energy Efficient Ethernet (EEE) standard to automatically lower power for a given port when it is not linked. The Intelligent Scales Power technology actively determines the appropriate power level based on the cable length. When connecting to the GSD-804P with Ethernet cable shorter than 20m, a device can obtain maximum power saving because the GSD-804P would automatically detect the Ethernet cable length and reduce power usage. The connected device can substantially reduce overall power consumption, which makes a significant contribution to energy saving.

Easy Cable Connection

All RJ-45 copper interfaces in the GSD-804P support 10/100/1000Mbps Auto-Negotiation for optimal speed detection through RJ-45 Category 6, 5 or 5e cables. It also supports standard Auto-MDI/MDI-X that can detect the type of connection to any Ethernet device without requiring special straight or crossover cables.

KEY FEATURES

RJ-45 INTERFACE

- 8-Port 10/100/1000Mbps Gigabit Ethernet ports
- 4-Port supports 48V DC power to PoE Powered Device

POE

- Complies with IEEE 802.3af Power over Ethernet End-Span PSE
- Up to 4 IEEE 802.3af devices powered
- Supports PoE Power up to 15.4 Watts for each PoE port
- Auto detect powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100m

SWITCHING

- Hardware based 10/100/1000Mbps Auto-Negotiation and Auto MDI/MDI-X
- Flow control for Full Duplex operation and back pressure for Half Duplex operation

- Integrates address look-up engine, supporting 8K absolute MAC addresses
- 9K Jumbo Frame supports at all speed (10/100/1000Mbps)
- Automatic address learning and address aging

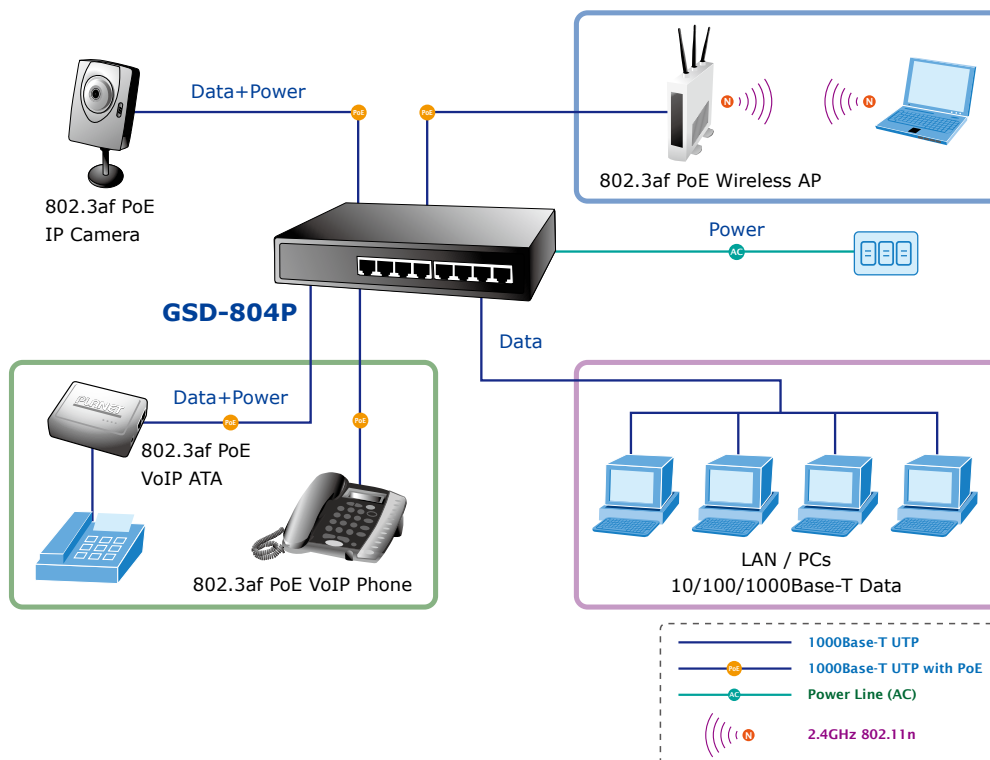
HARDWARE

- 10-inch desktop size, rack mountable; 1U height
- LED indicators for PoE ready and PoE activity
- Optional Rack Ear Accessories Kit for 10-inch cabinet (RKE-10A) and 19-inch cabinet (RKE-10B)
- 1 silent FAN to provide stable and efficient power performance
- Energy-Saving technology
 - Link down power saving
 - Intelligent scales power based on cable length

APPLICATIONS

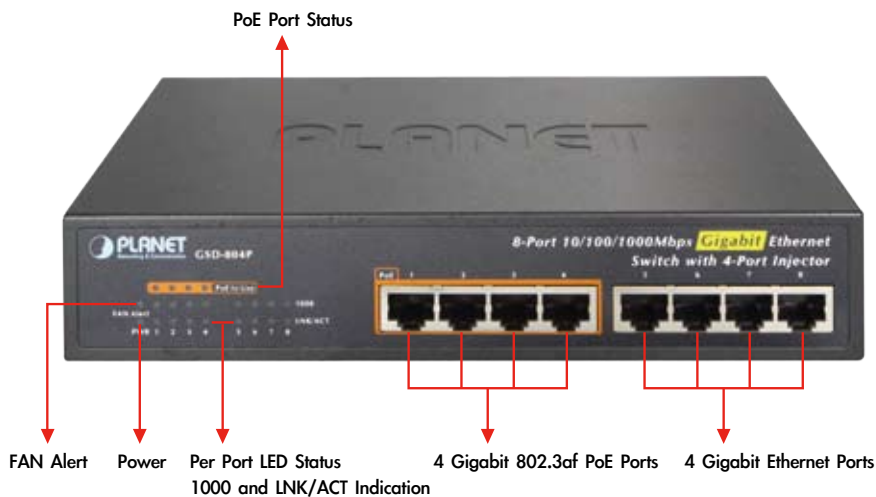
Department / Workgroup PoE Switch

Providing 4-Port PoE in-line power interface, the GSD-804P can easily build a power centrally-controlled IP phone system, IP Camera system and Wireless AP group for the enterprise. For instance, up to 4 cameras can be installed around the corner in the company for surveillance demands or up to 4 Wireless AP to build a wireless roaming environment in the office. Without the power-socket limitation, the Switch makes the installation of cameras or Wireless AP more easily and efficiently.



SPECIFICATION

Product	8-Port 10/100/1000Mbps with 4-Port PoE Gigabit Ethernet Switch	
Model	GSD-804P	
Hardware Specification		
Network Connector	8-Port RJ-45 for 10/100/1000Base-T	
PoE Inject Port	4-Port with 802.3af PoE injector function, Port-1 to Port-4	
LED Display	1 Power , 1 FAN Alert	
	1-4 port PoE in-use	
	1-8 port Speed, LNK/ACT	
Switch Architecture	Store and Forward switch architecture	
MAC Address	8K MAC address table with Auto learning function	
Switch Fabric	16Gbps	
Switch Throughput	11.9Mpps	
Jumbo Packet Size	9K Bytes	
Power Requirement	AC 100~240V, 50/60Hz, 1.5A	
Power Consumption	Max. 65 Watts / 221 BTU	
Dimension (W x D x H)	217 x 135 x 43 mm	
Weight	890g	
Power over Ethernet		
PoE Standard	IEEE 802.3af Power over Ethernet / PSE	
PoE Power Supply Type	End-Span	
PoE Power Output	Per Port 48V DC, 350mA . Max. 15.4 Watts	
Power Pin Assignment	1/2(+), 3/6(-)	
PoE Power Budget	55 Watts	
Standard Conformance		
EMI Safety	FCC Class A, CE	
Operating environment	0 ~ 50 Degree C	
Storage environment	-40 ~ 70 Degree C	
Operating Humidity	5 ~ 95%, relative humidity, non-condensing	
Storage Humidity	5 ~ 95%, relative humidity, non-condensing	
Standard Compliance	IEEE 802.3	Ethernet
	IEEE 802.3u	Fast Ethernet
	IEEE 802.3ab	Gigabit Ethernet
	IEEE 802.3x	Flow Control
	IEEE 802.3af	Power over Ethernet


ORDERING INFORMATION

GSD-804P	8-Port 10/100/1000Mbps with 4-Port PoE Gigabit Ethernet Switch
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ACCESSORIES

RKE-10A	Rack-mount Kit for 10-Inch Cabinet
RKE-10B	Rack-mount Kit for 19-Inch Cabinet

RELATED POE PRODUCTS

ICA-H312	H.264 25-meter IR Internet Camera
ICA-H610	H.264 Indoor CCD Internet Camera
ICA-HM100	Wired H.264 Mega-Pixel IP Camera
ICA-HM120	H.264 Mega-Pixel Box IP Camera
ICA-HM125	2 Mega-Pixel H.264 Box IP Camera
ICA-HM126	H.264 Full HD Box IP Camera
ICA-HM131	H.264 Full-HD Fixed Dome IP Camera
ICA-HM135	H.264 Mega-Pixel 20M IR Vandal Proof Dome IP Camera
ICA-HM240	H.264 Mega-Pixel Vandal Proof Pan/Tilt IP Camera
POE-151S	IEEE 802.3af Power Over Ethernet Splitter (10/100Mbps)
POE-152S	IEEE 802.3af Power over Ethernet Splitter (10/100/1000Mbps)
POE-E101	IEEE 802.3af Power over Ethernet Extender
VIP-156PE	802.3af PoE SIP Analog Telephone Adapter
VIP-254PT	SIP PoE IP Phone
VIP-255PT	Multi-Language PoE IP Phone
VIP-360PT	Enterprise PoE IP Phone
VIP-560PE / VIP-56EXT	Professional PoE IP Phone with Expansion Function
VIP-560PT	Professional PoE IP Phone
WNAP-C3220	300Mbps 802.11n Wireless Ceiling Mount Range Extender
WNAP-1120PE	802.11n Wireless Access Point with PoE
WNAP-3000PE	802.11n Enterprise PoE Access Point