

8-Port 10/100/1000Mbps with 2 Shared SFP Web Smart PoE Switch



Lead Power over Ethernet Device into High-Speed Generation of Gigabit Ethernet

For cost saving, flexibility and High-Speed data transmission using of PoE power provision, all of the 10/100/1000Mbps copper ports of the PLANET GSD-802PS provides PoE power injector function which is able to drive 8 IEEE 802.3af compliant powered devices with maximum up to 15.4 watts of power per port. With data and PoE from one unit, the GSD-802PS shall reduce cables and eliminate the need for dedicated electrical outlets on the wall, ceiling or any unreachable place. A wire carries both data and power lowering the installation costs, simplifying the installed effort and eliminating the need for electricians or extension cords. And the first important key feature is energy saving. With more efficient switching power supply, the efficiency of the GSD-802PS would be much better than four linear power adapters in the long run.

Furthermore, it is the ideal device for bridging among Ethernet, Fast Ethernet and Gigabit Ethernet workgroups and networks. With Gigabit throughput supported, the Gigabit PoE Switch won't be the bottleneck of a PoE networking environment any more.

Cost-effective Desktop Size / High-Speed / Fiber Capability WEB Smart Switch

The GSD-802PS is a Gigabit Web Smart PoE Switch with 8-Port 10/100/1000Mbps copper ports and 2 SFP slots, utilizing a compact form factor which can be mounted in a 19-inch rack with optional rack-mounting kits and placed on desktop. The enhanced management features are as below:

- 802.1Q VLAN
- 802.1X Authentication / RADIUS
- Rapid Spanning Tree
- SNMP monitor and SNMP Trap
- IGMP Snooping

High Gigabit Performance / Wire-Speed Switching

With 16Gbps non-blocking switch fabric, 8K MAC Address table and IEEE 802.3x Full-Duplex flow control, the GSD-802PS offers wire-speed packet transfer performance without risking of packet loss. The two Gigabit SFP (Small Factor Pluggable) slots can be installed with 1000Base-SX/LX mini-GBIC modules which offer incredible extensibility, flexibility and connectivity to the Core switch or servers.

Friendly / Simple Web Management Interface

For efficient management, with its built-in Web-based management, the GSD-802PS offers an easy-to-use and configuration facility. The smart functions make it easy to survey and control the PoE power provision Via the Web interface, the GSD-802PS can be programmed for basic Switch management functions such as per port speed duplex settings, Port Trunking, VLAN, Port Mirroring, Rapid Spanning Tree, 802.1X network security authentication and Misc Configuration. Additionally, the firmware includes advanced features, such as PoE control, IGMP snooping, QoS (Quality of Service), broadcast storm and bandwidth control, to enhance bandwidth utilization.

KEY FEATURE

Generic Features

- Complies with IEEE 802.3, 10Base-T, IEEE 802.3u, 100Base-TX, IEEE 802.3ab, 1000Base-T, IEEE 802.3z Gigabit SX/LX, IEEE 802.3af Power over Ethernet standard
- 8-Port 10/100/1000Mbps Gigabit Ethernet ports
- 2 mini-GBIC/SFP slots, shared with Port-7 and Port-8
- Each Switching ports supports auto-negotiation-10/20, 100/200 and 1000/2000Mbps
- Auto-MDI/MDI-X detection on each RJ-45 port supports CSMA/CD protocol
- Prevents packet loss with back pressure (Half-Duplex) and IEEE 802.3x PAUSE frame flow control (Full-Duplex)
- 8K MAC address table, automatic source address learning and ageing
- 16Gbps switch fabric, non-blocking switch architecture
- 9K Jumbo Frame supports at all speed (10/100/1000Mbps)

Power Over Ethernet

- All Copper ports with IEEE 802.3af injector built-in
- Supports 48VDC, 15.4 watts PoE power output to 8 IEEE 802.3af compliant Powered Devices
- Power feeding On/Off and priority configuration
- Power Limit function for PoE power management
- Powered Device Auto Detection
- LED PoE Status Monitoring

Layer 2 Switching

- Supports Port-Based and IEEE 802.1Q VLAN function, up to 64 VLAN groups
- IEEE 802.1w Rapid-Spanning Tree protocol supported
- Link Aggregation supports static mode and LACP (IEEE 802.3ad) – up to 4 Trunk groups, each trunk for up to maximum 8 ports

Multicast

- IGMP Snooping for multicast filtering, supports v1 and v2
- IGMP Query Mode supports for multimedia application

Quality of Service

- 4 QoS classes per port
- Traffic class assignment based on IEEE 802.1p tag, or DSCP field
- Multicast and Broadcast Storm Control as well as Flooding Control
- Ingress Rate Limit and Egress Shaping for bandwidth control in steps of 128kbps

Security

- Port Mirroring supports for dedicated port monitoring
- IEEE 802.1X Port-Base access control, RADIUS Server Authentication
- Static MAC Address assigns destination MAC address at specific port

Management

- Remote Web management interface
- Firmware upgrade through Web interface
- Cable Diagnostics technology
- Supports SNMPv1 with RFC-1213/1573-Interface group and RMON Group 1 (Statistics)
- SNMP Trap
- Supports PLANET Smart-DISCOVERY Utility for deploy management

SPECIFICATION
Product 8-Port 10/100/1000Mbps Web Smart PoE Switch

Model GSD-802PS

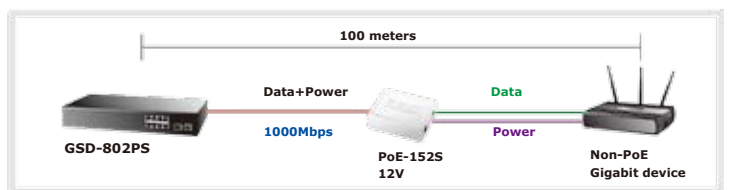
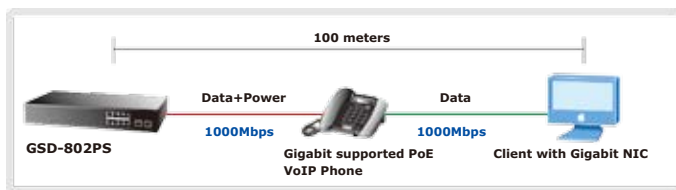
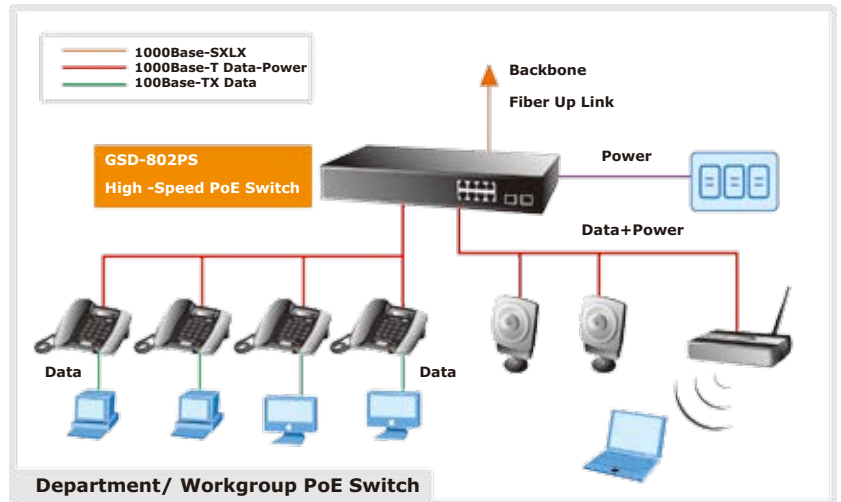
Hardware Specification

Copper Ports	8 10/ 100/1000Base-T RJ-45 Auto-MDI/MDI-X ports
SFP/mini-GBIC Slots	2 SFP interfaces, shared with Port-7 and Port-8
PoE Power Output	48V DC, 15.4W, 350mA (Pin1, 2, 3, 6)
PoE Power Budget	123.2 watts
Switch Architecture	Store-and-Forward
Switch Fabric	16Gbps / non-blocking
Switch Throughput	11.9Mpps
Address Table	8K MAC address table with Auto learning function
Share Data Buffer	Built-in 176K bytes chip buffer
Flow Control	Back pressure for Half-Duplex, IEEE 802.3x Pause Frame for Full-Duplex
Jumbo Frame	Up to 9K Bytes (Disable, 4K, 9K)
LED	Power, 1000 Link/Act, 10/100 Link/Act per port
Dimensions	330mm x 155mm x 43.5mm (W x D x H)
Weight	1.8 kg
Power Requirement	100 - 240VAC, 50 – 60Hz, Auto-sensing
Power Consumption	8.7 watts / 27.31 BTU
Temperature	Operating: 0~50 degree C, Storage -40~70 degree
Humidity Operating	10% to 90%, Storage: 5% to 95% (Non-condensing)
Layer 2 Function	
Management Interface	Web Browser, SNMPv1, v2c monitor and SNMP Trap
Port Configuration	Port disable/enable. Auto-negotiation 10/100/1000Mbps full and half duplex mode selection Flow Control disable / enable Bandwidth control on each port
VLAN	Port-Based / IEEE 802.1Q Tagged Based VLAN, Up to 64 VLAN groups
Link Aggregation	Supports 4 groups of 8-Port trunk, IEEE 802.3ad LACP
QoS	Traffic classification based on 802.1p priority, DSCP field in IP Packet
IGMP Snooping	IGMP (v1/v2) Snooping, up to 64 multicast Groups
SNMP MIBs	RFC-1213 MIB-2 RFC-1573-Interface MIB RFC-2819 RMON MIB (Group 1)
Standards Conformance	
Regulation Compliance	FCC Part 15 Class A, CE
Standards Compliance	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab Gigabit 1000Base-T IEEE 802.3z 1000Base-SX/LX IEEE 802.3x Flow Control IEEE 802.3ad Port trunk with LACP IEEE 802.1d Spanning tree protocol IEEE 802.1w Rapid spanning tree protocol IEEE 802.1p Class of service IEEE 802.1Q VLAN Tagging IEEE 802.1x Port Authentication Network Control IEEE 802.3af Power over Ethernet
Network Media	10Base-T – UTP/STP category 3, 4 or 5 cable 100Base-TX – UTP/STP category 5 cable 1000Base-T – UTP/STP category 5e/6 cable 1000Base-SX - 62.5/125µm multi-mode fiber optic cable, up to 220m - 50/125µm multi-mode fiber optic cable, up to 550m 1000Base-LX - 9/125µm single-mode fiber optic cable, up to 120km (Vary on SFP Module)

APPLICATIONS

Department/ Workgroup PoE Switch

Providing up to 8 PoE, in-line power interface, the GSD-802PS can easily build a power central-controlled IP phone system, IP Camera system, AP group for the enterprises. For instance, 8 camera / AP can be easily installed around the corner in the company for surveillance demands or build a wireless roaming environment in the office. Without the power-socket limitation, the GSD-802PS makes the installation of cameras or WLAN AP easier and efficient.



ORDERING INFORMATION

GSD-802PS	8-Port 10/100/1000Mbps Web Smart PoE Switch
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RELATIVE PRODUCT

POE-152S-5V	IEEE 802.3af Power over Ethernet Splitter with 5V DC output (End-Span)
POE-152S-12V	IEEE 802.3af Power over Ethernet Splitter with 12V DC output (End-Span)
GSD-800S	8-Port 10/100/1000Mbps Web Smart Gigabit Switch
GSD-802S	8-Port 10/100/1000Mbps with 2 shared SFP Web Smart Gigabit Switch

AVAILABLE MODULES FOR GSD-802PS MINI-GBIC SFP SLOTS

MGB-GT	SFP-Port 1000Base-T mini-GBIC module
MGB-SX	SFP-Port 1000Base-SX mini-GBIC module
MGB-LX	SFP-Port 1000Base-LX mini-GBIC module
MGB-L30	SFP-Port 1000Base-LX mini-GBIC module -30km
MGB-L50	SFP-Port 1000Base-LX mini-GBIC module -50km
MGB-L70	SFP-Port 1000Base-LX mini-GBIC module -70km
MGB-L120	SFP-Port 1000Base-LX mini-GBIC module -120km
MGB-LA10	SFP-Port 1000Base-LX mini-GBIC module- LC WDM(TX:1310nm), SM,10km
MGB-LB10	SFP-Port 1000Base-LX mini-GBIC module- LC WDM(TX:1550nm), SM,10km
MGB-LA20	SFP-Port 1000Base-LX mini-GBIC module- LC WDM(TX:1310nm), SM,20km
MGB-LB20	SFP-Port 1000Base-LX mini-GBIC module- LC WDM(TX:1550nm), SM,20km
MGB-LA40	SFP-Port 1000Base-LX mini-GBIC module- LC WDM(TX:1310nm), SM,40km
MGB-LB40	SFP-Port 1000Base-LX mini-GBIC module- LC WDM(TX:1550nm), SM,40km