



8-Port 10/100TX 802.3at PoE + 2-Port Gigabit TP/SFP Combo Web Smart Ethernet Switch



FGSD-1008HPS















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Presentation Outlines

- Product Overview
- Product Benefits

- Product Features
- Applications





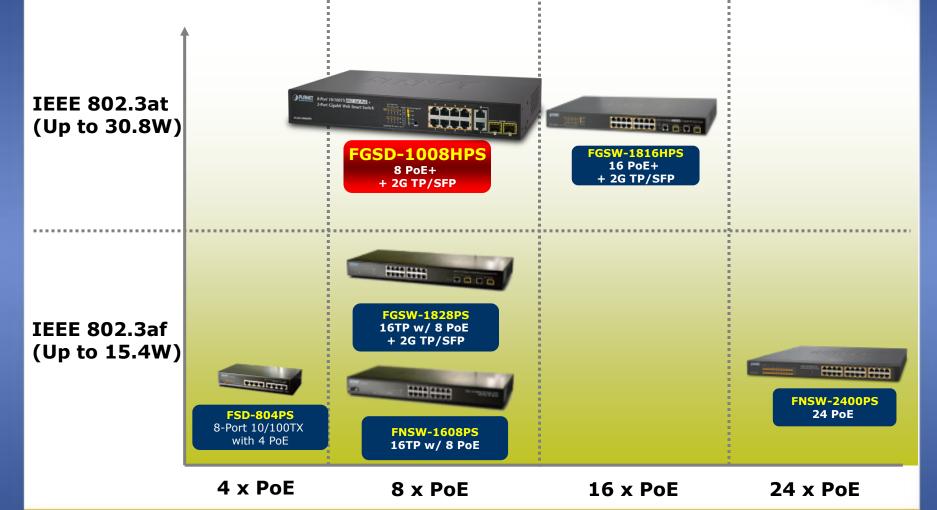


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The PLANET Economic PoE+ Web Smart Switch Family



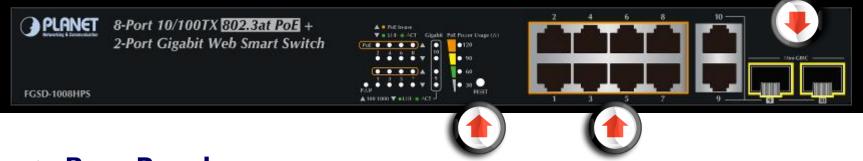
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Front Panel

- √ 8-Port 10/100BASE-TX Fast Ethernet ports, auto-MDI / MDI-X, autonegotiation
- ✓ Two Gigabit TP / SFP combo interfaces
- ✓ One Reset button on front panel for reboot / reset





Rear Panel

- **✓** 100~240V AC, universal power supply
- ▼ Thermal fan1
- Earth ground













Why 8 PoE Ports w/ 2 Gigabit uplink?

Designed for IP Surveillance

NVR

4 / 8 / 16 / 32 channel

Video Recording

CMS

4 / **8** / 16 / 32 / 64 channel

Central Management Software

Make it a part of the IP Surveillance Kit



FGSD-1008HPS

8-Port PoE Switch



8-CH NVR



8 PoE IP Cameras



Product Benefits



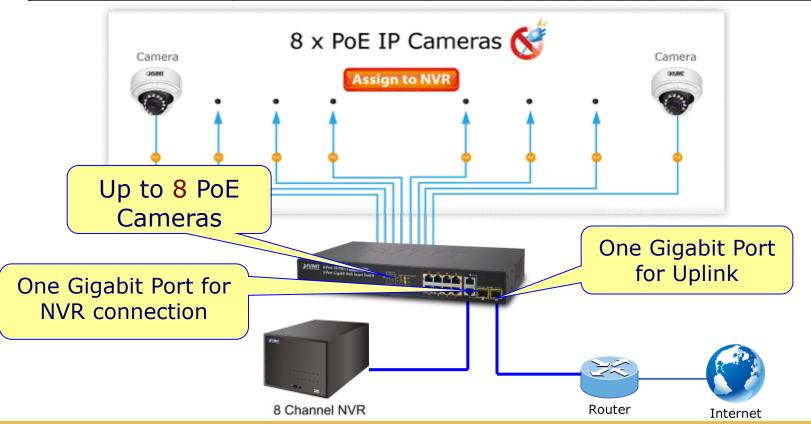
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Product Benefits

Model Name	FGSD-1008HPS
Power Budget	125-watt
Applications	All types of IP surveillance, VoIP and Wi-Fi deployments





Product Benefits

As required by customers

Providing 8 PoE+ with 2
Gigabit TP interfaces in one unit

Works with **8-channel NVR** via one Gigabit
TP/SFP Combo port



FGSD-1008HPS

er Flexibility

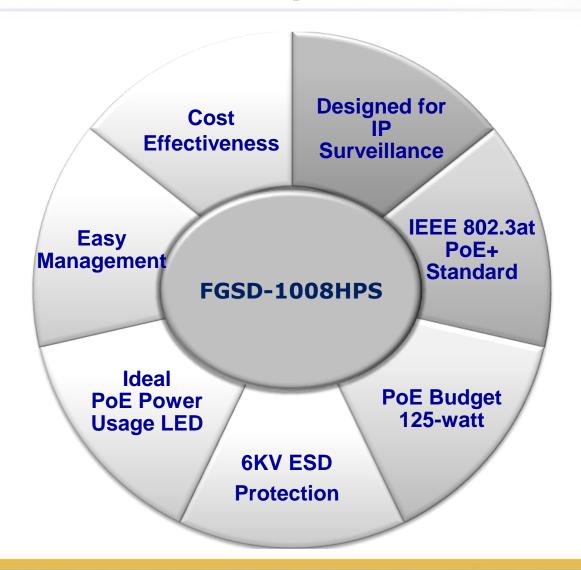
Build an IP camera system easily

Cost Effectiveness

Easy Management



Product Key Features







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Hardware

- √ 8-Port 10/100Mbps Fast Ethernet interfaces
- ✓ 2-Port 10/100/1000Mbps Gigabit interfaces
- ✓ 2 mini-GBIC SFP slots, flexible for Gigabit fiber-optic network extension
- √ 1000Base-SX/LX :Maximum 120 kilometres (MGB-L120)
- ✓ 6KV ESD protection
- ✓ 4K MAC address table size
- ✓ Switch architecture with non-blocking switch fabric (5.6Gbps) and wirespeed throughput
- Prevents packet loss with backpressure (half-duplex) and 802.3 pause frame flow control (full-duplex)
- ✓ Auto-MDI / MDI-X on each port



Power over Ethernet Plus

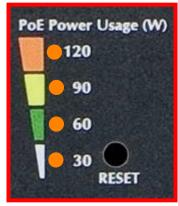
- ✓ Complies with IEEE 802.3af / 802.3at Power over Ethernet Plus PSE
- **▼ 8 10/100Mbps copper ports with built-in PoE+ injector**
- ✓ **52V DC**, **30-watt PoE** power output
- **✓ 125-watt PoE Power Budget**
- ✓ Auto detects powered device and consumption levels
- **✓** Circuit protection to prevent power interference between ports

Model		FGSD-1008HPS		
PoE Budget		125-watt		
PoE Ability	Class 1 PD, <3.8W	8		
	Class 2 PD, <6.5W	8		
	Class 3 PD, <12.9W	8		
	Class 4 PD, <25W	5		
Input Power		100~240V AC / 50-60Hz, 2A		



- Intelligent LED Indicator for Real-time PoE Usage
 - ✓ With these LED indications, you can monitor the PoE power status of the FGSD-1008HPS easily and efficiently

- PoE Output Budget over 120 watts
- PoE Output Budget over 90 watts
- PoE Output Budget over 60 watts
- PoE Output Budget over 30 watts





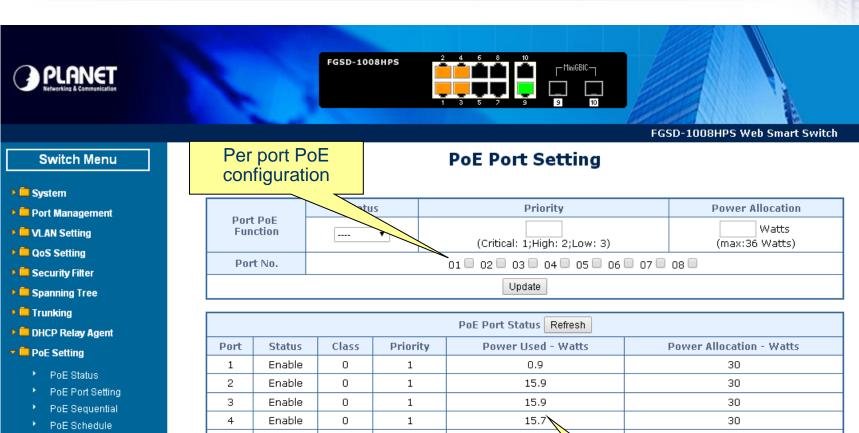


Configuration Backup/Upload

Misc Operation

NMP ■ SNMP 🕩 🛄 Logout

Product Features



FOE POIL Status Relies!								
Port	Status	Class	Priority	Power Used - Watts	Power Allocation - Watts			
1	Enable	0	1	0.9	30			
2	Enable	0	1	15.9	30			
3	Enable	0	1	15.9	30			
4	Enable	0	1	15.7	30			
5	Enable		1	0.00	30			
6	Enable		1	0.00	30			
7	Enable		1	0.00	30			
8	Enable		1	0.00	30			

Per port PoE consumption



Management

- ✓ Remote Web interface for switch management and setup
- ✓ Supports SNMP v1 / V2c
- ✓ Supports DHCP Option82 and DHCP Relay
- ✓ Firmware upgrade through Web interface
- ✓ Configuration backup / reload through Web interface
- ✓ Reset button for system reboot or reset to factory default
- ✓ PLANET Smart Discovery Utility for deploy management



VLAN

- ✓ IEEE 802.1Q tag-based VLAN
- ✓ Port-based VLAN
- ✓ MTU VLAN (Multi-Tenant Unit VLAN)

Link Aggregation

- ✓ Up to 3 trunk groups
- ✓ Up to 4 Fast Ethernet ports or 2 Gigabit ports per trunk group
- ✓ IEEE 802.3ad LACP (Link Aggregation Control Protocol)
- ✓ Cisco ether-channel (Static Trunk)



Link Aggregation

✓ Up to 3 trunk groups

✓ 2 groups of

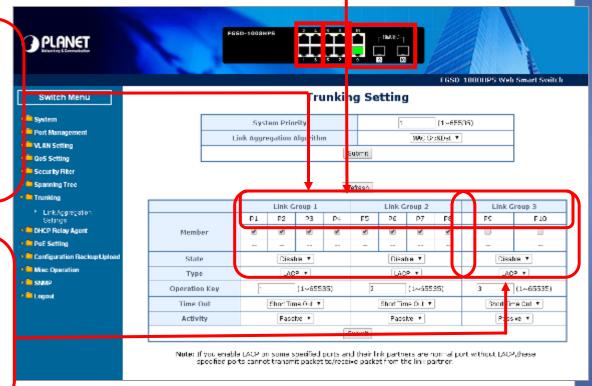
4-Port 10/ 100Base-TX trunk support,

up to 800Mbps bandwidth per trunk

✓ 1 group of

2-Port 10/100/1000Mbps trunk support,

up to 2000Mbps bandwidth per trunk





Spanning Tree Protocol

- ✓ STP, IEEE 802.1D (Classic Spanning Tree Protocol)
- ✓ RSTP, IEEE 802.1w (Rapid Spanning Tree Protocol)
- ✓ Loopback Detection

Port Mirroring

✓ Monitors the incoming or outgoing traffic on a particular port

In/Out Bandwidth Control

✓ Provides a different transmission rate per Fast Ethernet port



- QoS
 - ✓ 2 priority queues on all switch ports
 - Traffic classification:
 - ✓ Port-based priority
 - ✓ IEEE 802.1p based priority
 - ✓ IP TOS / DSCP based priority
 - ✓ TCP / UDP Port-based QoS
 - ✓ Strict priority and Weighted Round Robin (WRR) CoS policies
 - ✓ Broadcast Storm Control support



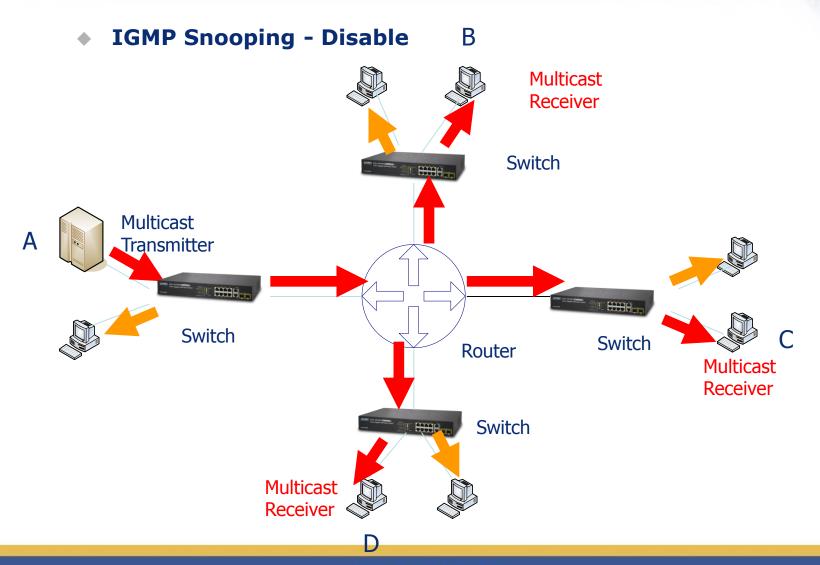
Multicast

✓ Supports IGMP Snooping v1 and v2

Security

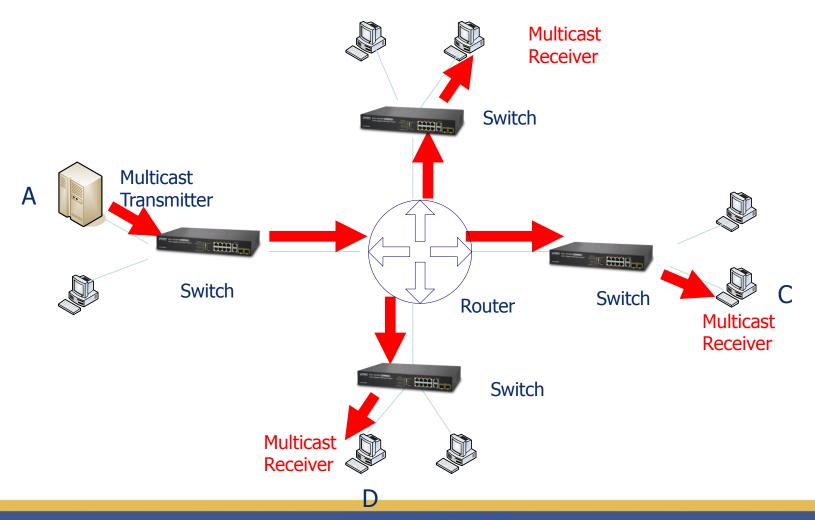
- ✓ MAC address filter
- ✓ TCP & UDP filter on each port
- Management idle time security







♦ IGMP Snooping - Enable





Applications



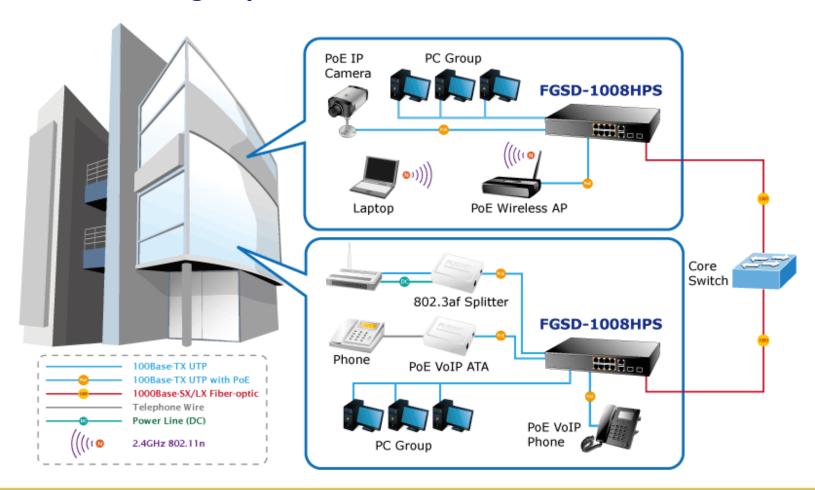
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Applications

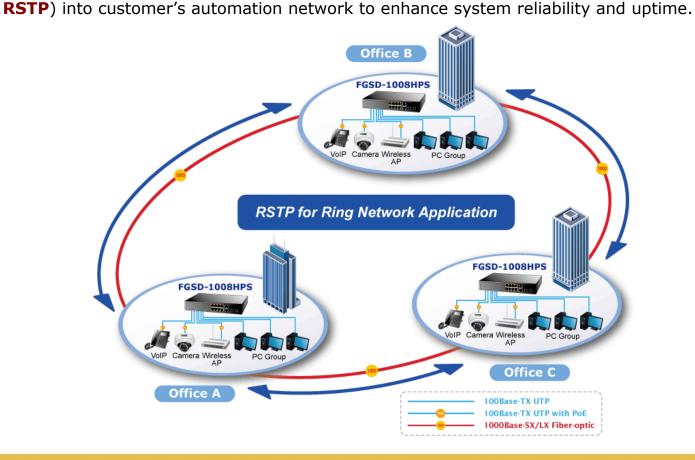
 PoE IP Surveillance with Extended Network Infrastructure for SMBs / Workgroups





Applications

Rapid Spanning Tree Protocol for Efficient Network System
The FGSD-1008HPS features strong rapid self-recovery capability to prevent interruptions and external intrusions. It incorporates Rapid Spanning Tree Protocol (802.1w)





Appendix Sales Target

Target Markets

- **✓** IP Surveillance integrator, Wireless Service Provider
- ✓ Enterprise / SMB Office / Government / Campus
- **✓** System Integrator



Profitable Products

- ▼ The following 8-port PoE switches / injector hubs are potential to all customers:
 - FGSD-1022P, FGSD-1022HP
 - WGSD-10020HP, GS-4210-8P2T2S
- ▼ The following network video recorders (NVRs) are potential to all customers:
 - NVR-820, NVR-915, HDVR-830









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Related IP Surveillance PoE Products:

- ✓ ICA-1200: Full HD PoE Box IP Camera
- ✓ ICA-3260: 60fps Full HD IR Bullet IP Camera
- ✓ ICA-4210P: 60fps Full HD IR IP Camera
- ✓ ICA-2250VT: Industrial PoE Plus Outdoor IR IP Camera











Related Wireless PoE Products:

- ✓ WDAP-C7400 900Mbps Dual Band Ceiling Mount Wireless Access Point
- ✓ WDAP-C7200AC 1200Mbps 802.11ac Ceiling Mount Wireless Access Point
- ✓ WNAP-6350 2.4GHz 300Mbps 802.11b/g/n Wireless Outdoor Access Point
- ✓ WNAP-7350 5GHz 300Mbps 802.11a/n Wireless Outdoor Access Point









Related Product - NVR

Midrange NVR

Model Name		Description
NVR-1615	11 157 157 ₁	16-Ch Network Video Recorder
NVR-915	n in m	9-Ch Network Video Recorder

Entry-Level HDVR

Model Name		Description		
HDVR-1630	PM STREET, T. T. C.	16 Channel Hybrid Digital Video Recorder		
HDVR-830		8 Channel Hybrid Digital Video Recorder		
HDVR-430		4 Channel Hybrid Digital Video Recorder		



Professional NVR

Model Name		Description
NVR-3280		32-Ch Rack-mount Network Video Recorder with 8-Bay Hard Disks
NVR-3250		32-Ch Rack-mount Network Video Recorder
NVR-3210	2	32-Ch Network Video Recorder
NVR-1620		16-CH Network Video Recorder with HDMI
NVR-820		8-CH Network Video Recorder with HDMI



Available Gigabit Ethernet Fiber Optic SFP Modules:

Gigabit Ethernet Transceiver (1000BASE-X SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Wavelength
MGB-GT	1000	Copper		100m		0 ~ 60 °C
MGB-SX	1000	LC	Multi Mode	550m	850nm	0 ~ 60°C
MGB-SX2	1000	LC	Multi Mode	2km	1310nm	0 ~ 60 °C
MGB-LX	1000	LC	Single Mode	10km	1310nm	0 ~ 60°C
MGB-L30	1000	LC	Single Mode	30km	1310nm	0 ~ 60°C
MGB-L50	1000	LC	Single Mode	50km	1550nm	0 ~ 60 °C
MGB-L70	1000	LC	Single Mode	70km	1550nm	0 ~ 60°C
MGB-L120	1000	LC	Single Mode	120km	1550nm	0 ~ 60 °C
MGB-TSX	1000	LC	Multi Mode	550m	850nm	-40 ~ 75 °C
MGB-TLX	1000	LC	Single Mode	10km	1310nm	-40 ~ 75 °C
MGB-TL30	1000	LC	Single Mode	30km	1310nm	-40 ~ 75 °C
MGB-TL70	1000	LC	Single Mode	70km	1550nm	-40 ~ 75 °C



Available Gigabit Ethernet WDM Fiber Optic SFP Modules:

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

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.		
MGB-LA10	1000	WDM(LC)	Single Mode	Cingle Mede	10km	1310nm	1550nm	0 ~ 60°C	
MGB-LB10	1000	VVDIVI(LC)	Single Mode	TOKITI	1550nm	1310nm	0~00°C		
MGB-LA20	1000	WDM(LC)	Single Mode	20km	1310nm	1550nm	0 ~ 60°C		
MGB-LB20	1000	VVDIVI(LO)	Single Mode	ZOKIII	1550nm	1310nm	0 ~ 60°C		
MGB-LA40	1000	WDM(LC)	Single Mode	40km	1310nm	1550nm	0 ~ 60°C		
MGB-LB40	1000	VVDIVI(LC)	Single Mode	Single Mode 40km	1550nm	1310nm	0~60°C		
MGB-LA60	1000	MDM(LC)	Single Mede	60km	1310nm	1550nm	0 ~ 60°C		
MGB-LB60		WDM(LC)	Single Mode	OUKIII	1550nm	1310nm	0~00~0		
MGB-TLA10	1000 WDM(LC)	MDM/LC) Single Mede	Single Mode	10km	1310nm	1550nm	-40~75°C		
MGB-TLB10		VVDIVI(LC)	Single Mode	TOKITI	1550nm	1310nm	-40-75-0		
MGB-TLA20	1000 WDM(LC)	1000 WDM(LC)	WDM(LC)	Single Mode	20km	1310nm	1550nm	-40~75°C	
MGB-TLB20			VVDIVI(LC)	Single Mode	ZOKIII	1550nm	1310nm	-40-75-0	
MGB-TLA40	1000 WDM(LC)	WDM(LC)	Single Mode	VDM(LC) Single Mode	40km	1310nm	1550nm	-40~75°C	
MGB-TLB40					40km	1550nm	1310nm	-40-75°C	
MGB-TLA60	1000 WDM(LC) Single Mode	WDM(LC) Single Mode	1000 WDM(LC)	Single Mode	Cingle Mede	60km	1310nm	1550nm	-40~75°C
MGB-TLB60	1000		Single Mode 60K		OOKIII	1550nm	1310nm	-40-75-0	



ACTIVATING IP POWER