Pioneer of IP Innovation

8-Port 10/100/1000T *802.3at PoE* +
1-Port Gigabit Desktop Switch

GSD-908HP

PoE

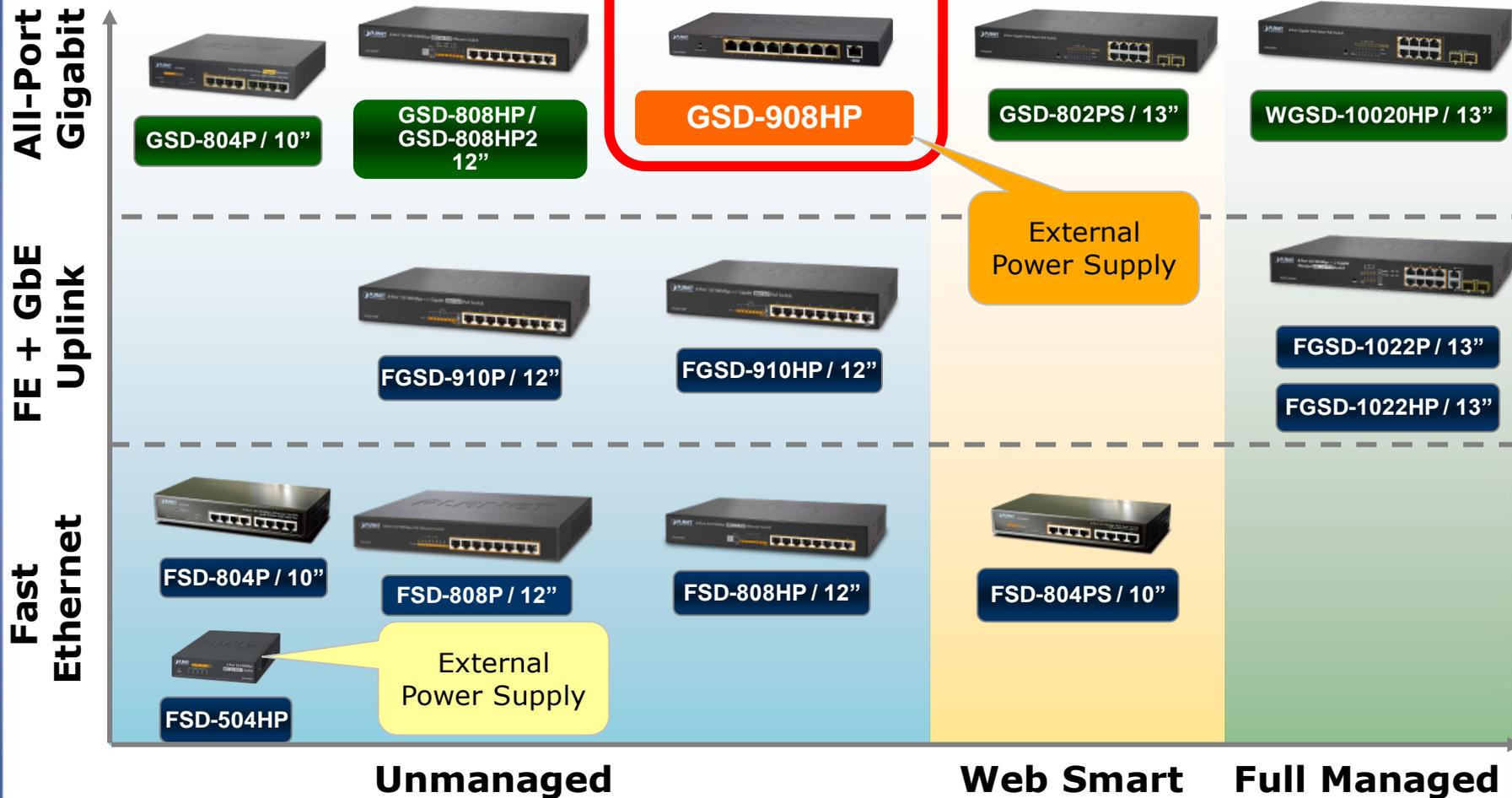30W Per Port

10M/100M 1000M

Metal Shape

Fan Less

Wall Mount

Presentation Outlines

- **Product Overview**

- **Product Benefits**

- **Product Features**

- **Applications**

- **Comparison**

- **Appendix**

Product Overview

◆ **Map of *Desktop-size* PoE Switches**

	Unmanaged		Web Smart	Full Managed
All-Port Gigabit	GSD-804P / 10"	GSD-808HP / GSD-808HP2 12" / **GSD-908HP**	GSD-802PS / 13"	WGSD-10020HP / 13"
FE + GbE Uplink	FGSD-910P / 12"	FGSD-910HP / 12"		FGSD-1022P / 13" / FGSD-1022HP / 13"
Fast Ethernet	FSD-804P / 10" / FSD-504HP	FSD-808P / 12"	FSD-808HP / 12" / FSD-804PS / 10"	

External Power Supply

External Power Supply

Product Benefit

◆ **A High-performance and Environment-friendly PoE PSE Product**

Smallest Gigabit PoE+ Switch

Compact Desktop Size

Fanless and Noiseless Design
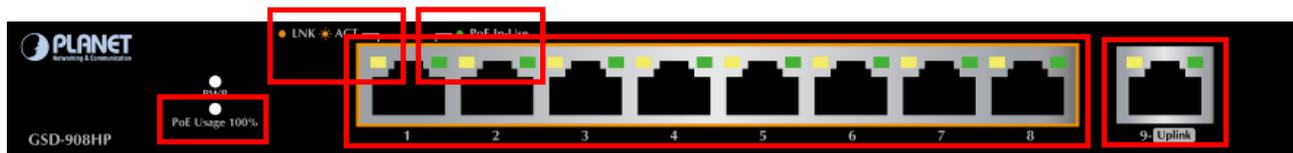
Extra Gigabit Uplink Port

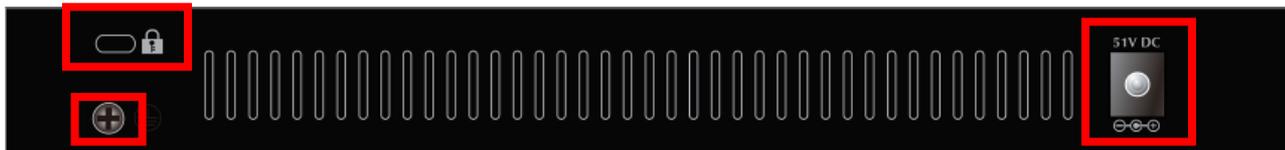Installation

Product Overview

◆ **Front Panel -- Interface**

✓ Total 9 x 10/100/1000Base-T Port

- Auto-MDI/MDI-X, Auto Negotiation

✓ 8 x IEEE 802.3at / af PoE Port

- End-span PSE, Pin 1, 2 (+) and Pin 3, 6 (-)
- POE Power up to **30 watts** for each PoE Port

✓ 1 x 10/100/1000Base-T Port for Uplink

✓ LEDs

- Power and PoE Usage 100%
- PoE In-Use LEDs (Port 1 to Port 8)
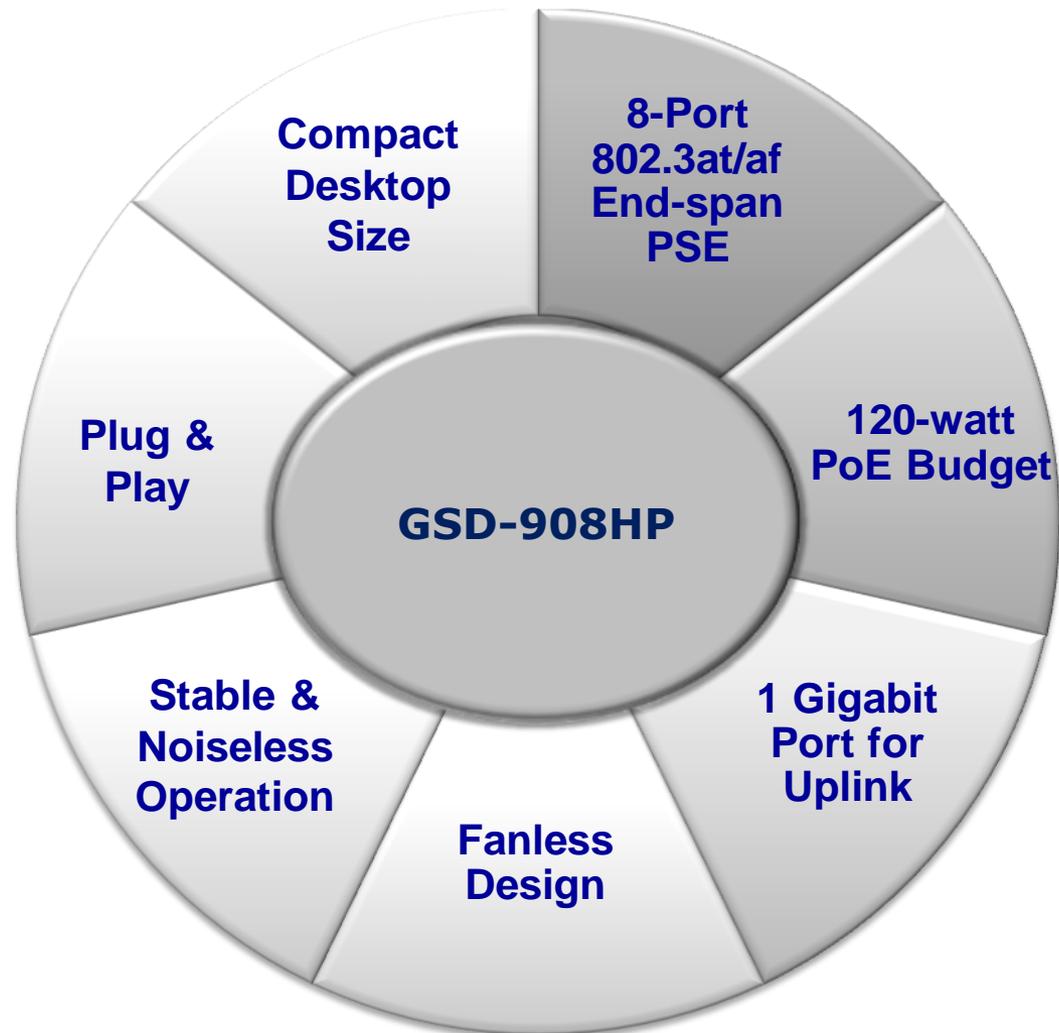- 10/100/1000Base-T Link/Activity LEDs (Port 1 to Port 9)

Product Overview

◆ **Rear Panel of GSD-908HP**

✓ 51V DC, 2.5A, External AC to DC Adapter Socket

✓ One Grounding screws – reliable ESD protection

✓ One Security Slot

✓ Fanless Design – quiet for a comfortable indoor environment

Product Key Features

Compact Desktop Size

8-Port 802.3at/af End-span PSE

Plug & Play

GSD-908HP

120-watt PoE Budget

Stable & Noiseless Operation

Fanless Design

1 Gigabit Port for Uplink

Product Features

◆ **Hardware**

- ✓ Hardware based 10/100/1000Mbps (Port 1 to Port 9), Auto-Negotiation and Auto MDI/MDI-X

- ✓ 4K MAC Address Table size

- ✓ Flow control for Full Duplex operation and back pressure for Half Duplex operation

- ✓ Power status and PoE Usage 100%, per port Ethernet Link/Act, PoE In-Use (Port 1to port 8) LED display on the front panel

- ✓ 9K Jumbo frame size support in 1000Mbps duplex mode

- ✓ Auto detects powered device (PD)
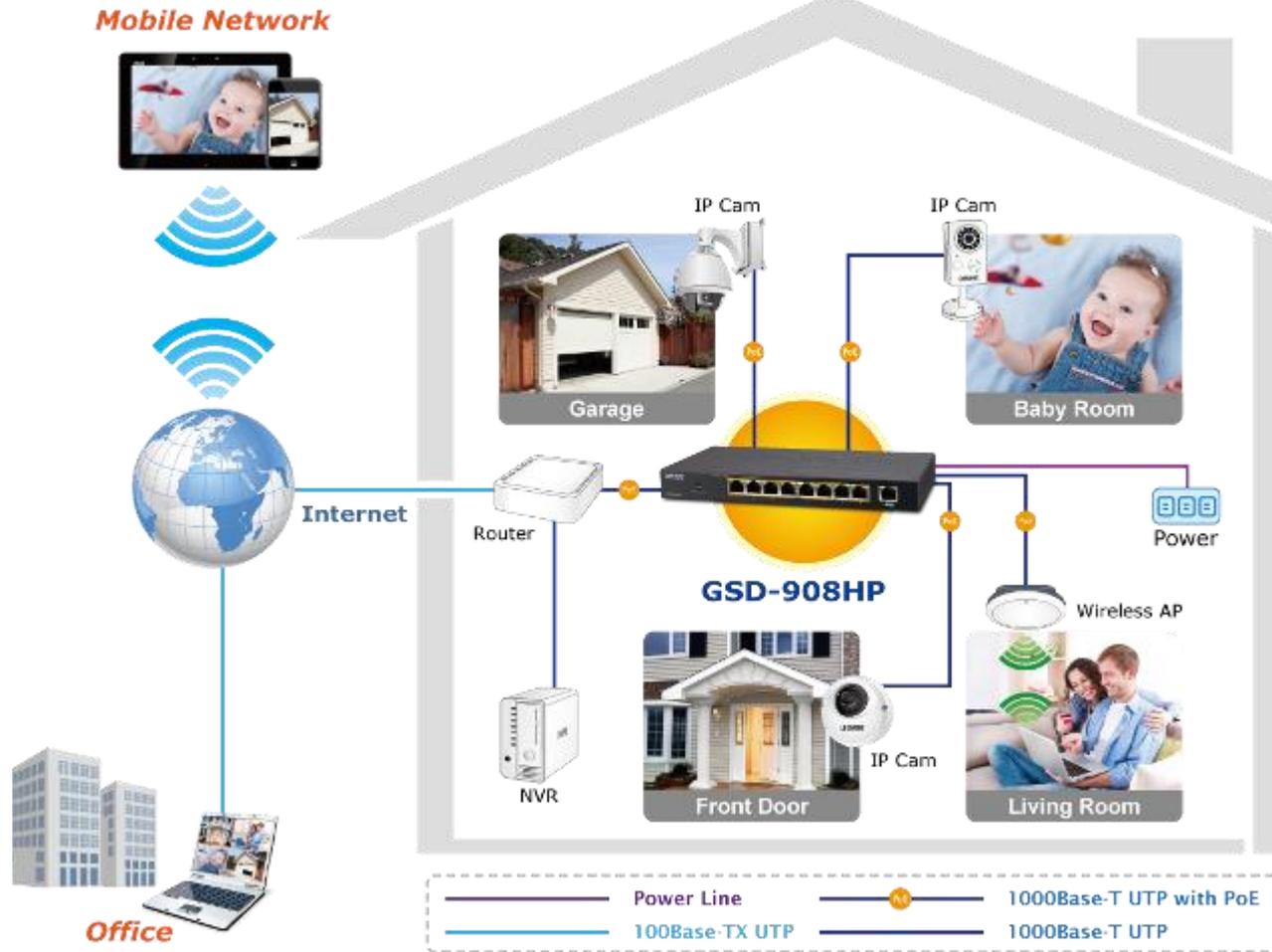
- ✓ Remote power feeding up to 100m

Product Features

◆ **Power over Ethernet**

- ✓ Complies with IEEE **802.3at/af PoE End-Span** PSE
- ✓ **8** 10/100/1000Mbps copper ports with built-in **PoE** injector
- ✓ **51V DC**, **30 watts** of PoE power output
- ✓ **120 watts** of PoE Power Budget
- ✓ **Auto detects** powered device and consumption levels
- ✓ Circuit protection to prevent power interference between ports

Model		GSD-908HP
PoE Budget		120 watts
PoE Ability	Number of Class 1 PD, <3.8W	8
	Number of Class 2 PD, <6.5W	8
	Number of Class 3 PD, <12.9W	8
	Number of Class 4 PD, <25.5W	4
Input Power		51V DC, 2.5A (max.)

Applications

◆ **SOHO / HOME-Use Gigabit Ethernet PoE Network Deployment**

✓ With its expanded home-use feature, the GSD-908HP 802.3at PoE+ Switch helps SOHO / home users to create an **integrated data, video, and powered network.**

✓ The wireless AP and PoE IP camera devices work perfectly with the GSD-908HP, which injects power through the Ethernet cables, thus helping SOHO / home users to build a cost-effective and reliable PoE networking environment easily.
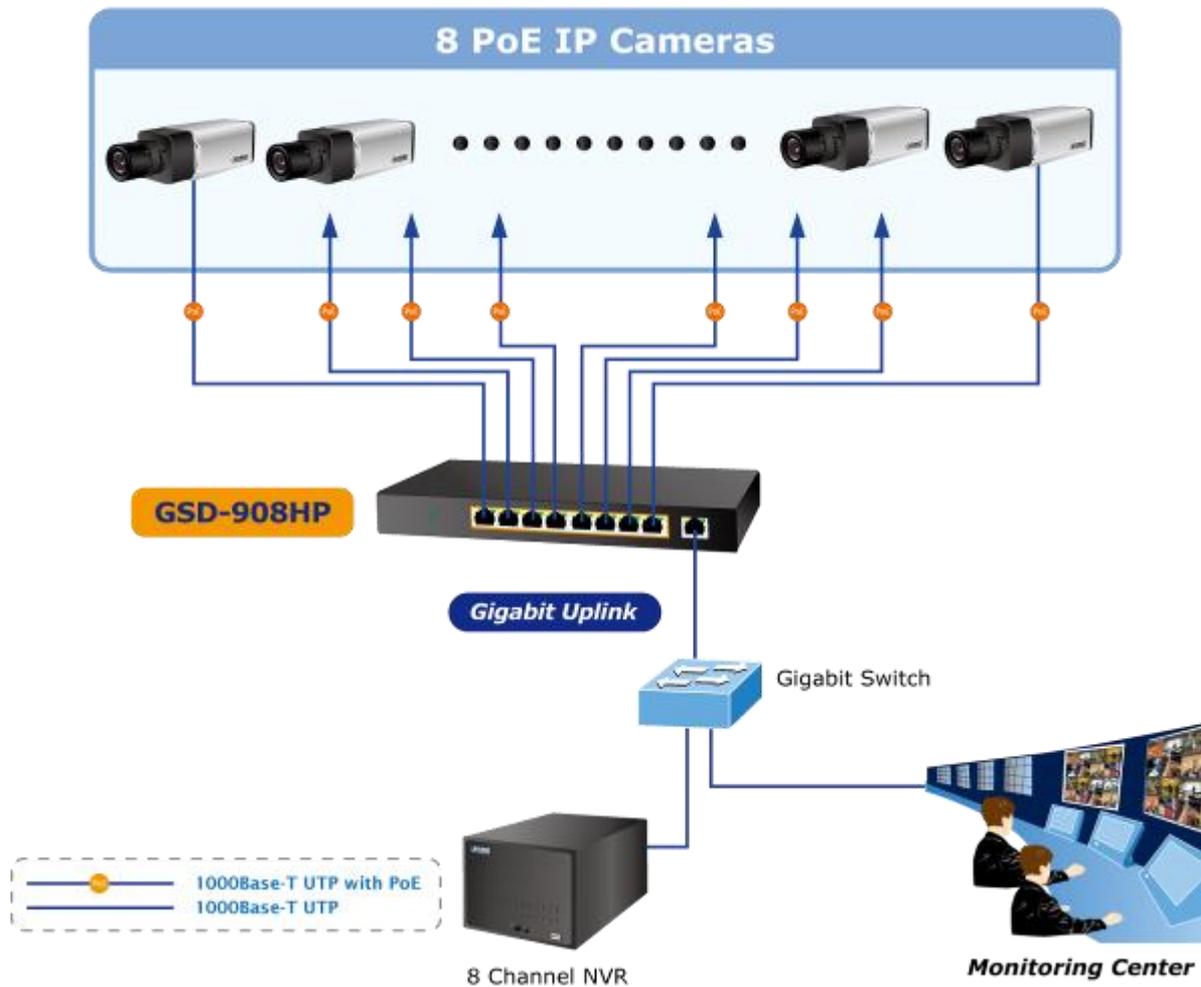
Applications

Applications

◆ **Ideal Solution for Securing IP Surveillance Infrastructure**

- ✓ Particularly designed for the growing popular IP Surveillance applications, the GSD-908HP 802.3at PoE Switch is positioned as a **Surveillance Switch** for quick and easy PoE IP camera deployment with power feeding.

- ✓ The GSD-908HP provides both **802.3af and 802.3at PoE functions** along with 8 10/100/1000Base-T ports featuring 15.4-watt 802.3af and 30-watt 802.3at PoE in RJ-45 copper interfaces and 1 extra Gigabit TP interface supporting high-speed transmission of surveillance images and videos.

Applications

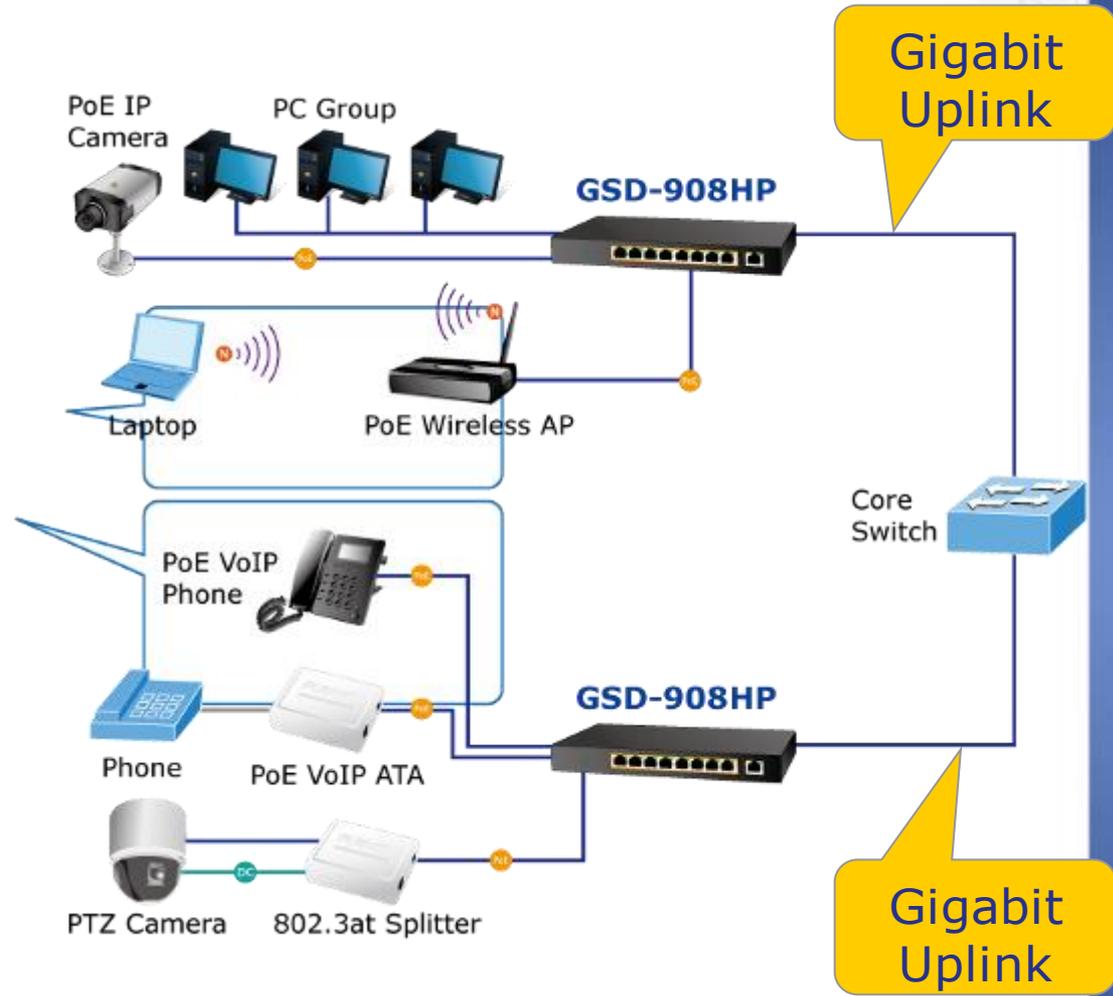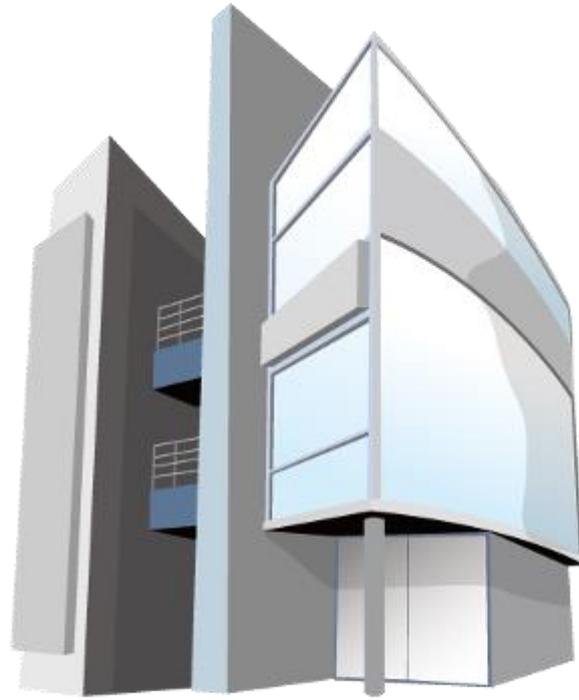Perfect Combination 8-Port PoE Switch + 8-Ch NVR

Applications

8-Port PoE Switch + 8-Channel NVR

Applications

◆ **IP Office Department/Workgroup PoE Switch**

✓ The GSD-908HP PoE Ethernet Switch helps enterprises to create an integrated data, voice, and powered network. The IEEE 802.3af/at compliant **IP phones** can be installed without the need of an additional power cable because the power can be provided via the standard Ethernet cable from the connected GSD-908HP.

✓ The **Wireless AP** group, **PoE IP Phones** and **Analog Telephony Adapter** work perfectly with the GSD-908HP which injects power through the Ethernet cables. With the GSD-908HP, IP Telephony deployment becomes more reliable and cost-effective, and helps enterprises save tremendous cost when upgrading from the traditional telephony system to IP Telephony communications infrastructure.

Applications

Product Comparison

Brand	PLANET	BLACK BOX	ALLIED TELESIS
Model Name	GSD-908HP	LPB1308A	AT-GS900/8POE
Product Outlook			
Level	Layer 2 Unmanaged	Layer 2 Unmanaged	Layer 2 Unmanaged
Ethernet Interface			
10/100/1000Base-T Port	9	8	8
802.3at PoE Injector Ports	8	8	8 (802.3af)
Switch Architecture	Store and Forward	Store and Forward	Store and Forward
MAC Address Table	4K	4K	8K
Switch Fabric	18Gbps	16Gbps	18Gbps
Switch Throughput	13.3Mpps	11.9Mpps	13.3Mpps
Flow Control	IEEE 802.3x pause frame for full-duplex, back pressure for half-duplex	IEEE 802.3x pause frame for full-duplex, back pressure for half-duplex	IEEE 802.3x pause frame for full-duplex, back pressure for half-duplex
Power over Ethernet			
PoE Standard	IEEE 802.3af / 802.3at	IEEE 802.3af / 802.3at	IEEE 802.3af
PoE Power Supply Type	End-Span	–	End-Span
Power Pin Assignment	1/2 (+), 3/6 (-)	–	1/2 (-), 3/6 (+)
Max. Power Output	Per port 51V DC, 600mA. Max. 30 watts	Per Port 48V DC. Max. 30 watts	Per Port 48V DC. Max. 15.4 watts
PoE Power Budget	120 watts	–	65 watts
Max. number of Class 2 PD	8	8	8
Max. number of Class 3 PD	8	8	5
Max. number of Class 4 PD	4	4	–

Product Comparison

Brand	PLANET	BLACK BOX	ALLIED TELESIS
Model Name	GSD-908HP	LPB1308A	AT-GS900/8POE
Product Outlook			
Level	Layer 2 Unmanaged	Layer 2 Unmanaged	Layer 2 Unmanaged
Hardware			
Enclosure	Metal	Metal	Metal
Fan	NA	–	Yes
Power Supply	External Power Supply	Internal Power Supply Unit	Internal Power Supply Unit
Power Requirements	DC 51V, 2.5A max.	100~240V AC, 50 / 60Hz	100~240V AC, 50 / 60Hz
Power Consumption	Max. 120 watts / 409BTU	Max. 250 watts / 853BTU	Max. 90 watts / 307BTU
Dimensions (W × D × H)	103 × 235 × 27 mm	185 × 280 × 45 mm	330 × 220 × 43 mm
Weight	628g	2.3kg	1.9kg
EMI Safety	FCC Class A, CE	FCC Class A	FCC Part 15
Operating Temperature	0~50 degrees C	0~50 degrees C	0~40 degrees C
Standard Compliance	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T IEEE 802.3x Flow Control IEEE 802.3af Power over Ethernet IEEE 802.3at High Power over Ethernet	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T IEEE 802.3x Flow Control IEEE 802.3af Power over Ethernet IEEE 802.3at High Power over Ethernet	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T IEEE 802.3x Flow Control IEEE 802.3af Power over Ethernet
Remark			

Sales Target

◆ **Target Markets**

- ✓ **Home / SOHO End-user**
- ✓ **IP Surveillance Integrator**
- ✓ **Wireless Service Provider**
- ✓ **Shops, Convenience Stores**
- ✓ **SMB IP Communication Office**
- ✓ **Hotel/Internet Cafe**

◆ **Profitable Products**

- ✓ **The following *Desktop-size* 802.3af/at PoE Switches/Injector Hubs are potential to all customers:**
  - • **Fast Ethernet**: FSD-504HP / FSD-804P / FSD-808P / FGSD-910P / FGSD-910HP
  - • **Gigabit Ethernet**: GSD-804P / GSD-808HP / GSD-808HP2
- ✓ **PLANET PoE powered devices (PD)**
  - • PoE IP Surveillance: ICA-HM101, ICA-2500, ICA-HM316, ICA-HM131, ICA-HM835
  - • PoE VoIP Phone / ATA: VIP-360PT, VIP-255PT, VIP-256PT, VIP-560PT, VIP-156PE
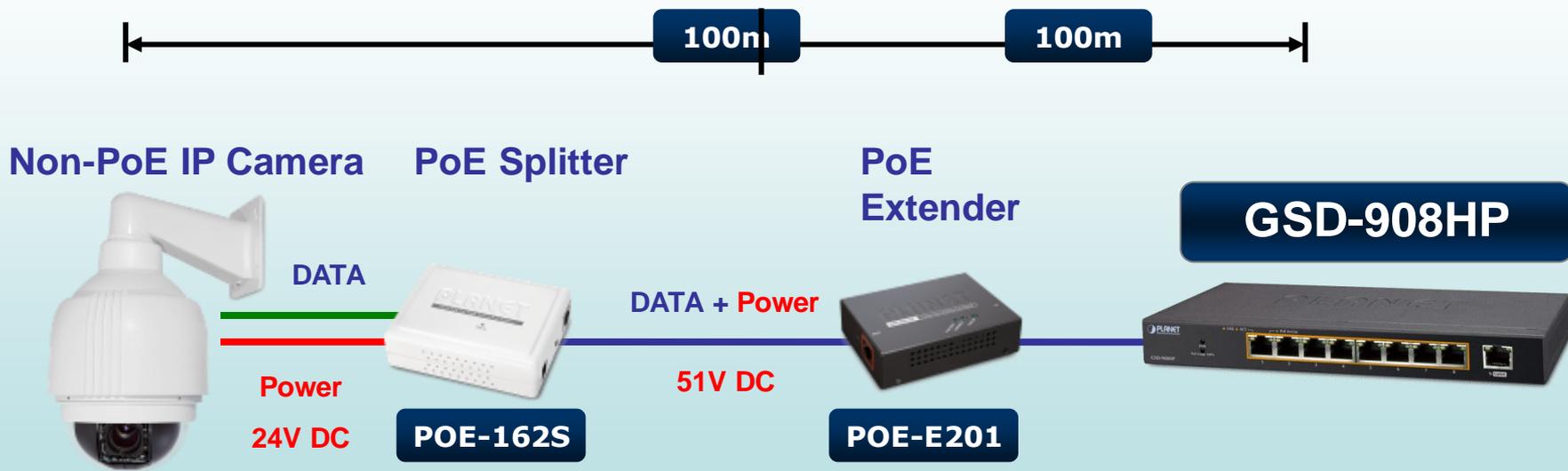 - • PoE Wireless AP : WDAP-C7200AC, WNAP-C3220, IAP-2000PE

Appendix

◆ **Related PoE Products:**

✓ **POE Splitter / Extender**

  ✓ **POE-162S** IEEE 802.3at Power over Ethernet Splitter with **24V / 12V** DC output

  ✓ **POE-E201** IEEE 802.3at Power over Ethernet Extender

100m | **100m**

Non-PoE IP Camera   **PoE Splitter**   **PoE Extender**   **GSD-908HP**

DATA

DATA + Power

Power

51V DC

24V DC

POE-162S   **POE-E201**

The best combination for long-distance power solution

Appendix

◆ **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

Appendix

◆ **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
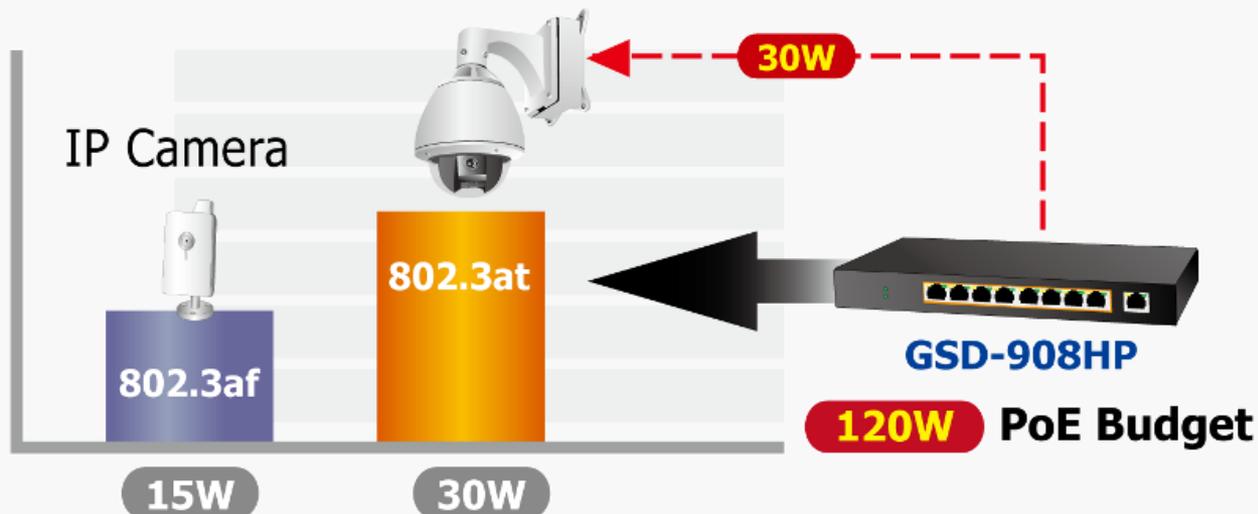- ✓ **WNAP-7350**   5GHz 300Mbps 802.11a/n Wireless Outdoor Access Point

Appendix

◆ **What are the differences between IEEE 802.3af and IEEE 802.3at?**

✓ **IEEE 802.3af offers 15.4 watts (max.).**

✓ **IEEE 802.3at offers up to 30 watts, more power than IEEE 802.3af, and thus it can meet the high power consumption of PoE devices, such as PTZ / Speed Dome camera.**
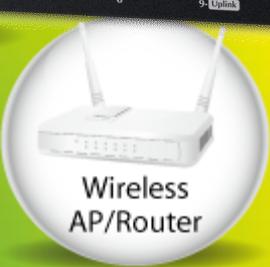

PTZ / Speed Dome Camera

Appendix

802.3at, providing *Double Power* , is better than the conventional 802.3af PoE

802.3at **30.8W**

Power Upgrade

802.3af **15.4W**

Door Phone

Video Phone

PTZ Camera

Thin Client

Wireless AP/Router

WiMAX AP/CPE

Power Requirement

Activating IP Power