

8-Port 10/100/1000Mbps **802.3af**

**GSD-808HP**



# Presentation Outline

- ◆ **Product Overview**
- ◆ **Product Benefits**
- ◆ **Product Features**
- ◆ **Application**
- ◆ **Comparison**
- ◆ **Appendix**

**GSD-808HP**



# Product Overview

2011/  
December

## ◆ The 10/13-inch *Desktop Size PoE Switches*

Gigabit

Fast Ethernet



GSD-606HP / 13"



GSD-804P / 10"



GSD-602P / 13"



WGSD-10020HP / 13"



FSD-808P / 12"



FSD-804P / 10"



Web Smart



FGSD-1022P / 13"

FGSD-1022HP / 13"

Unmanaged

Web Smart

Full Managed

# Product Overview

## ◆ Front Panel - Interface

### ✓ 8-Port 10/100/1000Mbps Ports

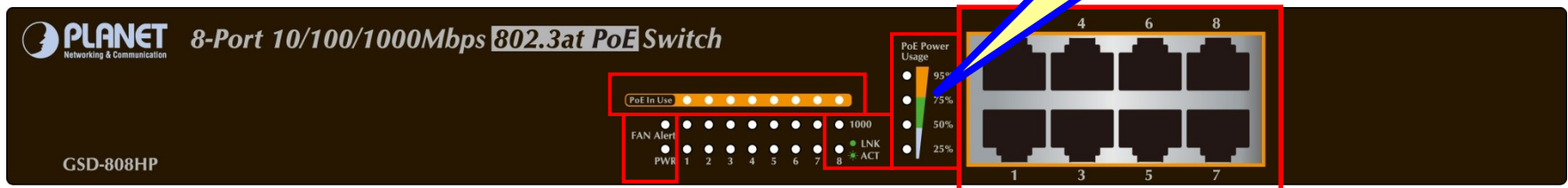
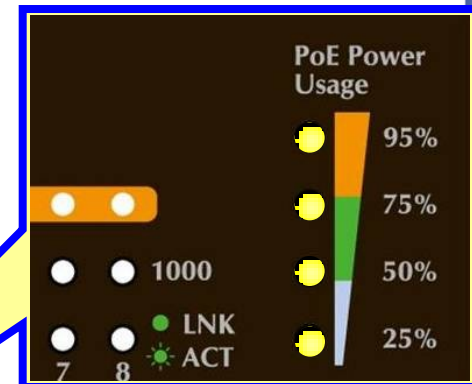
- Auto-MDI/MDI-X, Auto Negotiation
- IEEE 802.3 / 802.3u / 802.3ab

### ✓ 8 IEEE 802.3at PoE Ports

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

### ✓ LEDs

- Power / FAN Alert LEDs
- PoE In-Use LEDs
- 1000 & Link / Activity LEDs
- **PoE Power Usage LEDs**



## Product Overview

### ◆ Rear Panel of GSD-808HP

- ✓ **100~240V AC, 50/60Hz universal power supply & Power ON / OFF switch**
- ✓ **1 silent cooling fan**



## Key Benefits

- ◆ **Cost-effective 8-Port Gigabit with IEEE 802.3at PoE Switch**
  - ✓ IEEE 802.3at PoE offers up to **30 Watts** maximum power for PoE PD
  - ✓ IEEE 802.3af PoE offers up to **15.4 Watts** maximum power for PoE PD
- ◆ **LED Indicate system, per Ethernet / PoE port status / PoE power Usage status**
- ◆ **Provide safe, reliable power solution for SMB**
- ◆ **Provide Over Temperature Protection for system lifetime extension**
- ◆ **Eliminating costs for additional AC wiring and reducing installation time**
- ◆ **Energy Saving technology:**
  - Link down power saving
  - Intelligent scales power based on cable length
- ◆ **13-inch / 1U height. Desktop size, rack mountable with Rack Ear Accessories Kit**
- ◆ **Easy installation in SOHO or SMB IP Office**

## Key Features

**Gigabit  
Ethernet**

**Desktop  
Size**

**8-Port  
802.3at PoE  
(30W)**

**130W  
PoE Budget**

**Energy Saving**

# Product Features

## ◆ Hardware

- **8-Port** 10/100/1000Mbps interfaces with **802.3at PoE** injector function
- 8-Port supports 56V DC power to PoE Powered Device
- Hardware based 10/100/1000Mbps **Auto-Negotiation** and **Auto MDI/MDI-X**
- 9K Jumbo Frame supports at all speed (**10/100/1000Mbps**)
- High performance thermal fan to provide stable and efficient power performance
- **Power / FAN status** LED display at the front panel
- **Per port Ethernet, PoE In-Use / PoE Power Usage Status** LED display at front panel
- Auto detect powered device (PD)
- Remote power feeding up to 100m
- Automatic address learning and address aging

# Product Features

## ◆ Power over Ethernet

- Comply with IEEE **802.3at** Power over Ethernet **End-Span** PSE
- **8** 10/100/1000Mbps copper ports with **PoE** injector built-in
- **56V DC, 30 Watts** PoE power output
- **130 Watts** PoE Power Budget
- **Auto detect** powered device and consumption levels
- Circuit protection to prevent power interference between ports

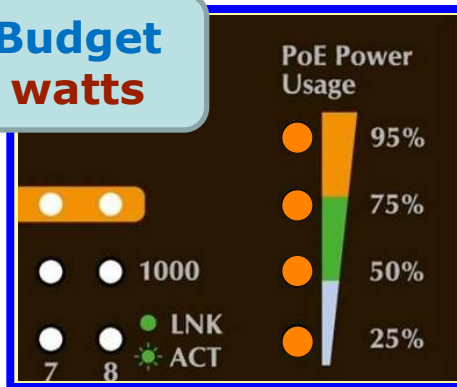
<b>Model</b>		<b>GSD-808HP</b>
<b>PoE Budget</b>		<b>130 Watts</b>
<b>PoE Ability</b>	<b>Number of Class 1 PD, &lt;3.8W</b>	<b>8</b>
	<b>Number of Class 2 PD, &lt;6.5W</b>	<b>8</b>
	<b>Number of Class 3 PD, &lt;12.9W</b>	<b>8</b>
	<b>Number of Class 4 PD, 25W</b>	<b>4</b>
<b>Input Power</b>		<b>100~240V AC / 50-60Hz</b>

# Product Features

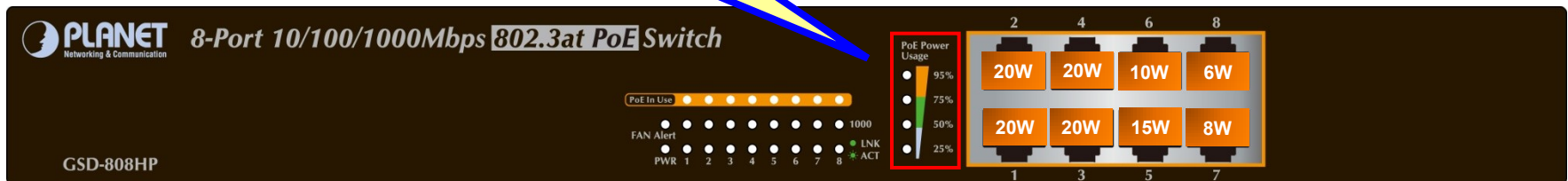
## ◆ PoE Power Usage Display

- ✓ The four orange LEDs on the right hand side of the GSD-808HP front panel indicates “**PoE Power Usage**” by **four level** :
  - **25%, 50%, 75% and 95%** positioned from the bottom to the top
- ✓ With these LED indications, you can monitor the PoE power status of the GSD-808HP easily and efficiently

**PoE Budget**  
**130 watts**



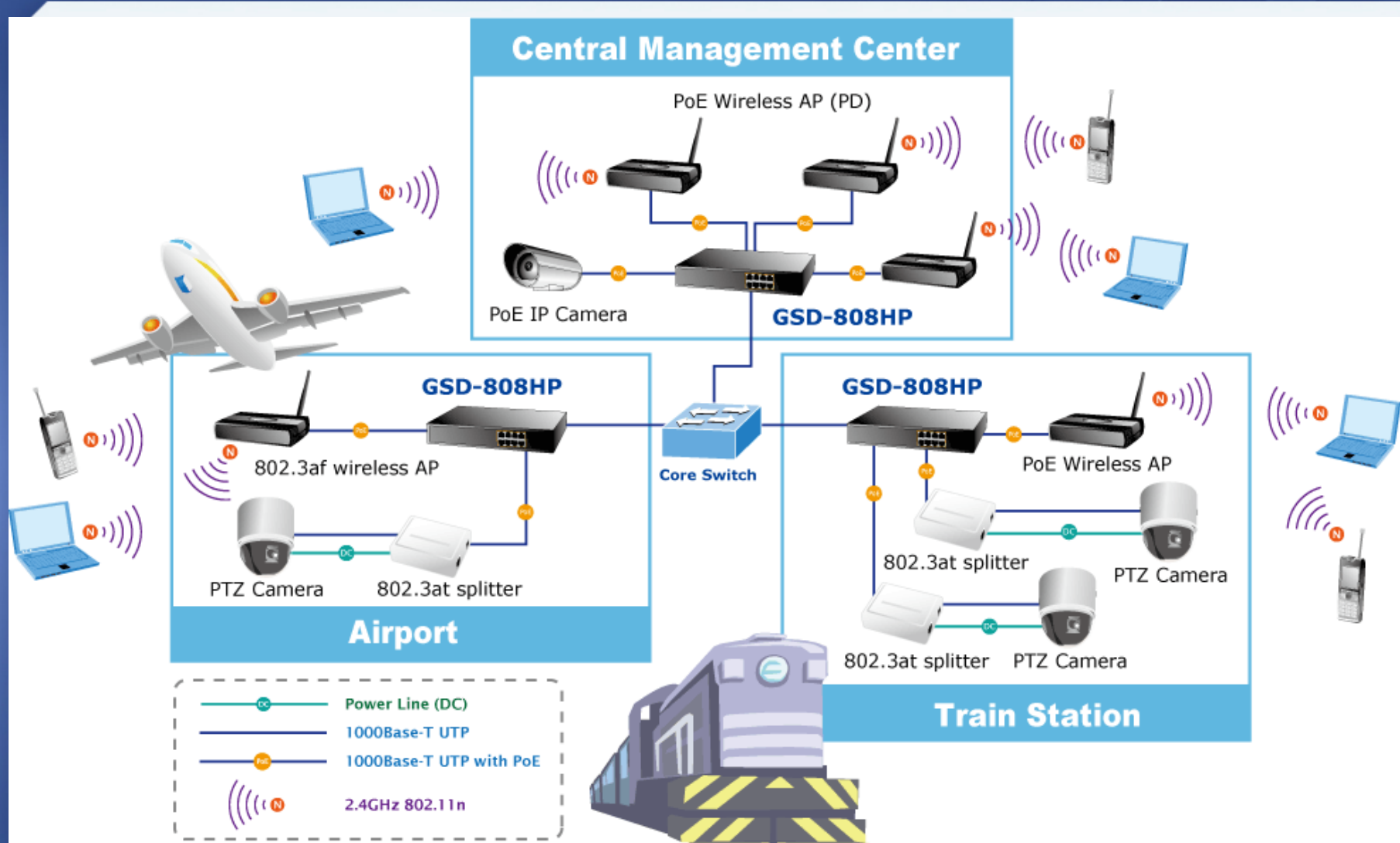
Usage	130 watts
95%	123.5 watts
75%	97.5 watts
50%	65 watts
25%	32.5 watts



## Application

- ◆ **High Power IP Surveillance and Wireless LAN Service in Public Transportation**
  - Having the capability of **IEEE 802.3at Power over Ethernet** standard, the GSD-808HP can directly connect with any IEEE 802.3at end-nodes like:
    - **PTZ (Pan, Tilt & Zoom) network cameras**
    - **PTZ Speed Dome cameras**
    - **Color touch- screen Voice over IP (VoIP) telephones**
    - **Multi- channel wireless LAN access points**
  - Besides the wired Internet network, the wireless LAN would be more efficient for the transportation station to provide high-speed and wide area Internet services for travelers.
  - By adopting PoE Wireless LAN structure, the transportation authority gains benefits from less cost while providing better Internet services in wider areas for the travelers.

# Application Public Transportation

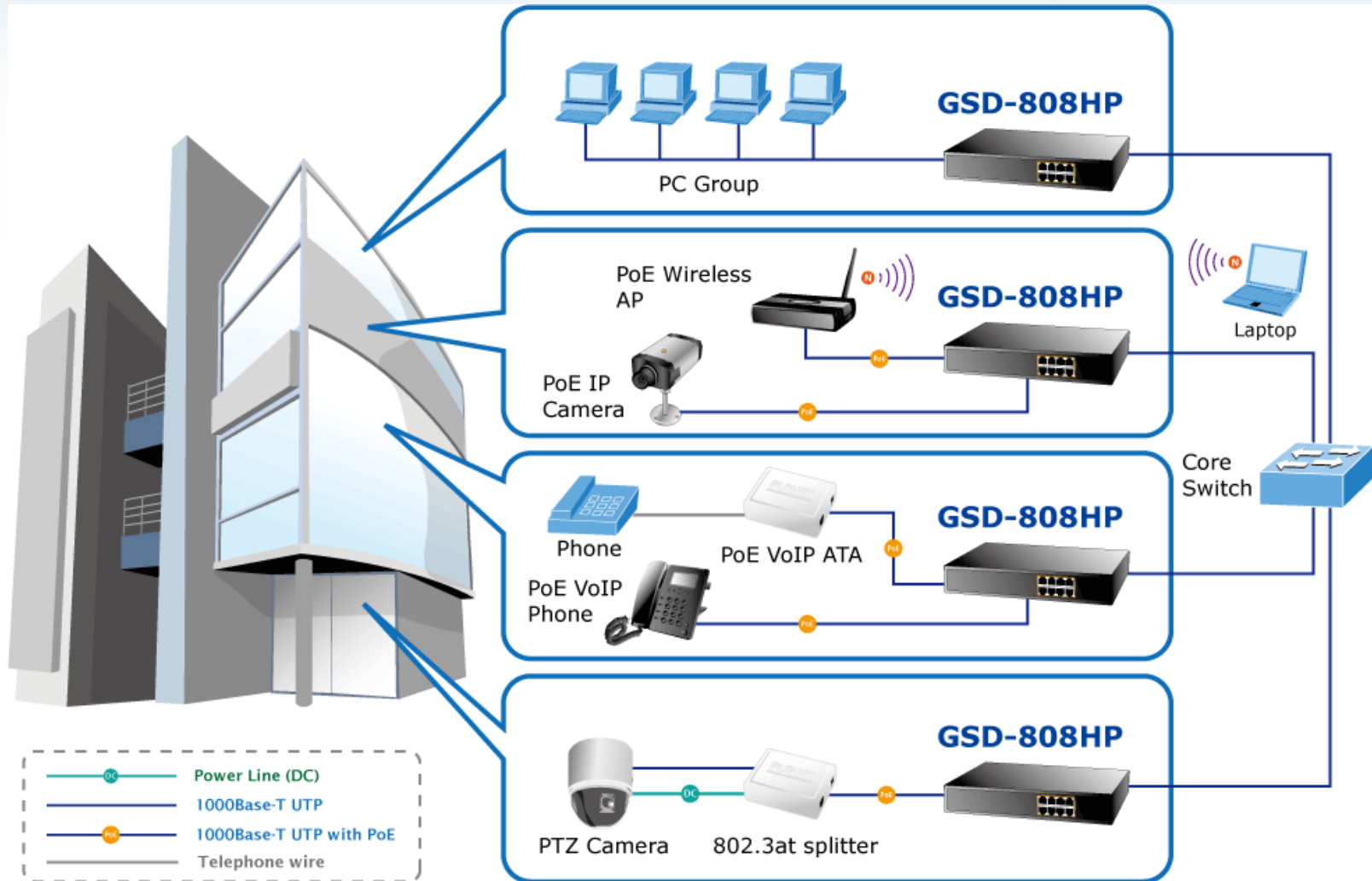


# Application




## ◆ IP Office

- With the business office expansion, the additional telephones required could be installed in less cost via the implementation of **PoE IP Telephony** system than that of the traditional circuit wiring telephony system.
- The GSD-808HP **802.3at Desktop PoE Switch** helps enterprises to create an integrated data, voice, and powered network. PLANET 802.3af compliant IP Phones can be installed without additional power cable because the power can be provided via the standard Ethernet cable from the connected GSD-808HP.
- PoE IP Phones and Analog Telephony Adapter work perfectly with the GSD-808HP which injects power through the Ethernet cables.
- With the GSD-808HP, IP Telephony deployment becomes more reliable and cost effective, which helps enterprises save tremendous cost when upgrading from the traditional telephony system to IP Telephony communications infrastructure.




# Application IP Office



# Product Comparison

Brand	PLANET	NETGEAR	TRENDNET
Model name	GSD-808HP	GS108PE	TPE-S80
Product Outlook			
Level	Layer 2 Unmanaged	Layer 2 Managed	Layer 2 Unmanaged
<b>Ethernet Interface</b>			
10/100/1000Base-T ports	8	8	8 (10/100Mbps only)
802.3at PoE Injector	8	4, 802.3af only	8, 802.3af only
Switch Architecture	Store and Forward	Store and Forward	Store and Forward
MAC Address	8K	4K	1K
Switch Fabric	16Gbps	16Gbps	1.6Gbps
Switch Throughput	11.9Mpps	11.9Mpps	1.19Mpps
Jumbo Packet Size	9K Bytes	-	-
Flow Control	IEEE 802X Pause Frame for full-duplex, back pressure for half-duplex	IEEE 802X Pause Frame for full-duplex, back pressure for half-duplex	IEEE 802X Pause Frame for full-duplex, back pressure for half-duplex
<b>Power over Ethernet</b>			
PoE Standard	802.3af / 802.3at	802.3af	802.3af
PoE Power Supply Type	End-Span	-	End-Span
Power Pin Assianment	1/2 (+), 3/6 (-)	-	1/2 (-), 3/6 (+)
Max. Power Output	Per Port 56V DC, 275mA. Max. 15.4 Watts (802.3af) Per Port 56V DC, 535mA. Max. 30 Watts (802.3at)	Per Port 802.3af: 15.4 Watts	Per Port 802.3af: 15.4 Watts
PoE power budget	130 Watts	45 Watts	123 Watts

# Product Comparison

Brand	PLANET	NETGEAR	TRENDNET
Model name	GSD-808HP	GS108PE	TPE-S80
Product Outlook			
Level	Layer 2 Unmanaged	Layer 2 Managed	Layer 2 Unmanaged
<b>Hardware</b>			
Power Supply	Internal Power Supply Unit	External Power Adapter	Internal Power Supply Unit
Power Requirement	100~240V AC, 50 / 60Hz, 1.5A	DC 12V @ 1.0A DC input	100~240V AC / 50~60Hz
Power Consumption	Max. 150 Watts / 551BTU	Max. 51.1 Watts / 174BTU	—
Dimension (W x D x H)	330 x 155 x 43.5 mm	235 x 103 x 27 mm.	266 x 160 x 44 mm
Weight	1.56kg	0.522kg	1.4kg
EMI Safety	FCC Class A, CE	FCC Part 15 Class A	FCC, CE
Operating Temperature	0~50 Degree C	0~50 Degree C	0~45 Degree C
Remark	PoE Power Usage LED Indication		

## Appendix - Sales Target

### ◆ Target Markets

- **IP Surveillance Integrator**
- Wireless Service Provider
- SMB IP Communication Office
- System Integrator
- Hotel / Internet cafe

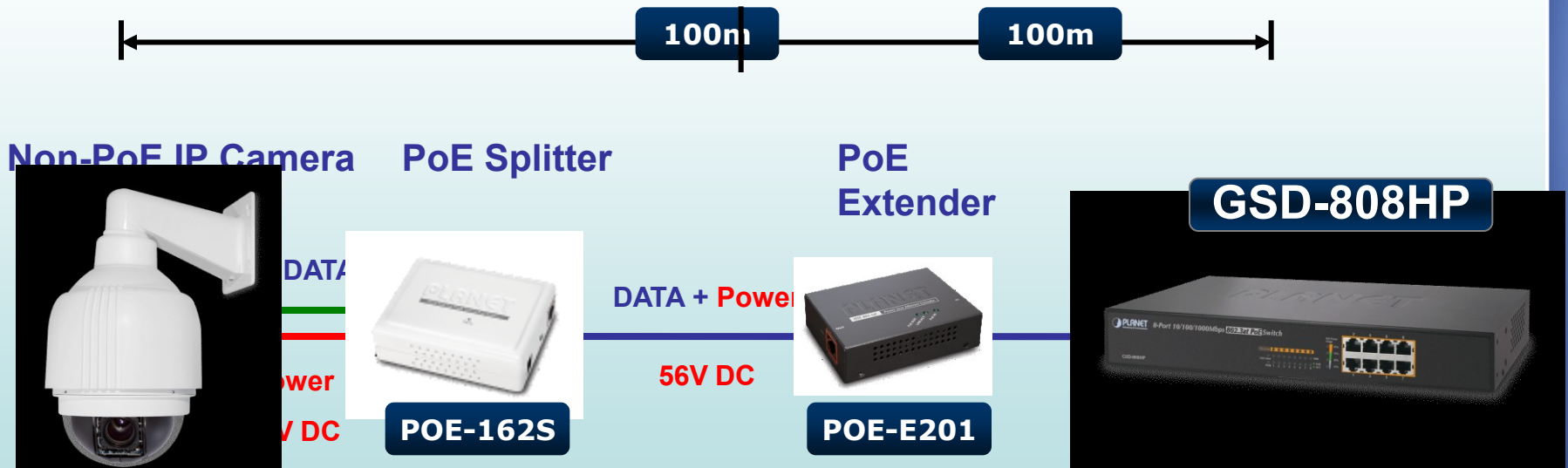
### ◆ Target Customers

- Who buys 802.3at high power PoE Switch / injector Hub  
FGSD-1022HP, WGSW-2620HP  
SGSW-24040HP  
HPOE-1200G, HPOE-2400G  
HPOE-460  
POE-161, GTP-80xT
- Who buys PLANET PoE powered devices (PD)  
PoE IP surveillance: ICA-H610, ICA-HM240, ICA-HM230, ICA-HM350  
PoE VoIP Phone / ATA: VIP-560PT, VIP-360PT, VIP-255PT  
PoE Wireless AP : WNAP-1120PE, WNAP-C3220, WNAP-3000PE  
PoE Splitter: POE-152S, POE-161S, POE-162S

# Appendix

## ◆ Relative 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



A best combination for long distance power solution

## Appendix

### ◆ Relative PoE Products:

#### – IP Surveillance

- ✓ **ICA-H312** H.264 25-meter IR Internet Camera
- ✓ **ICA-HM316** 2Mega-Pixel Outdoor IR PoE IP Camera
- ✓ **ICA-HM126R** H.264 Full HD Box IP Camera
- ✓ **ICA-HM132** 2 Mega-Pixel 20 IR Vari-Focal Dome
- ✓ **ICA-HM136** 2 Mega-Pixel 20 IR Vandal Proof Dome IP Camera



## Appendix

### ◆ Relative PoE Products:

- ✓ **WNAP-3000PE** 802.11n 300Mbps Enterprise PoE Access Point
- ✓ **WNAP-C3220** 802.11n 300Mbps Wireless Ceiling Mount Access Point
- ✓ **WSG-500** 802.11n 300Mbps Hotspot Wireless Subscriber Gateway
- ✓ **IAP-2000PE** 802.11n 300Mbps Industrial Wireless Access Point
- ✓ **WAP-7500** 802.11a 5G Outdoor Wireless Access Point / Extender





# ACTIVATING IP POWER