PLANET
Networking & Communication

Pioneer of IP Innovation

12-/24-Port Gigabit IEEE 802.3at High Power Injector Hub

HPOE-1200G

HPOE-2400G

PoE Schedule | 802.3af Mid-span | 802.3at Mid-span | 10M/100M 1000M | Plug & Play | Metal Shape

Presentation Outlines

- ◆ **Product Overview**

- ◆ **Product Benefits**

- ◆ **Product Features**

- ◆ **Applications**

- ◆ **Comparison**
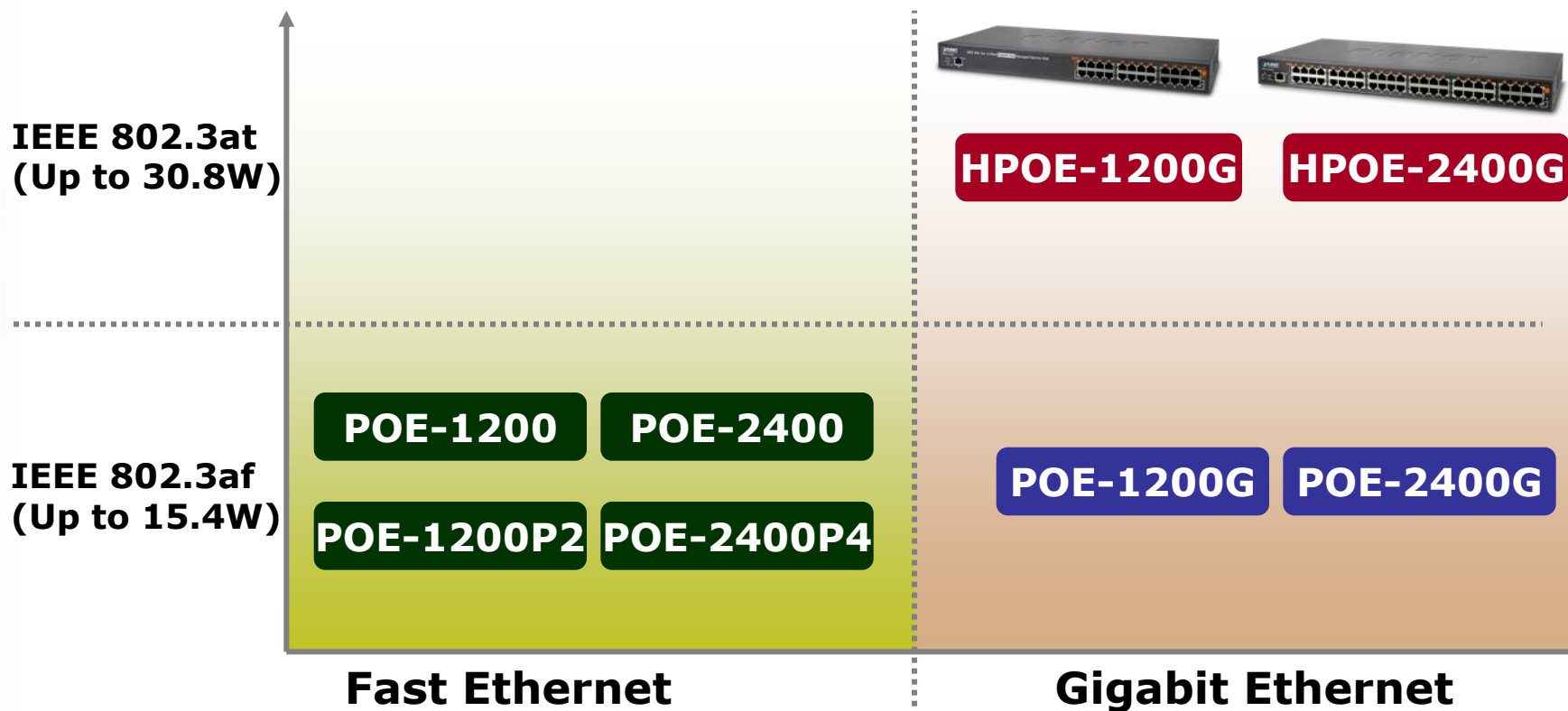
- ◆ **Appendix**

HPOE-1200G

HPOE-2400G

Product Overview

◆ **The 12-/24-port POE Injector Hub Family**

IEEE 802.3at (Up to 30.8W)	**HPOE-1200G** **HPOE-2400G**
IEEE 802.3af (Up to 15.4W)	**POE-1200** **POE-2400** **POE-1200P2** **POE-2400P4** **POE-1200G** **POE-2400G**

Fast Ethernet   **Gigabit Ethernet**

Product Overview

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

✓ **IEEE 802.3af offers a maximum of15 watts.**

✓ **IEEE 802.3at offers up to 30 watts, more power than IEEE 802.3af, and can drive high power consumption PoE device, such as PTZ / speed dome camera.**
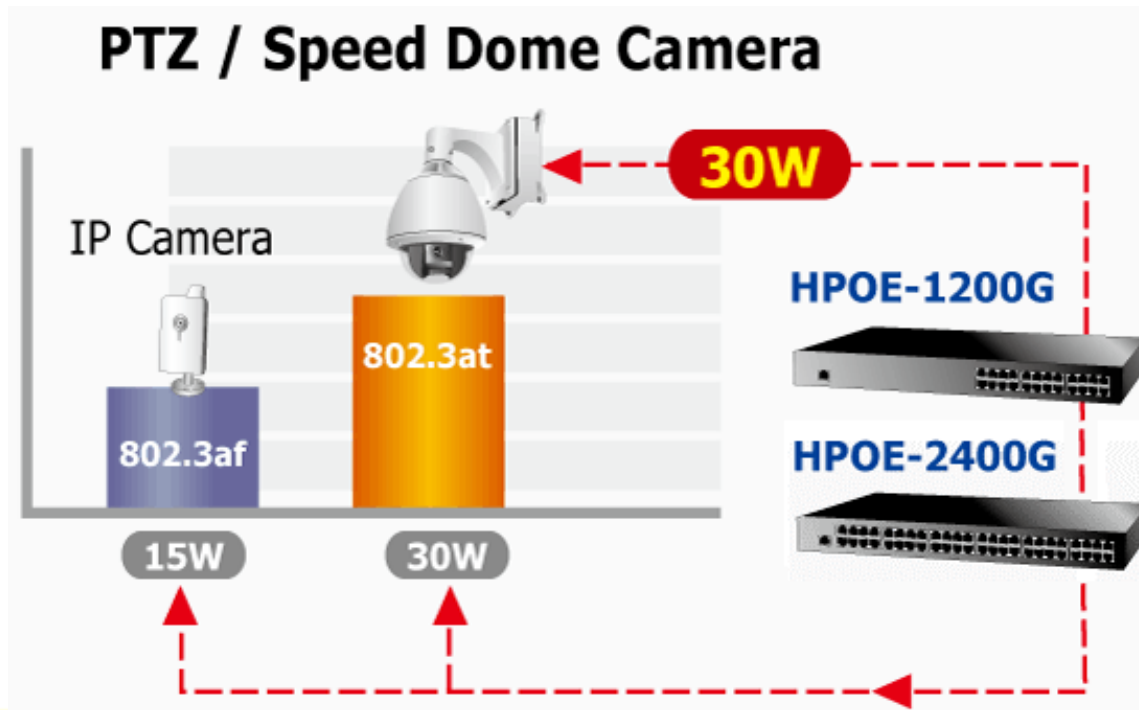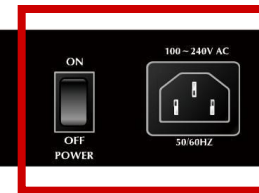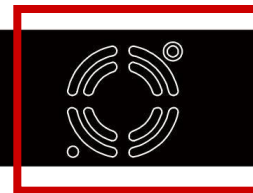
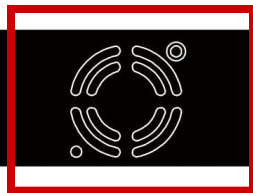# Product Overview

◆ **HPOE-1200G Front Panel - Interface**

   ✓ 24-Port 10/100/1000Mbps with POE Ports

- 12 ports on the upper stack are data and power ports.

- 12 ports on the lower stack are data ports.

   ✓ 1-Port 10/100Mbps management port.

   ✓ **LEDs**

- Power LED

- Power Failure LED

- Fan Failure LED

- Link / Activity LED

- PoE-in Use LED

   ✓ Reset Button

Product Overview

◆ **Rear Panel of HPOE-1200G**

✓ 100~240V AC, universal power supply

✓ 1 power switch

✓ 2 cooling fans

Product Overview

◆ **HPOE-2400G Front Panel - Interface**

✓ 48-Port 10/100/1000Mbps with POE Ports

- 24 ports on the upper stack are data and power ports.

- 24 ports on the lower stack are data ports.
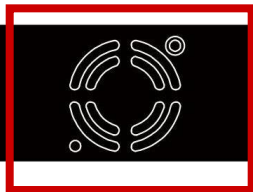
✓ 1-Port 10/100Mbps management port.

LEDs

- Power LED

- Power Failure LED

- Fan Failure LED

- Link / Activity LED

- PoE-in Use LED

✓ Reset Button

Product Overview

◆ **Rear Panel of HPOE-2400G**

- ✓ 100~240V AC, universal power supply

- ✓ 1 power switch

- ✓ 4 cooling fans (3 on rear panel and 1 on inner case)
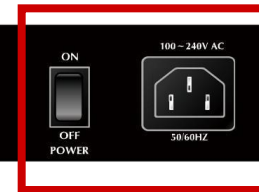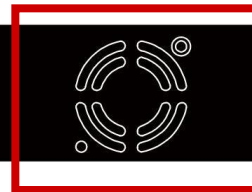
Key Benefits

- **Cost-effective 12-/24-Port Gigabit Mid-Span Power over Ethernet Injector Hub**

- **Complies with IEEE 802.3af / IEEE 802.3at 52V DC per port maximum 15.4 / 30.8 watts**

- **Provides PoE Power Schedule feature to save power**

- **Automatically detects powered device and consumption level**

- **Remote PoE Power management by WEB**

- **Provides PoE per port power feeding limit and priority**

- **Provides temperature over protection to prevent device damage**

- **Provides SNMP and SNMP trap**

- **Provides local system log and remote system log for management**

- **19-inch rack mountable; 1U height**

Product Feature

◆ **Hardware of HPOE-1200G**

- ✓ **24-Port** 10/100/1000Mbps **RJ-45 interface**

  - • **12 ports** on the upper stack are **Data and Power** ports

  - • **12 ports** on the lower stack are **Data** ports

- ✓ **1 x 10/100Mbps RJ-45 Management port**

- ✓ **Fan failure LED on the front panel for alert**

- ✓ **PoE power failure LED on the front panel for alert**

- ✓ **Reset button on the front panel**

Product Feature

◆ Hardware of HPOE-2400G

- ✓ **48-Port** 10/100/1000Mbps **RJ-45 interface**

  - • **24 ports** on the upper stack are **Data and Power** ports

  - • **24 ports** on the lower stack are **Data** ports

- ✓ **1 x 10/100Mbps RJ-45 Management port**

- ✓ **Fan failure LED on the front panel for alert**

- ✓ **PoE power failure LED on the front panel for alert**

- ✓ **Reset button on the front panel**

Product Features

◆ Power over Ethernet

- ✓ **Complies with** IEEE 802.3af / IEEE 802.3at Power over Ethernet Mid-Span **PSE**

- ✓ **PoE Pin Assignment 4/5(-), 7/8(+)**

- ✓ **12** Gigabit **copper ports with PoE injector (HPOE-1200G)**

- ✓ **24** Gigabit **copper ports with PoE injector (HPOE-2400G)**

- ✓ **52VDC,** 15.4 / 30.8 watts **per port PoE power output**

- ✓ 360-watt **PoE power budget for** HPOE-1200G

- ✓ 720-watt **PoE power budget for** HPOE-2400G

- ✓ Automatically detects **powered device and consumption levels**

- ✓ **Circuit protection to prevent power interference between ports**

Model			HPOE-1200G	HPOE-2400G
PoE Budget			360 watts	720 watts
PoE Ability	Number of Class 2 PD @ 7.3 watts		12	24
	Number of class 3 PD @ 15.4 watts		12	24
	Number of class 0, 4 PD @ 30.8 watts		12	24
Input Power			100~240V AC	100~240V AC

Product Feature

◆ PoE Management

- ✓ **PoE Admin function enable / disable**
- ✓ **Total PoE power budget control**
- ✓ **Per port PoE power schedule**
- ✓ **Per port PoE function enable / disable**
- ✓ **Per port IEEE 802.3at / 802.3af mode switch**
- ✓ **PoE port power feeding with priority**
- ✓ **Per PoE port power limit**
- ✓ **PD classification detection automatically**
- ✓ **PD alive check function**
- ✓ **PoE Per port usage status**
- ✓ **Over temperature protection**
- ✓ **PoE temperature threshold**
- ✓ **PoE power usage threshold**

Product Feature - UI

Product Features – PD Alive Check

◆ **Intelligent Powered Device Alive-Check**

    ✓ The HPOE-1200G/HPOE-2400G can be configured to **monitor connected PD (Powered Device) status in real-time** via ping action.

    ✓ Once the PD stops working and responding, the HPOE-1200G/HPOE-2400G will resume the PoE port power and bring the PD back to work.
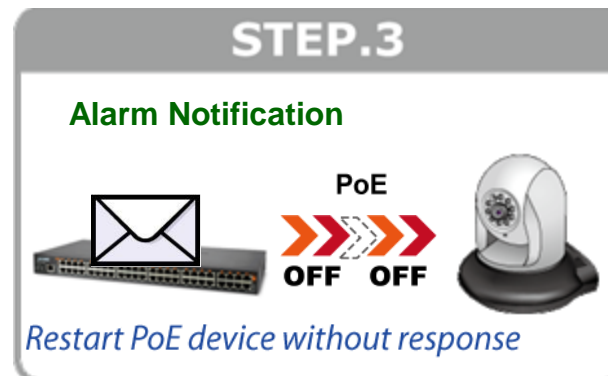
Product Features - Over Temperature Protection

◆ **Over Temperature Protection Enabled**

Environment Temperature

Auto adjust PoE budget

HPOE-1200G
HPOE-2400G
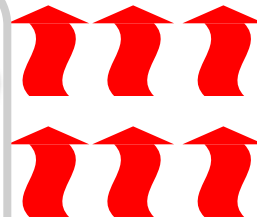
STAGE-2

STAGE-1

Data + Power

Stop injecting power to low priority port

PD: PoE IP Cam

-----High Priority----

-----Low Priority----
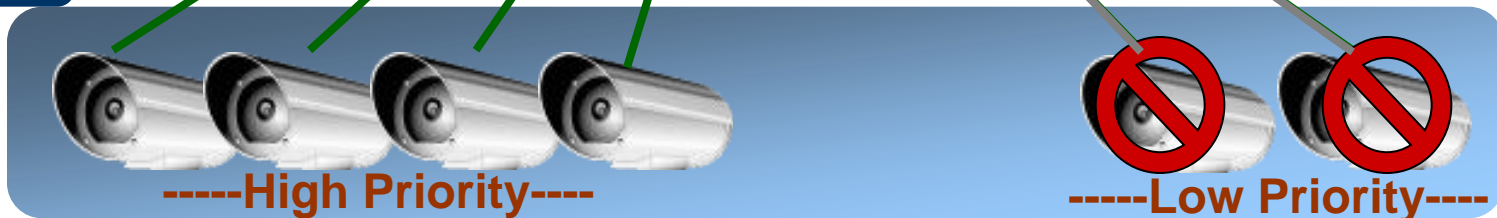
Avoid overheating PoE Hub owing to high temp.

◆ **PoE Power Schedule**
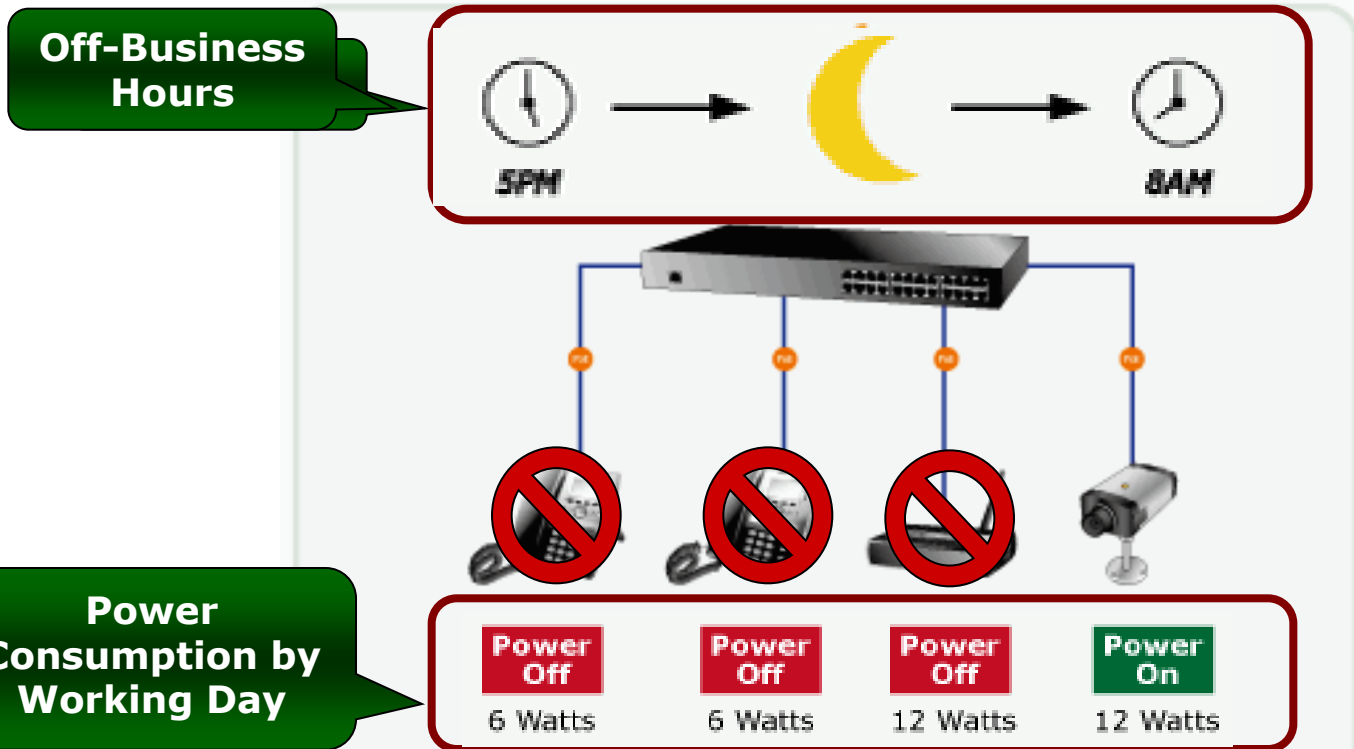
Product Features – PoE Power Schedule

♦ **3 steps for configuring PoE schedule**

① Choose the port you want to include in the profile.

② Decide what time to power the PoE device by the Hub.

③ Enable the profile.

Up to 24 profiles for you apply to different PoE schedule requirements.

Product Features – PoE Power Schedule

Product Features – PoE Power Status
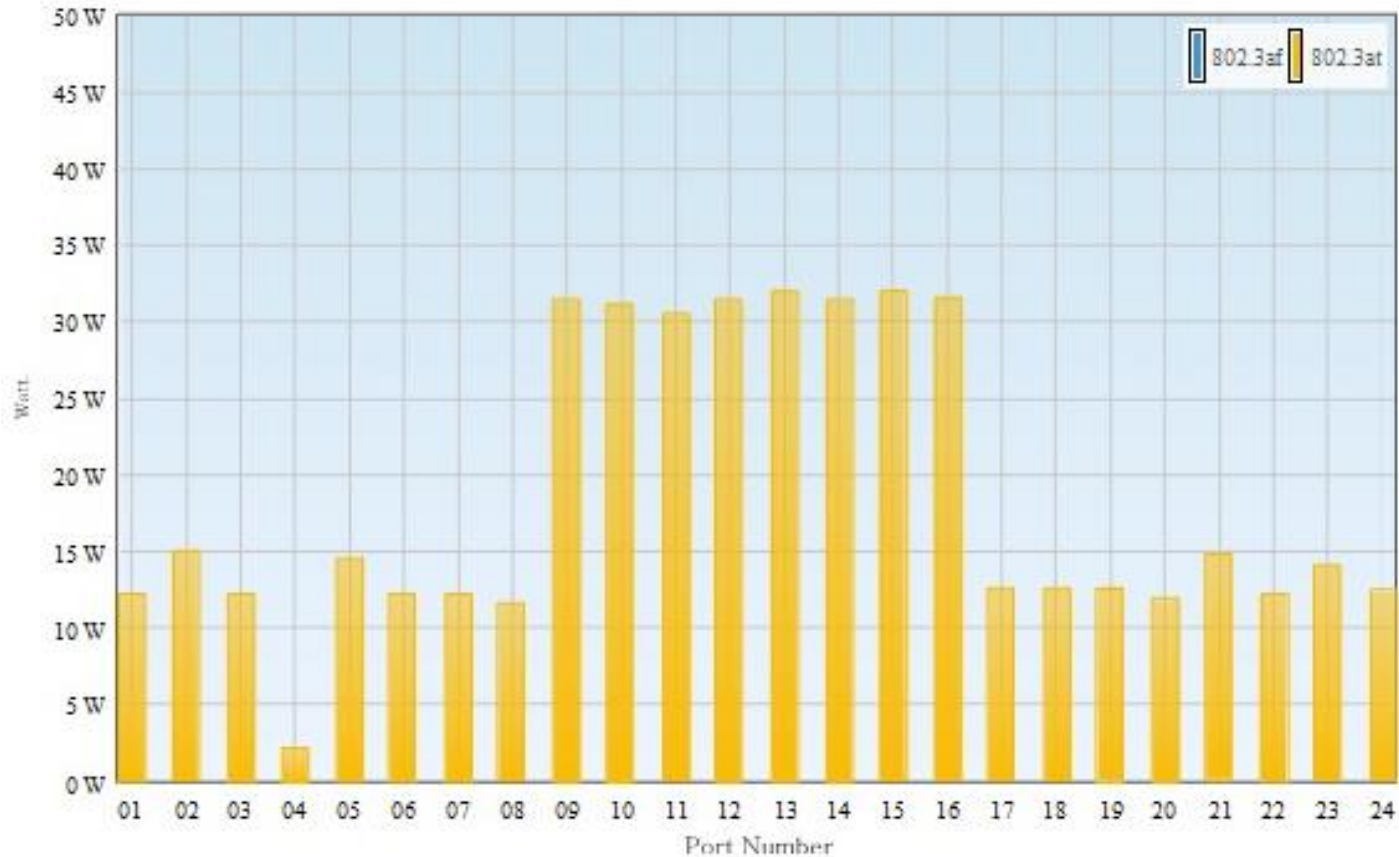
Per Port PoE Usage Chart

Product Features

◆ System Management

- ✓ HTTP remote Web management

- ✓ **Network Time Protocol (NTP)**
    - System time synchronization

- ✓ SNMP management and SNMP Trap
    - SNMP trap for interface Link Up ,Link Down, PoE power on, PoE power off notification

- ✓ **DHCP Client**

- ✓ **Firmware upgrade and** Configuration backup / restore **by HTTP**

- ✓ **System Log and Syslog**
    - System log could be logged to the Hub and remote server

Product Features

◆ PoE IP Telephony Office

✓ **The** Gigabit **High Power PoE Injector Hub** provides the easiest way to power your Ethernet devices such as IP Camera on the ceiling and the Wireless Access Point installed on the top of the building.

✓ To control the power system of your networking devices, HPOE-1200G / HPOE-2400G can directly co-work with PoE IP phone to build VoIP telephony network in the office.

Applications

IEEE 802.3at
30 watts

IEEE 802.3af
15.4 watts

Product Comparison – HPOE-1200G

Vendor	PLANET	PLANET
Model Name	**HPOE-1200G(V2)**	**HPOE-1200G(V1)**
Product Outlook		
Hardware		
Dimensions (W x D x H)	400 x 300 x 44.5mm	400 x 300 x 44.5mm
Power Input	100~240V AC	100~240V AC
Operating Temperature	0~50℃	0~50℃
Interface		
"Data" Input Port	12	12
"Data + Power" Output Port	12	12
No. of 802.3at / 802.3af Port	12 / Backward Compatible	12 / Backward Compatible
Data Rate	10/100/1000Mbps	10/100/1000Mbps
Management Port	10/100Base-TX	10/100Base-TX

Product Comparison – HPOE-1200G

Vendor	PLANET	PLANET
Model Name	**HPOE-1200G(V2)**	**HPOE-1200G(V1)**
Product Outlook		
Power over Ethernet		
PoE Standard	802.3at / 802.3af	802.3at / 802.3af
Power Pin Assignment	4/5(-), 7/8(+)	4/5(-), 7/8(+)
Maximum Port Power	30W	30W
Output Power Voltage	52V DC	52V DC
PoE Power Budget@52V	360 watts	340 watts
Number of PoE Ports	12	12
Number of PD @ Class 2	12	12
Number of PD @ Class 3	12	12
Number of PD @ Class 4(30W)	12	11
Power Limit Protection	■	■
Over Temperature Protection	■	■
PoE Schedule	■	■
PD Alive Check	■	
PoE Status	■	
Management		
Management & Configuration	Web	Web
SNMP V1, V2c	■	■
SNMP Trap	■	■
Log	Syslog, System log	Syslog, System log
Time Setting	SNTP	SNTP
Configuration Back up / Restore	■	■

Product Comparison – HPOE-2400G

Vendor	PLANET	PLANET
Model Name	**HPOE-2400G(V2)**	**HPOE-2400G(V2)**
Product Outlook		
Hardware		
Dimensions (W x D x H)	400 x 300 x 44.5mm	400 x 300 x 44.5mm
Power Input	100~240V AC	100~240V AC
Operating Temperature	0~50℃	0~50℃
Interface		
"Data" Input Port	24	24
"Data + Power" Output Port	24	24
No. of 802.3at / 802.3af Port	24 / Backward Compatible	24 / Backward Compatible
Data Rate	10/100/1000Mbps	10/100/1000Mbps
Management Port	10/100Base-TX	10/100Base-TX

Product Comparison – HPOE-2400G

Vendor	PLANET	PLANET
Model Name	**HPOE-2400G(V2)**	**HPOE-2400G(V1)**
Product Outlook		
Power over Ethernet		
PoE Standard	802.3af / 802.3at	802.3af / 802.3at
Power Pin Assignment	4/5(-), 7/8(+)	4/5(-), 7/8(+)
Maximum Port Power	30W	30W
Output Power Voltage	52V DC	52V DC
PoE Power Budget@52V	720 watts	460 watts
Number of PoE Ports	24	24
Number of PD @ Class 2	24	24
Number of PD @ Class 3	24	24
Number of PD @ Class 4(30W)	24	14
Power Limit Protection	■	■
Over Temperature Protection	■	■
PoE Schedule	■	■
PD Alive Check	■	
PoE Status	■	
Management		
Management & Configuration	Web	Web
SNMP V1, V2c	■	■
SNMP Trap	■	■
Log	Syslog, System log	Syslog, System log
Time Setting	SNTP	SNTP
Configuration Back up / Restore	■	■

Appendix Sales Target

◆ **Target Markets**

- ✓ **SMB IP Communication Office**
- ✓ **System Integrator**
- ✓ **IP Surveillance integrator**
- ✓ **Hotel / Internet cafe**

◆ **Profitable Products**

- ✓ The following PoE devices are potential to all customers:
  - PoE Switches: FGSD-1022HP, GSD-808HP, WGSW-2620HP, WGSD-10020HP
  - PoE Splitters/Injectors/Converters: POE-162, POE-162S, GTP-80x Series, HPOE-460

- ✓ The following Outdoor Standard PoE IP Cameras/Wireless Devices are potential to all customers:
  - PoE IP Cameras: ICA-3250V/3350V/HM312/HM316/HM351/HM620
  - Standard PoE Wireless Devices: WNAP-6350/7350

Activating IP Power