24-Port 10/100/1000T 802.3at PoE + 2-Port Gigabit SFP Ethernet Switch

Physical Port

- **24-port 10/100/1000BASE-T** Gigabit RJ45 copper
- **2 1000BASE-X mini-GBIC SFP** interfaces

Power over Ethernet

- Complies with IEEE 802.3af/at Power over Ethernet end-span PSE
- Up to 24 ports of IEEE 802.3af/802.3at devices powered
- Supports PoE Power up to 32 watts for each PoE port
- Each port supports 54V DC power to PoE Powered Device
- 300-watt PoE budget
- Auto detects powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100m in standard mode and 250m in extend mode

Smart LCD

- LCD switch mode for "Standard", "VLAN" and "Extend" mode selection; the "Extend" mode features 30-watt PoE transmit distance of 250m at speed of 10Mbps and VLAN isolation
- Solid LCD switch mode to isolate ports to prevent broadcast storm and defend DHCP spoofing
- Power low-voltage, power over-voltage and PSE over-temperature protection
- Screen saver, fan control, factory default and save configuration
- PoE management
  - Total PoE power budget control
  - Per port PoE function enable/disable
  - PoE port power feeding priority
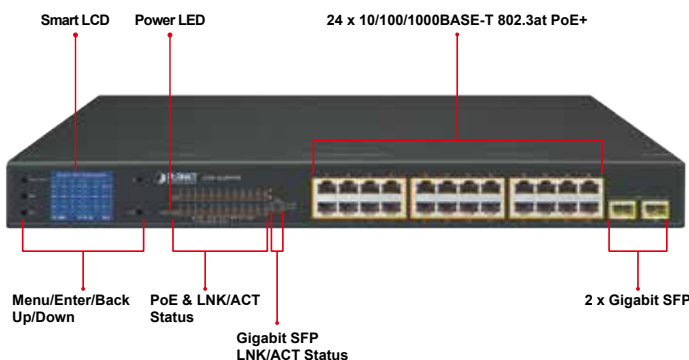 - Per PoE port power limitation
  - PD alive check

Just "Plug and Watch" for a Quick Solution

PLANET GSW-2620VHP is an ideal **Plug and Watch Power over Ethernet** solution which provides quick installation, real-time PoE work status monitoring and immediate troubleshooting through its unique LCD display to improve work efficiency and quality without any PC or software required.

The GSW-2620VHP is equipped with **24 10/100/1000BASE-T** ports featuring 30-watt 802.3at Power over Ethernet Plus (PoE+) copper interfaces and **2 extra 1000BASE-X SFP** slots with inner power system. With a total PoE power budget of up to **300 watts** and non-blocking data switching performance, the GSW-2620VHP fulfills the demand of sufficient PoE power for HD IP surveillance. It offers a desktop-sized, reliable and visible power solution for small businesses and system integrators deploying Power over Ethernet networks.

Switching

- Hardware-based 10/100/1000Mbps auto-negotiation and auto MDI/MDI-X
- Flow control for full duplex operation and back pressure for half duplex operation
- 9216bytes packet size
- Integrates address look-up engine, supporting 8K absolute MAC addresses
- IEEE 802.1Q VLAN transparency
- Automatic address learning and address aging

Smart and Intuitive LCD Control

The GSW-2620VHP provides an intuitive color panel on its front panel that facilitates the Ethernet management and PoE PD management. They greatly promote management efficiency in large-scale network, such as enterprises, hotels, shopping malls, government buildings, and other public areas, and feature the following special management and status functions:

- PoE management and status
- Port management and status
- Switch mode: Standard, VLAN, Extend
- Budget and bandwidth control
- PD alive check
- Maintenance: Screen saver, fan control, factory default and save configuration

Hardware

- 19-inch desktop size, 1U height, rack mountable
- 2-inch color LCD with smart management functions
- LED indicators for system power, per port PoE ready and PoE activity, speed, Link/Act
- 3 silent fans to provide stable and efficient power performance
- Supports Energy-Efficient Ethernet (EEE) function (IEEE 802.3az)
- Supports contact discharge of ±6KV DC and air discharge of ±8KV DC for Ethernet ESD protection
- Supports ±6KV surge immunity

```
         Switch Port Information
01 30.3W ---M 867M   08 ----W ---M ---M
02 ----W ---M ---M   09 -8.3W ---M -<1M
03 ----W ---M ---M   10 ----W ---M ---M
04 15.4W -10M ---M   11 -OFF- ---M ---M
05 ----W ---M ---M   12 ----W ---M ---M
06 ----W ---M ---M   13 17.6W 223M 246M
07 ----W ---M ---M   14 ----W ---M ---M
PB:300W        TP:72W        PD:4
```

```
              Main Menu
01 —  Switch Mode                    ≡
02 —  Budget Control
03 —  PSE Port Priority
04 —  PSE Port Enable
05 —  PD Type
06 —  Alive Check
07 —  Bandwidth
08 —  Fan Control
```

```
            Switch Mode
 Options:
            Standard <
            VLAN
            Extend
```
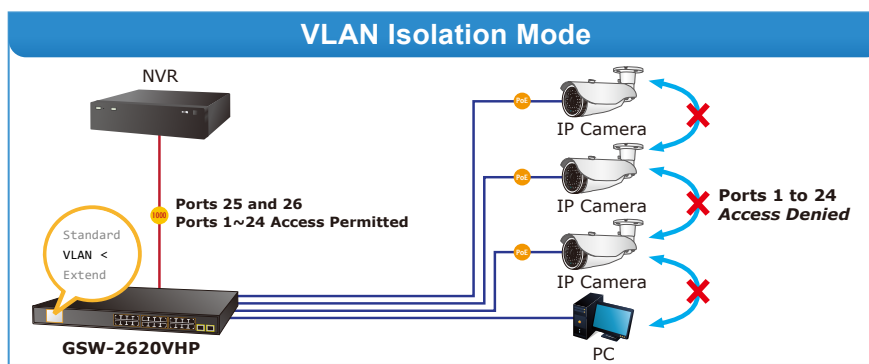
```
           PSE Port Enable

     Port      Status

     01        Enable<
               Disable

 Current Setting: Enable
 <UP>/<Down>:Select
 <Enter>:Confirm <Back>:Return
```
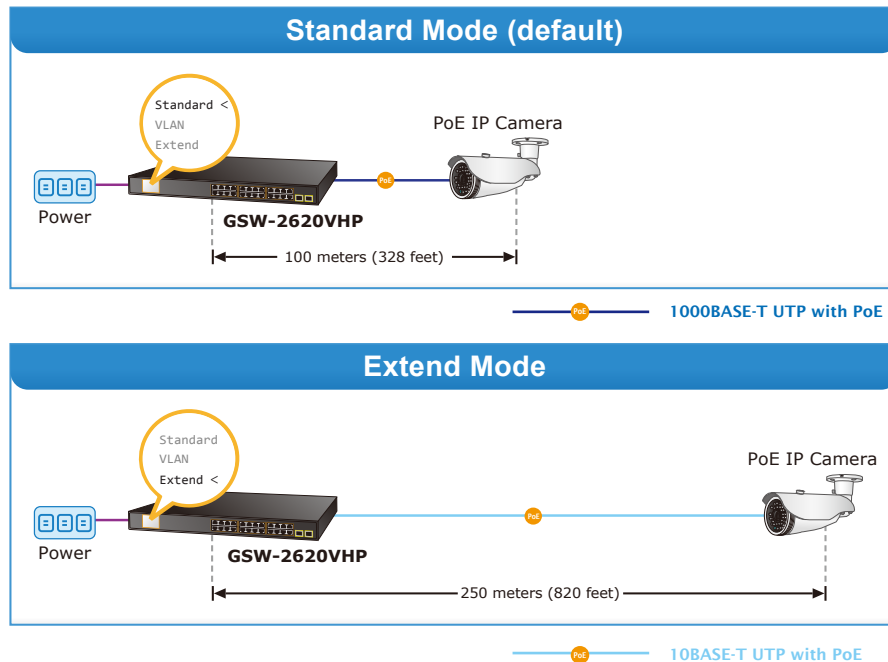

Standard, VLAN and Extend Operation Modes Offered

The GSW-2620VHP provides Standard, VLAN and Extend operation modes. The GSW-2620VHP operates as a normal IEEE 802.3af/at PoE Switch in the Standard operation mode. The VLAN operation mode features the port-based VLAN function that can help to prevent the IP camera's multicast or broadcast storm from influencing each other.

VLAN Isolation Mode

NVR

Ports 25 and 26
Ports 1~24 Access Permitted

Standard
VLAN <
Extend

GSW-2620VHP

IP Camera

IP Camera

Ports 1 to 24
Access Denied

IP Camera

PC

1000BASE-SX/LX Fiber-optic
1000BASE-T UTP
1000BASE-T UTP with PoE

In the Extend operation mode, the GSW-2620VHP operates on a per-port basis at 10Mbps duplex operation but can support 30-watt PoE power output over a distance of up to 250 meters overcoming the 100m limit on Ethernet UTP cable. With this brand-new feature, the GSW-2620VHP provides an additional solution for 802.3af/at PoE distance extension, thus saving the cost of Ethernet cable installation. Its VLAN isolation function isolates ports so as to prevent broadcast storm and defend DHCP spoofing in the Extend operation mode.

Standard Mode (default)

Standard <
VLAN
Extend

PoE IP Camera

Power

GSW-2620VHP

100 meters (328 feet)

1000BASE-T UTP with PoE

Extend Mode

Standard
VLAN
Extend <

PoE IP Camera

Power

GSW-2620VHP

250 meters (820 feet)

10BASE-T UTP with PoE

Flexible Extension Solution

The two mini-GBIC slots built in the GSW-2620VHP are compatible with the 1000BASE-SX/LX SFP (Small Form-factor Pluggable) fiber transceiver, uplinked to the backbone switch and monitoring center in long distance. The distance can be extended from 550 meters (multi-mode fiber) to 10/20/30/40/50/60/70/120 kilometers (single-mode fiber or WDM fiber). They are well suited for applications within the enterprise data centers and distributions.

Robust Protection

The GSW-2620VHP provides contact discharge of ±6KV DC and air discharge of ±8KV DC for Ethernet ESD protection. It also supports ±6KV surge immunity to improve product stability and protects users' networks from devastating ESD attacks, making sure the flow of operation does not fluctuate.
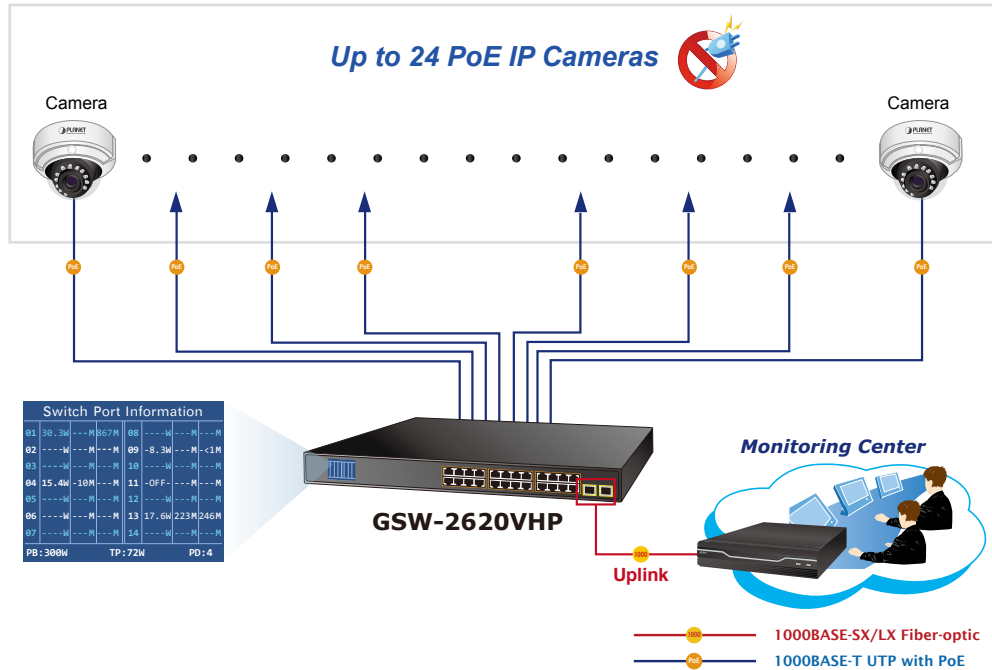
Easy Installation and Cable Connection

As data and power are transmitted over one cable, the GSW-2620VHP does not need a second cable and electrical outlets on the wall, ceiling or any unreachable place. Thus, it helps to lower the installation costs and simplify the installation effort. All the RJ45 copper interfaces of the GSW-2620VHP support 10/100/1000Mbps auto-negotiation for optimal speed detection through RJ45 Category 6, 5 or 5e cable. It also supports standard auto-MDI/MDI-X that can detect the type of connection to any Ethernet device without requiring special straight-through or crossover cables.
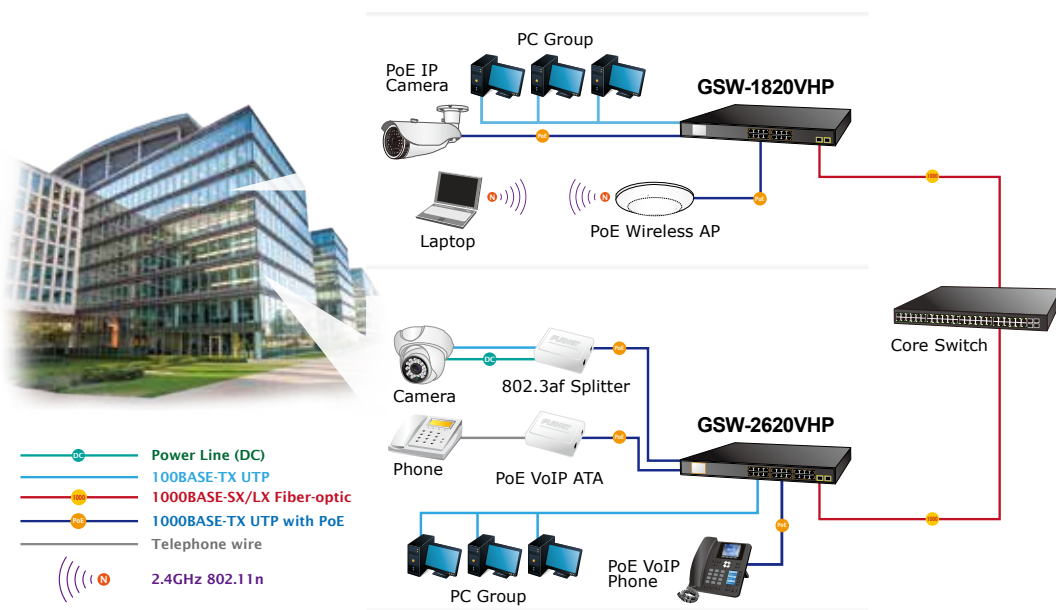
Applications

Perfectly-integrated Solution for PoE IP Camera and NVR System

With its 52Gbps high-performance switch architecture and 300-watt PoE power budget, the recorded video files from the 24 PoE IP cameras powered by the GSW-2620VHP are saved in the 24-channel NVR systems or surveillance software in the monitoring center for possible backup references..

Ideal PoE Switch for All Enterprises

Providing sixteen 802.3at PoE+ in-line power interfaces, the GSW-2620VHP can easily build a power that centrally controls IP phone system, IP camera system and wireless AP group for enterprises. Cameras can be installed around the corner in the company or campus for surveillance demands. Without the need for power sockets, the GSW-2620VHP makes the installation of cameras easier and more efficient.

Specifications

Model	GSW-2620VHP
Hardware Specifications	
802.3af/802.3at PoE Injector Port	24
10/100/1000BASE-T MDI/MDIX Ports	24
1000BASE-X SFP/mini-GBIC Slots	2
Switch Architecture	Store-and-Forward
Switch Fabric	52Gbps/non-blocking
Switch Throughput@64 bytes	38.7Mpps@64 bytes
MAC Address Table	8K entries
Maximum Frame Size	9216 bytes
Flow Control	IEEE 802.3x pause frame for full-duplex; back pressure for half-duplex
LED	**System:** Power (**Green**) **10/100/1000BASE-T RJ45 Interfaces:** 10/100Mbps LNK/ACT (**Red**) 1000Mbps LNK/ACT (**Green**) PoE-in-Use (**Orange**) **1000BASE-X SFP Interfaces:** LNK/ACT (**Green**)
LCD Monitor (W x D)	40.6 x 30.5 mm, 2-inch
Buttom	Menu, Enter, Back, Up and Down
Dimensions (W x D x H)	233 x 440 x 44 mm (1U height)
Enclosure	Metal
Weight	3.5kg
Power Requirements	100~240V AC, 50/60Hz, 5A max.
Power Consumption/Dissipation	Max. 330watts/1132 BTU
Thermal Fan	3
ESD Protection	Contact discharge of ±6KV DC Air discharge of ±8KV DC
Surge Protection	±6KV
Power over Ethernet	
PoE Standard	IEEE 802.3af Power over Ethernet/PSE IEEE 802.3at Power over Ethernet Plus/PSE
PoE Power Supply Type	End-span
PoE Power Output	Per port 53V-54V DC, 300mA. max. 15.4 watts (IEEE 802.3af) Per port 53V-54V DC, 600mA. max. 30 watts (IEEE 802.3at)
Power Pin Assignment	1/2 (+), 3/6 (-)
PoE Power Budget	300 watts
Max. Number of Class 2 PDs	24
Max. Number of Class 3 PDs	23
Max. Number of Class 4 PDs	11
Standards Conformance	
Regulatory 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 Gigabit SX/LX IEEE 802.3x Flow control and back pressure IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus IEEE 802.3az Energy Efficient Ethernet (EEE)
Environment	
Operating	Temperature: -10 ~ 60 degrees C Relative Humidity: 10 ~ 90% (non-condensing) * Temperature<40 degrees C; Humidity<90% Temperature>40 degrees C; Humidity<50%
Storage	Temperature: -10 ~ 70 degrees C Relative Humidity: 5 ~ 90% (non-condensing)

Ordering Information

GSW-2620VHP	24-Port 10/100/1000T 802.3at PoE + 2-Port Gigabit SFP Ethernet Switch

Related PoE Products

GSD-1002VHP	8-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T Desktop Switch with LCD PoE Monitor
GSW-1820VHP	16-Port 10/100/1000T 802.3at PoE + 2-Port 1000X SFP Gigabit Ethernet Switch with LCD PoE Monitor (300W)
FGSD-1022VHP	8-Port 10/100TX 802.3at PoE + 2-Port Gigabit TP/SFP combo Desktop Switch with LCD PoE Monitor (120 Watts)
FGSW-1822VHP	16-Port 10/100TX 802.3at PoE + 2-Port Gigabit TP/SFP Combo Ethernet Switch with LCD PoE Monitor (300W)
FGSW-2622VHP	24-Port 10/100TX 802.3at PoE + 2-Port Gigabit TP/SFP Combo Ethernet Switch with LCD PoE Monitor (300W)
HDP-1100PT	720p SIP Door Phone with PoE
HDP-5240PT	720p SIP Multi-unit Video Door Phone with RFID and PoE
HDP-5260PT	720p SIP Multi-unit Apartment Vandalproof Door Phone with RFID and PoE
ICA-2250VT	Industrial PoE Plus Outdoor IR IP Camera
ICA-3250	1080p IR Bullet PoE IP Camera
ICA-4200V	Full HD 20M IR Vari-focal Dome IP Camera
ICA-4250	1080p IR Dome PoE IP Camera
ICA-E3550V	5 Mega-pixel Bullet IR PoE IP Camera with Extended Support
ICA-E5550V	5 Mega-pixel Vandalproof IR PoE IP Camera with Extended Support
ICA-E6260	2 Mega-pixel PoE Plus Speed Dome IP Camera with Extended Support
ICA-E8550	5 Mega-pixel Outdoor IR PoE Fisheye IP Camera with Extended Support
ICA-M3380P	H.265 3 Mega-pixel Bullet IR IP Camera with Remote Focus and Zoom
ICA-M4320P	H.265 3 Mega-pixel IR IP Camera with Remote Focus and Zoom
ICA-M5380P	H.265 3 Mega-pixel Vandalproof IR IP Camera with Remote Focus and Zoom
ICF-1800	HD Touch Screen Android Multimedia Conferencing Phone
POE-162S	IEEE 802.3at Gigabit High Power over Ethernet Splitter
POE-E201	IEEE 802.3at Power over Ethernet Extender
WNAP-C3220A	300Mbps 802.11n Ceiling-mount Wireless Access Point
WNAP-W2201A	300Mbps 802.11n In-Wall Wireless Access Point (EU Type)
WDAP-C1750	1750Mbps 802.11ac Dual Band Ceiling-mount Enterprise Wireless Access Point
WDAP-C7200AC	1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point
VIP-1120PT	High Definition Color PoE IP Phone
VIP-2140PT	High Definition Color PoE IP Phone with Dual Display
VIP-5060PT	Professional HD PoE IP Phone (6-Line)
VIP-6040PT	Gigabit Color LCD HD PoE IP Phone (4-Line)