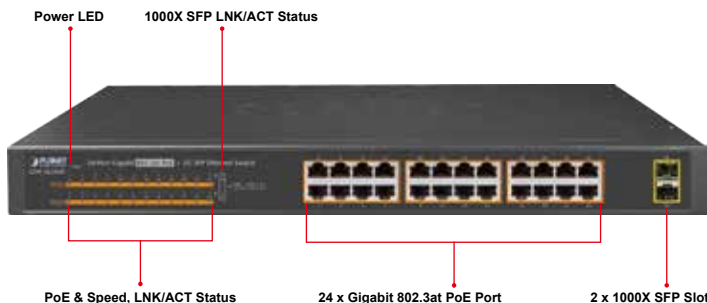


## 24-Port 10/100/1000T 802.3at PoE + 2-Port 1000X SFP Gigabit Ethernet Switch



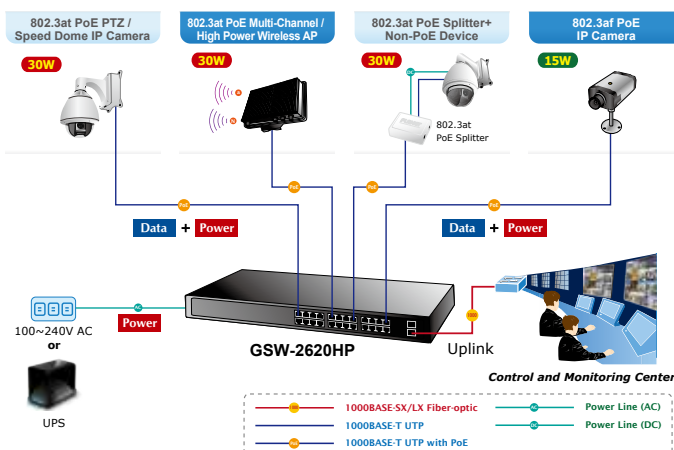
### Cost-optimized, Configure-free Gigabit PoE+ Switch for System Integrators

PLANET GSW-2620HP, an ideal Gigabit PoE Switch, provides a cost-effective advantage to local area networks of SMBs. Offering **Layer 2 data packet switching and stable operation**, this model also complies with **IEEE 802.3at Power over Ethernet Plus (PoE+)** at an affordable price. The GSW-2620HP is equipped with **24 10/100/1000BASE-T** Gigabit Ethernet ports and **2 1000BASE-X** SFP interfaces with inner power system. Its **24** Gigabit Ethernet ports are integrated with an 802.3at PoE+ injector function. It offers a rack-mountable, safe and reliable power solution for SMBs deploying Power over Ethernet networks.



### IEEE 802.3at/af Compliant Power Source Switch

The PoE in-line power following the **IEEE 802.3at/af standard** makes the GSW-2620HP able to deliver Gigabit speed data and up to **30 watts** of power per port to 24 PoE compliant powered devices (PDs) with a combined power output budget of up to 220 watts. The GSW-2620HP provides more flexibility in power requirement for all kinds of PDs with affordable installation costs.



### Physical Port

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

### Power over Ethernet

- Complies with IEEE 802.3at High Power over Ethernet
- Complies with IEEE 802.3af Power over Ethernet
- Up to 24 ports of IEEE 802.3af/802.3at devices powered
- Supports PoE power up to 30.8 watts for each PoE port
- Each port supports 52V DC power to PoE powered device
- 220-watt PoE budget
- Auto detects powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100m

### 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
- Integrates address look-up engine, supporting 8K absolute MAC addresses
- 9K jumbo frame supports all speeds (10/100/1000Mbps)
- IEEE 802.1Q VLAN transparency
- Automatic address learning and address aging
- Supports Energy-Efficient Ethernet (EEE) function (IEEE 802.3az)

### Hardware

- 19-inch desktop size, 1U height
- LED indicators for PoE ready and PoE activity
- Ethernet Link Energy-saving technology
  - Link down power saving
  - Intelligent scale power based on cable length

### Energy-saving Design

The GSW-2620HP uses new engine that incorporates two advanced Green Networking technologies:

- Idle Mode Link Down power saving
- Intelligent Scale Power based on cable length

The Idle Mode Link Down power saving of the GSW-2620HP complies with IEEE 802.3az Energy Efficient Ethernet (EEE) standard to automatically lower power for a given port when it is not linked. The Intelligent Scale Power technology actively determines the appropriate power level based on the cable length. When connecting to the GSW-2620HP with Ethernet cable shorter than 20m, a device can obtain maximum power saving because the GSW-2620HP would automatically detect the Ethernet cable length and reduce power usage. The connected device can substantially reduce the overall power consumption, which makes a significant contribution to energy saving.

### Easy Installation and Cable Connection

Providing data transfer and high PoE in one unit, the GSW-2620HP is able to reduce the need of extended cables and electrical outlets on the wall, ceiling or any unreachable place. It helps to lower the installation costs and simplify the installation effort. All RJ45 copper interfaces of the GSW-2620HP support 10/100/1000Mbps auto-negotiation for optimal speed detection through RJ45 Category 6, 5 or 5e cables. 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.

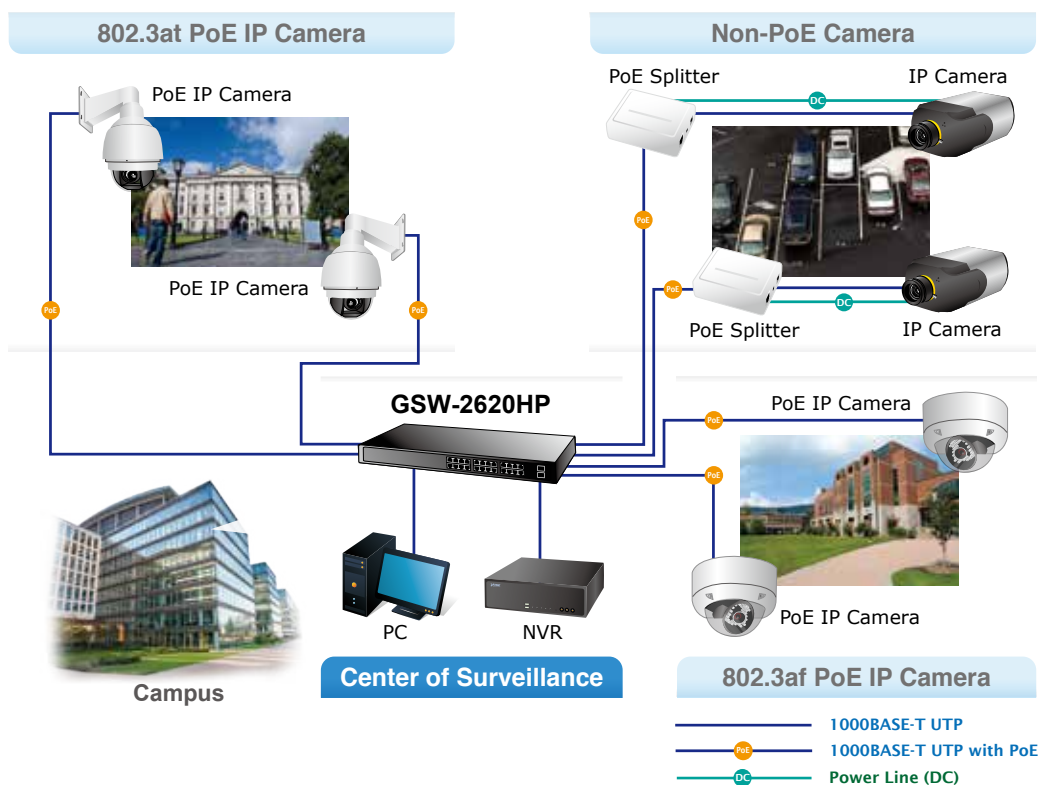
### Flexible Extension Solution

The two mini-GBIC slots built in the GSW-2620HP are compatible with the **1000BASE-SX/LX** SFP (Small Form-factor Pluggable) fiber transceiver, uplinked to 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.

## Applications

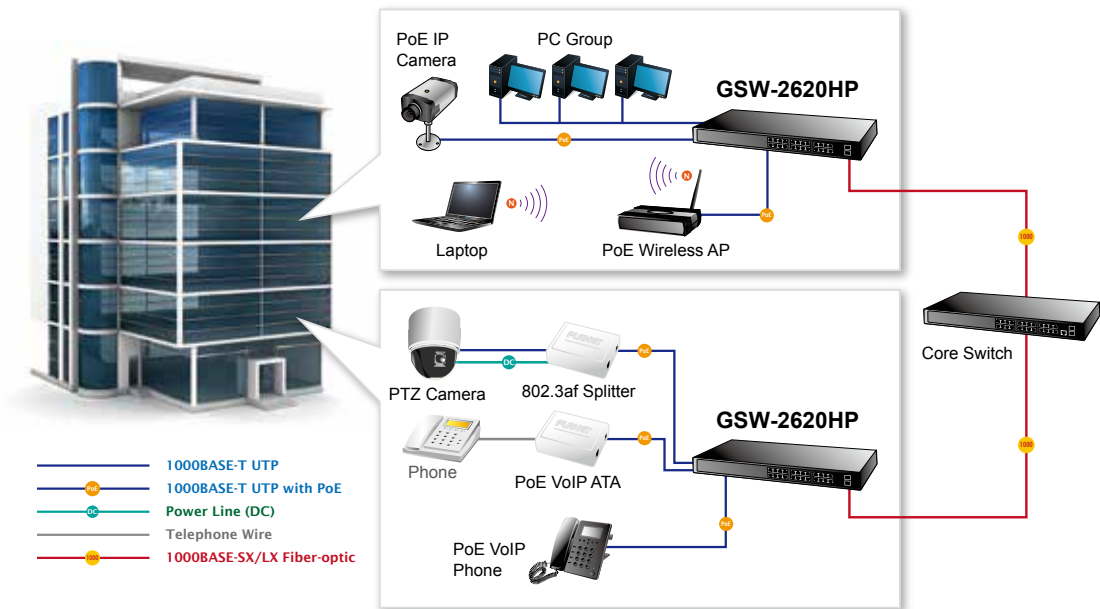
### Perfect Integration Solution for PoE IP Surveillance

The GSW-2620HP brings an ideal, secure surveillance system at a lower total cost; the GSW-2620HP provides 24 10/100/1000Mbps 802.3at PoE ports able to feed sufficient PoE power for 14 IEEE 802.3af/7 IEEE 802.3at PoE IP cameras at the same time. It is also able to connect with one 16-channel NVR or two 8-channel NVR systems, uplinked to the backbone switch and the monitoring center. With such high-performance switch architecture, the recorded video files from the PoE IP cameras can be saved in the NVR system to enable the administrators to control and monitor the surveillance images both in the local LAN and the remote sites.



### Department/Workgroup PoE Network

Providing 24 PoE in-line power interfaces, the GSW-2620HP can easily build a power where IP phone system, IP camera system and wireless AP group for enterprises can be centrally controlled. The GSW-2620HP delivers full ports of 802.3af/at compliant Gigabit Ethernet network connectivity with high-performance and cost-effective advantages for the increasing number of PoE IP telephones, PoE IP cameras, PoE wireless access points and other devices applied at the edge of the small or medium enterprise network.



## Specifications

| Product                            | GSW-2620HP   |
|------------------------------------|--|
| <b>Hardware Specifications</b>     |  |
| 10/100/1000BASE-T Copper Ports     | 24 auto-MDI/MDI-X ports  |
| 802.3af/802.3at PoE Injector Ports | 24   |
| 1000BASE-X SFP/mini-GBIC Slots     | 2  |
| Switch Architecture                | Store-and-Forward  |
| Switch Fabric                      | 52Gbps/non-blocking  |
| Switch Throughput@64 bytes         | 38.6Mpps@64 bytes  |
| MAC Address Table                  | 8K entries   |
| Jumbo Frame                        | 9216 bytes   |
| Flow Control                       | IEEE 802.3x pause frame for full-duplex; back pressure for half-duplex   |
| LED                                | <b>System:</b> Power (Green)<br><b>10/100/1000T RJ45 Interfaces</b><br>1000 LNK / ACT (Green), 10/100 LNK/ACT (Orange), PoE (Orange)<br><b>1000Mbps SFP Interfaces</b><br>1000 LNK / ACT (Green) |
| Dimensions (W x D x H)             | 445 x 207 x 45 mm (1U height)  |
| Enclosure                          | Metal  |
| Weight                             | 2.85kg   |
| Power Requirements                 | 100~240V AC, 50/60Hz, 4A (max.)  |
| Power Consumption/Dissipation      | Max. 260 watts/885 BTU   |
| Thermal Fan                        | 2  |
| <b>Power over Ethernet</b>         |  |
| PoE Standard                       | IEEE 802.3af Power over Ethernet/PSE<br>IEEE 802.3at Power over Ethernet Plus/PSE  |
| PoE Power Output                   | Per port 52V DC, 300mA. max. 15.4 watts (IEEE 802.3af)<br>Per port 52V DC, 600mA. max. 30 watts (IEEE 802.3at)   |
| PoE Pin Assignment                 | Odd port: 1/2(+), 3/6(-)<br>Even port: 4/5(+), 7/8(-)  |
| PoE Power Budget                   | 220 watts  |
| Number of PDs, 7 watts             | 24   |
| Number of PDs, 15.4 watts          | 14   |
| Number of PDs, 30 watts            | 7  |

| Standards Conformance |  |
|-----------------------|--|
| Regulatory Compliance | FCC Part 15 Class A, CE  |
| Standards Compliance  | IEEE 802.3 10BASE-T<br>IEEE 802.3u 100BASE-TX<br>IEEE 802.3ab Gigabit 1000BASE-T<br>IEEE 802.3z Gigabit SX/LX<br>IEEE 802.3x flow control and back pressure<br>IEEE 802.3af Power over Ethernet<br>IEEE 802.3at High Power over Ethernet<br>IEEE 802.3az Energy-Efficient Ethernet |
| Environment           |  |
| Operating             | Temperature: 0 ~ 50 degrees C<br>Relative Humidity: 5 ~ 95% (non-condensing)   |
| Storage               | Temperature: -10 ~ 70 degrees C<br>Relative Humidity: 5 ~ 95% (non-condensing)   |

## Ordering Information

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

## Related PoE Products

|              |   |
|--------------|---|
| ICA-2200     | Full HD PoE Box IP Camera                                       |
| ICA-2250VT   | Industrial PoE Plus Outdoor IR IP Camera                        |
| ICA-2500     | 5 Mega-pixel PoE Box IP Camera                                  |
| ICA-3250V    | Full HD Outdoor IR PoE IP Camera                                |
| ICA-4200V    | Full HD 20M IR Vari-focal Dome IP Camera                        |
| ICA-4500V    | 5 Mega-pixel 20M IR Vari-focal Dome IP Camera                   |
| ICA-5250     | Full HD Ultra-mini Vandal Dome                                  |
| ICA-5350V    | 3 Mega-pixel Vandalproof IR IP Camera                           |
| ICA-HM136    | H.264 2 Mega-pixel 20M IR Vandalproof Dome IP Camera            |
| ICA-HM351    | 2 Mega-pixel 35M IR Outdoor Box PoE IP Camera                   |
| ICA-HM620    | 2 Mega-pixel PoE Plus Speed Dome Internet Camera                |
| POE-162S     | IEEE 802.3at Gigabit High Power over Ethernet Splitter          |
| POE-E201     | IEEE 802.3at Power over Ethernet Extender                       |
| WNAP-C3220   | 802.11n Wireless Ceiling-mount PoE Access Point                 |
| WNAP-W2200   | 802.11n 300Mbps In-Wall Access Point w/ USB Charger (EU Type)   |
| WDAP-C7400   | 900Mbps Dual Band Ceiling-mount Wireless Access Point           |
| WDAP-C7200AC | 1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point |
| VIP-2020PT   | Enterprise HD PoE IP Phone (2-Line)                             |
| VIP-5060PT   | Professional HD PoE IP Phone (6-Line)                           |

## Available Gigabit SFP Modules for GSW-2620HP

|          |  |
|----------|--|
| MGB-GT   | SFP-Port 1000BASE-T Module                                   |
| MGB-SX   | SFP-Port 1000BASE-SX mini-GBIC module - 220/550m             |
| MGB-LX   | SFP-Port 1000BASE-LX mini-GBIC module - 10km                 |
| MGB-L30  | SFP-Port 1000BASE-LX mini-GBIC module - 30km                 |
| MGB-L50  | SFP-Port 1000BASE-LX mini-GBIC module - 50km                 |
| MGB-L70  | SFP-Port 1000BASE-LX mini-GBIC module - 70km                 |
| MGB-L120 | SFP-Port 1000BASE-LX mini-GBIC module - 120km                |
| MGB-LA10 | SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 10km |
| MGB-LB10 | SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 10km |
| MGB-LA20 | SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 20km |
| MGB-LB20 | SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 20km |
| MGB-LA40 | SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 40km |
| MGB-LB40 | SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 40km |

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