

16-Port 10/100/1000Mbps 802.3at PoE+ Ethernet Switch



Centralized Power Management for Gigabit Ethernet PoE Networking

To facilitate high power PoE network applications with Gigabit speed transmission, the GSW-1600HP 16-Port Gigabit High Power over Ethernet Switch features high performance Gigabit IEEE 802.3af PoE (Up to 15.4W) and IEEE 802.3at High-Power PoE (Up to 30.8W) capabilities on all ports. By offering reliable switching technology and advanced networking features, the GSW-1600HP optimizes the installation and power management of network devices such as wireless access points (AP), VoIP phones, and security video cameras. It also eliminates time and cost of deployment by integrating power and data switching into one unit, and freeing network devices from restrictions of power outlet locations and the additional AC wiring.

Interface

- 16-Port 10/100/1000Mbps Gigabit Ethernet RJ-45 ports
- Each port supports 52V DC power to PoE Powered Device

Power over Ethernet

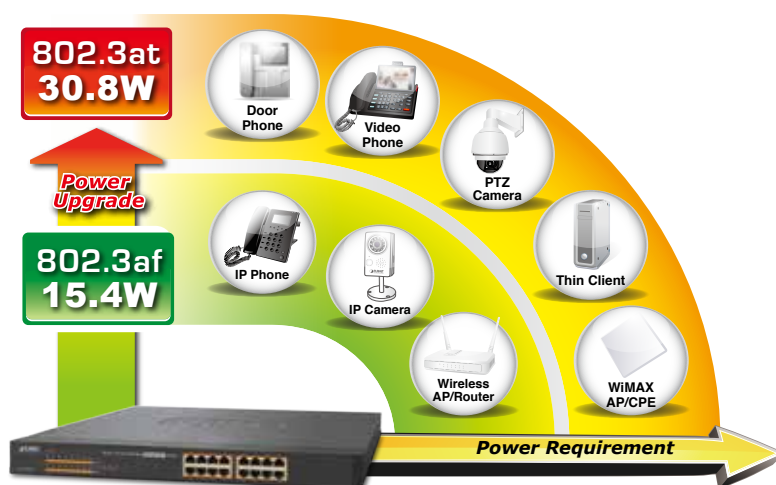
- Complies with IEEE 802.3af / IEEE 802.3at Power over Ethernet
- Up to 16 IEEE 802.3af / IEEE 802.3at devices powered
- Supports PoE Power up to 30 Watts for each PoE port
- Auto detect powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100m

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 at all speed (10/100/1000Mbps)
- Automatic address learning and address aging
- Supports Pre-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 scales power based on cable length



Perfect Integrated Solution for PoE IP Surveillance

The GSW-1600HP brings an ideal secure surveillance system with lower total cost. The GSW-1600HP provides 16 10/100/1000Mbps 802.3at PoE port able to feed sufficient PoE power for 16 IEEE 802.3af / 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, uplink to backbone switch and the monitor center. With such high performance switch architecture, the recorded video files from the PoE IP Cameras can be saved in the NVR system via which the administrators can control and monitor the surveillance images both in the local LAN and the remote sites.

Energy-Saving Design

The GSW-1600HP uses new engine that incorporates two advanced Green Networking technologies:

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

The Idle mode Link Down power saving of the GSW-1600HP complies with Pre-IEEE 802.3az Energy Efficient Ethernet (EEE) standard to automatically lower power for a given port when it is not linked. The Intelligent Scales Power technology actively determines the appropriate power level based on the cable length. When connecting to the GSW-1600HP with Ethernet cable shorter than 20m, a device can obtain maximum power saving because the GSW-1600HP would automatically detect the Ethernet cable length and reduce power usage. The connected device can substantially reduce overall power consumption, which makes a significant contribution to energy saving.

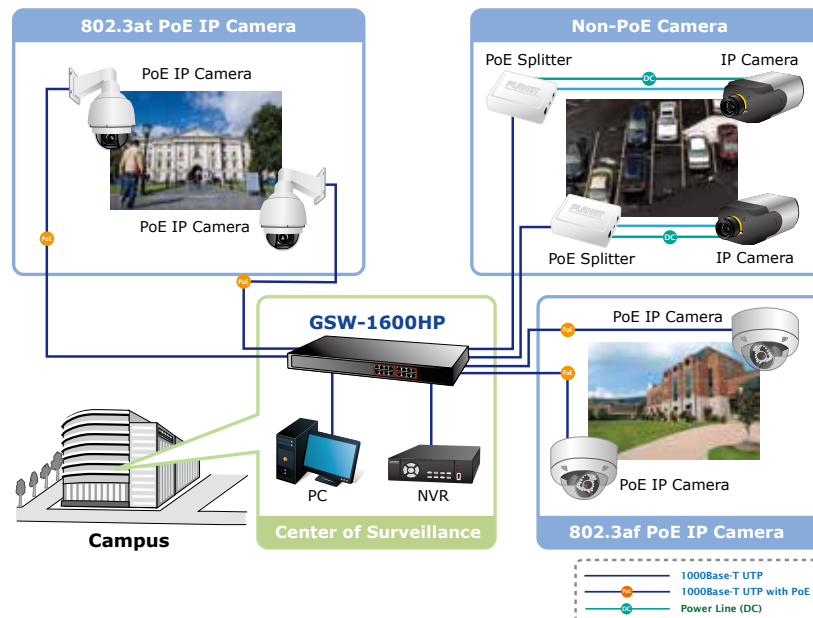
Easy Installation & Cable Connection

Providing data transfer and High Power PoE in one unit, the GSW-1600HP shall reduce the need of extension cables and dedicated electrical outlets on the wall, ceiling or any unreachable place. It helps to lower the installation costs and simplify the installation effort. All RJ-45 copper interfaces in the GSW-1600HP supports 10/100/1000Mbps Auto-Negotiation for optimal speed detection through RJ-45 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 or crossover cables.



Department / Workgroup PoE Network

Providing 16-Port PoE in-line power interfaces, the GSW-1600HP can easily build a power centrally-controlled IP phone system, IP Camera system and Wireless AP group for the enterprise. Cameras can be installed around the corner in the company or campus for surveillance demands. Without the power-socket limitation, the GSW-1600HP makes the installation of cameras more easily and efficiently.



Product Specifications

Model	GSW-1600HP 16-Port 10/100/1000Mbps 802.3at PoE+ Ethernet Switch
Hardware Specification	
Network Port	16 10/100/1000Base-T Auto-MDI/MDI-X RJ-45 ports
PoE Inject Port	16-Port with 802.3af / 802.3at PoE injector function
LED Display	System Power (Green) PoE Ethernet Interfaces PoE In-Use (Orange) 10/100/1000Base-T Ports 1000 (LNK/ACT, Green), 10/100 (LNK/ACT, Orange)
Switch Architecture	Store and Forward switch architecture
MAC Address	8K MAC address table with Auto learning function
Switch Fabric	32Gbps
Switch Throughput	23.8Mpps@64Bytes
Jumbo Packet Size	9K Bytes
Flow Control	Back pressure for Half-Duplex. IEEE 802.3x Pause Frame for Full-Duplex
Power Requirement	AC 100~240V, 50/60Hz, 3.5A max.
Power Consumption	Max. 260 Watts / 885 BTU
Dimension (W x D x H)	445 x 207 x 45 mm (1U height)
Weight	2.54kg
Power over Ethernet	
PoE Standard	IEEE 802.3af Power over Ethernet / PSE IEEE 802.3at Enhancement Power over Ethernet / PSE
PoE Power Output	Per Port 52V DC, 300mA. Max. 15.4 Watts (IEEE 802.3af) Per Port 52V DC, 590mA. Max. 30 Watts (IEEE 802.3at)
PoE Power Budget	220 Watts
Number of PD, 7Watts	16
Number of PD, 15.4Watts	14
Number of PD, 30.8Watts	7
Environment	
Operating environment	0 ~ 50 Degree C
Storage environment	-40 ~ 70 Degree C
Operating Humidity	5 ~ 95%, relative humidity, non-condensing
Storage Humidity	5 ~ 95%, relative humidity, non-condensing
Standard Conformance	
Standard Compliance	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3x Flow Control IEEE 802.3af Power over Ethernet IEEE 802.3at Enhancement Power over Ethernet IEEE 802.3az Pre-Energy-Efficient Ethernet
Regulation Compliance	FCC Class A, CE

Ordering Information

GSW-1600HP	16-Port 10/100/1000Mbps 802.3at PoE+ Ethernet Switch
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Related PoE Products

ICA-2200	Full HD PoE Box IP Camera
ICA-2500	5 Mega-Pixel PoE Box IP Camera
ICA-3250V	Full HD Outdoor IR PoE IP Camera
ICA-3350V	3 Mega-Pixel Vari-Focal Bullet IR IP Camera
ICA-4200V	Full HD 20M IR Vari-Focal Dome IP Camera
ICA-5350V	3 Mega-Pixel Vandal Proof IR IP Camera
ICA-8350	3 Mega-Pixel Vandal Proof Fisheye IP Camera
ICA-HM101	2 Mega-Pixel PoE Cube IP Camera
ICA-HM126	H.264 Full HD Box IP Camera
ICA-HM127	3 Mega-Pixel H.264 Box IP Camera
ICA-HM132	H.264 2 Mega-Pixel 20M IR Vari-Focal Dome IP Camera
ICA-HM136	H.264 2 Mega-Pixel 20M IR Vandal Proof Dome IP Camera
ICA-HM312	2 Mega-Pixel 25M IR Outdoor Bullet PoE IP Camera
ICA-HM316	2 Mega-Pixel Outdoor IR PoE 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-152S	IEEE 802.3af Power over Ethernet Splitter
POE-162S	IEEE 802.3at Gigabit High Power over Ethernet Splitter
POE-E101	IEEE 802.3af Power over Ethernet Extender
POE-E201	IEEE 802.3at Power over Ethernet Extender
WNAP-C3220	802.11n Wireless Ceiling Mount PoE Access Point
WNAP-1120PE	802.11n Wireless Access Point with PoE
ICF-1700	Touch Screen Internet Multimedia Phone
VIP-255PT	Multi-Language PoE IP Phone
VIP-256PT	802.3af PoE SIP IP Phone
VIP-360PT	Business PoE IP Phone
VIP-361PE	Professional PoE IP Phone (5-Line)
VIP-560PT	Professional PoE IP Phone