

## Product Datasheet

# 18-port Full Gigabit PoE Switch

(GWS-3016PSD)



## Overview

The GWS-3016PSD is an unmanaged PoE switch. It has 16\*10/100/1000Base-TX PoE ports, 2\*10/100/1000Base-T uplink RJ45 ports. Port 1-16 can support IEEE802.3af/at PoE standard. Single-port PoE power up to 30W. As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, webcam, VoIP phone, video access control intercom, etc. through a network cable to meet the network environment that needs a high-density PoE power supply. It is suitable for hotels, campuses, factory quarters, and small and medium-sized enterprises to form an economy efficient network.

Unmanaged mode, plug and play, no configuration, easy to use.

## Feature

### ■ Full gigabit access, Gigabit dual RJ45 ports uplink

- ◇ Support non-blocking wire-speed forwarding for smoother transmission.
- ◇ Support IEEE 802.3x full-duplex flow control and Backpressure half-duplex flow control.
- ◇ Provide Ethernet ports and Gigabit RJ45 ports uplink for flexible networking and meets the networking requirements of various scenarios.

### ■ Intelligent PoE power supply

- ◇ 16\*10/100/1000Base-TX RJ45 ports support PoE power to meet the needs of PoE power in various scenarios in the security field.
- ◇ Comply with PoE+ power standard, automatically identify PoE devices for power without damaging non-PoE devices, and the single port max PoE output power is 30W.

### ■ Stable and reliable, easy to use

- ◇ CCC,CE, FCC, RoHS.
- ◇ Plug and play, no configuration, simple and convenient.
- ◇ Low power consumption, galvanized steel casing, no fan.
- ◇ The user-friendly panel can show the device status through the LED indicator of PWR, Link, PoE.
- ◇ Self-developed power supply, high redundancy design, providing a long term and stable PoE power output.

### ■ Innovative function

- ◇ **PoE watchdog:** The watchdog function is enabled by default for ports 1 to 16, which can automatically detect the data communication status in real-time. When the port communication fails, the corresponding port POE will automatically restart, and the network communication can be repaired by itself, eliminating manual maintenance costs.
- ◇ **Long-distance mode (E):** switch to "ON" position (default "OFF"), the port 9 to 16 rate is 10M.

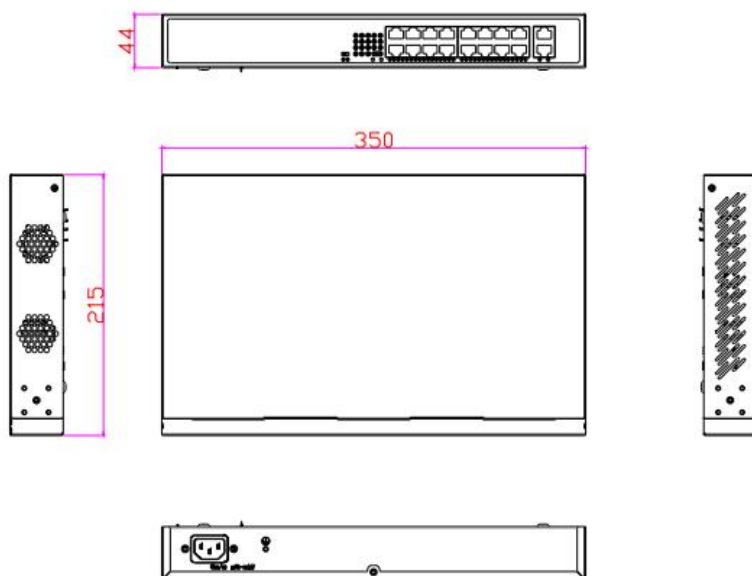
Using the existing twisted pair can break through the 100 meters transmission limit, and the transmission distance can be up to 250 meters. At the same time, it can solve the problem of poor transmission caused by aging lines.

## Technical Specification

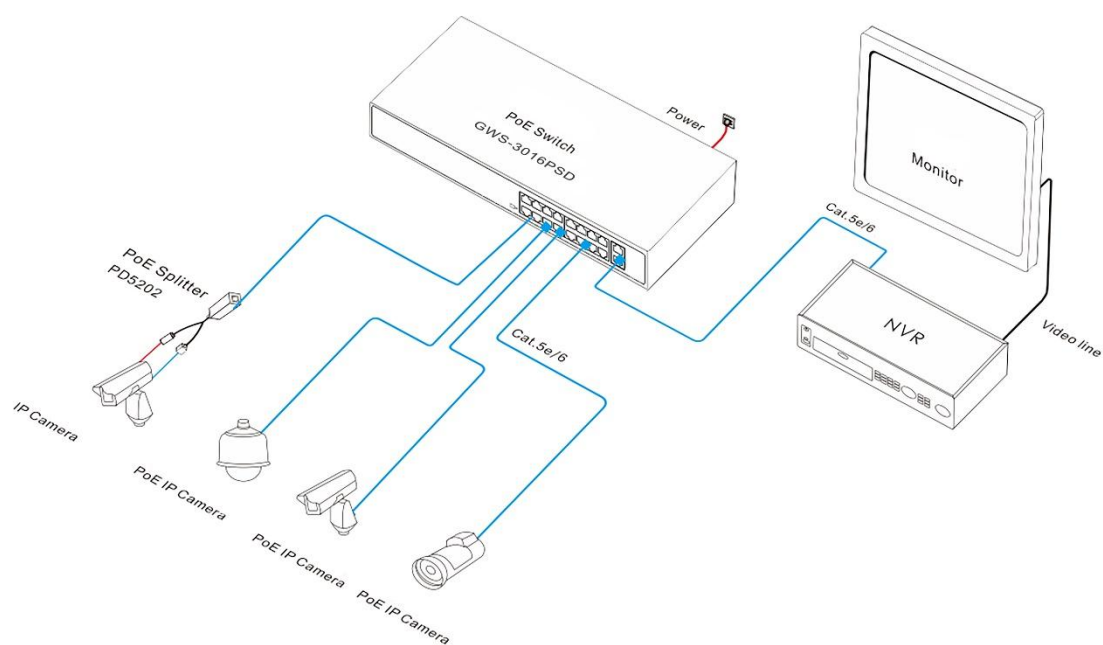
Model	GWS-3016PSD	GWS-3024PSD
Interface Characteristics		
Fixed Port	16*10/100/1000Base-TX PoE ports (Data/Power)	24*10/100/1000Base-TX PoE ports (Data/Power)
	2*10/100/1000Base-T uplink RJ45 ports (Data)	2*10/100/1000Base-T uplink RJ45 ports (Data)
Ethernet Port	Port 1-16/1-24 can support 10/100/1000Base-T(X) and 17-18/25-26 can support 100/1000Base-T(X) automatic detection, full/half-duplex MDI/MDI-X auto-sensing	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤250 meter)  100BASE-TX: Cat5 or later UTP(≤100 meter)  1000BASE-T: Cat5e or later UTP(≤100 meter)	
Functional Switch	E: long-distance function (Default: OFF, Use:ON), After opening, ports 9-16/17-24 support 10M/250m long distance + POE watchdog	
Chip Parameter		
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T  IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T,IEEE802.3z  1000Base-X,IEEE802.3x	
Forwarding Mode	Store and Forward(Full Wire Speed)	
Switching Capacity	36Gbps (Non-blocking)	52Gbps (Non-blocking)
Forwarding	26.78Mpps	38.69Mpps

Rate@64byte		
MAC	16K	16K
Buffer Memory	4M	
Jumbo Frame	10K	
LED Indicator	Power: PWR (Green), Network: Link (Green), PoE: PoE (Green), Functional switch: EXTEND (Green)	
PoE & Power Supply		
PoE Port	Port 1 to 16 @ IEEE802.3af/at	Port 1 to 24 @ IEEE802.3af/at
Power Supply Pin	1/2(+) 3/6(-)	
Max Power Per Port	30W, IEEE802.3af/at	
Total PWR / Input Voltage	160W/ (AC100-240V)	250W/ (AC100-240V)
Power Consumption	Standby <5W, Full load <160W	Standby <5W, Full load <250W
Power Supply	Built-in power supply, AC100~240V 50-60Hz 3A	Built-in power supply, AC100~240V 50-60Hz 4.8A
Physical Parameter		
Operation TEMP / Humidity	-20~+55°C, 5%~90% RH Non condensing	
Storage TEMP / Humidity	-40~+75°C, 5%~95% RH Non condensing	
Dimension (L*W*H)	350*215*44mm	350*215*44mm
Net /Gross Weight	<1.75kg / <2.2kg	<2.0kg / <2.5kg
Installation	Desktop, Rack-mounted	
Certification & Warranty		
Lightning Protection	Lightning protection: 4KV 8/20us, Protection level: IP30	
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS	
Warranty	1 year, lifelong maintenance.	

## Dimension



## Application



## Ordering Information

Model	Description	Power Supply
GWS-3016PS D	Unmanaged PoE switch with 16*10/100/1000M PoE ports, 2*10/100/1000M Base-T uplink RJ45 ports. Port 1-16 can support IEEE802.3af/at PoE standard, switch the functional switch, ports 9-16 rate is 10M/250 meters transmission and built-in power supply.	52V/160W
GWS-3024PS D	Unmanaged PoE switch with 24*10/100/1000M PoE ports, 2*10/100/1000M Base-T uplink RJ45 ports. Port 1-24 can support IEEE802.3af/at PoE standard, switch the functional switch, ports 17-24 rate is 10M/250 meters transmission and built-in power supply.	52V/250W

## Packing List

	CONTENT	QTY	UNIT
Packing List	18-port Full Gigabit PoE Switch	1	SET
	AC Power Line	1	PC
	User Guide	1	PC
	Warranty Card	1	PC

## Contact Us



Tel: 0086-752-3397806

WeChat: HZGWS--PoE

Email: [h zgws@h zgws.com](mailto:h zgws@h zgws.com)

Skype: [@h zgws@h zgws.com](https://www.skype.com/people/hzgws)

Website: [www.hzgws.com](http://www.hzgws.com)

Address: Building 3, Phase II, Xinghe Artificial Intelligence Industrial Park, No.333 Zhongkai 6th Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou

