Product Datasheet

19-port Full Gigabit PoE Switch

(GWS-3016PFD)

Overview

The GWS-3016PFD is an unmanaged PoE switch. It has 18*10/100/1000Base-T RJ45 ports and 1*1000Base-X uplink SFP 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 optical 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 SFP 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 supply standard, automatically identify PoE devices for power supply 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**

  ◇ **Long-distance mode (E):** switch to "ON" position (default "OFF"), the port 9 to 16 rate is 10M, and the PoE watchdog function is turned on at the same time to monitor and automatically restart the communication failure PoE port, suppress broadcast storms and improve network performance.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.
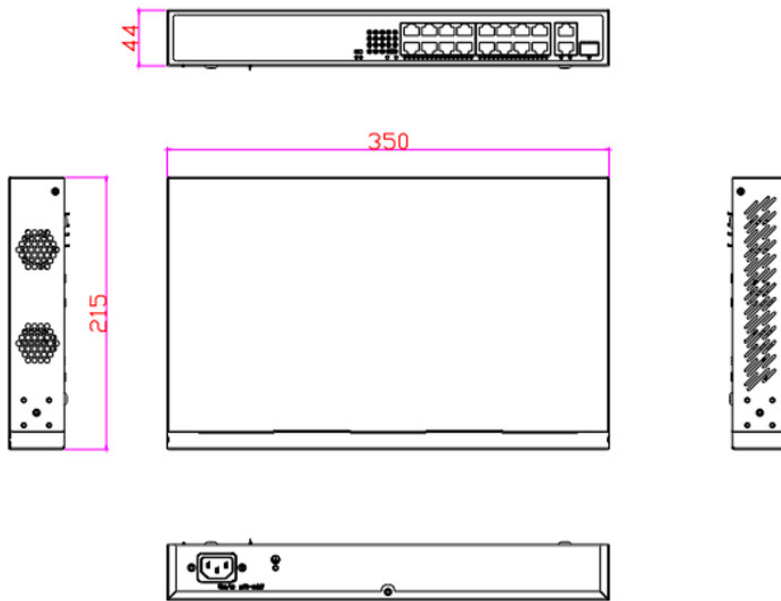
Technical Specification

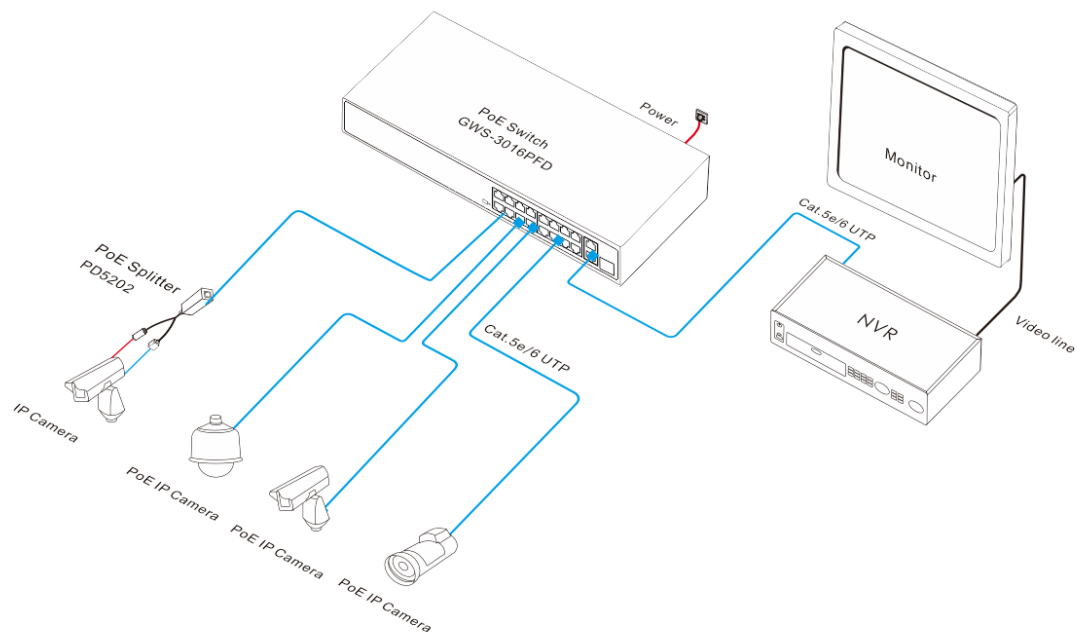| Model	GWS-3016PFD	GWS-3024PFS
Interface Characteristics		
Fixed Port	16*10/100/1000Base-T PoE ports (Data/Power) 2*10/100/1000Base-T uplink RJ45 ports (Data) 1*1000Base-X uplink SFP ports (Data)	24*10/100/1000Base-T PoE ports (Data/Power) 2*10/100/1000Base-T uplink RJ45 ports (Data) 1*1000Base-X uplink SFP ports (Data)
Ethernet Port	Port 1-18/1-26 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)	
Optical Fiber Port	Gigabit optical fiber port, default no include optical module(optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC/SC)	
Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km	
Functional Switch	**E**: long-distance function (Default: OFF, Use:ON) After opening, ports 9-16 support 10M/250m long distance + POE watchdog	none
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	38Gbps (Non-blocking)	54Gbps (Non-blocking)
Forwarding Rate@64byte	28.27Mpps	40.18Mpps
MAC	4K	8K
Buffer Memory	4M	
Jumbo Frame	9.2K	
LED Indicator	Power: PWR (Green), Network: Link (Green), PoE: PoE (Red), Functional switch: EXTEND (Green)	

PoE & Power Supply

PoE Port	Port 1 to 16 support PoE+ power supply	Port 1 to 24 support PoE+ power supply
Power Supply Pin	1/2(+) 3/6(-)	
Max Power Per Port	30W, PoE+	
Total PWR / Input Voltage	180W/ (AC100-240V)	280W/ (AC100-240V)
Power Consumption	Standby <5W, Full load <180W	Standby <8W, Full load <250W
Power Supply	Built-in power supply, AC100~240V 50-60Hz 2.2A	Built-in power supply, AC100~240V 50-60Hz 4.1A

Physical Parameter

Operation TEMP / Humidity	-20~+55°C, 5%~90% RH Non condensing	
Storage TEMP / Humidity	-40~+80°C, 5%~95% RH Non condensing	
Dimension (L*W*H)	350*215*44mm	350*215*44mm
Net /Gross Weight	<2.4kg / <2.9kg	<2.6kg / <3.1kg
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-3016PFD	Unmanaged PoE switch with 18*10/100/1000M RJ45 ports, and 1*1000Base-X uplink SFP ports. Port 1-16 can support IEEE802.3af/at PoE+ standard. The POE watchdog function is turned on by default(automatically restart PoE to realize network self-healing), switch the functional switch, ports 9-16 rate is 10M/250 meters transmission and built-in power supply.	52V/180W
GWS-3024PFS	Unmanaged PoE switch with 26*10/100/1000M RJ45 ports, and 1*1000Base-X uplink SFP ports. Port 1-24 can support IEEE802.3af/at PoE+ standard,built-in power supply.	52V/280W

Packing List

	CONTENT	QTY	UNIT
Packing List	19-port Full Gigabit PoE Switch	1	SET
	AC Power Line	1	PC
	User Guide	1	PC
	Warranty Card	1	PC

Contact Us

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