

# 16-port Managed PoE Gigabit Ethernet Switch

16-port PoE and Intelligent PoE



- Intelligent PoE
- Supports 90W IEEE802.3bt
- 250 m PoE Transmission Distance
- PoE Watchdog
- 4 Mbit Data Cache for Real-time Transmission and Smooth Video
- Gigabit Port Design



## System Overview

The DH-PFS4218-16GT-230 managed PoE switch comes with 16 gigabit PoE ports and 2 gigabit uplink combo ports. Highly reliable, it can carry a full load of 230 W. It also has a strong switching capability and optimizes transmission performance when accessing Ultra HD videos. With its full metal design, the device has great heat dissipation and low power consumption, working in environments ranging from 0 °C to +45 °C (32 °F to 131 °F). It also has powerful network management functions, supporting CLI and various types of web and network management software based on SNMP.

## Functions

### Intelligent PoE

Provides power consumption control and real-time monitoring to guarantee priority of power supply for important ports and prevent malfunctioning caused by power consumption change. Supports ultra wide power supply, able to adapt to IPC power fluctuation.

### All-gigabit Ports

Designed with large buffer memory and all-Gigabit ports, enabling high-definition access of large stream.

### Red Port 90W

The red ports support IEEE802.3af, IEEE802.3at, and IEEE802.3bt, with a maximum output power consumption of 90W per port. Suitable for powering high-power devices.

### Uplink Combo

With two adaptive 10 Mbps/100 Mbps/1000 Mbps RJ-45 ports and 1000 Mbps optical ports, the switch provides users with a wide choice of uplink access.

### Long Distance PoE

By dialing or enabling long-range transmission on the WEB interface, the transmission distance of a PoE port can be up to 250 m, meeting the requirement of wired transmission (bandwidth reduced to 10 Mbps).

### Minimal Web

Designed with a minimalist graphical WEB, easy to operate, which improves configuration efficiency.

**Technical Specification**

Hardware	
Included Power Adapter	Yes
PoE	Yes
Ethernet Port	16
Ethernet Port Speed	10/100/1000 Mbps
Ethernet Port Uplink Speed	10/100/1000 Mbps
Optical Port Uplink Speed	100/1000 Mbps
Description of Function Slots	Port 1-16:16 × 10M/100M/1000MBase-T (PoE); Port 17-18:2 × 10M/100M/1000MBase-T (uplink) (combo) Port 17-18:2 × 1000M SFP (uplink)(combo)
Debugging	1 x Console Port
Reset Button	1
Power Supply	100–240 VAC, 50/60 Hz, 7 A
Operating Temperature	0 °C to +45 °C (32 °F to 131 °F)
Operating Humidity	10%–90% (RH)
Storage Temperature	–20 °C to +70 °C (–4 °F to +158 °F)
Storage Humidity	5%–90% (RH), non-condensing
Power Consumption	265W
Performance	
Layer	Layer 2+
Management Type	Web (http and https protocol); CLI; SNMP V1/V2C/V3
Switching Capacity	56 Gbps
Packet Forwarding Rate	29.76 Mpps
Packet Buffer Size	12 Mbit
Jumbo Frame	10K
MAC Table Size	16K
VLAN Number	4K
VLAN Interface	32
IPv4 Routes	16
Dynamic ARP	303
Communication Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
Feature	
PoE Protocol	IEEE802.3af/ IEEE802.3at/IEEE802.3bt
PoE Power	Port 1-2 ≤ 90 W,Port 3-16 ≤ 30 W, Total ≤ 230 W
PoE Power Consumption Management	Yes
PoE Pin Assignment	Yes
Long Distance PoE Transmission	Yes
Spanning Tree Protocol	STP; RSTP; MSTP
VLAN Function	Yes
Link Aggregation	Yes
Multicast	Yes
ARP	Yes
Equipment Management	Yes
General	
Static Protection	Air Discharge: 8 kV
Lightening Protection	Common mode: 6 kV
Net Weight	3.1 kg (6.83 lb)

Gross Weight	3.7 kg (8.16 lb)
Product Dimensions	440 mm × 185.8 mm × 44 mm (17.32" × 7.31" × 1.73")
Package Dimensions	469 mm × 265 mm × 83 mm (18.46" × 10.43" × 3.27")
Casing Material	Electro Galvanized Steel Sheet
Installation	Desktop Mount, Rack Mount
Certifications	CE, FCC

**Transmission Performance**

Switch Power Supply Voltage 53V  
CAT5E/CAT6 Max. DC Resistance <10 Ω/100 m

Cable (m)	Load Capacity (W)	Bandwidth (Mbps)
IEEE802.3bt 90W		
100	71.3	100
150	62	10
200	51	10
250	40	10

IEEE802.3at 30W		
100	25.5	100
150	25.5	10
200	25.5	10
250	25.5	10

Note: Data from this table was collected by Dahua's test lab and is for reference only. If there are inconsistencies between field application and the table, the field application should be used.

## Ordering Information

Type	Part Number	Description
SFP Module	GSFP-1310T-20-SMF	1.25G 1310/1550nm, 20 km, LC, Single-mode
	GSFP-1310R-20-SMF	1.25G 1550/1310nm, 20 km, LC, Single-mode
	GSFP-1310-20-SMF	1.25G 1310nm, 20 km, LC, Single-mode
	GSFP-850-MMF	1.25G 850nm, 550 km, LC, Single-mode

## Dimensions

mm [in.]

