

# DH-PFS4212-8GT-110

12-Port Managed Desktop Gigabit Switch with 8-Port PoE



#### System Overview

The device is a layer-2 commercial switch. It provides high-performance switching engine and large buffer memory to ensure smooth video stream transmission. With a full-metal and fanless design, the device features great heat dissipation capability on the shell surface, and is able to work in the environment from -10 °C to +55 °C. It adopts EMC (Electro Magnetic Compatibility) protection design, which meets the Class B standard. With Telnet, WEB management, SNMP (Simple Network Management Protocol) and other functions, the device can be remotely managed. The device can directly connect to iLinks-View.

#### Functions

#### PoE Watchdog

Adopts the innovative PoE Watchdog. PoE Watchdog can be switched on by dialing or turning on the WEB page switch. It enables the switch to automatically detect port status and restart failed ports to recover connection in case of IPC connection exception. This enables intelligent operation and maintenance management in its truest sense, effectively reducing manual maintenance costs.

#### Long-distance PoE

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

#### Red Port 90W

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

#### Wide Operating Temperature

Supports working in temperatures between-10 °C to +55 °C. It has built-in professional mine-proof circuits, which effectively reduce the impact of thunderstorms on network systems and improves system robustness, allowing it to readily adapt to harsh environments.

- All-gigabit port design
- Supports IEEE802.3af, IEEE802.3at, Hi-PoE and IEEE802.3bt (red port) standards
- 250 m long-distance PoE transmission (10 Mbps)
- PoE Watchdog
- Supports STP, RSTP, and MSTP
- IEEE802.1Q-based VLAN configuration
- Manual link aggregation and static LACP
- · Desktop mount and wall mount



#### Intelligent PoE

Provides control over power consumption and offers real-time monitoring to ensure power supplies receive priority with important ports and to prevent malfunctions caused by changes in power consumption. Supports ultra wide power supplies and is able to adapt to IPC power fluctuations.

#### Fast Loop Convergence

Supports ERPS protocol to provide loop protection. Convergence time can be no more than 50 ms when a link disconnection occurs.

#### Scene

The device is applicable for use in different scenarios, including home, office, server farm, and small mall.

Technical Specification				
Yes				
10				
2				
10 Mbps/100 Mbps/1000 Mbps				
1000 Mbps				
Port 1-8: 8 x 10/100/1000 Base-T (PoE) Port 9-10: 2 x 10/100/1000 Base-T Port 11-12: 2 x 1000 Base-X				
48 V-57 VDC				
-10 °C to +55 °C (+14 °F to +131 °F)				
5%–95% (RH)				
12 W				
L2				

# All-gigabit PoE Switch | DH-PFS4212-8GT-110

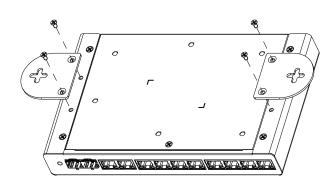
Managed	Yes			
Switching Capacity	52 Gbps			
Packet Forwarding Rate	17.856 Mpps			
Packet Buffer Size	4 Mbits			
Communication Standard	IEEE 802.3; IEEE 802.3u; IEEE 802.3x; IEEE 802.3ab; IEEE 802.3z; IEEE 802.3ad; IEEE 802.1d; IEEE 802.1p; IEEE 802.1q; IEEE 802.1s; IEEE 802.1w; IEEE 802.1x			
MAC Table Size	8К			
Function				
PoE Protocol	IEEE 802.3af (PoE); IEEE 802.3at (PoE+); Hi-PoE; IEEE 802.3bt			
PoE Power	Port 1-2: ≤90 W Port 3-8: ≤30 W Total: ≤110 W			
PoE Pin Assignment	1, 2, 4, 5 (V+), 3, 6, 7, 8 (V-)			
Long Distance PoE Transmission	Yes			
Jumbo Frame	9,000 bytes			
VLAN Function	Yes			
Flow Control	Half-duplex based on back pressure type control Full duplex based on PAUSE frame			
Link Aggregation	Static link aggregation; LACP			
Port Mirroring	Multiple-to-one port mirroring			
Multicast	Yes			
DHCP Function	DHCP client DHCP-Server			
Security	Users management HTTPS SSH Hardware supports MAC binding based on port 802.1x Loop protection			
QoS	QoS base on CoS/DPL/PCP/DEI 8 output queues for each port Port shaping Port tag remarking QoS base on DSCP			
Maintenance	One-click restore to default settings Uploading/downloading configuration files Updated packet upload System logs			
Device Management	Web (HTTP and HTTPS protocol); SNMP V1/V2C/ V3; CLI			
General				
Statics Protection	Air discharge: 8 kV Contact discharge: 6 kV			
Lighting Protection	Common mode: 2 kV Differential mode: 1 kV			
Net Weight	0.84 kg (1.85 lb)			
Gross Weight	1.75 kg (3.86 lb)			
Product Dimensions	220 mm × 135 mm × 30 mm (8.67" × 5.31" × 1.18") (L × W × H)			
Packing Dimensions	290 mm × 196 mm × 91 mm (11.42" × 7.72" × 3.58") (L × W × H)			

Transmission Performance:				
Switch power supply voltage 53 V. CAT5E/CAT6. Max. DC resistance < 10 $\Omega/100$ m				
Cable (m)	Load Capacity (W)	Bandwidth (Mbps)		
IEEE802.3bt 90 W				
100	71.3	100		
150	62	10		
200	51	10		
250	40	10		
Hi-PoE 60 W				
100	53	100		
150	50	10		
200	47	10		
250	37	10		
IEEE802.3at 30 W				
100	25.5	100		
150	25.5	10		
200	25.5	10		
250	25.5	10		

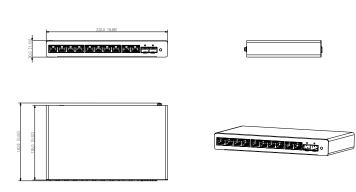
Note: Data from this table was collected by Dahua test lab and is for reference only . If there is inconsistency between field application and the table, the field result shall prevail.

Ordering Information				
Туре	Model	Description		
SFP module	PFT3950	1.25G 850 nm, 500 m, LC, Multi-mode		
	PFT3960	1.25G 1310/1550 nm,20 km, LC, Single-mode		
	PFT3970	1.25G 1550/1310 nm,20 km,LC, Single-mode		

## Installation



### Dimensions (mm[inch])



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