

DH-PFS4218-16ET-190

16-port 100 Mbps + 2-port Gigabit Managed PoE Switch

PoE 2.0



- * The parameters and datasheets below can only be applied to V2.0 & V3.0
- · Intelligent PoE
- Red port supports 90W IEEE802.3bt
- · Web management with friendly interface and easy operation
- 250 m long distance PoE transmission
- PoE watchdog
- · Plug and play













System Overview

DH-PFS4218-16ET-190 is a type of layer-two managed PoE switch. It provides 16 100 Mbps PoE ports and 2 gigabit uplink combo ports. The full load is 240W.

With all metal design, the product has good heat dissipation and low power consumption, which can work in environments from -10° C to $+55^{\circ}$ C.

The product owns powerful network management functions. Network management system supports CLI, iLinksView, web and network management software based on SNMP.

Functions

Uplink Combo Port

Two of the uplink ports support a self-adaptive 10/100/1000 Mbps RJ-45 port or a 1000 Mbps optical port.

Intelligent PoE

The switch features intelligent PoE power consumption management to help keep the power and data flowing, even when the switch experiences a power fault. Intelligent PoE monitors the power consumption of the connected devices, and in the event of large power fluctuations, the switch shuts down one port at a time rather than shutting down all ports. Unlike typical switches that shut down all ports as once, this switch shuts down the highest number port first, then the next highest number until the switch detects the power consumption is below the PoE budget. Green PoE can power on and power off according to time strategy. It can also realize PoE legacy support.

BT 90W

The red port supports the IEEE802.3bt and the Hi-PoE standards. The maximum power consumption is 90W.

PoE Watchdog

The switch employs an innovative PoE watchdog function that automatically detects a network port failure and restarts network communication on the port. This functionality avoids manual maintenance and network restarts, saving time and reducing costs.

Long Distance PoE

Long-distance PoE transmission extends the maximum transmission distance to 250 m (from 100 m), but reduces transmission speed to a maximum of 10 Mbps (from 1000 Mbps).

Various Operating Environments

The switch is designed to operate in severe environments and in temperatures ranging from -10°C to $+55^{\circ}\text{C}$ (14°F to 131°F). The switch includes a professional-grade surge protection circuit that offers 4 kV (common mode) and 2 kV (differential mode) all-port lightning protection. This protection reduces damage to the network from a lightning storm. The switch meets the Class B EMC standard and is suitable for residential, commercial, and light-industrial applications.

Scene

Applicable to small and micro-scale monitoring networks such as office desktops, schools, hotels, supermarkets and hospitals.

Technical Specification			
Performance			
Layer	Layer 2		
Managed	Yes		
Switching Capacity	8.8 Gbps		
Packet Forwarding Rate	5.36 Mpps		
Packet Buffer Memory	2.75 Mbit		
MAC Table Size	4K		
Communication Standard	IEEE802.3; IEEE802.3u; IEEE802.3x; IEEE 802.3ab; IEEE 802.3z		
Hardware Feature			
Standard Power Supply	Yes		
PoE	Yes		
Ethernet Port	16		
Optical Port	2		
Ethernet Port Rate	100 Mbps		
Optical Port Rate	1 Gbps		
Number of Bussiness Card Slots	Port 1-16: 16 × RJ-45 10 M/100 M (PoE) Port 17-18: 2 × RJ-45 10 M/100 M/1000 M (uplink) Port 17-18: 2 × SFP 1000 M (uplink) (combo)		
Debugging	Console × 1		
Power Supply	100V-240V AC		
Operating Temperature	−10 °C to +55 ° (14 °F to 131 °F)		
Operating Humidity	10% RH-90% RH		
Power Consumption	Idling: 10W Full load: 190W		
PoE			
PoE Standard	IEEE802.3af/ IEEE802.3at/ Hi-PoE/IEEE802.3bt		
PoE Budget	Port 1-2 ≤ 90W, Port 3-16≤ 30W, total ≤ 190W		
PoE Pin Assignment	1, 2, 4, 5 (V+), 3, 6, 7, 8 (V-)		
PoE Management	Power consumption management Power on and power off Power down for overload Green PoE Legacy support		
Long Distance PoE Transmission	250 m long-distance power supply		
Function			
Spanning Tree Protocol	IEEE 802.1d (STP); 802.1w (RSTP)		
VLAN	IEEE802.1q Standard VLAN		
Flow Control	Support IEEE 802.3x (full duplex flow control) and back pressure flow control (half duplex)		
Link Aggregation	Static; LACP		
Port Mirroring	One-to-one; multiple-to-one		

Multicast	GMP snooping based on port	
DHCP	DHCP client	
Security	Hardware supports IP and MAC binding based on port, MAC filtering based on port, and IEEE802.1x port authentication	
QoS	High and low priority WRR 802.1P DSCP Priority based on protocol	
General		
ESD	Air discharge: 8kV Contact discharge: 6kV	
Thunder-proof	Common mode: 4kV Differential mode: 2kV	
Dimensions	440 mm \times 300 mm \times 44 mm (17.32" \times 11.81" \times 1.73") (L \times W \times H)	
Packaging Dimensions	Packing box: 527 mm × 412 mm × 110 mm (20.75" × 16.22" × 4.33") (L × W × H) Protective box: 584 mm × 549 mm × 446 mm (22.99" × 21.61" × 17.56") (L × W × H)	

Transmission Performance:				
Switch power supply voltage 53V. CAT5E/CAT6. Max. DC resistance < 10Ω/100m				
Cable(m)	Load Capacity(W)	Bandwidth(Mbps)		
IEEE802.3bt 90W				
100	71.3	100		
150	62	10		
200	51	10		
250	40	10		
Hi-PoE 60W				
100	53	100		
150	50	10		
200	47	10		
250	37	10		
IEEE802.3at 30W				
100	25.5	100		
150	25.5	10		
200	25.5	10		
250	25.5	10		
Note: Data fro	Note: Data from this table was collected by Dahua test lab and is for reference only .			

Installation



Application



Dimensions (mm[inch])





