alhua TECHNOLOGY

DH-PFS4226-24GT2GF-240
24-Port Gigabit Managed PoE Switch

- Intelligent PoE
- Red port supports 90W IEEE802.3bt
- Web management with friendly interface and easy operation
- 250 m long distance PoE transmission
- PoE watchdog
- Large-capacity data cache (4Mbit) for real-time transmission and smooth video
- All gigabit port design

System Overview

DH-PFS4226-24GT2GF-240 is a type of layer-two managed PoE switch. It provides 24 gigabit PoE ports and 2 gigabit uplink combo ports. The full load is 240W.

With high switching performance and reliability, the product features large cache and low transmission delay, which supports access of Ultra HD video.

With all metal design, the device has good heat dissipation and low power consumption, which can work in environments from −10°C to +55°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 90 W.

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°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	52 Gbps
Packet Forwarding Rate	38.688 Mpps
Packet Buffer Memory	4 Mbit
MAC Table Size	8K
VLAN Amount	4K
Standards Compliance	IEEE802.3; IEEE802.3u; IEEE802.3x; IEEE802.3ab; IEEE802.3z

Hardware Feature

Standard Power Supply	Yes
PoE	Yes
Ethernet Port	24
Optical Port	2
Ethernet Port Rate	1 Gbps
Optical Port Rate	1 Gbps
Number of Business Card Slots	Port 1-24: 24 × RJ-45 10 M/100 M/1000 M (PoE) Port 25-26: 2 × RJ-45 10 M/100 M/1000 M (uplink) Port 25-26: 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: 20W Full load: 240W

PoE

PoE Standard	IEEE802.3af/ IEEE802.3at/ Hi-PoE/IEEE802.3bt
PoE Budget	Port 1-2 ≤ 90W, Port 3-24 ≤ 30W, total ≤ 240W
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

MAC Address Table	MAC address table configuration
Spanning Tree Protocol	STP; RSTP; MSTP
VLAN	IEEE802.1q Standard VLAN
Flow Control	Support IEEE 802.3x (full duplex flow control) and back pressure flow control (half duplex)

Link Aggregation	Manual; LACP
Port Mirroring	Multiple-to-one
Multicast	IGMP Snooping v1/v2/v3
DHCP	DHCP client/server; DHCP snooping
Security	User management HTTPS SSH SNMP V1/V2/V3 ACL 802.1x Loop protection
QoS	8 output queues for each port Traffic shaping, port tag remarking QoS based on CoS/DPL/PCP QoS based on DSCP"
System Maintenance	Uploading/downloading configuration files Online upgrade System logs
Device Management	Web (http and https protocol); iLinksView; CLI; SNMP V1/V2C/V3

General

ESD	Air discharge: 8kV Contact discharge: 6kV
Thunder-proof	Common mode: 4kV Differential mode: 2kV
Dimensions	440 mm × 300 mm × 44 mm (17.32" × 11.81" × 1.73") (L × W × 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 < 10 Ω/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 . The actual transmission distance may vary due to power consumption of connected devices or the cable type and status.
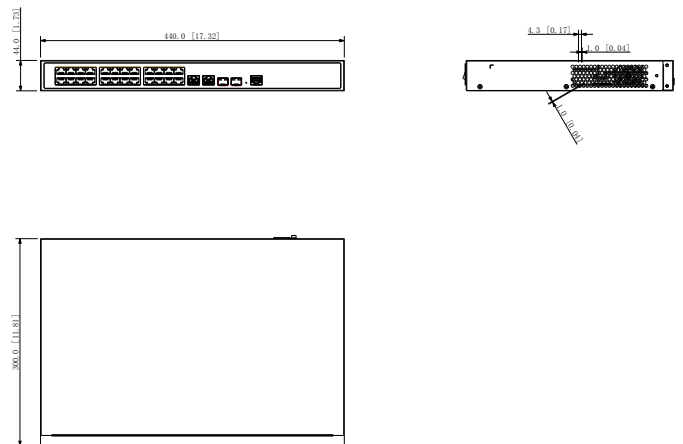
Ordering Information

Type	Model	Description
Accessories	PFT3950	1.25 G 850 nm, 2 km, LC, Multimode, Class 1
	PFT3960	1.25 G 1310/1550 nm, 20 km, LC, Single-mode, Class 1
	PFT3970	1.25 G 1550/1310 nm, 20 km, LC, Single-mode, Class 1

Installation
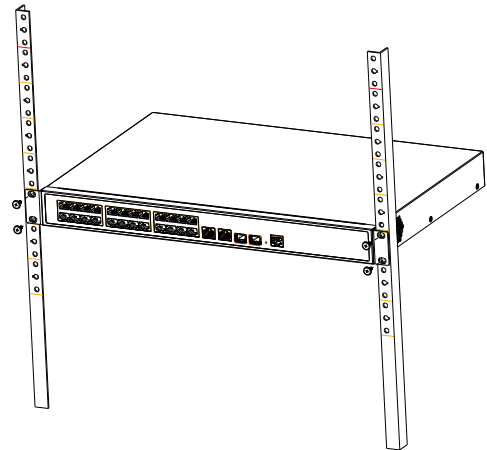
Dimensions (mm [inch])

Application

DH-PFS4226-24GT2GF-240

PoE IPC

PoE IPC

NVR

PC