

# DH-PFS5452-48GT4XF-400

## Dahua 48-Port Gigabit Managed PoE Switch



- Support static route, realizing layer 3 forwarding for network data.
- Support virtual stack, virtualizing several switches into one to improve reliability and simplify configuration and management.
- Support 10 Gbps uplink with 4 ports, realizing big data transmission without lags.
- Support various management types.

### Series Overview

DH-PFS5452-48GT4XF-400 is a layer 2+ gigabit managed PoE switch that supports 48\*10/100/1000 Mbps auto-negotiation ports and 4\* Ten-gigabit ports (SFP + optical fiber port). It can be used to connect upstream devices with higher bandwidth. Combined with Dynamic memory allocation, store and forward technique is adopted to ensure that bandwidth is allocated to every port effectively. It supports port-based VLAN ACL, achieving network surveillance, traffic policing, priority remark and data forward control. It supports STP/RSTP/MSTP to protect against layer 2 link attacks and strengthen the capability of fault tolerance and redundant backup, stabilizing network effectively. It supports time-based ACL control to meet the need of accurate time control access and supports port-based and MAC-based 802.1x authentication, making user access rights easy to set. And it features refined QoS and various VLAN functions for easy management and maintainance.

### Functions

#### Static Route

Support static route, realizing layer 2+ forwarding for network data.

#### Virtual Stack

Support virtual stack, virtualizing several switches into one to improve reliability and simplify configuration and management.

#### 10 Gbps uplink

Support 10Gbps uplink with 4 ports, realizing big data transmission without lags.

#### Various Management Type

Support Telnet, SSH, SNMP, cluster network management, and WEB.

### Scene

It meets the networking and access requirements of enterprises, intelligent communities, hotels, office and campus networks. The built-in wide voltage input design power supply features high reliability so that even if the grid voltage is unstable, it ensures the proper function of equipments.

### Technical Specification

#### Performance

Layer	Layer 2+
Managed	Yes

#### Hardware

Standard Power Supply	Yes
PoE	Yes
Ethernet Port	48
Optical Port	4
Ethernet Port Rate	1 Gbps
Optical Port Rate	10 Gbps
Modular/Fixed	Fixed
Debugging	Debugging
Power Supply	100V~240V AC
Operating Temperature	0°C to 45°C (32°F to 113°F)
Operating Humidity	10%~90%
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Storage Humidity	5%~90%
Power Consumption	Idling: 39.7W Full load: 473.7W

#### Performance

Switching Capacity	176 Gbps
Packet Forwarding Rate	130.944 Mpps
Packet Buffer Memory	12 Mbits
MAC Table Size	16K
Router Ports	256
IPv4 Routing Table	511

QoS Queue	8
Classification Rules	2
IPv4 ACL Amount	128
Traffic Limit Granularity	64K
ACL Traffic Limit Granularity	64K
Standards Compliance	IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3az, IEEE 802.3ae, IEEE802.3x, IEEE802.3z, IEEE802.3ad, IEEE802.1P, IEEE802.1Q, IEEE802.3af, IEEE802.3at

PoE

PoE Standard	IEEE802.3af, IEEE802.3at
PoE Budget	400W
PoE Management	Yes
PoE Pin Assignment	1/2(+), 3/6(-)
Long Distance PoE Transmission	No

Function

IPv4	ARP Proxy; DHCP Relay; DHCP Server; Static Route; RIP; OSPF
IPv6	Support ICMPv6
ACL	Yes
Jumbo Frame	12 KB
ARP	Static table items; Free ARP
MAC Address Table	16K
Spanning Tree Protocol	STP, RSTP, MSTP, ERPS
VLAN	base on MAC/protocol/IP subnet/Strategy/port VLAN; Dot1q tunnel; GVRP; VLAN-translation; MAC Adress auto learning and aging; source MAC address filter
Flow Control	Support flow control based on IEEE802.3X
Link Aggregation	Support IEEE 802.3ad (Link Aggregation)
Port Mirroring	Yes
Multicast	IGMP Snooping IPv6 Multicast; MLD
DHCP	DHCP relay; DHCP Server; DHCP Snooping
Security	ACL; 802.1x, Radius authentication; DoS attack protection
QoS	SPQ, WRR, SP+WRR, WFQ, SP+WFQ
ARP Table Size	8K
VLAN Amount	4K
Routing Table	256

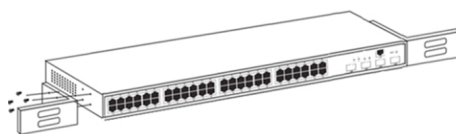
System Maintenance	upload and download of configuration file; upload of upgrade package; system log
Device Management	Web; Telnet; CLI; SNMP V1/V2C/V3

General

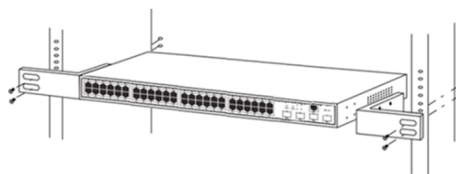
ESD	Air discharge: 2kV Contact discharge: 1kV
Thunderproof	Common mode: ±2kV
Net Weight	4.5 kg (9.92 lb)
Gross Weight	4.8 kg (10.58 lb)
Product Dimensions	440 mm × 330 mm × 44.5 mm (17.32" × 12.99" × 1.75")
Packaging Dimensions	494 mm × 482 mm × 113 mm (19.45" × 18.98" × 4.45")

Installation

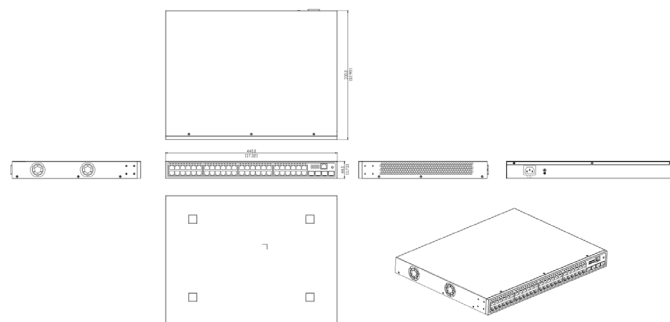
Step 1: Attach the mounting bracket to the side panel of the switch and secure it with the screws provided



Step 2: Install the switch to the rack with the screws provided



Dimensions (mm[inch])



Application

