dahua
TECHNOLOGY

8-port Managed PoE Gigabit Ethernet Switch

Layer 2 PoE, PoE+, and Hi-PoE Switch

- Layer 2 Network Management PoE Ethernet Switch
- Network Redundancy: STP, RSTP, MSTP
- SNMP Network Management
- MAC Auto Study and Aging
- 8K MAC Address List Capacity
- Supports PoE (IEEE802.3af), PoE+ (IEEE802.3at), and Hi-PoE Standards
- Meets the Class B Electromagnetic Compatibility Standard

Product Overview

The 8-port managed desktop gigabit switch is designed for field transmission applications and for high-definition video. The switch is equipped with a high-performance switching engine, a large buffer, low transmission delay, and high reliability. The switch is housed in a sealed, metal case that offers low power consumption, fanless operation, and efficient surface heat dissipation. In addition to the eight (8) PoE ports, the switch offers two (2) Base-X ports and (2) standard uplink ports.

The switch meets the Class B electromagnetic compatibility standard, so it can be deployed in residential, commercial, and light industrial applications.
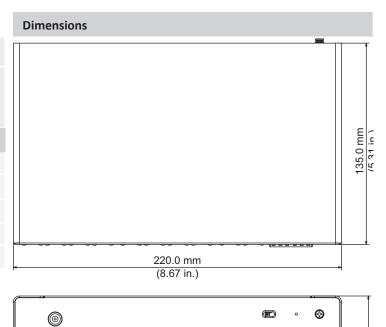
Intelligent PoE

The switch features Intelligent PoE power consumption management to help keep the power and the 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. For example, if the switch has eight PoE ports and each port is connected to a network camera, the switch disables port number 8 first, then subsequent ports until the power budget is below the threshold wattage.

Technical Specification

Ethernet Ports	Ports 1 through 8: 10/100/1000 Base-T, RJ45 Ports 9 and 10: 10/100/1000 Base-T, RJ45 Ports 11 and 12: Two (2) 1000 Base-X, RJ45
PoE Power Consumption	Ports 1 and 2: ≤ 60 W (Hi-PoE) Ports 3 through 8: ≤ 30 W Total Power Consumption: ≤ 96 W
PoE Protocol	PoE (IEEE802.3af), PoE+ (IEEE802.3at), Hi-PoE
PoE PIN Assignment	PoE: 1, 2, 4, 5 (V+), 3, 6, 7, 8 (V-); Hi-PoE: 1, 2, 4, 5 (V+), 3, 6, 7, 8 (V-)
Switching Capacity	52 Gbps
Packet Forwarding Rate	17.856 Mpps
Packet Buffer Memory	4 Mbs
MAC Table Size	8K
Power Input	48 VDC to 57 VDC
Power Consumption	Idle: 12 W PoE Full Load: 96 W
Operating Temperature	−10° C to 55° C (14° F to 131° F)
Operating Humidity	5% to 95%, Relative
Surge Protection	Common Mode: 2 KV Differential Mode: 1 KV Class B Electromagnetic Compatibility Standard
Dimensions (W x D x H)	220.0 mm x 135.0 mm x 30.0 mm (8.67 in. x 5.31 in. x 1.18 in.)
Weight	0.84 kg (1.85 lb)

Service Specification

System	Username/Password: admin/admin
	IP Address: 192.168.1.110/24
NTP	Support
DHCP	DHCP Client/Server
VLAN	802.1Q Standard VLAN
Spanning Tree	STP, RTSP, MSTP
Port Aggregation	Static link aggregation, Dynamic link aggregation
Port Mirroring	Many-to-One Port Mirroring
Flow Control	Half-duplex based on back pressure type control
	Full Duplex based on PAUSE Frame
IGMP Snooping	Based on port
Security Features	User Management, SSH, HTTPS, MAC binding based on port, 802.1x, Loop Protection
ACL	Base MAC ACL, Base IP ACL
LLDP	Support
MAC Table	MAC Address Table Configuration
System Maintenance	One-key recovery by default Updated Packet Upload System Log
Quality of Service	Supports 8 output queues, Port shaping, QoS based on DCSP, SP, and WRR queue scheduling
Network Management	Web (HTTP Protocol), CLI, Telnet, SNMP V1, V2, V3

Certifications

Safety	EN 62368-1:2014 + A11:2017
Electromagnetic Compatibility (EMC)	CFR 47 FCC Part 15 subpart B EN55032:2015, EN61000-3-2:2014, EN61000-3-3:2013, EN55024:2010+A1:2015, EN55035:2017, EN50130-4:2011+A1:2014

Ordering Information

Type	Part Number	Description
PoE Switch	DH-PFS4212-8GT-96	Layer 2 12-port Managed Gigabit PoE Switch
Accessories, optional	PFT3950	1.25 GB, 850 nm, 500 m, LC, Multi-mode
	PFT3960	1.25 GB, 1310/1550 nm, 20 km, LC, Single Mode
	PFT3970	1.25 GB, 1550/1310 nm, 20 km, LC, Single Mode

Dimensions

135.0 mm
(5.31 in.)

220.0 mm
(8.67 in.)

0.0 mm