8-port Industrial Gigabit PoE Switch
Managed Layer 2 PoE Switch

- Layer 2 Managed Industrial PoE Switch
- Supports IEEE802.3af, IEEE802.3at, and Hi-PoE (60 W) Standards
- Supports STP/RTSP/MSTP for Network Redundancy
- Rich L2 Features, Including: VLAN, Link Aggregation, IGMP Snooping
- Web, SNMP, and CLI Management
- Ability to Daisy Chain Positive Terminals
- IP40 Ingress Protection, Fully-sealed Metal Enclosure
- Dual Power Input for Power Redundancy
- Wide Temperature Range for Industrial Applications

System Overview

The DH-PFS4210-8GT-DP is an 8-port Gigabit PoE Industrial Switch supports the IEEE 802.3af/at standard. Two of the ports support Hi-PoE to provide 60 W via a single port. The switch DH-PFS4210-8GT-DP is a Layer 2 managed industrial PoE switch and supports Web, SNMP and also CLI network management. The switch also supports ring network redundancy using standard STP/RSTP/MSTP protocols and also supports rich features such as VLAN, Link Aggregation, Port Mirroring, Flow Control, IGMP Snooping, SNMP, ROMN, ACL, QoS, and Static IP Routing.

The switch is IP40-rated and DIN-rail mountable. It supports dual power input for power redundancy and wide working temperature range. The switch also provides high EFT and ESD protection for industrial networking applications such as outdoor security surveillance, ITS, power, factory and other outdoor or harsh environments.

Electrical

Power Requirements		48 VDC to 57 VDC, 2.6 A to 3 A
Power Consumption	Static	≤ 6 W
	Full Load	≤ 120 W

Environmental

Working Temperature	–40° C to 75° C (–40° F to 167° F)
Application Humidity	10% to 90%

Interface

RS232 Serial Console	One (1) Port
RS485	Two (2) Ports (9600 Baud Rate, TCP/UDP)
I/O	One (1) Input One (1) Output

Construction

Dimensions (W x D x H)	175.0 mm x 134.0 mm x 53.0 mm (6.89 in. x 5.28 in. x 2.09 in.)
Weight	1.25 kg (2.76 lb)
Mounting	DIN-rail

Certifications

Safety	EN 60950-1:2006+A11:2009+A1:2010+A12:2001+A2:2013
Electromagnetic Compatibility (EMC)	FCC CFR 47 Part 15 subpart B EN 55024:2010+A1:2015, EN 55032:2015, EN50130-4:2011+A1:2014, EN 55035:2017 EN 6100-3-3:2013, IEC 61000-3-2:2014, IEC 61000-3-3:2013,
Lightning Protection	Common Mode: 6KV Differential Mode: 4KV
Ingress Protection	IP40

Technical Specification

Ethernet Ports	
Console Port	Command Line Interface (CLI) Port for Web configuration
Uplink Ports	Two (2) 1000 Base-X Ports
Downstream Ports	Eight (8) 10/100/1000 Base-T Ports (PoE Power Supply)

PoE Features	• IEEE802.3af, IEEE802.3at: Ports 3 to 10
	  Consumption: Up to 30 W per port
	• Hi-PoE: Ports 1 and 2
	  Consumption: up to 60 W per port
	• Total PoE Budget: ≤ 120 W

PoE PIN Assignment	1, 2 (V+), 3, 6 (V-) 1, 2, 4, 5 (V+), 3, 6, 7, 8 (V-)
Switching Capacity	28 Gbps
Packet Forwarding Rate	14.88 Mpps
Packet Buffer Memory	4 MB

Service Characteristics

MAC Address Table	8K
NTP	Support
DHCP	DHCP Client/Server DHCP Snooping
VLAN	802.1Q
Port Aggregation	Manual Aggregation / LACP
Port Mirroring	Many-to-One
Flow Control	• Half-duplex Based on Back Pressure Type Control • Full-duplex Based on PAUSE Frame
Multicast	IGMP Snooping v1, v2, v3
Security	• User Management • SSH • HTTPS • SNMP v1, v2, v3 • ROMN • ACL • IP Source Guard • ARP Inspection • 802.1x • Loop Protection
Spanning Tree	STP/RSTP/MSTP
LLDP	Support
Quality of Service	• QoS Based on CoS, DPL, PCP, DEI • 8-output Queue (each port) • Port Shaping • Port Tag Remarking • QoS Based on DSCP
System Maintenance	• Configuration File Upload/Download • Firmware Upgrade • System Logs
Network Management	• HTTP Protocol • SNMP • CLI

Ordering Information

Type	Part Number	Description
PoE Switch	DH-PFS4210-8GT-DP	8-port Industrial Managed 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 (mm)