

# 8-port Industrial Gigabit PoE Switch

## Managed Layer 2 PoE Switch



### 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.

### 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           | <ul style="list-style-type: none"> <li>IEEE802.3af, IEEE802.3at: Ports 3 to 10 Consumption: Up to 30 W per port</li> <li>Hi-PoE: Ports 1 and 2 Consumption: up to 60 W per port</li> <li>Total PoE Budget: ≤ 120 W</li> </ul> |
| PoE PIN Assignment     | 1, 2 (V+), 3, 6 (V-)<br>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  |

- 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

### Electrical

|                    |   |         |
|--------------------|---|---------|
| Power Requirements | 9 VDC to 57 VDC or PoE (48 VDC to 57 VDC) |         |
| 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<br>One (1) Output         |

### Construction

|                        |   |
|------------------------|---|
| Dimensions (W x D x H) | 175.0 mm x 134.0 mm x 53.0 mm<br>(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<br>EN 55024:2010+A1:2015, EN 55032:2015,<br>EN50130-4:2011+A1:2014, EN 55035:2017<br>EN 6100-3-3:2013, IEC 61000-3-2:2014,<br>IEC 61000-3-3:2013, |
| Lightning Protection                | Common Mode: 6KV<br>Differential Mode: 4KV   |
| Ingress Protection                  | IP40   |

| Service Characteristics |   |
|-------------------------|---|
| MAC Address Table       | 8K  |
| NTP                     | Support   |
| DHCP                    | DHCP Client/Server<br>DHCP Snooping   |
| VLAN                    | 802.1Q  |
| Port Aggregation        | Manual Aggregation / LACP   |
| Port Mirroring          | Many-to-One   |
| Flow Control            | <ul style="list-style-type: none"> <li>Half-duplex Based on Back Pressure Type Control</li> <li>Full-duplex Based on PAUSE Frame</li> </ul>   |
| Multicast               | IGMP Snooping v1, v2, v3  |
| Security                | <ul style="list-style-type: none"> <li>User Management</li> <li>SSH</li> <li>HTTPS</li> <li>SNMP v1, v2, v3</li> <li>ROMN</li> <li>ACL</li> <li>IP Source Guard</li> <li>ARP Inspection</li> <li>802.1x</li> <li>Loop Protection</li> </ul> |
| Spanning Tree           | STP/RSTP/MSTP   |
| LLDP                    | Support   |
| Quality of Service      | <ul style="list-style-type: none"> <li>QoS Based on CoS, DPL, PCP, DEI</li> <li>8-output Queue (each port)</li> <li>Port Shaping</li> <li>Port Tag Remarking</li> <li>QoS Based on DSCP</li> </ul>  |
| System Maintenance      | <ul style="list-style-type: none"> <li>Configuration File Upload/Download</li> <li>Firmware Upgrade</li> <li>System Logs</li> </ul>   |
| Network Management      | <ul style="list-style-type: none"> <li>HTTP Protocol</li> <li>SNMP</li> <li>CLI</li> </ul>  |

| 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)

