

# DH-PFS3110-8ET1GT1GF-96

10-Port Unmanaged Desktop Switch with 8-Port PoE



- 100 Mbps PoE ports and gigabit uplink ports.
- The red port meets the IEEE 802.3bt standard.
- Power supply supports up to 90 W.
- PoE watchdog monitors the status of terminals in real-time.
- Supports 250 m long-distance power supply.
- Supports the power management policy.
- 8-pin PoE offers better compatibility and reduces cable loss.
- Durable full-metal housing provides great heat dissipation.



## System Overview

PFS3110-8ET1GT1GF-96 is an unmanaged Desktop PoE Switch with 8 × 10/100 Mbps PoE Ports. It provides 8 × 10/100 Mbps Ethernet ports, 1 × 1000 M SFP and 1 × 10/100/1000 Mbps uplink ports. The product is equipped with two types of transmission modes (Extend Mode On/Extend Mode Off). The red port supports the IEEE802.3bt and the Hi-PoE standards. The maximum power consumption is 90W. It also supports PoE watchdog to avoid manual maintenance and device restart, which can realize the intelligent management and reduce the cost.

## Functions

### Intelligent PoE

Provides power consumption control and real-time monitoring to guarantee priority of power supply for important ports and prevent malfunctioning caused by power consumption change. Supports ultra wide power supply, able to adapt to IPC power fluctuation.

### Red Port 90 W

The red ports support IEEE802.3af, IEEE802.3at, IEEE802.3bt and Hi-PoE standards, with a maximum output power consumption of 90W per port. Suitable for powering high-power devices.

### PoE Watchdog

Adopts the innovative PoE Watchdog. PoE Watchdog can be switched on by dialing/turning on the WEB page switch. It enables the switch to automatically detect port status and restart the failed ports to recover connection in case of IPC connection exception. This enables intelligent operation and maintenance management in its true sense and effectively reduces manual maintenance costs.

### Long Distance PoE

By dialing or enabling long-range transmission on the WEB interface, the transmission distance of a PoE port can be up to 250 m, meeting the requirement of wired transmission (bandwidth reduced to 10 Mbps).

## Eight-pin PoE

Supports 8-pin simultaneous power supply (1/2/4/5 positive, 3/6/7/8 negative). Signal lines and idle lines supply power at the same time. Compatibility with IPC is enhanced. Cable loss is reduced. Loading capacity is increased.

## Wide Operating Temperature

Supports working at ambient temperatures of -10 °C to +55 °C, and has built-in professional mine-proof circuits, effectively reducing the impact of thunderstorms on network systems and improving system robustness, adapted to harsh environments.

## Scene

Suitable for small-scale scenes such as offices, schools, hotels, supermarkets, and hospitals.

## Technical Specification

### Hardware

|                               |                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------|
| Included Power Adapter        | Yes                                                                                                |
| PoE                           | Yes                                                                                                |
| Ethernet Port                 | 8                                                                                                  |
| Ethernet Port Speed           | 10/100 Mbps                                                                                        |
| Ethernet Port Uplink Speed    | 10/100/1000 Mbps                                                                                   |
| Optical Port Uplink Speed     | 1 Gbps                                                                                             |
| Description of Function Slots | Port 1-8: 8 × 10/100 Base-T (PoE)<br>Uplink 1: 1 × 10/100/1000 Base-T<br>Uplink 2: 1 × 1000 Base-X |
| Power Supply                  | 53 VDC, 1.81 A                                                                                     |
| Operating Temperature         | -10 °C to +55 °C (+14 °F to +131 °F)                                                               |
| Operating Humidity            | 10%–90% (RH)                                                                                       |
| Storage Temperature           | -40 °C to +70 °C (-40 °F to +158 °F)                                                               |
| Storage Humidity              | 5%–95% (RH)                                                                                        |

|                   |                                |
|-------------------|--------------------------------|
| Power Consumption | Idling: 3 W<br>Full load: 96 W |
|-------------------|--------------------------------|

Performance

|                        |                                                 |
|------------------------|-------------------------------------------------|
| Layer                  | Unmanaged                                       |
| Management Type        | No                                              |
| Smart Managed Switch   | No                                              |
| MTBF                   | 105.24 year                                     |
| Switching Capacity     | 5.60 Gbps                                       |
| Packet Forwarding Rate | 4.17 Mpps                                       |
| Packet Buffer Size     | 4 Mbit                                          |
| Jumbo Frame            | 9K Byte                                         |
| MAC Table Size         | 8K                                              |
| Communication Standard | IEEE802.3; IEEE802.3u; IEEE 802.3ab; IEEE802.3x |

PoE

|                                  |                                                  |
|----------------------------------|--------------------------------------------------|
| PoE Protocol                     | IEEE 802.3af; IEEE 802.3at; Hi-PoE; IEEE 802.3bt |
| PoE Power                        | Port 2-8 ≤30 W, port 1 ≤90 W, total ≤96 W        |
| PoE Power Consumption Management | Yes                                              |
| PoE Pin Assignment               | 1, 2, 4, 5 (V+), 3, 6, 7, 8 (V-)                 |
| Long Distance PoE Transmission   | Yes                                              |

General

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Statics Protection   | Air discharge: 8 kV<br>Contact discharge: 6 kV   |
| Lighting Protection  | Common mode: 4 kV<br>Differential mode: 2 kV     |
| Net Weight           | 0.65 kg (1.43 lb)                                |
| Gross Weight         | 1.4 kg (3.09 lb)                                 |
| Product Dimensions   | 240 mm × 105 mm × 28 mm (9.45" × 4.13" × 1.10")  |
| Packaging Dimensions | 279 mm × 239 mm × 89 mm (10.98" × 9.41" × 3.50") |
| Casing Material      | Metal                                            |
| Installation         | Desktop mount                                    |
| Certifications       | CE; FCC                                          |

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

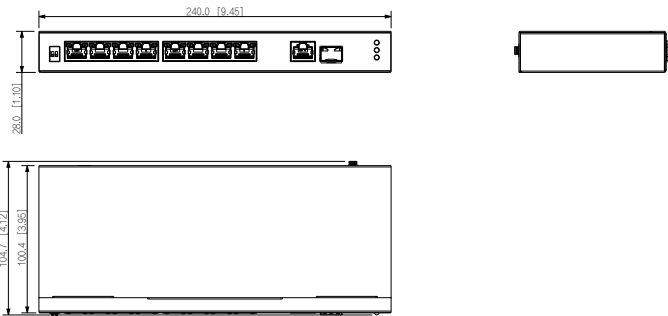
|     |    |     |
|-----|----|-----|
| 100 | 53 | 100 |
| 150 | 50 | 10  |
| 200 | 47 | 10  |
| 250 | 37 | 10  |

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.

Installation



Ordering Information

|            |                   |                                          |
|------------|-------------------|------------------------------------------|
| SFP module | GSFP-1310T-20-SMF | 1.25G 1310/1550nm, 20km, LC, Single-mode |
|            | GSFP-1310R-20-SMF | 1.25G 1550/1310nm, 20km, LC, Single-mode |
|            | GSFP-1310-20-SMF  | 1.25G 1310nm,20km,LC, Single-mode        |
|            | GSFP-850-MMF      | 1.25G 850nm,550m,LC, Multi-mode          |