# DH-PFS3211-8GT-120

## 11-Port Unmanaged Desktop Switch with 8-Port PoE

* The parameters and datasheets below can only be applied to V2.0 (version 2.0)

- Intelligent PoE
- 8-pin assignment PoE power supply
- Long distance PoE
- PoE watchdog
- BT 90W
- All-giga ports
- Wide working temperature


## System Overview

DH-PFS3211-8GT-120 is an unmanaged Hardened PoE Switch with 8 × 10/100/1000 Mbps PoE Ports. It provides 8 × 10/100/1000 Mbps Ethernet ports , 2 × 1000 Mbps uplink SFPs and 1 ×10/100/1000 Mbps Ethernet 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 120W. It also supports PoE watchdog to avoid manually maintenance and device restart, which can realize the intelligent management and reduce the cost.

## Functions

**Intelligent PoE**

Provides control over power consumption and offers real-time monitoring to ensure power supplies receive priority with important ports and to prevent malfunctions caused by changes in power consumption. Supports ultra wide power supplies and is able to adapt to IPC power fluctuations.

**BT 90W**

The red ports support IEEE802.3af, IEEE802.3at, IEEE802.3bt and Hi-PoE standards, with a maximum output power consumption rate 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 or turning on the WEB page switch. It enables the switch to automatically detect port status and restart failed ports to recover connection in case of IPC connection exception. This enables intelligent operation and maintenance management in its truest sense, effectively reducing 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 requirements of wired transmission (bandwidth reduced to 10 Mbps).

**8-pin Assignment PoE Power Supply**

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.

## Scene

The device is applicable for use in different scenarios, including home, office, server farm, and small mall.

## Specification

### Hardware Feature

| | |
|---|---|
| Ethernet Port | Port 1-8: 8 × RJ-45 10/100/1000 Mbps (PoE)<br>Port 9-10: 2 × SFP 1000 Mbps (uplink)<br>Port 11: 1 × RJ-45 10/100/1000 Mbps (uplink) |
| PoE Power Consumption | Port 1-2≤ 90W, Port 3-8 ≤30W, Total≤120W |
| Power Consumption | Idling: 5 W<br>Full load: 120 W |
| Standard | IEEE802.3/IEEE802.3u/IEEE802.3X/IEEE 802.3az/IEEE 802.3ab |

### PoE

| | |
|---|---|
| PoE Protocol | IEEE 802.3af/ IEEE 802.3at/ Hi-PoE/IEEE 802.3bt |
| Power Supply Pin | 1,2,4,5 (V+),3,6,7,8 (V-) |
| Long Distance | 250 m long distance PoE transmission |
| PoE Power Management | Yes |
| PoE Watchdog | Yes |

### Performance

| | |
|---|---|
| Switching Capacity | 33 Gbps |
| Packet Forwarding Rate | 16.37 Mpps |
| Packet Buffer Memory | 1.75 Mbit |
| Flow Control | Enable by default |
| Working Temperature | –30 °C to +65 °C (-22°F to +149°F) |
| Application Humidity | 5%~95% (RH) |

### General

| | |
|---|---|
| Power Input | 48 V- 57 V DC |
| Lighting Protection | Common mode 4 kV<br>Differential mode 2 kV |
| ESD Protection | Air discharge 8 kV<br>Contact discharge 6 kV |
| Wall-mount Installation | Yes |
| Anti-theft Lock Hole | Yes |
| Weight | 0.67 kg (1.48 lb) |
| Dimension | 150mm × 110mm × 42mm (5.91" × 4.33" × 1.65") |

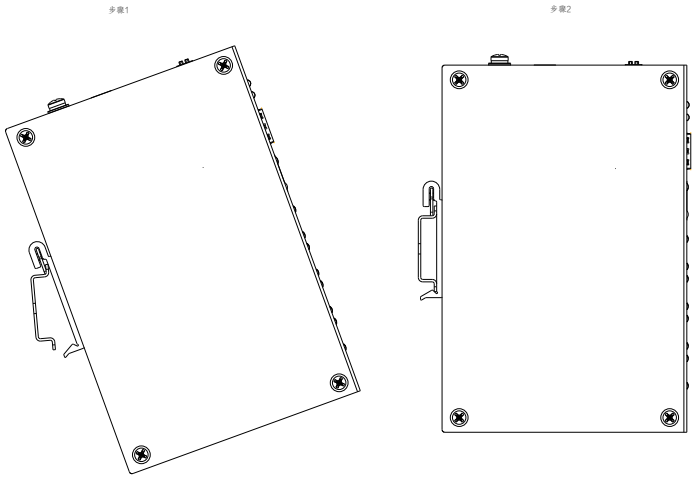
## Transmission Performance:

Switch power supply voltage 53V.
CAT5E/CAT6. Max. DC resistance < 10Ω/100m

| Cable(m) | Load Capacity(W) | Bandwidth(Mbps) |
|---|---|---|
| IEEE802.3bt 90W | | |
| 100 | 71.3 | 100 |
| 150 | 62 | 10 |
| 200 | 51 | 10 |
| 250 | 40 | 10 |
| Hi-PoE 60W | | |
| 100 | 53 | 100 |
| 150 | 50 | 10 |
| 200 | 47 | 10 |
| 250 | 37 | 10 |
| IEEE802.3at 30W | | |
| 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 . If there is inconsistency between field application and the table, the field result shall prevail.

## Installation



## Dimensions (mm[inch])