

# DH-PFS3009-8ET-96

9-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.
- Red port supports 90W IEEE802.3bt.
- 8-pin assignment PoE power supply.
- 250 m long distance PoE transmission.
- PoE watchdog.
- Wide working temperature.



## System Overview

DH-PFS3009-8ET-96 is an unmanaged Desktop Switch with 8 × 10/100Mbps PoE Ports. It provides 8 × 10/100 Mbps Ethernet ports and 1 × 10/100 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 manually 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 90W

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.

## Scene

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

| Technical Specification        |                                                                                 |
|--------------------------------|---------------------------------------------------------------------------------|
| Hardware                       |                                                                                 |
| Included Power Adapter         | Yes                                                                             |
| PoE                            | Yes                                                                             |
| Ethernet Port                  | 8                                                                               |
| Optical Port                   | 0                                                                               |
| Ethernet Port Speed            | 10/100 Mbps                                                                     |
| Ethernet Port Uplink Speed     | 10/100 Mbps                                                                     |
| Description of Function Slots  | Port 1–8: 8 × RJ-45 10/100 Mbps (PoE)<br>Port 9: 1 × RJ-45 10/100 Mbps (Uplink) |
| Power Supply                   | External power supply: 48–57 VDC, 2–1.68 A                                      |
| Operaing Temperature           | –10 °C to +55 °C (+14°F to +131°F)                                              |
| Operatng Humidity              | 5% – 95% (RH)                                                                   |
| Power Consumpton               | Idling: 1.5 W<br>Full load: 96 W                                                |
| Performance                    |                                                                                 |
| Layer                          | Layer 2                                                                         |
| Management Type                | No                                                                              |
| Smart Managed Switch           | No                                                                              |
| Switching Capacity             | 1.8 Gbps                                                                        |
| Packet Forwarding Rate         | 1.34 Mpps                                                                       |
| Packet Buffer Size             | 768 kbit                                                                        |
| MAC Table Size                 | 2K                                                                              |
| Communication Standard         | IEEE 802.3; IEEE 802.3u; IEEE 802.3x                                            |
| Feature                        |                                                                                 |
| PoE Protocol                   | IEEE802.3af; IEEE802.3at; Hi-PoE; IEEE802.3bt                                   |
| PoE Power                      | 96 W                                                                            |
| Power Consumption Management   | Yes                                                                             |
| PoE Pin Assignment             | 1, 2, 4, 5 (V+), 3, 6, 7, 8 (V-)                                                |
| ePoE                           | No                                                                              |
| Long Distance PoE Transmission | Yes                                                                             |
| PoE Watchdog                   | 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                     | 0.49 kg (1.08 lb)                                                               |

|                      |                                                                 |
|----------------------|-----------------------------------------------------------------|
| Gross Weight         | 1.3 kg (2.87 lb)                                                |
| Product Dimensions   | 190 mm × 100 mm × 30 mm (7.48" × 3.94" × 1.18")<br>(L × W × H)  |
| Packaging Dimensions | 267 mm × 239 mm × 77 mm (10.51" × 9.41" × 3.03")<br>(L × W × H) |
| Casing Material      | Iron                                                            |
| Installation         | Desktop mount; wall mount                                       |
| Certifications       | CE; FCC                                                         |

| Transmission Performance:                                                                                                                                                                    |                  |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|
| Switch power supply voltage 53V.<br>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 .<br>If there is inconsistency between field application and the table, the field result shall prevail. |                  |                 |



