# DH-S3218-16ET-135

## 18-Port Unmanaged Desktop Switch with 16-Port PoE



- 16 × RJ-45 10/100 Mbps (PoE) ports, 2 × RJ-45 10/100/1000 Mbps (combo) ports and 2 × SFP 1000 Mbps (combo) ports.
- Meets the requirements of IEEE802.3af, IEEE802.3at, Hi-PoE, and IEEE802.3bt power supply standards.
- PoE watchdog real-time monitors camera statues and automatically reboots faulty network cameras.
- Up to 250 m transmission distance.
- Supports VIP ports, prioritizing transmission for port1 to port8.




## System Overview

The PoE Switch is an unmanaged switch with a high-performance switch engine and large cache. It provides smooth transmission of video streams. It has 4 DIP switches and supports PoE watchdog, long distance PoE, VIP port and port isolation. The red port supports the IEEE802.3bt and the Hi-PoE standards and generates up to 90W. It can operate in temperatures ranging-10°C to 55°C. It offers EMC and has protection against overvoltage, overcurrent, static electricity, lightning strikes, pulses and other types of interference.

## Functions

**BT 90W (Red Port)**

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.

**Long Distance PoE**

The transmission distance of a PoE port can be up to 250 m, meeting the requirement of wired transmission (bandwidth reduced to 10 Mbps).

**PoE Watchdog**

Adopts the innovative PoE Watchdog. 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.

**Port Isolation**

Devices under different ports are prevented from communicating with each other, without need of VLAN being configured. Data is also protected from being leaked from the PoE ports and broadcast storms are isolated, making the network safe and easy to use.

## Scene

Suitable for scenes such as houses, factories and offices.

## Specification

### Hardware Feature

| | |
|---|---|
| Included Power Adapter | Yes |
| PoE | Yes |
| Ethernet Port | 16 |
| 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 1-16: 16 × RJ-45 10/100 Mbps;<br>Port 17-18: 2 × RJ-45 10/100/1000 Mbps (Combo);<br>Port 17-18: 2 × SFP 1000 Mbps (Combo) |
| Power Supply | Built-in power supply: 100-240 VAC, 50/60 Hz, 3 A |
| Operating Temperature | –10 °C to +55 °C (+14 °F to +131 °F) |
| Operating Humidity | 5%–95% (RH), non-condensing |
| Storage Temperature | –40 °C to +75 °C (–40 °F to +167 °F) |
| Storage Humidity | 5%–95% (RH), non-condensing |
| Power Consumption | Idling: ≤6 W ; Full load: 154 W |

### Performance

| | |
|---|---|
| Management Type | No |
| Switching Capacity | 7.2 Gbps |
| Packet Forwarding Rate | 5.36 Mpps |
| Packet Buffer Size | 4 Mbit |
| Jumbo Frame | 15K Byte |
| MAC Table Size | 8 K |
| Communication Standard | IEEE802.3; IEEE802.3u; IEEE802.3x; IEEE802.3ab; IEEE802.3z |

### Feature

| | |
|---|---|
| PoE Protocol | IEEE802.3af; IEEE802.3at; Hi-PoE; IEEE802.3bt |
| PoE Power | Port 1-2 ≤ 90 W, Port 3-16 ≤ 30 W, total ≤ 135 W |
| 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; Contact discharge: 6 kV |
| Lighting Protection | Common mode: 4 kV; Differential mode: 2 kV |
| Net Weight | 2.23 kg (4.92 lb) |
| Gross Weight | 2.88 kg (6.35 lb) |
| Product Dimensions | 440 mm × 220 mm × 44 mm (17.32" × 8.66" × 1.73") (L × W × H) |
| Packaging Dimensions | 540 mm × 342 mm × 90 mm (21.26" × 13.46" × 3.54") (L × W × H) |
| Casing Material | Sheet metal |
| Installation | Rack mount;Desktop mount |
| Certifications | CE |

## Transmission Performance:

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

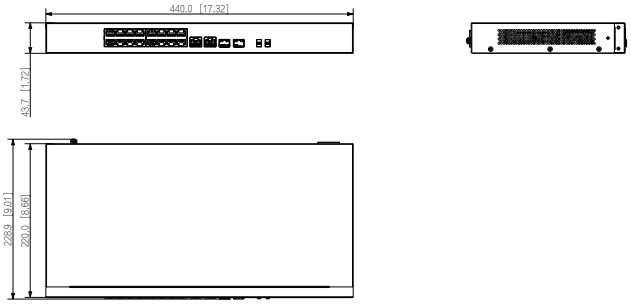
| Cable(m) | Load Capacity(W) | Bandwidth(Mbps) |
|---|---|---|
| IEEE802.3bt 90 W | | |
| 100 | 71.3 | 100 |
| 150 | 62 | 10 |
| 200 | 51 | 10 |
| 250 | 40 | 10 |
| Hi-PoE 60 W | | |
| 100 | 53 | 100 |
| 150 | 50 | 10 |
| 200 | 47 | 10 |
| 250 | 37 | 10 |
| IEEE802.3at 30 W | | |
| 100 | 25.5 | 100 |
| 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.

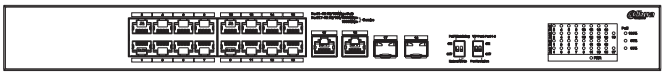
## Ordering Information

| Type | Model | Description |
|---|---|---|
| SFP Module | SFP-1310T-20-SMF | 155M 1310/1550 nm, 20 km, LC, Single-mode [optional] |
| | SFP-1310R-20-SMF | 155M 1550/1310 nm, 20 km, LC, Single-mode [optional] |
| | GSFP-1310-20-SMF | 1.25G 1310nm, 20km, LC, Single-mode[optional] |
| | GSFP-1310R-20-SMF | 1.25G 1550/1310 nm, 20 km, LC, Single-mode[optional] |
| | GSFP-1310T-20-SMF | 1.25G 1310/1550 nm, 20 km, LC, Single-mode [optional] |
| | SFP-850-MMF | 155M 850 nm, 2km, LC, Multi-mode [optional] |
| | GSFP-850-MMF | 1.25G 850 nm, 500 m, LC, Multi-mode [optional] |

## Dimensions (mm[inch])




## Panels



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