

# DH-S3218-16ET-240

18-Port Unmanaged Switch with 16-Port PoE



## Series Overview

The device is a 18-port unmanaged Switch with 16-port PoE. It has a high-performance switching engine and large buffer memory that provide smooth video stream transmission. With its full-metal and fanless design, the switch has great heat dissipation capabilities on its shell surface. Its embedded functional DIP switches support port isolation, connecting to long distance power supplies, PoE watchdog and QoS control. It supports both desktop and rack mount installation and comes with Gigabit uplink optical ports, meeting the needs of a variety of scenes.

## 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.

### 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.

- 100–240VAC wide voltage range design.
- High performance switch chip, no lag video.
- Supports IEEE802.3af, IEEE802.3at, Hi-PoE.
- Supports Intelligent PoE.
- Supports 250 m long-distance transmission mode,
- Supports PoE Watchdog.
- Supports Port isolation mode.
- Supports QoS mode of VIP ports.



### Wide Operating Temperature

Supports working at ambient temperatures of  $-10^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$ , and has built-in professional lightning-proof circuits that effectively reduce the impact of thunderstorms on network systems and improve system robustness, allowing the device to adapt to harsh environments.

### 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).

### 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.

### Hi-PoE 60W (Orange Port)

In addition to the IEEE802.3af and IEEE802.3at standards, orange port also supports a maximum power output of 60W for powering high-power devices.

## Technical Specification

### Hardware

Included Power Adapter	Yes
PoE	Yes
Ethernet Port	16
Optical Port	2
Ethernet Port Speed	10/100 Mbps
Optical Port Speed	1 Gbps
Ethernet Port Uplink Speed	10/100/1000 Mbps
Optical Port Uplink Speed	1 Gbps
Description of Function Slots	Port 1-16: 16 × RJ45 10/100 Mbps (PoE) Port 17-18: 2 × RJ45 10/100/1000 Mbps (uplink) Port 17-18: 2 × SFP 1000 Mbps (uplink)(combo)
Power Supply	100–240 VAC
Operating Temperature	–10 °C to 55 °C (14°F to 131°F)
Operating Humidity	10%–95% (RH), non-condensing
Storage Humidity	5%–95% (RH), non-condensing
Power Consumption	Idling: 6 W Full load: 240 W

### Performance

Layer	Layer 2
Management Type	No
Switching Capacity	8.8 Gbps
Packet Forwarding Rate	5.3568 Mpps
Packet Buffer Size	4 Mbit
MAC Table Size	8K
Communication Standard	IEEE802.3; IEEE802.3u; IEEE802.3X; IEEE802.3ab; IEEE 802.3z

### Feature

PoE Protocol	IEEE802.3af; IEEE802.3at; Hi-PoE
PoE Power	Port 1-2 ≤ 60 W, Port 3-16 ≤ 30 W, total ≤ 240 W
PoE Power Consumption Management	Yes
PoE Pin Assignment	PoE/Hi-PoE: 1, 2, 4, 5 (V+), 3, 6, 7, 8 (V-)
Long Distance PoE Transmission	Yes
QoS/ACL	The first 8 ports have priority for transmission

### General

Statics Protection	Air discharge: 8 kV Contact discharge: 6 kV
Lighting Protection	Common mode: 4 kV Differential mode: 2 kV
Net Weight	3.04 kg (6.70lb)

Gross Weight	4.24 kg (9.34lb)
Product Dimensions	440 mm × 300 mm × 44 mm (17.32" × 11.81" × 1.73")
Packaging Dimensions	527 mm × 412 mm × 110 mm (20.75" × 16.22" × 4.33")
Installation	Desktop mount; Rack mount
Certifications	CE; FCC

## 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

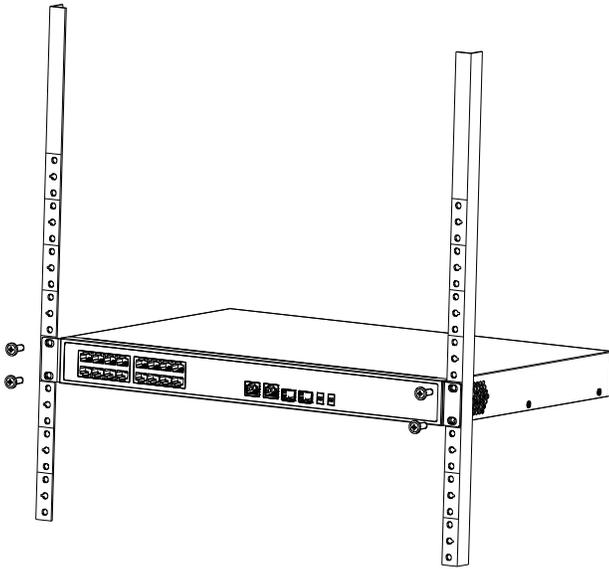
100	25.5	100
150	25.5	10
200	25.5	10
250	25.5	10

Note: Data from this table was collected by Dahua test lab and is for reference only. 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	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

## Installation



## Panels



## Dimensions (mm[inch])

