

DH-CS4220-16GT-135-PAK

20-Port Desktop Gigabit Switch with 16-Port PoE



PoE20

Series Overview

Highly intuitive, the Access Switch can be used in local networks. With its full metal design, the switch has great heat dissipation and can operate in temperatures ranging -10°C to 55°C (+14°F to +131°F). It offers EMC and has protection against overvoltage, overcurrent, static electricity, lightning strikes, pulses and other types of interference. For the PoE series Switch, power is supplied up to 250 meters away. The orange port supplies up to 60 W and the red port provides up to 90 W. Also, link aggregation and STP are available on select models to ensure the network remains stable. The switch can be used in small and medium-sized businesses such as supermarkets, offices, restaurants, cafés and hotels.

Functions

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).

- 16 × RJ45 Gigabit PoE ports, 2 × RJ45 Gigabit ports, 2 × SFP Gigabit ports.
- 135 W total PoE budget, 802.3af/at on all PoE ports, additional 802.3bt on red port.
- Wide operating temperature ranging from -10 °C to 55 °C.



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.

Spanning Tree Protocol (STP)

Uses algorithms that calculate the best loop-free path through a Layer 2 network while providing path redundancy to prevent the occurrence of broadcast storms and enhance the stability of operations and services.

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.

Scene

Suitable for scenes such as houses, factories and offices.

Technical Specification

Basic	
Layer	Layer 2
Switching Capacity	40 Gbps
Packet Forwarding Rate	29.76 Mpps
Description of Function Slots	Port 1-16: 16 × RJ45 10/100/1000 Mbps (PoE); Port 17-18: 2 × RJ45 10/100/1000 Mbps (uplink); Port 19-20: 2 × SFP 1000 Mbps (uplink)
Operating Temperature	−10 °C to +55 °C (+14 °F to +131 °F)
Operating Humidity	5%–95% (RH), non-condensing
Storage Temperature	−40 °C to +70 °C (−40 °F to +158 °F)
Storage Humidity	5%–95% (RH), non-condensing
Power Supply	Built-in power supply: 100–240 VAC, 47–63 Hz, max 3 A
Power Consumption	Idling: ≤8.3 W Full load: 154 W
Statics Protection	Air discharge: 8 kV Contact discharge: 6 kV
Lightning Protection	Common mode: 4 kV Differential mode: 2 kV
Net Weight	2.26 kg (4.97 lb)
Gross Weight	2.91 kg (6.40 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	Desktop mount; rack mount

PoE	
PoE	Yes
PoE Power	Port 1-2 ≤ 90 W, Port 3-16 ≤ 30 W, total ≤ 135 W
PoE Protocol	IEEE802.3af; IEEE802.3at; Hi-PoE; IEEE802.3bt
PoE Pin Assignment	1,2,4,5 (V+) ,3,6,7,8 (V-)
Long Distance PoE Transmission	Yes

Hardware	
Reset Button	1

Performance	
MTBF	86.94 years
Packet Buffer Size	4 Mbit
Jumbo Frame	15K Byte
MAC Table Size	8K
Communication Standard	IEEE 802.3 IEEE 802.3u IEEE 802.3x IEEE 802.3ab IEEE 802.3az IEEE 802.3z IEEE 802.3ad

VLAN Number	32
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Feature	
Ethernet Loop Protection	STP/RSTP
VLAN Function	IEEE 802.1Q VLAN
Link Aggregation	Static Aggregation
Port Feature	IEEE 802.3x Flow Control Unknown Unicast Suppression Multicast Storm Control Broadcast Storm Control MAC+Port Binding Loop Prevention
Mirror	N:1 Mirroring Local Port Mirroring
Reliability	LLDP
DHCP Function	DHCP Client
Security	Port Isolation

General	
Packing List	1 × Quick Start Guide 1 × Legal and Regulatory Information 1 × Power Cord 1 × Rack-mounting Kit

Transmission Performance

Switch power supply voltage 54V.
CAT6. Max. DC resistance < 8 Ω/100 m

Cable(m)	Load Capacity(W)	Bandwidth(Mbps)
IEEE802.3bt 90W		
100	71.3	1000
150	62	10
200	51	10
250	40	10

Hi-PoE 60W		
100	46	1000
150	42	10
200	37	10
250	32	10

IEEE802.3at 30W		
100	25.5	1000
150	25.5	10
200	25.5	10
250	24	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
PoE Switch	DH-CS4220-16GT-135-PAK	20-Port Desktop Gigabit Switch with 16-Port PoE
Accessories (Optional)	GSFP-850-MMF	SFP Optical Module
	GSFP-1310T-20-SMF	SFP Optical Module
	GSFP-1310-20-SMF	SFP Optical Module
	GSFP-1310R-20-SMF	SFP Optical Module

Accessories

Optional:



GSFP-1310-20-SMF
SFP Optical Module



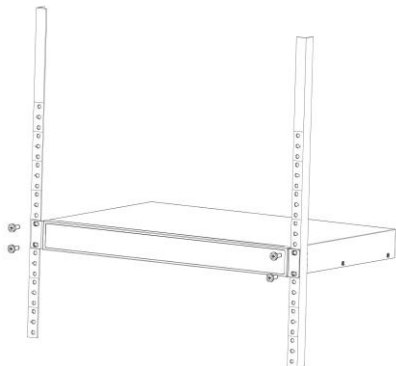
GSFP-1310R-20-SMF
SFP Optical Module



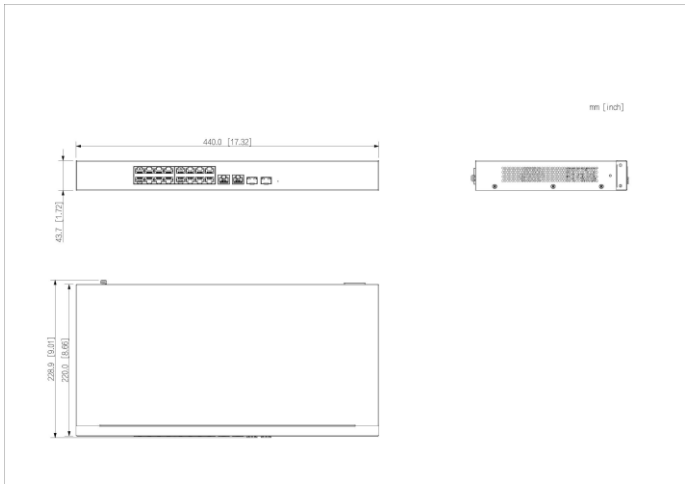
GSFP-1310T-20-SMF
SFP Optical Module



GSFP-850-MMF
SFP Optical Module



Dimensions (mm[inch])



Panels

