

DH-CS4220-16GT-240

20-Port Cloud Managed Desktop Gigabit Switch with 16-Port PoE



PoE2.0

Series Overview

Highly intuitive, the Cloud Managed Switch can manage local networks. With the DoLynk Care platform, it can also perform cloud management. The switch performs operation and maintenance using topology visualization on front-end, transmission and back-end storage devices that are in the security system and IT system. 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 Smart Managed 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

Cloud Management

Devices can be managed through the DoLynk Care app and performs real-time monitoring of the network. The app also displays the status of devices, triggers alarms for errors in real time and sends notifications.

Network Topology Management

Supports the LLDP protocol and is able to generate and display the network topology, so that you can quickly identify issues, and perform operation and maintenance remotely on devices that are in the topology.

- 16 × RJ45 Gigabit PoE ports, 2 × RJ45 Gigabit ports, 2 × SFP Gigabit ports.
- 240 W total PoE budget, 802.3af/at on all PoE ports, additional 802.3 bt on red ports.
- $\cdot~$ Wide operating temperature ranging from –10 °C to 55 °C.
- · Supports VLAN, STP, RSTP and link aggregation.
- WEB-managed and centralized cloud management through the DoLynk App and performs real-time monitoring of the network.
- · Easy config to auto detect and set up network.















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).

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. This enables intelligent operation and maintenance management in its true sense and effectively reduces manual maintenance costs.

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 4 A		
Power Consumption	Idling: ≤8.3 W Full load: 265 W		
Statics Protection	Air discharge: 8 kV; Contact discharge: 6 kV		
Lightning Protection	Common mode: 4 kV Differential mode: 2 kV		
Net Weight	2.37 kg (5.21 lb)		
Gross Weight	3.02 kg (6.64 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 ≤ 240 W		
PoE Protocol	IEEE802.3af; IEEE802.3at; Hi-PoE; IEEE802.3bt		
PoE Power Consumption Management	PoE power consumption management; PoE power on/ off; turns off PoE if overload is detected		
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		

Communication Standard	IEEE 802.3ab IEEE 802.3az IEEE 802.3z IEEE 802.3ad
VLAN Number	32
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
Equipment Management	Web Management Cloud Management Logs Fault Alarm
General	
Packing List	1 × Quick Start Guide 1 × Legal and Regulatory Information 1 × Power Cord

 $1 \times \text{Power Cord}$ $1 \times \text{Rack-mounting Kit}$

Transmission Performance				
Switch power supply voltage 54V. CAT6. Max. DC resistance < 8 $\Omega/100~\text{m}$				
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		

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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					
Туре	Model	Description			
PoE Switch	DH-CS4220-16GT-240	20-Port Cloud Managed Desktop Gigabit Switch with 16-Port PoE			
Accessories (Optional)	GSFP-1310T-20-SMF	SFP Optical Module			
	GSFP-1310R-20-SMF	SFP Optical Module			
	GSFP-850-MMF	SFP Optical Module			
	GSFP-1310-20-SMF	SFP Optical Module			

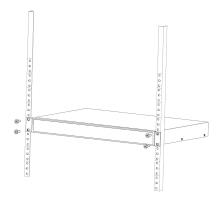
Accessories

Optional:

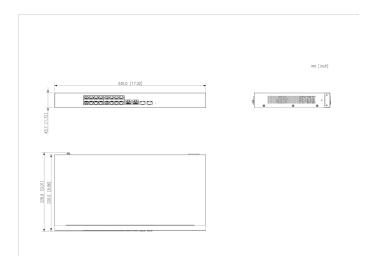




GSFP-850-MMF SFP Optical Module



Dimensions (mm[inch])



Panels

