

DH-CS4220-16GT-190

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



System Overview

Highly intuitive, the Cloud Managed Switch can be managed in local networks. With the DoLynk Cloud-Management platform, it additionally enables seamless cloud management capabilities. With just one click, you can start both the CCTV and IT system through EasyConfig. The switch performs operation and maintenance using topology visualization on front-end, transmission and back-end storage devices. The device supports link aggregation and STP to ensure high network stability. It can effortlessly turn on and off its managed mode with the simple flip of a switch. Additionally, the switch supports abundant PoE 2.0 features. With full metal design, it has great heat dissipation and can operate in temperatures ranging -10 °C to 55 °C (+14°F to +131°F). It also features surge protection against up to 6 kV, resisting interference from static electricity, lightning and pulses. The switch can be used in small and medium-sized businesses such as supermarkets, offices, restaurants, cafés and hotels.

Functions

Managed Mode ON/OFF

Easily switches between managed and unmanaged mode with just the flip of a switch. When in managed mode, you can perform management through the webpage locally or the cloud platform. This allows the device to seamlessly adapt to a variety of scenes.

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 × RJ-45 Gigabit PoE ports, 2 × RJ-45 Gigabit ports, 2 × SFP Gigabit
- 190 W total PoE budget, 802.3af/at on all PoE ports, additional 802.3bt on red port.
- DIP switch to fast turn on/off working mode of Cloud-Managed, PoE Watchdog, Long Distance PoE.
- 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 and security systems.



















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.

Loop Protection

When a loop is detected, the loop alarm will be triggered and the elimination mechanism will activate to prevent broadcast storms from occurring.

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.

Link Aggregation

Combines multiple physical links into one virtual channel for dynamic redundancy and load balancing, ensuring that the connection remains stable.

Scene

Suitable for scenes such as factories and office buildings.

Basic		
Layer	Layer 2	
Switching Capacity	40 Gbps	
Packet Forwarding Rate	29.76 Mpps	
Description of Function Slots	Port 1-16: 16 × RJ-45 10/100/1000 Mbps (PoE) Port 17-18: 2 × RJ-45 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	10%–90% (RH), non-condensing	
Storage Temperature	-40 °C to +75 °C (-40 °F to +167 °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: 10.6 W; Full load: 202.8 W	
Statics Protection	Air discharge: 8 kV Contact discharge: 6 kV	
Lightning Protection	Common mode: 6 kV Differential mode: 1 kV	
Net Weight	2.5 kg (5.51 lb)	
Gross Weight	3.2 kg (7.05 lb)	
Product Dimensions	440 mm \times 228.81 mm \times 43.65 mm (17.32" \times 9.01" \times 1.72") (L \times W \times H)	
Packaging Dimensions	540 mm \times 342 mm \times 90 mm (21.26" \times 13.46" \times 3.54") (\times W \times H)	
Casing Material	Sheet metal	
Installation	Desktop mount; rack mount	
Certifications	CE	
PoE		
PoE	Yes	
PoE Power	Port 3-16≤30 W, port 1-2≤90 W, total≤190 W	
PoE Protocol	IEEE 802.3af; IEEE 802.3at; Hi-PoE; IEEE 802.3bt	
PoE Power Consumption Management	PoE power consumption management; PoE power on/off; turns off PoE if overload is detected	
PoE Pin Assignment	Port 1-2: 1,2,4,5 (V+),3,6,7,8 (V-) Port 3-16: 1,2, (V+), 3,6, (V-)	
Long Distance PoE Transmission	Yes	
Hardware		
DIP Switch	Managed Mode: On by default for both local web and cloud management. Off for Unmanaged Mode. PoE Watchdog: Monitors ports 1-16 and auto-restarts the PoE port when there is no traffic for 2 min. (Only works when Managed Mode is Off) Extend Mode: Ports 1-16; transmission distance up to 250 meters at 10 Mbps. (Only works when Managed Mode is Off)	
Reset Button	1	

Performance			
MTBF	1,092,753 hours		
Packet Buffer Size	4 Mbit		
Jumbo Frame	15360 Byte		
MAC Table Size	8K		
Communication Standard	IEEE 802.3; IEEE 802.3u; IEEE 802.3x; IEEE 802.3ab; IEEE 802.3z; IEEE 802.3az; 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	Local Port Mirroring N:1 Mirroring		
Reliability	LLDP		
DHCP Function	DHCP Client		
Security	Port Isolation		
Equipment Management	Web Management Cloud Management Logs Fault Alarm		
General			
Packing List	1 × User Manual 1 × Legal and Regulatory Information 1 × Power Cord 1 × Rack-mounting Kit		

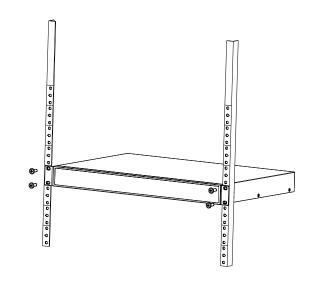
Transmission Performance: Switch power supply voltage 54V. CAT6. Max. DC resistance $< 8 \Omega/100 \text{ m}$ Load Capacity(W) Cable(m) IEEE802.3bt 90 W 71.3 100 62 150 51 200 40 250 Hi-PoE 60 W 46 42 150 37 200 250 32 IEEE802.3at 30 W 100 25.5 150 25.5 200 25.5 250 24

Ordering Information				
Туре	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		

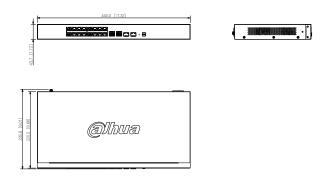
Note: Data from this table was collected by Dahua test lab and is for reference only . The actual transmission distance may vary due to power consumption of connected

devices or the cable type and status.

Installation



Dimensions (mm[inch])



Panels



