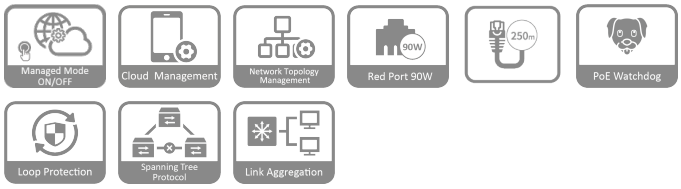
DH-CS4210-8GT-110

10-Port Cloud Managed Desktop Gigabit Switch with 8-Port PoE



PoE2.0

- 8 × RJ-45 Gigabit PoE ports, 2 × SFP Gigabit ports.
- 110 W total PoE budget, 802.3af/at on all PoE ports, 802.3bt on red ports.
- 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 systems.



Series 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.

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.

Technical Specification

Basic

Layer	Layer 2
Switching Capacity	20 Gbps
Packet Forwarding Rate	14.88 Mpps
Ports	Port 1-8: 8 × RJ-45 10/100/1000 Mbps (PoE); Port 9-10: 2 × SFP 100/1000 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	External Power Adapter (54 V, 2.22 A)
Included Power Adapter	Yes
Power Consumption	Idling: 3.8 W; Full load: 114 W
Statics Protection	Air discharge: 8 kV; Contact discharge: 6 kV
Lightning Protection (Ethernet Port)	Common mode: 6 kV; Differential mode: 1 kV
Net Weight	0.36 kg (0.79 lb)
Gross Weight	1.14 kg (2.51 lb)
Product Dimensions	184.6 mm × 103.3 mm × 27 mm (7.27" × 4.07" × 1.06") (L × W × H)
Packaging Dimensions	252 mm × 137 mm × 113 mm (9.92" × 5.39" × 4.45") (L × W × H)
Casing Material	Sheet metal
Installation	Desktop mount; Wall mount
Certifications	CE

PoE

PoE	Yes
PoE Power	Port 1-2 ≤90 W, Port 3-8 ≤30 W, total ≤110 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 and 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 3-8: 1, 2 (V+), 3, 6 (V-)
Long Distance PoE Transmission	Yes
PoE Watchdog	Yes

Hardware

DIP Switch	Managed Mode: On by default for both local web and cloud management. Off for Unmanaged Mode. PoE Watchdog: Monitors ports 1-8 and auto-restarts the PoE port when there is no traffic for 2 min. (Only works when Managed Mode is Off) Extend Mode: Ports 1-8; transmission distance up to 250 meters at 10 Mbps. (Only works when Managed Mode is Off)
Reset Button	1

Performance

MTBF	2,079,210 hours
Packet Buffer Size	4 Mbit
Jumbo Frame	15360 Byte
MAC Table Size	8K
Total Static MAC Addresses	16
Flash	16 MByte
RAM	256 KB
Communication Standard	IEEE 802.3,IEEE 802.3u,IEEE 802.3x,IEEE 802.3ab,IEEE 802.3z,IEEE 802.3az
Aggregation Group	5
VLAN Number	32
Traffic Limit Granularity	1 Mbps

Feature

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

Equipment Management	Supports Web Management; Supports Cloud Management; Supports Logs; Supports Fault Alarm Supports LLDP

General

Packing List	1 × User Manual; 1 × Legal and Regulatory Information; 1 × Power Cord; 1 × Power Adapter

Transmission Performance

CAT5E/CAT6. Max. DC resistance < 10Ω/100m.
For Dahua IPC1 series, CAT6 is recommended for 250m transmission.

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-CS4210-8GT-110	10-Port Cloud Managed Desktop Gigabit Switch with 8-Port PoE
Accessories (Optional)	GSFP-850-MMF	SFP Optical Module
	GSFP-1310-20-SMF	SFP Optical Module
	GSFP-1310R-20-SMF	SFP Optical Module
	GSFP-1310T-20-SMF	SFP Optical Module
	GSFP-RJ45	RJ45 SFP Module

Accessories

Optional:



GSFP-850-MMF
SFP Optical Module



GSFP-1310-20-SMF
SFP Optical Module



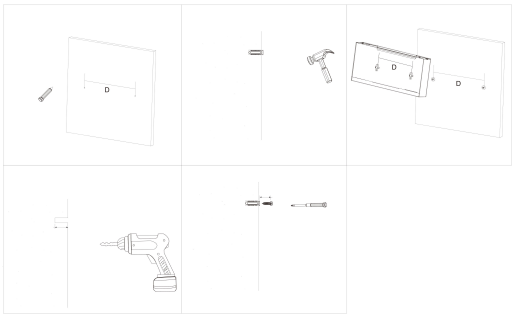
GSFP-1310R-20-SMF
SFP Optical Module



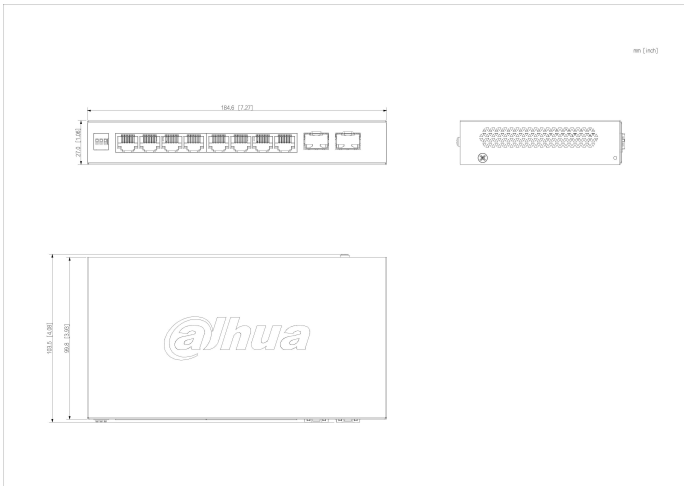
GSFP-1310T-20-SMF
SFP Optical Module



GSFP-RJ45
RJ45 SFP Module

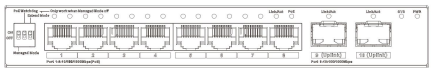


Dimensions (mm[inch])



Panels





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