

# DH-CS4228-24GT-240

28-Port Cloud Managed Desktop Gigabit Switch with 24-Port PoE



PoE2.0

## Series Overview

Highly intuitive, the Cloud Managed Switch can manage local networks. With the DoLink 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 DoLink 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.

- 24 × 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.
- 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 DoLink App and performs real-time monitoring of the network.
- Easy config to auto detect and set up network.



Cloud Management



Network Topology Management



Red Port 90W



Long Distance PoE



Spanning Tree Protocol



PoE Watchdog



Loop Protection

### 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            | 56 Gbps                                                                                                                             |
| Packet Forwarding Rate        | 41.66 Mpps                                                                                                                          |
| Description of Function Slots | Port 1-24: 24 × RJ45 10/100/1000 Mbps (PoE); Port 25-26: 2 × RJ45 10/100/1000 Mbps (uplink); Port 27-28: 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: ≤12.5 W<br>Full load: 265 W                                                                                                 |
| Statics Protection            | Air discharge: 8 kV<br>Contact discharge: 6 kV                                                                                      |
| Lightning Protection          | Common mode: 4 kV<br>Differential mode: 2 kV                                                                                        |
| Net Weight                    | 2.50 kg (5.5 lb)                                                                                                                    |
| Gross Weight                  | 3.15 kg (6.93 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 3-24 ≤ 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                   | 67.80 years               |
| Packet Buffer Size     | 4 Mbit                    |
| Jumbo Frame            | 15K Byte                  |
| MAC Table Size         | 8K                        |
| Communication Standard | IEEE 802.3<br>IEEE 802.3u |

|                          |                                                                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Communication Standard   | IEEE 802.3x<br>IEEE 802.3ab<br>IEEE 802.3az<br>IEEE 802.3z<br>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<br>Unknown Unicast Suppression<br>Multicast Storm Control<br>Broadcast Storm Control<br>MAC+Port Binding<br>Loop Prevention |
| Mirror                   | N:1 Mirroring<br>Local Port Mirroring                                                                                                                |
| Reliability              | LLDP                                                                                                                                                 |
| DHCP Function            | DHCP Client                                                                                                                                          |
| Security                 | Port Isolation                                                                                                                                       |
| Equipment Management     | Web Management<br>Cloud Management<br>Logs<br>Fault Alarm                                                                                            |

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

| Transmission Performance                                                 |                  |                 |
|--------------------------------------------------------------------------|------------------|-----------------|
| Switch power supply voltage 54V.<br>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 |

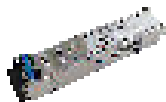
Note: Data from this table was collected by Dahua test lab and is for reference only. The actual transmission distance may vary due to power consumption of connected devices or the cable type and status.

Ordering Information

| Type                   | Model              | Description                                                   |
|------------------------|--------------------|---------------------------------------------------------------|
| PoE Switch             | DH-CS4228-24GT-240 | 28-Port Cloud Managed Desktop Gigabit Switch with 24-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-1310-20-SMF  
SFP Optical Module



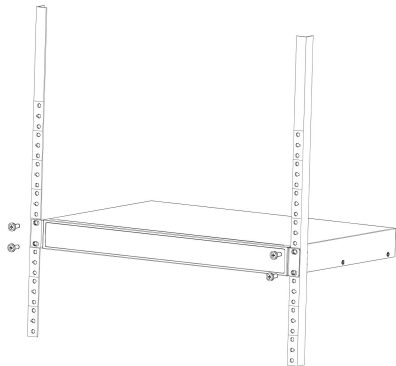
GSFP-1310R-20-SMF  
SFP Optical Module



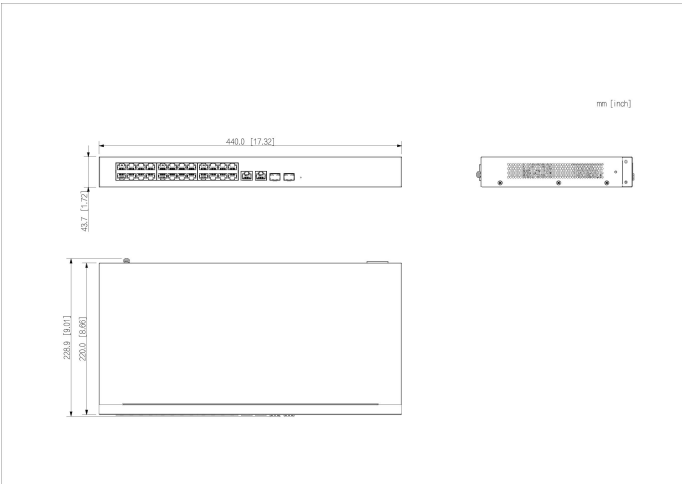
GSFP-1310T-20-SMF  
SFP Optical Module



GSFP-850-MMF  
SFP Optical Module



Dimensions (mm[inch])



Panels

