

# DH-CS4006-4GT-60

6-Port Cloud Managed Desktop Gigabit Switch with 4-Port PoE



PoE2.0

## Series Overview

Highly intuitive, the Switch can be managed in local networks. With the DoLink 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. 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  $-10^{\circ}\text{C}$  to  $55^{\circ}\text{C}$  ( $+14^{\circ}\text{F}$  to  $+131^{\circ}\text{F}$ ). 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

### 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.

### 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).

- 4 × RJ45 Gigabit PoE ports, 2 × RJ45 Gigabit ports.
- 60 W total PoE budget, 802.3af/at on all PoE ports, additional Hi-PoE on orange port.
- DIP switch to fast turn on/off working mode of Cloud-Managed, PoE Watchdog, Long Distance PoE.
- Wide operating temperature ranging from  $-10^{\circ}\text{C}$  to  $55^{\circ}\text{C}$ .
- Supports VLAN and loop protection.
- 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 and systems.



### 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.

### 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.

## Scene

Suitable for scenes such as houses, factories and offices.

Technical Specification

|                                  |                                                                                             |
|----------------------------------|---------------------------------------------------------------------------------------------|
| Basic                            |                                                                                             |
| Layer                            | Layer 2                                                                                     |
| Switching Capacity               | 12 Gbps                                                                                     |
| Packet Forwarding Rate           | 8.9 Mpps                                                                                    |
| Description of Function Slots    | Port 1-4: 4 × RJ-45 10/100/1000 Mbps (PoE)<br>Port 5-6: 2 × RJ-45 10/100/1000 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 +70 °C (−40 °F to +158 °F)                                                        |
| Storage Humidity                 | 5%–95% (RH), non-condensing                                                                 |
| Power Supply                     | External power supply: 53 VDC, 0.8 A                                                        |
| Power Consumption                | Idling: ≤3 W<br>Full load: 65 W                                                             |
| Statics Protection               | Air discharge: 8 kV<br>Contact discharge: 6 kV                                              |
| Lightning Protection             | Common mode: 6 kV                                                                           |
| Net Weight                       | 0.2 kg (0.44 lb)                                                                            |
| Gross Weight                     | 0.76 kg (1.68 lb)                                                                           |
| Product Dimensions               | 115 mm × 84 mm × 27 mm (4.53" × 3.33" × 1.06") (L × W × H)                                  |
| Packaging Dimensions             | 195 mm × 114 mm × 83 mm (7.68" × 4.49" × 3.27") (L × W × H)                                 |
| Casing Material                  | Sheet metal                                                                                 |
| Installation                     | Desktop mount; wall mount                                                                   |
| PoE                              |                                                                                             |
| PoE                              | Yes                                                                                         |
| PoE Power                        | Port 2-4≤30 W, port 1≤60 W, totals≤60 W                                                     |
| PoE Protocol                     | IEEE802.3af ; IEEE802.3at ; Hi-PoE                                                          |
| 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

|              |                                                                                                                                                                                                                                                                                                                                                               |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DIP Switch   | Managed Mode: On by default for both local web and cloud management. Off for Unmanaged Mode.<br>PoE Watchdog: Monitors ports 1-4 and auto-restarts the PoE port when there is no traffic for 2 min. (Only works when Managed Mode is Off)<br>Extend Mode: Ports 1-4; transmission distance up to 250 meters at 10 Mbps. (Only works when Managed Mode is Off) |
| Reset Button | 1                                                                                                                                                                                                                                                                                                                                                             |

Performance

|                    |              |
|--------------------|--------------|
| MTBF               | 232.62 years |
| Packet Buffer Size | 4 Mbit       |

|                        |                                                                  |
|------------------------|------------------------------------------------------------------|
| Jumbo Frame            | 9216 Byte                                                        |
| MAC Table Size         | 2K                                                               |
| Communication Standard | IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3az |
| VLAN Number            | 32                                                               |

Feature

|                      |                                                                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| VLAN Function        | IEEE 802.1Q VLAN                                                                                                                                     |
| 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 Adapter<br>1 × Power Cord |
|--------------|------------------------------------------------------------------------------------------------------|

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   |

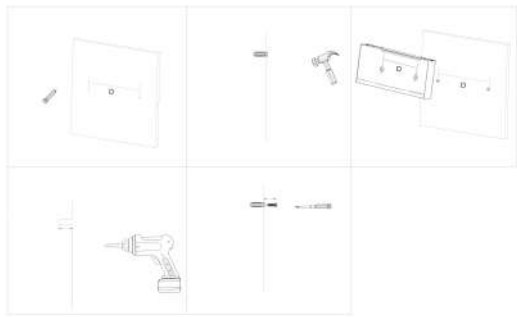
IEEE802.3at 30W

|     |      |      |
|-----|------|------|
| 100 | 25.5 | 1000 |
| 150 | 25.5 | 10   |
| 200 | 25.5 | 10   |
| 250 | 24   | 10   |

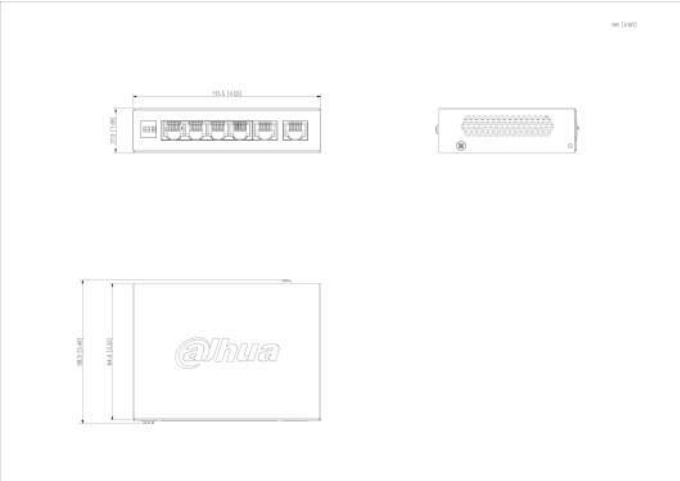
Note: Data from this table was collected by Dahua test lab and is for reference only. The actual transmission distance may vary due to power consumption of connected devices or the cable type and status.

| Ordering Information |                  |                                                             |
|----------------------|------------------|-------------------------------------------------------------|
| Type                 | Model            | Description                                                 |
| PoE Switch           | DH-CS4006-4GT-60 | 6-Port Cloud Managed Desktop Gigabit Switch with 4-Port PoE |

Installation



Dimensions (mm[inch])



Panels

