

# DH-S4228-24GT-240

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



- Layer 2 network management PoE switch.
- Supports web, and network management software based on SNMP.
- Network redundancy: STP/RSTP.
- Supports PoE power consumption management, PoE power off management.
- Supports IEEE802.3af, IEEE802.3at.
- Port 1 and port 2 support IEEE802.3bt, and are compatible with Hi-PoE.
- Supports PoE watchdog.
- Supports 250 m long-distance transmission mode.



### System Overview

Equipped with a high performance switching engine, the 24-Port PoE All-Gigabit Managed Switch performs optimally. It has low transmission delay, large buffer and is highly reliable. It also has a strong switching capability and optimizes transmission performance when accessing Ultra HD videos. With its full metal design, the device has great heat dissipation and is low power consumption, working in environments ranging from  $-10^{\circ}\text{C}$  to  $55^{\circ}\text{C}$  ( $+14^{\circ}\text{F}$  to  $+131^{\circ}\text{F}$ ). With protection against overvoltage, EMC and overcurrent from power input terminals, the switch effectively resists interference from static electricity, lightning, and pulses. It also has powerful network management functions, supporting various types of web and network management software based on SNMP.

### Functions

#### All-Gigabit Ports

Designed with large buffer memory and all-gigabit ports, enabling high-definition access of large stream.

#### Intelligent PoE

Provides power consumption control and real-time monitoring to guarantee priority of power supply for important ports and prevent malfunctioning caused by power consumption change. Supports ultra wide power supply, able to adapt to IPC power fluctuation.

#### Wide Operating Temperature

Supports working at ambient temperatures of  $-10^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$ , and has built-in professional lightning-proof circuits that effectively reduce the impact of thunderstorms on network systems and improve system robustness, allowing the device to adapt to harsh environments.

#### Non-blocking Video Transmission

Large buffer memory can increase concurrent data processing capacity, and guarantee real-time video transmission in regardless of transient large video stream.

#### Minimal WEB

Designed with a minimalist graphical WEB, easy to operate, which improves configuration efficiency.

#### Red Port 90W

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.

All-gigabit PoE Switch | DH-S4228-24GT-240

| Specification                 |                                                                                                                      |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Hardware                      |                                                                                                                      |
| Included Power Adapter        | Yes                                                                                                                  |
| PoE                           | Yes                                                                                                                  |
| Ethernet Port                 | 26                                                                                                                   |
| Optical Port                  | 2                                                                                                                    |
| Ethernet Port Speed           | 10/100/1000 Mbps                                                                                                     |
| Optical Port Speed            | 1000 Mbps                                                                                                            |
| Description of Function Slots | Port 1-24: 24 × RJ45 10/100/1000 Mbps(PoE)<br>Port 25-26: 2 × RJ45 10/100/1000 Mbps<br>Port 27-28: 2 × SFP 1000 Mbps |
| Debugging                     | Console × 1                                                                                                          |
| Reset Button                  | 1                                                                                                                    |
| Power Supply                  | 100-240 VAC, 50/60 Hz, 3.5 A                                                                                         |
| Operating Temperature         | −10°C to 55°C (+14°F to +131°F)                                                                                      |
| Operating Humidity            | 5%–95% (RH)                                                                                                          |
| Power Consumption             | Idling load: ≤ 20 W;<br>Full load: 240 W                                                                             |

|                        |                                                                               |
|------------------------|-------------------------------------------------------------------------------|
| Performance            |                                                                               |
| Management Type        | Yes                                                                           |
| MTBF                   | 467125.73 hours                                                               |
| Switching Capacity     | 56 Gbps                                                                       |
| Packet Forwarding Rate | 41.664 Mpps                                                                   |
| Packet Buffer Size     | 4.1 Mbit                                                                      |
| Jumbo Frame            | 10K Byte                                                                      |
| MAC Table Size         | 8K                                                                            |
| VLAN Number            | 4K                                                                            |
| VLAN Interface         | 10                                                                            |
| Dynamic ARP            | 512                                                                           |
| Communication Standard | IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3ad |

|                                  |                                                                    |
|----------------------------------|--------------------------------------------------------------------|
| Feature                          |                                                                    |
| PoE Protocol                     | IEEE802.3af (PoE); IEEE802.3at (PoE+); Hi-PoE; IEEE802.3bt (PoE++) |
| PoE Power                        | Port 1-2: ≤ 90 W<br>Port 3-24: ≤ 30 W<br>Total: ≤ 240 W            |
| PoE Power Consumption Management | Yes                                                                |
| PoE Pin Assignment               | 1,2,4,5 (V+),3,6,7,8 (V-)                                          |
| Long Distance PoE Transmission   | Yes                                                                |
| Spanning Tree Protocol           | STP; RSTP                                                          |
| VLAN Function                    | Yes                                                                |
| Link Aggregation                 | Static link aggregation; LACP                                      |

|                          |                                                 |
|--------------------------|-------------------------------------------------|
| IEEE 802.3x Flow Control | IEEE 802.3X-based flow control (full-duplex)    |
| Multicast                | IGMP Snooping                                   |
| DHCP Function            | DHCP client<br>DHCP-Server<br>DHCP-Snooping     |
| Security                 | IEEE 802.1x<br>ACL                              |
| Equipment Management     | WEB(http and https)<br>Telnet<br>SNMP V1/V2C/V3 |

|                      |                                                    |
|----------------------|----------------------------------------------------|
| General              |                                                    |
| Statics Protection   | Air discharge: 8 kV;<br>Contact discharge: 6 kV    |
| Lighting Protection  | Common mode: 4 kV;<br>Differential mode: 2 kV      |
| Net Weight           | 3.405 kg (7.51 lb)                                 |
| Gross Weight         | 4.51 kg (9.94 lb)                                  |
| Product Dimensions   | 440 mm × 300 mm × 44 mm (17.32" × 11.81" × 1.73")  |
| Packaging Dimensions | 525 mm × 410 mm × 110 mm (20.67" × 16.14" × 4.33") |
| Certifications       | CE, FCC                                            |

| Transmission Performance:                                                     |                  |                 |
|-------------------------------------------------------------------------------|------------------|-----------------|
| Switch power supply voltage 53V.<br>CAT5E/CAT6. Max. DC resistance < 10Ω/100m |                  |                 |
| 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        | 53 | 1000 |
| 150        | 50 | 10   |
| 200        | 47 | 10   |
| 250        | 37 | 10   |

|                 |      |      |
|-----------------|------|------|
| IEEE802.3at 30W |      |      |
| 100             | 25.5 | 1000 |
| 150             | 25.5 | 10   |
| 200             | 25.5 | 10   |
| 250             | 25.5 | 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                            |
| 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        |

Dimensions (mm[inch])

