

# DH-S4210-8GT-110

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



- Layer 2 network management PoE switch.
- IEEE802.3af, IEEE802.3at standard. Port 1 supports IEEE802.3bt, and is compatible with Hi-PoE.
- PoE watchdog.
- 250 m long-distance transmission mode.
- Network redundancy: STP/RSTP.
- Static link aggregation and LACP.
- EMC high protection design.
- Desktop and wall-mounted installation.



## System Overview

Equipped with a high performance switching engine, the 8 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

### PoE Watchdog

Adopt the innovative PoE Watchdog, can be switched on by dialing/turning on the WEB page switch. 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.

### Long Distance PoE

By dialing or enabling long-range transmission on the WEB interface, the transmission distance of a PoE port can be up to 250 m, meeting the requirement of long-ranged wired transmission (bandwidth reduced to 10 Mbps).

### 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.

### 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.

### 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.

### Minimal WEB

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

| Technical Specification       |                                                              |
|-------------------------------|--------------------------------------------------------------|
| Hardware                      |                                                              |
| Included Power Adapter        | Yes                                                          |
| PoE                           | Yes                                                          |
| Ethernet Port                 | 8                                                            |
| Ethernet Port Speed           | 10/100/1000 Mbps                                             |
| Optical Port Speed            | 1 Gbps                                                       |
| Optical Port Uplink Speed     | 1 Gbps                                                       |
| Description of Function Slots | Port 1-8: 8 × 10/100/1000Base-T<br>Port 9-10: 2 × 1000Base-X |
| Debugging                     | 1 × Console port                                             |
| Reset Button                  | 1                                                            |
| Power Supply                  | 48-57 VDC,2.22 A                                             |
| Operating Temperature         | −10 °C to +55 °C (+14 °F to +131 °F)                         |
| Operating Humidity            | 5%–95% (RH), non-condensing                                  |
| Power Consumption             | Idling load:3.5 W<br>Full load: 110 W                        |

|                        |                                                                                  |
|------------------------|----------------------------------------------------------------------------------|
| Performance            |                                                                                  |
| Layer                  | Layer 2                                                                          |
| Management Type        | Yes                                                                              |
| MTBF                   | 1407459.54 hours                                                                 |
| Switching Capacity     | 20 Gbps                                                                          |
| Packet Forwarding Rate | 14.88 Mpps                                                                       |
| Packet Buffer Size     | 4.1 Mbit                                                                         |
| Jumbo Frame            | 9K Byte                                                                          |
| MAC Table Size         | 8K                                                                               |
| VLAN Number            | 4K                                                                               |
| VLAN Interface         | 10                                                                               |
| Communication Standard | IEEE 802.3; IEEE 802.3u; IEEE 802.3x; IEEE 802.3ab;<br>IEEE 802.3z; IEEE 802.3ad |

|                                  |                                                  |
|----------------------------------|--------------------------------------------------|
| Feature                          |                                                  |
| PoE Protocol                     | IEEE 802.3af; IEEE 802.3at; Hi-PoE; IEEE 802.3bt |
| PoE Power                        | Port 1 ≤ 90 W, Port 2-8 ≤ 30 W, total ≤ 110 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 V1/V2                   |
| DHCP Function        | DHCP client                           |
| Security             | 802.1X                                |
| QoS/ACL              | QoS                                   |
| Equipment Management | WEB(http and https)<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           | 0.64 kg(1.41 lb)                                               |
| Gross Weight         | 1.50 kg(3.30 lb)                                               |
| Product Dimensions   | 240 mm × 104 mm × 28 mm (9.45" × 4.12" × 1.10")<br>(L × W × H) |
| Packaging Dimensions | 316 mm × 240 mm × 82 mm(12.44" × 9.45" × 3.23")<br>(L × W × H) |
| Casing Material      | SGCC                                                           |
| Installation         | Desktop mount; Wall mount                                      |
| 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   |

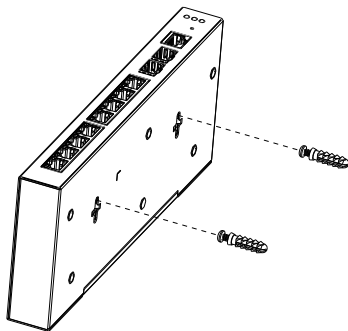
|                 |      |      |
|-----------------|------|------|
| IEEE802.3at 30W |      |      |
| 100             | 25.5 | 1000 |
| 150             | 25.5 | 10   |
| 200             | 25.5 | 10   |
| 250             | 25.5 | 10   |

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        |

Installation



Dimensions (mm[inch])

