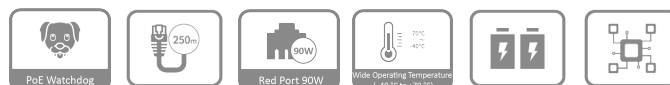


# DH-IS4210-8GT-120

10-Port Managed Industrial Gigabit Switch with 8-Port PoE(V3.0)



- All-gigabit port design
- Supports IEEE802.3af, IEEE802.3at, Hi-PoE and IEEE802.3bt (red port)
- standards
- 250 m long-distance PoE transmission (10 Mbps)
- PoE Watchdog
- Supports STP, RSTP, and MSTP
- IEEE802.1Q-based VLAN configuration
- Manual link aggregation and static LACP
- Desktop mount and DIN-rail mount



## Series Overview

Highly reliable, the L2 industrial switch is equipped with a high performance switching engine, has large buffer memory and optimizes transmission performance. With its solid full metal design, the device has great heat dissipation, working in environments ranging from  $-40^{\circ}\text{C}$  to  $+75^{\circ}\text{C}$ . It also has protection against overcurrent, overvoltage and EMC, resisting interference from static electricity, lightning and pulses. The redundant power supply ensures that the switch performs stably. It can be managed through webpage, SNMP and more.

## Functions

### 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.

### 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).

### 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 ( $-40^{\circ}\text{C}$ to $+70^{\circ}\text{C}$ )

The operating temperature ranges from  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ . The semiconductor TEC module and all-aluminum fin structure enhances the reliability of hard disk operations, making the device highly suitable for use in harsh environments.

## Redundant Power Supply

Redundant power supply ensures that the device is still powered when one power port malfunctions, which improves device reliability.

## Fast Loop Convergence

Supports the ERPS protocol to provide loop protection. Fast convergence is performed when the network disconnects.

## Scene

The device is applicable for use in different scenarios, including corridors and offices.

Technical Specification

|                               |                                                                                     |
|-------------------------------|-------------------------------------------------------------------------------------|
| Basic                         |                                                                                     |
| Layer                         | Layer 2                                                                             |
| Switching Capacity            | 20 Gbps                                                                             |
| Packet Forwarding Rate        | 14.88 Mpps                                                                          |
| Description of Function Slots | Port 1-8: 8 × RJ-45 10/100/1000 Mbps (PoE)<br>Port 9-10: 2 × SFP 1000 Mbps (uplink) |
| Operating Temperature         | −40 °C to +70 °C (−40 °F to +158 °F)                                                |
| Operating Humidity            | 5%–95% (RH), non-condensing                                                         |
| Power Supply                  | 53 VDC                                                                              |
| Included Power Adapter        | No                                                                                  |
| Power Consumption             | Idling: ≤ 6 W<br>Full load: 120 W                                                   |
| Statics Protection            | Air discharge: 8 kV<br>Contact discharge: 6 kV                                      |
| Lightning Protection          | Common mode: 6 kV<br>Differential mode: 4 kV                                        |
| Net Weight                    | 1.25 kg (2.76 lb)                                                                   |
| Gross Weight                  | 1.52 kg (3.35 lb)                                                                   |
| Product Dimensions            | 125 mm × 53.5 mm × 175.0 mm (4.92" × 2.11" × 6.89")<br>(L × W × H)                  |
| Packaging Dimensions          | 254 mm × 287 mm × 101 mm (10.00" × 11.30" × 3.98")<br>(L × W × H)                   |
| Installation                  | Desktop mount; DIN-rail mount                                                       |
| Certifications                | CE                                                                                  |

|                                  |                                                  |
|----------------------------------|--------------------------------------------------|
| PoE                              |                                                  |
| PoE                              | Yes                                              |
| PoE Power                        | Port 1-2≤90 W<br>Full load≤120 W                 |
| PoE Protocol                     | IEEE 802.3af; IEEE 802.3at; Hi-PoE; IEEE 802.3bt |
| PoE Power Consumption Management | Yes                                              |
| PoE Pin Assignment               | 1,2,4,5 ( V+ ) ,3,6,7,8 ( V- )                   |
| Long Distance PoE Transmission   | Yes                                              |
| PoE Watchdog                     | Yes                                              |

|              |                  |
|--------------|------------------|
| Hardware     |                  |
| Debugging    | 1 × Console port |
| Reset Button | 1                |

|                    |                  |
|--------------------|------------------|
| Performance        |                  |
| MTBF               | 1198177.29 hours |
| Packet Buffer Size | 4.1 Mbit         |
| Jumbo Frame        | 10K Byte         |
| MAC Table Size     | 8K               |

|                            |                                                                               |
|----------------------------|-------------------------------------------------------------------------------|
| Total Static MAC Addresses | 256                                                                           |
| Flash                      | 32 MB                                                                         |
| RAM                        | 2Gbit                                                                         |
| Communication Standard     | IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3ad |
| Aggregation Group          | 8                                                                             |
| VLAN Number                | 4K                                                                            |
| VLAN Interface             | 10                                                                            |
| IPv4 Routes                | 512                                                                           |
| Dynamic ARP                | 496                                                                           |
| Static ARP                 | 128                                                                           |
| QoS Queue                  | 8                                                                             |

|                          |                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------|
| Feature                  |                                                                                                               |
| LLDP                     | Yes                                                                                                           |
| Ethernet Loop Protection | STP, RSTP, ERPS                                                                                               |
| VLAN Function            | Yes                                                                                                           |
| Link Aggregation         | Static link aggregation; LACP                                                                                 |
| Mirror                   | Yes                                                                                                           |
| Multicast                | IGMP Snooping                                                                                                 |
| Routing                  | Static Routing                                                                                                |
| ARP                      | ARP                                                                                                           |
| DHCP Function            | DHCP Client;DHCP Snooping;DHCP Server;DHCP Snooping Option 82                                                 |
| Security                 | SSH2.0;802.1X; Port isolation; Radius; HTTPS                                                                  |
| QoS/ACL                  | SP/WRR queue scheduling; 802.1p and DSCP priority mapping; Port speed limit ;                                 |
| Equipment Management     | Web;<br>Cloud management;<br>DSS Pro;<br>Telnet;<br>SSH;<br>SNMP V1/V2C/V3;<br>NTP;<br>Logs;<br>Ping;<br>VCT; |

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              |

# Industrial switch | DH-IS4210-8GT-120

## 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-IS4210-8GT-120 | 10-Port Managed Industrial Gigabit Switch with 8-Port PoE(V3.0) |
| Accessories (Optional) | GSFP-RJ45         | RJ45 SFP Module                                                 |
|                        | 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                                              |

## Accessories

Optional:



GSFP-RJ45  
RJ45 SFP Module



GSFP-850-MMF  
SFP Optical Module



GSFP-1310-20-SMF  
SFP Optical Module

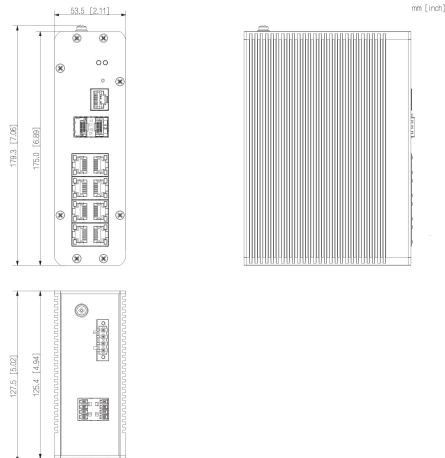


GSFP-1310R-20-SMF  
SFP Optical Module



GSFP-1310T-20-SMF  
SFP Optical Module

## Dimensions (mm[inch])



## Panels

