

# DH-SG4010P-2F

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

Adopts the innovative PoE Watchdog. 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 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.

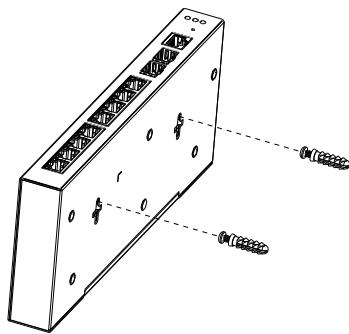
# All-Gigabit PoE Switch | DH-SG4010P-2F

Technical Specification		Multicast	IGMP Snooping v1/v2	
Hardware		DHCP Function	DHCP client	
Included Power Adapter	Yes	Security	802.1X	
PoE	Yes	QoS/ACL	QoS	
Ethernet Port	8	Equipment Management	WEB(http and https) SNMP V1/V2C/V3	
Ethernet Port Speed	10/100/1000 Mbps	General		
Optical Port Speed	1 Gbps	Statics Protection	Air discharge: 8 kV Contact discharge: 6 kV	
Optical Port Uplink Speed	1 Gbps	Lighting Protection	Common mode: 2 kV Differential mode: 1 kV	
Description of Function Slots	Port 1-8: 8 × 10/100/1000Base-T (PoE) Port 9-10: 2 × 1000Base-X (uplink)	Net Weight	0.64 kg(1.41 lb)	
Debugging	1 × Console port	Gross Weight	1.50 kg(3.30 lb)	
Reset Button	1	Product Dimensions	240 mm × 104 mm × 28 mm (9.45" × 4.12" × 1.10") (L × W × H)	
Power Supply	48-57 VDC, 2.22 A	Packaging Dimensions	316 mm × 240 mm × 82 mm(12.44" × 9.45" × 3.23") (L × W × H)	
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)	Casing Material	SGCC	
Operating Humidity	5%~95% (RH), non-condensing	Installation	Desktop mount; wall mount	
Power Consumption	Idling load: 3.5 W Full load: 110 W	Certifications	CE	
Performance		Transmission Performance:		
Layer	Layer 2	Switch power supply voltage 53V. CAT5E/CAT6. Max. DC resistance < 10Ω/100m		
Management Type	Yes	Cable(m)	Load Capacity(W)	Bandwidth(Mbps)
MTBF	1407459.54 hours	IEEE802.3bt 90W		
Switching Capacity	20 Gbps	100	71.3	1000
Packet Forwarding Rate	14.88 Mpps	150	62	10
Packet Buffer Size	4.1 Mbit	200	51	10
Jumbo Frame	9K Byte	250	40	10
MAC Table Size	8K	Hi-PoE 60W		
VLAN Number	4K	100	53	1000
VLAN Interface	10	150	50	10
Communication Standard	IEEE 802.3; IEEE 802.3u; IEEE 802.3x; IEEE 802.3ab; IEEE 802.3z; IEEE 802.3ad	200	47	10
Feature		250	37	10
PoE Protocol	IEEE 802.3af; IEEE 802.3at; Hi-PoE; IEEE 802.3bt	IEEE802.3at 30W		
PoE Power	Port 1 ≤ 90 W, Port 2-8 ≤ 30 W, total ≤ 110 W	100	25.5	1000
PoE Power Consumption Management	Yes	150	25.5	10
PoE Pin Assignment	1, 2, 4, 5 (V+), 3, 6, 7, 8 (V-)	200	25.5	10
Long Distance PoE Transmission	Yes	250	25.5	10
Spanning Tree Protocol	STP/RSTP	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.		
VLAN Function	Yes			
Link Aggregation	Static link aggregation; LACP			
IEEE 802.3x Flow Control	IEEE 802.3X-based flow control (full-duplex)			

## 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])

