DAHUA TECHNOLOGY

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°C to 55°C (+14°F to +131°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 °C to +55 °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 (PoE) Port 9-10: 2 × 1000Base-X (uplink)
Debugging	1 × Console port
Reset Button	1
Power Adaptor Supply	110-120 V, 50/60 Hz (North American Standard)
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 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; 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) SNMP V1/V2C/V3

General

Statics Protection	Air discharge: 8 kV Contact discharge: 6 kV
Lighting Protection	Common mode: 4 kV 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") (L × W × H)
Packaging Dimensions	316 mm × 240 mm × 82 mm(12.44" × 9.45" × 3.23") (L × W × H)
Casing Material	SGCC
Installation	Desktop mount; wall mount
Certifications	CE

Transmission Performance:

Switch power supply voltage 53V.
CAT5E/CAT6. Max. DC resistance < 10Ω/100m

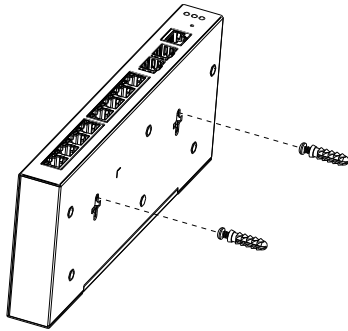| Cable(m)	Load Capacity(W)	Bandwidth(Mbps)
IEEE802.3bt 90W		
100	71.3	100
150	62	10
200	51	10
250	40	10
Hi-PoE 60W		
100	53	100
150	50	10
200	47	10
250	37	10
IEEE802.3at 30W		
100	25.5	100
150	25.5	10
200	25.5	10
250	25.5	10

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])