

DH-SG4010-2F

10-Port Managed Desktop Gigabit Switch



- Layer 2 network management switch.
- Network redundancy: STP/RSTP.
- Static link aggregation and LACP.
- Devices discovery based on LLDP.
- QoS (IEEE802.1p/1Q) to increase determinism.
- IGMP Snooping.
- Fanless design.
- EMC high protection design.
- Desktop and wall-mounted installation.



System Overview

Equipped with a high performance switching engine, the 8 Port 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 and fanless design, the device has great heat dissipation and is low power consumption, working in environments ranging from -10°C to 55°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 offers a variety of services, supporting IGMP Snooping, Link Aggregation, QoS, LLDP, STP/RSTP and various web and network management software based on SNMP.

Functions

Link Layer Discovery Protocol (LLDP)

Enables network devices to advertise their information mutually, allowing you to conveniently monitor and manage devices in the local topology. This makes it easy for administrators to effectively perform troubleshooting.

Quality of Service (QoS)

Uses mechanisms designed to control bandwidth, delay, jitter, and loss to ensure the performance of services when the capacity is limited.

Spanning Tree Protocol (STP)

Uses algorithms that calculate the best loop-free path through a Layer 2 network while providing path redundancy to prevent the occurrence of broadcast storms and enhance the stability of operations and services.

Link Aggregation

Combines multiple physical links into one virtual channel for dynamic redundancy and load balancing, ensuring that the connection remains stable.

IGMP Snooping

Listens to multicast traffic, and solely forwards information to registered clients based on the multicast forwarding table. This ensures the safety of information and improves network efficiency.

Fanless Design

The fanless design reduces noise, enhances user experience, reduces mechanical losses and improves service life to a certain extent.

Technical Specification

Hardware

Included Power Adapter	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 Port 9-10: 2 × 1000Base-X (Uplink)
Debugging	1 × Console port
Reset Button	1
Power Supply	12 VDC, 1A
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: 12 W

Performance

Layer	Layer 2
Management Type	Yes
MTBF	2322286.99 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

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
Multicast	IGMP Snooping V1/V2

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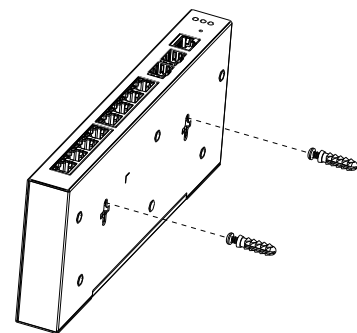
General

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	1.04 kg (2.29 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

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])

