8-port Managed PoE Gigabit Ethernet Switch

8-port PoE and Intelligent PoE

- Designed with EMC Shielding
- Desktop or Wall-mount Installation
- PoE 2.0: Intelligent PoE, PoE Watchdog, PoE 802.3bt (red ports), and Long-distance PoE (820.21 ft.)
- Layer 2 Network Management PoE Ethernet Switch
- Supports IEEE802.3af, IEEE802.3at, Hi-PoE, and IEEE802.3bt Standards
- Gigabit Port Design

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 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

PoE Watchdog functionality allows for intelligent operation and maintenance management. With watchdog functionality enabled, the switch automatically detects port status and restarts failed ports to recover connection in case of an IPC connection exception.

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).

Red Port 90W

The red ports support IEEE802.3af, IEEE802.3at, and IEEE802.3bt, with a maximum output power consumption of 90W per port. Suitable for powering high-power devices.

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.

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.

Minimal Web

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

Technical Specification

Interface

Power Adapter		Included
PoE		Supported
Ethernet Port		Eight (8)
Optical Port		Two (2)
Ethernet Port Speed		10/100/1000 Mbps
Optical Port Speed		1 Gbps
Optical Port Uplink Speed		1 Gbps
Port Slots	Port 1–8	Eight (8) 10/100/1000 Base-T
	Port 9–10	Two (2) 1000 Base-X
Debugging		One (1) Console Part
Reset Button		Yes

Performance

Layer		Layer 2
Management Type		Yes
Mean Time Between Failures (MTBF)		1,407,459.54 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

PoE

Protocol		IEEE 802.3af, IEEE 802.3at, Hi-PoE, IEEE, 802.3bt
Power	Port 1	≤ 90 W
	Port 2–8	≤ 30 W
	Full Load	≤ 110 W
Power Consumption Management		Supported
PIN Assignment		1, 2, 4, 5 (V+), 3, 6, 7, 8 (V-)
Long-distance Transmission		Supported
Spanning Tree Protocol		STP/RSTP
VLAN Function		Port-based VLAN
Link Aggregation		Static, LACP
IEEE 802.3x Flow Control		Supported (Full-duplex)
Multicast		IGMP Snooping V1/V2
DHCP Function		Client
QoS/ACL		QoS
Equipment Management		HTTP, HTTPS, SNMP V1/V2C/V3

Electrical

Power Supply		48-57 VDC, 2.22 A
Power Consumption	Idling Load	3.5 W
	Full Load	110 W

Environmental

Operating Temperature		–10 °C to +55 °C (+14 °F to +131 °F)
Operating Humidity		5% to 95% (RH), non-condensing
Statics Protection	Air Discharge	8 kV
	Contact Discharge	6 kV
Lightning Protection	Common Mode	4 kV
	Differential Mode	2 kV

Construction

Casing	SGCC
Installation	Desktop Mount, Wall Mount
Net Weight	0.64 kg (1.41 lb)
Gross Weight	1.50 kg (3.30 lb)
Product Dimensions (L × W × H)	240 mm × 104 mm × 28 mm (9.45 in. × 4.12 in. × 1.10 in.)
Package Dimensions (L × W × H)	316 mm × 240 mm × 82 mm (12.44 in. × 9.45 in. × 3.23 in.)

Certifications

CE-EMC	EN50130-4: 2011 +A1:2014 EN55032: 2015+A1:2020 EN55035: 2017+A11:2020 EN61000-3-3: 2013+ A1:2019+A2:2021 EN IEC 61000-3-2: 2019+A1:2021
CE-LVD	IEC 62368-1:2014+A11: 2017

Transmission Performance

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

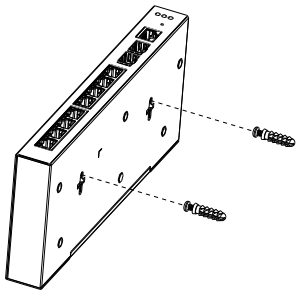
Cable (m)	Load Capacity (W)	Bandwidth (Mbps)
IEEE802.3bt 90 W		
100	71.3	100
150	62	10
200	51	10
250	40	10
Hi-PoE 60 W		
100	53	100
150	50	10
200	47	10
250	37	10
IEEE802.3at 30 W		
100	25.5	100
150	25.5	10
200	25.5	10
250	25.5	10

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	Part Number	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 [in.]