

4-port PoE Hardened Managed Megabit Ethernet Switch

Managed Hardened Switch with 4-Port PoE



- Four (4) 100 Mbps Ethernet Ports and Three (3) 1000 Mbps Uplink Optical Ports
- Complies with IEEE 802.3af and IEEE802.3at and Hi-PoE/IEEE 802.3bt (Red Port Only) Power Supply Standards
- IEEE802.1Q-based VLAN Configuration.
- 250 m PoE Distance with 10 Mbps Transmission Speed
- PoE Watchdog Functionality
- Desktop and DIN-rail Mount
- Engineered for stability in harsh environments

System Overview

Dahua's 4-port PoE Hardened Managed Megabit Ethernet Switch has four (4) 10/100 Mbps Ethernet ports and three (3) 1000M SFP uplink ports. With its all-metal design, the product has good heat dissipation but low power consumption and can work in environments from -30°C to $+65^{\circ}\text{C}$. With Telnet, web management, SNMP and other functions, the device can be remotely managed.

Functions

Long-distance PoE

The switch has a transmission distance of up to 250 m (820.21 ft) when long-range transmission is enabled, meeting the requirement of wired transmission (bandwidth reduced to 10 Mbps).

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.

Power Supply Compatibility

The red ports support IEEE802.3af, IEEE802.3at, IEEE802.3bt and Hi-PoE standards with a maximum output power consumption of 90W per port.

Loop Convergence

The device selectively blocks redundant links on the network to eliminate Layer 2 loops. In case of disconnected link, it converges in a timely manner without interfering video transmission.

Environmental

The switch is designed with high lightning and ESD protection and mine-proof circuits to withstand harsh environments. It can operate at ambient temperatures between -30°C and $+65^{\circ}\text{C}$ (-22°F and $+149^{\circ}\text{F}$).

Technical Specification		
Interface		
Power Adapter		Included
PoE		Supported
Ethernet Port		Four (4)
Optical Port		Three (3)
Ethernet Port Speed		10/100 Mbps
Optical Port Speed		1000 Mbps
Port Slots	Port 1–4	Four (4) 10/100 Base-T (PoE)
	Port 5–7	Three (3) 1000 Base-X
Reset Button		Yes
Performance		
Layer		Layer 2
Switching Capacity		6.8 Gbps
Packet Forwarding Rate		5.06 Mpps
Packet Buffer Size		1 Mb
MAC Table Size		8K
VLAN Number		31
Communication Standard		IEEE 802.3, IEEE 802.3u, IEEE 802.3X, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3az, IEEE 802.3ad, IEEE 802.3ae
PoE		
Protocol		IEEE 802.3af, IEEE 802.3at, Hi-PoE, IEEE 802.3bt
Power	Port 1	≤ 90 W
	Port 2–4	≤ 30 W
	Full Load	≤ 96 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, Dynamic
IEEE 802.3x Flow Control		Supported
Multicast		IGMP Snooping V1/V2
ARP		Supported
DHCP Function		Client
QoS/ACL		WRR queuing (the default scheduling ratio is 1:2:4:8), SP Queuing, Priority Mapping
Equipment Management		Supported
Electrical		
Power Supply		48-57 VDC, 2 A-1.68 A
Power Consumption	Idling	4 W
	Full Load	96 W
Environmental		
Operating Temperature		–30 °C to +65 °C (–22 °F to +149 °F)
Operating Humidity		5%–95% (RH)
Storage Temperature		–40 °C to +70 °C (–40 °F to +158 °F)
Storage Humidity		5%–95% (RH)
Statics Protection	Air Discharge	8 kV
	Contact Discharge	6 kV
Lighting Protection	Common Mode	4 kV
	Differential Mode	2 kV
Construction		
Casing		Metal
Installation		Desktop Mount, Guide Rail Mount
Net Weight		0.6 kg (1.32 lb)

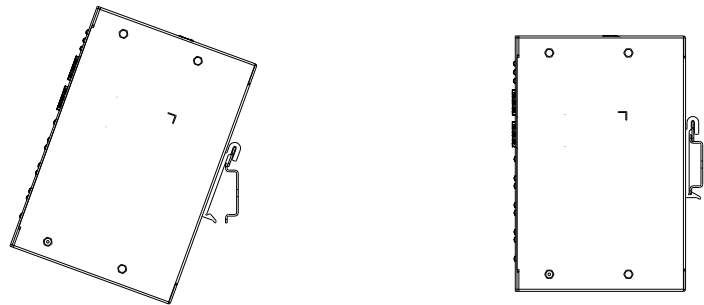
Gross Weight	1.28 kg (2.82 lb)
Product Dimensions	100 mm × 42 mm × 150 mm (3.94 in. × 1.65 in. × 5.91 in.)
Packaging Dimensions	265 mm × 238 mm × 76 mm (10.43 in. × 9.37 in. × 2.99 in.)
Certifications	
CE	IEC 62368-1:2014, EN 55032: 2015+A11:2020, EN 61000-3-3: 2013+A1: 2019, EN IEC 61000-3-2: 2019+A1:2021, EN 50130-4: 2011 +A1:2014, EN 55035: 2017+A11:2020
FCC	ANSI C63.4 & 47 CFR PART 15B

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.]

