DH-S4220-16GT-190

20-Port Managed Gigabit Switch with 16-Port PoE



- Layer 2 network management PoE switch.
- Supports web, and network management software based on SNMP.
- Network redundancy: STP/RSTP.
- Supports PoE power consumption management, PoE power off management.
- Supports IEEE802.3af, IEEE802.3at.
- Port 1 and port 2 support IEEE802.3bt, and are compatible with Hi-PoE.
- Supports PoE watchdog.
- Supports 250 m long-distance transmission mode.



Series Overview

Equipped with a high performance switching engine, the 16/24-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

All-Gigabit Ports

Designed with large buffer memory and all-Gigabit ports, enabling high-definition access of large stream.

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.

Non-blocking Video Transmission

Large buffer memory can increase concurrent data processing capacity, and guarantee real-time video transmission in regardless of transient large video stream.

Minimal WEB

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

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.

16/24-Port PoE All-Gigabit Managed Switch | DH-S4220-16GT-190

Technical Specification

Basic

Switching Capacity	56 Gbps
Packet Forwarding Rate	29.76 Mpps
Description of Function Slots	Port 1-16: 16 × RJ-45 10/100/1000 Mbps (PoE) Port 17-18: 2 × RJ-45 10/100/1000 Mbps (uplink) Port 19-20: 2 × SFP 1000 Mbps (uplink)
Operating Temperature	–10 °C to +55 °C (+14 °F to +131 °F)
Operating Humidity	5%–95% (RH), non-condensing
Power Supply	100-240 VAC, 50/60 Hz, 3.5 A
Included Power Adapter	Yes
Power Consumption	Idling: ≤ 20 W Full load: 190 W
Fan	Yes
Air Flow	from left to right
Statics Protection	Air discharge: 8 kV; Contact discharge: 6 kV
Lightning Protection	Common mode: 4 kV Differential mode: 2 kV
Net Weight	3.405 kg (7.51 lb)
Gross Weight	4.51 kg (9.94 lb)
Product Dimensions	440 mm × 300 mm × 44 mm (17.32" × 11.81" × 1.73") (L × W × H)
Packaging Dimensions	525 mm × 410 mm × 110 mm (20.67" × 16.14" × 4.33") (L × W × H)
Certifications	CE

PoE

PoE	Yes
PoE Power	port 1-2 ≤ 90 W, port 3-16 ≤ 30 W, Full load ≤ 190 W
PoE Protocol	IEEE 802.3af; IEEE 802.3at; Hi-PoE; IEEE 802.3bt
PoE Power Consumption Management	Yes
PoE Pin Assignment	1,2,4,5（V+）,3,6,7,8（V-）
Long Distance PoE Transmission	Yes
PoE Watchdog	Yes

Hardware

Debugging	Console × 1
Reset Button	1

Performance

MTBF	467125.73 hours
Packet Buffer Size	4.1 Mbit
Jumbo Frame	10K Byte
MAC Table Size	8K
Total Static MAC Addresses	256
Flash	32 MB
RAM	2Gbit
Communication Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3ad
Aggregation Group	8
VLAN Number	4K
VLAN Interface	10
IPv4 Routes	512
Dynamic ARP	496
Static ARP	128
QoS Queue	8

Feature

LLDP	Yes
Ethernet Loop Protection	STP、RSTP
VLAN Function	Yes
Link Aggregation	Static link aggregation; LACP
Mirror	Yes
Multicast	IGMP Snooping
Routing	Static Routing
ARP	ARP
DHCP Function	DHCP Client;DHCP Snooping;DHCP Server;DHCP Snooping Option 82
Security	SSH2.0;802.1X; Port isolation; Radius; HTTPS
QoS/ACL	SP/WRR queue scheduling; 802.1p and DSCP priority mapping; Port speed limit；
Equipment Management	Web; Cloud management; DSS Pro; Telnet; SSH; SNMP V1/V2C/V3; NTP; Logs; Ping; VCT;

Transmission Performance

Switch power supply voltage 54V.
CAT6. Max. DC resistance < 8 Ω/100 m

Cable(m)	Load Capacity(W)	Bandwidth(Mbps)
IEEE802.3bt 90W		
100	71.3	1000
150	62	10
200	51	10
250	40	10

Hi-PoE 60W

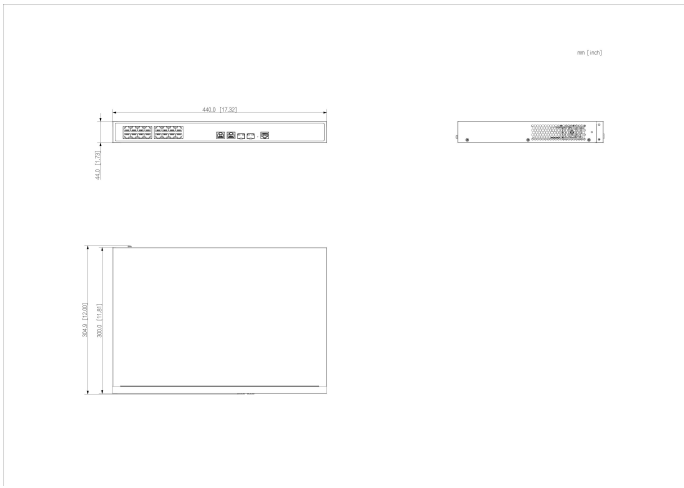
100	46	1000
150	42	10
200	37	10
250	32	10

IEEE802.3at 30W

100	25.5	1000
150	25.5	10
200	25.5	10
250	24	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.

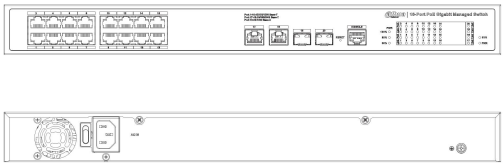
Dimensions (mm[inch])



Ordering Information

Type	Model	Description
PoE Switch	DH-S4220-16GT-190	20-Port Managed Gigabit Switch with 16-Port PoE
Accessories (Optional)	GSFP-RJ45	RJ45 SFP Module
	GSFP-850-MMF	SFP Optical Module
	GSFP-1310-20-SMF	SFP Optical Module
	GSFP-1310R-20-SMF	SFP Optical Module
	GSFP-1310T-20-SMF	SFP Optical Module

Panels



Accessories

Optional:



GSFP-RJ45
RJ45 SFP Module



GSFP-850-MMF
SFP Optical Module



GSFP-1310-20-SMF
SFP Optical Module



GSFP-1310R-20-SMF
SFP Optical Module



GSFP-1310T-20-SMF
SFP Optical Module

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