DH-S5452-48GT4XF-750

52-Port L2+ Managed Switch with 48-Port PoE



- All-gigabit port design (10 gigabit uplink port)
- Meets the requirements of IEEE 802.3af and IEEE 802.3at power supply standards. The red port complies with Hi-PoE/IEEE 802.3bt standard.
- Long distance PoE.
- PoE watchdog real-time monitors camera statues and automatically reboots faulty network cameras.
- Supports STP, RSTP and ERPS
- IEEE802.1Q-based VLAN configuration
- Static link aggregation and dynamic link aggregation
- Easy to manage the device through the webpage.
- EMC compliant, the device is lightning proof.
- Desktop mount and rack mount.



Series Overview

The device is a 10 Gbps uplink switch with a high-performance switch engine and large cache. It provides smooth transmission of video streams. The switch has great heat dissipation and can operate in temperatures ranging -10°C to 55°C. The switch can be remotely managed through the DoLynk Care cloud platform, an easy to use webpage, and SNMP. The red port provides up to 90W PoE power. The device supports link aggregation and STP to ensure high network stability. It is widely used in digital transformation and network construction by small and medium-sized enterprises, chain business, branches, government structures, schools, hotels, and more.

Functions

Long Distance PoE

The transmission distance of a PoE port can be up to 250 m, meeting the requirement of wired transmission (bandwidth reduced to 10 Mbps).

PoE Watchdog

Adopts the innovative PoE Watchdog. 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.

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.

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.

Minimal WEB

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

Technical Specification

Basic

Layer	Layer 2
Switching Capacity	176 Gbps
Packet Forwarding Rate	130.944 Mpps
Description of Function Slots	Port 1-48: 48 × RJ-45 10/100/1000 Mbps (PoE) Port 49-52: 4 × SFP+ 1/10 Gbps (uplink)
Operating Temperature	–10 °C to +55 °C (+14 °F to +131 °F)
Operating Humidity	5%–95% (RH), non-condensing
Storage Humidity	5%–95% (RH), non-condensing
Power Supply	Built-in power supply: 100–240 VAC, 50/60 Hz, 12 A Max
Included Power Adapter	Yes
Power Consumption	Idling: 31.4 W Full load: ≤ 800 W
Fan	3
Statics Protection	Air discharge: 8 kV; Contact discharge: 6 kV
Lightning Protection	Common mode: 4 kV Differential mode: 2 kV
Net Weight	5.7 kg (12.57 lb)
Gross Weight	7 kg (15.43 lb)
Product Dimensions	440 mm × 391 mm × 44.0 mm (17.32" × 15.39" × 1.73") (L × W × H)
Packaging Dimensions	561 mm × 513 mm × 146 mm (22.09" × 20.20" × 5.75") (L × W × H)
Installation	Rack mount; desktop mount
Certifications	CE

PoE

PoE	Yes
PoE Power	Port 1-4 ≤ 90 W, Port 5-48 ≤ 30 W, total ≤ 750 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	1 × Console port
Reset Button	1

Performance

Packet Buffer Size	16 Mbit
Jumbo Frame	12288 Byte
MAC Table Size	32K
Total Static MAC Addresses	256
Flash	64 Mbyte
RAM	4096 Mbit
Communication Standard	IEEE 802.3; IEEE 802.3u; IEEE 802.3x; IEEE 802.3ab; IEEE 802.3z; IEEE 802.3ad
Aggregation Group	26
VLAN Number	4094
VLAN Interface	16
IPv4 Routes	2K
Dynamic ARP	2K
Static ARP	256
QoS Queue	8
Number of IPv4 ACL	2K
Traffic Limit Granularity	16 Kbps

Feature

LLDP	Yes
Ethernet Loop Protection	STP/RSTP/ERPS
VLAN Function	Port-based VLAN
Link Aggregation	LACP; Static link aggregation; Dynamic link aggregation
Port Feature	IEEE 802.3x flow control; Unknown unicast suppression; Multicast storm control; Broadcast storm control
IEEE 802.3x Flow Control	Yes
Mirror	CPU mirroring; N:1 mirroring; Local port mirroring
Multicast	IGMP Snooping
Reliability	LLDP
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 ; ACL
Equipment Management	Web; Cloud management; DSS Pro; Telnet; SSH; SNMP V1/V2C/V3; NTP; Logs; Ping; VCT;

General

Packing List	1 × User Manual; 1 × Legal and Regulatory Information; 1 × Warranty Card; 1 × List of Hazardous Substances; 1 × Power Cord; 1 × Rack-mounting Kit

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.

Ordering Information

Type	Model	Description
PoE Switch	DH-S5452-48GT4XF-750	52-Port L2+ Managed Switch with 48-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
	TSFP-850-MMF	SFP+ Optical Module
	TSFP-1270R-20-SMF	SFP+ Optical Module
	TSFP-1270T-20-SMF	SFP+ Optical Module
	TSFP-1310-20-SMF	SFP+ Optical Module
	TSFP-1550-40-SMF	SFP+ Optical Module

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



TSFP-850-MMF
SFP+ Optical Module



TSFP-1270R-20-SMF
SFP+ Optical Module



TSFP-1270T-20-SMF
SFP+ Optical Module

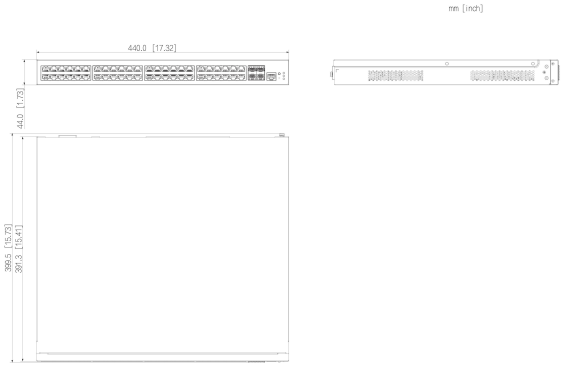


TSFP-1310-20-SMF
SFP+ Optical Module



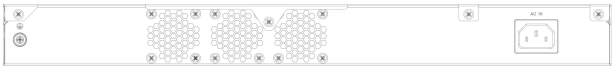
TSFP-1550-40-SMF
SFP+ Optical Module

Dimensions (mm[inch])



Panels





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