Dahua
TECHNOLOGY

DH-S5452-48GT4XF
52-Port L2+ Managed Switch with 4-Port 10G SFP+

· All-gigabit port design (10 gigabit uplink port).

· 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.

System Overview

The device is a 10 Gbps uplink switch with a high-performance switch engine and large cache. The switch has great heat dissipation and can operate in temperatures ranging-10°C to 55°C. The switch can be remotely managed through an easy to use webpage, and SNMP. 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

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.

Link Aggregation
Combines multiple physical links into one virtual channel for dynamic redundancy and load balancing, ensuring that the connection remains stable.
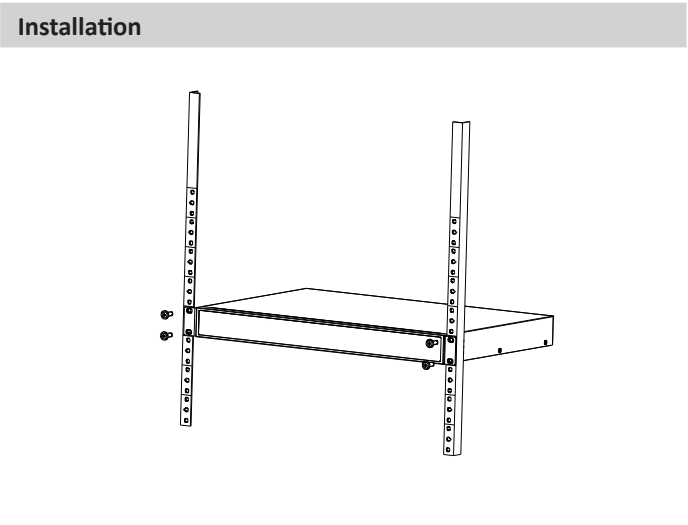
Spanning Tree Protocol (STP)
Uses algorithms that calculate the best loop-free path through a Layer 2 network while providing path redundancy to prevent the occurrence of broadcast storms and enhance the stability of operations and services.

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 Port 49-52: 4 × SFP+ 1/10 Gbps
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, 2 A
Power Consumption	Idling load: 17.5 W Full load: ≤ 60 W
Statics Protection	Air discharge: 8 kV Contact discharge: 6 kV
Lightning Protection	Common mode: 4 kV Differential mode: 2 kV
Net Weight	4.8 kg (10.58 lb)
Gross Weight	6.1 kg (13.45 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

Hardware

Debugging	1 × Console port
Reset Button	1

Performance

Packet Buffer Size	16 Mbit
Jumbo Frame	12288 Byte
MAC Table Size	32K
Communication Standard	IEEE 802.3; IEEE 802.3u; IEEE 802.3x; IEEE 802.3ab; IEEE 802.3z; IEEE 802.3ad
VLAN Number	4094
VLAN Interface	10

Feature

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
Multicast	IGMP Snooping

Reliability	LLDP
DHCP Function	DHCP Client
Security	802.1X Port isolation Radius HTTPS
QoS/ACL	SP/WRR queue scheduling 802.1p and DSCP priority mapping Port speed limit
Equipment Management	Web SNMP V1/V2C/V3 NTP Logs Ping

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

Ordering Information

Type	Model	Description
SFP module	GSFP-RJ45	Gigabit RJ45 SFP Module
	GSFP-1310T-20-SMF	Gigabit 1310/1550nm,20km,LC, Single-mode
	GSFP-1310R-20-SMF	Gigabit 1550/1310nm,20km,LC, Single-mode
	GSFP-1310-20-SMF	Gigabit 1310nm,20km,LC, Single-mode
	GSFP-850-MMF	Gigabit 850nm,550m,LC, Multi-mode
	TSFP-1270T-20-SMF	10G 1270/1330nm,20km,LC, Single-mode
	TSFP-1270R-20-SMF	10G 1330/1270nm,20km,LC, Single-mode
	TSFP-1310-20-SMF	10G 1310nm,20km,LC, Single-mode
	TSFP-1550-40-SMF	10G 1550nm,40km,LC, Single-mode
	TSFP-850-MMF	10G 850nm,300m,LC, Multi-mode

Installation

Dimensions (mm[inch])