dahua
TECHNOLOGY

DH-S5428-24GF4XF-H

· Rich layer 3 features.

· Excellent manageability.

· High availability.

· 10 Gbps uplink.

· ERPS protocol provides loop protection.

System Overview

Dahua Aggregation Switch Series are high performance Gigabit Ethernet switches with full L2 and L2+ features, enterprise-level Quality of Service (QoS), enhanced security control and a bundle of ISP features.

Functions

10G Uplink
Suitable for aggregation scenarios, guaranteeing smooth transmission of large concurrent data.

Advanced L3 Features
Powerful layer 3 features are supported, including Static Routing, RIP, OSPF and VRRP, addressing enterprise access and aggregation service demands, helping to build scalable and reliable networks.

Virtual Stack
Virtual Stack can virtualize multiple switches into one. Virtual stack delivers the following benefits:
High Availability (HA) — Provides data backup and non-stop forwarding to the control plane and data plane. This improves availability, performance, eliminates single-point failures and ensures service continuity.
Distribution — Multi-chassis link aggregation that enables load sharing and backup over multiple uplinks, improving redundancy and link utilization.
Easy Management — A single IP address for managing the entire virtual stack, which simplifies device and topology management, improves operating efficiency, and lowers network maintenance cost.

Scene

Suitable for scenes such as SMEs, chain businesses, branches, government structures, schools, and hotels.

Specification

Hardware

Included Power Adapter	Yes
PoE	No
Ethernet Port	8
Optical Port	24
Ethernet Port Speed	10/100/1000 Mbps
Optical Port Speed	100/1000 Mbps
Optical Port Uplink Speed	1/10 Gbps
Description of Function Slots	Port 1-8: 8 × 10/100/1000 Mbps Base-T (Combo) Port 1-8: 8 × 100/1000 Mbps Base-X (Combo) Port 9-24: 16 × 10/100/1000 Mbps Base-X Port 25-28: 4 × 1/10 Gbps Base-X
Debugging	1 × Console port
Power Supply	Built-in power supply: 100–240 VAC, 50/60 Hz, 1.2 A
Operating Temperature	−10 °C to +50 °C (+14 °F to +122 °F)
Operating Humidity	10%–90% (RH), non-condensing
Storage Temperature	−40 °C to +75 °C (−40 °F to +167 °F)
Storage Humidity	5%–95% (RH), non-condensing
Power Consumption	40 W

Performance

Layer	Layer 3
Management Type	Yes
MTBF	10 years
Switching Capacity	336 Gbps

Aggregation Switch | DH-S5428-24GF4XF-H

Packet Forwarding Rate	108 Mpps
Packet Buffer Size	1.5 Mbit
Jumbo Frame	9K
MAC Table Size	16K
VLAN Number	4K
VLAN Interface	63
IPv4 Routes	502
Dynamic ARP	2K
Communication Standard	IEEE 802.3

Feature

Spanning Tree Protocol	STP/RSTP/MSTP ERPS/EAPS
VLAN Function	GVRP QinQ Private VLAN Voice VLAN
Link Aggregation	Static link aggregation Dynamic link aggregation
IEEE 802.3x Flow Control	Yes
Multicast	IGMP v1/v2/v3 IGMP Snooping IGMP Fast Leave Multicast group and number of Multicast group limit Multicast VLAN
Reliability	Stack VRRP
ARP	ARP, RARP, free ARP Dynamic ARP Inspection ARP anti-attack ARP source suppression
DHCP Function	DHCP Client DHCP Snooping DHCP Relay DHCP Server
Routing	Static routing RIPv1/v2/ng OSPFv2/v3 Policy based routing
Security	ACL traffic recognition and ACL filtering security Port isolation Port security IP/Port/MAC binding DHCP snooping DHCP option82 IEEE 802.1x authentication RADIUS authentication Hierarchical protection of command line
QoS/ACL	Traffic classification based on source MAC, destination MAC, source IP, destination IP, TCP/UDP port number, and VLAN Committed Access Rate (CAR) 802.1p priority and DSCP priority Flexible queue scheduling algorithms based on both port and queue, including SP, WRR, WFQ, SP+WRR, and WDRR Traffic supervision and shaping L2/L3/L4 ACL IPv4/IPv6 ACL VLAN ACL

IPv6	ICMPv6; DHCPv6; ACLv6; IPv6 Telnet IPv6 Neighbor Discovery Path MTU Discovery MLD v1/v2 MLD Snooping
Equipment Management	FTP/TFTP upgrading CLI/Telnet/Console Configuration SNMP v1/v2c/v3 System log, debugging information exporting Ping/Tracert LLDP

General

Statics Protection	Air discharge: 8 kV Contact discharge: 6 kV
Lighting Protection	Common mode: 2 kV Differential mode: 1 kV
Net Weight	3.5 kg (7.72 lb)
Gross Weight	4.85 kg (10.69 lb)
Product Dimensions	440 mm × 280 mm × 44 mm (17.32" × 11.02" × 1.73") (L × W × H)
Packaging Dimensions	527 mm × 412 mm × 112 mm (20.75" × 16.22" × 4.41") (L × W × H)
Casing Material	Metal
Installation	Desktop mount; rack mount

Ordering Information

Type	Model	Description
SFP Module	SFP-1310T-20-SMF	155M 1310/1550 nm, 20 km, LC, Single-mode [optional]
	SFP-1310R-20-SMF	155M 1550/1310 nm, 20 km, LC, Single-mode [optional]
	GSFP-1310-20-SMF	1.25G 1310nm, 20km, LC, Single-mode[optional]
	GSFP-1310R-20-SMF	1.25G 1550/1310 nm, 20 km, LC, Single-mode[optional]
	GSFP-1310T-20-SMF	1.25G 1310/1550 nm, 20 km, LC, Single-mode [optional]
	TSFP-1270T-20-SMF	10G 1270/1330 nm, 20 km, LC, Single-mode [optional]
	TSFP-1270R-20-SMF	10G 1330/1270 nm, 20 km, LC, Single-mode [optional]
	SFP-850-MMF	155M 850 nm, 2km, LC, Multi-mode [optional]
	GSFP-850-MMF	1.25G 850 nm, 500 m, LC, Multi-mode [optional]
	TSFP-850-MMF	10G 850 nm, 300m, LC, Multi-mode [optional]

Dimensions (mm[inch])

279.6[11.02]

440.0[17.32]

44.0[1.73]