

DH-S10508



- · Fully compliant with 40GE Ethernet standards.
- · Support virtualization technologies.
- · Hardware level encryption technology MACsec.
- · High-performance IPv4/IPv6 service capabilities.
- · Comprehensive security control policies.
- · Support hot swapping for all components.
- \cdot Advanced CLOS multistage and multi-plane switching architecture, delivering great bandwidth scalability.

System Overview

With its modular design, S105 Series Switch is a high-performance switch that is reliable, intuitive, and easy to manage and maintain. It is a professional, multi-service routing switch that fully meets the 40G Ethernet standards. It offers uninterrupted forwarding and updates, quick restart, loop protection and more. It also improves efficiency and maximizes on network uptime, reducing the total cost of ownership (TCO).

Functions

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.

Abundant QoS Features

The switch offers abundant QoS features, including:

Priority Settings – Offers packet filtering based on packet header fields from layer 2 through layer 4, including source MAC, destination MAC, source IP, destination IP, TCP/UDP port number, protocol type, and VLAN.

Advanced algorithms – Flexible queuing and scheduling algorithms configured on a per-port or per-queue basis, including strict priority (SP), weighted round robin (WRR), and SP+WRR. It also supports port mirroring in both outbound and inbound directions for network monitoring and troubleshooting.

Outstanding Management Capacity

The switch provides a variety of management features and is easy to manage. It offers the following features for device management:

Multiple management ports – Provides multiple management interfaces, including the console port, USB port, and out-of-band management Ethernet port.

Traffic monitoring and analysis – To help customers gain visibility into network application traffic, the switch provides a variety of traffic monitoring and analytics tools, including local port mirroring and layer 2 remote port mirroring. With these tools, multiple ports can be specified to collect network traffic data to evaluate the health status of the network, create traffic analysis reports, perform traffic engineering, and optimize resource allocation.

Redundant Power Supply

Redundant power supply ensures that the device is still powered when one power port mulfunctions, which improves device reliability.

Specification		Reliability	virtual stack VRRP
Hardware		,	DLDP
PoE	No	ADD	ARP Dynamic ARP Inspection ARP anti-attack ARP source-suppression ARP Detection
Total Slots	16	ARP	
upervisor Engine Module	2	DHCP Client DHCP Snooping DHCP Relay	
ine Card	8		
Switch Fabric Card	6		DHCP Server
Debugging	1 × Console port 1 × USB port 1 × RJ-45 port 1 × SFP port	AAA auth RADIUS a HWTACA(SSH2.0;	Hierarchical user manag AAA authentication sup RADIUS authentication; HWTACACS; SSH2.0; Port security
Hot Plug	Yes		IP Source Guard 802.1X authentication a
Power Supply	6 × Power supply, 100-240 VAC, 50/60 Hz	Security authentication Portal authentication DHCP snoopin Dynamic ARP	authentication Portal authentication
Operating Temperature	0 °C to +45 °C (+32 °F to +113 °F)		DHCP snooping Dynamic ARP detection
Operating Humidity	5%–95% (RH), non-condensing		BPDU guard and root gu uRPF
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)		IP/Port/MAC binding Plaintext authentication OSPF and RIPv2 packets
Storage Humidity	5%–95% (RH), non-condensing		Public Key Infrastructure
Power Consumption	Full load: 3680 W	QoS/ACL	QoS/ACL
Performance		IPv6	Yes
Layer	Layer 3	Equipment Management	FTP; TFTP; Xmodem SNMP v1/v2/v3
Management Type	Yes	Cananal	RMON
Switching Capacity	512 Tbps	General	Air discharge: 8 kV
Packet Forwarding Rate	96000 Mpps	Statics Protection	Contact discharge: 6 kV
Packet Buffer Size	288 Mbit	Lighting Protection	Common mode: 2 kV Differential mode: 1 kV
Jumbo Frame	13312 Byte	Net Weight	46.5 kg (102.51 lb)
MAC Table Size	498K	Gross Weight	80.5 kg (177.47 lb)
VLAN Number	4094	Product Dimensions	440 mm × 640 mm × 53: (17.32" × 25.20" × 20.91
VLAN Interface	4094	Packaging Dimensions	950 mm × 750 mm × 89
IPv4 Routes	512K		(37.40" × 29.53" × 35.04
Dynamic ARP	88K	Installation	Rack mount
Communication Standard	IEEE802.3; IEEE802.3u; IEEE802.3ab; IEEE802.3z; IEEE802.3x		
Feature			
Ethernet Loop Protection	STP/RSTP/MSTP/ERPS/PVST		
VLAN Function	Yes		
Link Aggregation	Static link aggregation Dynamic link aggregation Multi-chassis link aggregation		
IEEE 802.3x Flow Control	IEEE 802.3x flow control; Priority-based flow control		
Multicast	IGMPv1/v2/v3 IGMPv1/v2/v3 Snooping PIM-SM/PIM-DM/PIM-SSM MSDP		

Ordering Information			
Туре	Model	Description	
SFP module	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]	
	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]	
	TSFP-850-MMF	10G 850 nm, 300m, LC, Multi-mode [optional]	
	GSFP-850-MMF	1.25G 850 nm, 500 m, LC, Multi-mode [optional]	
	SFP-850-MMF	155M 850 nm, 2km, LC, Multi-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]	
	QSFP-1310-10-SMF	SFP Optical Modul	
	QSFP-850-MMF	SFP Optical Modul	
Accessories	S10508-MPU	Supervisor Engine Module	
	S10508-NET	Switch Fabric Card	
	S105-PWR1600	Power Supply	
	S10508-FAN	Fan Tray	
	S105-16QFSF	16-Port QSFP+ Module	
	S105-32GF16XFSD	32-Port SFP and 16-Port SFP+ Module	
	S105-48XFSD	48-Port SFP+ Module	
	S105-48GT4XFSD	48-Port RJ45 and 4-Port SFP+ Module	

Dimensions (mm[inch])



