

DH-S5500-48GT4GF-AC

L2+ Managed S55 Series Switch with 48-Port RJ45 and 4-Port SFP



- High Performance
- Excellent manageability
- Enhanced service capabilities
- Comprehensive security control policies
- Support Intelligent Resilient Framework
- All ports support wire speed forwarding, with four GE uplink ports onboard

System Overview

DH-S5500-48GT4GF-AC is the latest development of Gigabit speed managed Ethernet switch. Besides high performance access, it also offers abundant security access policy control and enhanced network manageability and maintenance.

Functions

Virtualization Technologies - IRF2

DH-S5500-48GT4GF-AC is pre-built with Intelligent Resilient Framework 2 (IRF2).

IRF2 provides the following benefits:

High scalability: With IRF2, plug-n-play device aggregation can be achieved by adding one or more switches into the IRF2 stack and enabling IRF2 to stack on the new device. New devices can be managed with a single IP, and upgraded at the same time to reduce network expansion cost.

Load balancing: IRF2 supports cross-device link aggregation, upstream and downstream can be connected to more than one physical link, which creates another layer of network redundancy and boosts the network resource utilization.

Availability: DH-S5500-48GT4GF-AC implements IRF2 through standard Gigabit Ethernet (1GE) ports which allocates bandwidth for business and application access and reasonably splits local traffic and upstream traffic. IRF2 rules not only able to obey within and across the rack, but also across the LAN.

Comprehensive Security Control Policies

Support ARP Detection, which can prevent hack or ARP attack.

Support IP Source Guard, which can prevent illegal IP/MAC address spoof and DOS attack.

Support DHCP Snooping, which can prevent illegal DHCP server.

Support port security features, which can prevent MAC address based attack and MAC address permit/limit flow.

Support 802.1X and MAC authentication, client software version detection, guest VLAN, agent detection.

Excellent Manageability

DH-S5500-48GT4GF-AC makes switch management ease with the support of SNMP v1/v2/v3, which can be managed by NM platforms, such as Open View. With CLI and Telnet, switch management is easier. And with SSH 2.0 encryption, switch management security is enhanced.

Technical Specification

Hardware Feature	
Ethernet Port	48 x 10/100/1000 Mbps Base-T ports
Optical Port	4 x 1 Gbps Base-X ports
Console Port	1
Power Supply	One Power included
	Support single power
	100-240V AC 50-60 Hz (Internal)
Power Consumption	Idling: 18W Full load: 41W
Operating Temperature	0°C to 45°C (32°F to 113°F)
Operating Humidity	5%RH–95%RH
Storage Temperature	–40°C to 70°C (–40°F to 158°F)

Performance	
Layer	Layer 2+
Managed	Yes
Switching Capacity	256 Gbps
Packet Forwarding Rate	78Mpps
Packet Buffer Memory	12 Mbit
MAC Table Size	8K
VLAN Amount	4094 Entries
ARP Table	256 Entries
ACL Table	512 Entries
QoS Queue	8 Entries
Jumbo Frame	9216 Byte

Features	
VLAN	Port-based VLAN MAC-based VLAN Protocol-based VLAN QinQ and selective QinQ VLAN mapping Voice VLAN GVRP
Spanning Tree	STP RSTP MSTP
DHCP	DHCP client DHCP snooping DHCP snooping option82 DHCP relay DHCP server DHCP auto-config
Port Aggregation	Static link aggregation LACP
Mirroring	Port mirroring RSPAN

Multicast	IGMP snooping /MLD snooping Multicast VLAN
Security	Hierarchical user management and password protection AAA authentication support RADIUS authentication HWTACACS SSH2.0 Port isolation 802.1X authentication, centralized MAC authentication Port security IP source guard HTTPs
ACL/QoS	Packet filtering at Layer 2 through layer 4 traffic classification based on source MAC addresses, destination MAC addresses, source IPv4/IPv6 addresses Time range-based ACL VLAN-based ACL Bidirectional ACL Port rate limit (receiving and transmitting) Packet redirection Committed access rate (CAR) Eight output queues on each port
Management and maintenance	Loading and upgrading through XModem/FTP/TFTP Configuration through CLI, Telnet, and console port SNMP v1/v2/v3 and Web-based NMS Remote monitoring (RMON) alarm, event, and history recording System log, alarming based on severities, and output of debugging information NTP Ping, Tracert Virtual cable test (VCT) Device link detection protocol (DLDP) Loopback-detection

General	
Thunderproof	Common mode: 2 kV Differential mode: 1 kV
Net Weight	3.5 kg (7.72 lb)
Gross Weight	4.0 kg (8.82 lb)
Product Dimensions	440 mm × 230 mm × 43.6 mm (17.32" × 9.06" × 1.72")
Packaging Dimensions	540 mm × 340 mm × 90 mm (21.26" × 13.39" × 3.54")

Ordering Information		
SFP module	GSFP-1310T-20-SMF	1.25G 1310/1550nm, 20km, LC, Single-mode
	GSFP-1310R-20-SMF	1.25G 1550/1310nm, 20km, LC, Single-mode
	GSFP-1310-20-SMF	1.25G 1310nm,20km,LC, Single-mode
	GSFP-850-MMF	1.25G 850nm,550m,LC, Multi-mode