

DH-S5500-48GT4XF-E

52-Port Managed Gigabit Switch with 48-Port RJ45 and 4-Port 10G SFP+



- IRF2 intelligent resilient architecture.
- 10 Gbps uplink and all-gigabit ports.
- Great security functions.
- Management through the web client and CLI.
- Supports functions such as port aggregation, Layer-2 VLAN, ACL, and QoS.

System Overview

Easy to deploy and cost effective, S5500 Switch Series provides a network-access switching solution with integrated 1 and 10 GbE uplinks. This high density Ethernet switch offers static routing, IRF, RIP (Routing Information Protocol) and OSPF (Open Shortest Path First). It also enhances security and provides flexible management, meeting the needs of small and medium-sized enterprises, industrial parks and more.

Functions

Intelligent Resilient Framework 2 (IRF2)

IRF2 is the stacking technology used in conjunction with the spare ports on the panel. It offers the flexibility to stack over longer distances, such as hundreds of meters across buildings or several kilometers between sites, using long-range transceivers.

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.

Scene

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

Abundant Service Performance

Supports jumbo frame, IEEE 802.1X, MAC Certification, port security, LACP protocol, 4K VLANs, 16K MAC address table, Black Hole for MAC, port-based layer 2 and layer 3 prior automatic mapping, port mirroring, broadcast redirection, port isolation, Access Control List (ACL). It also limits port speed and offers a variety of IPv6 functions.

Complete Security Control Strategy

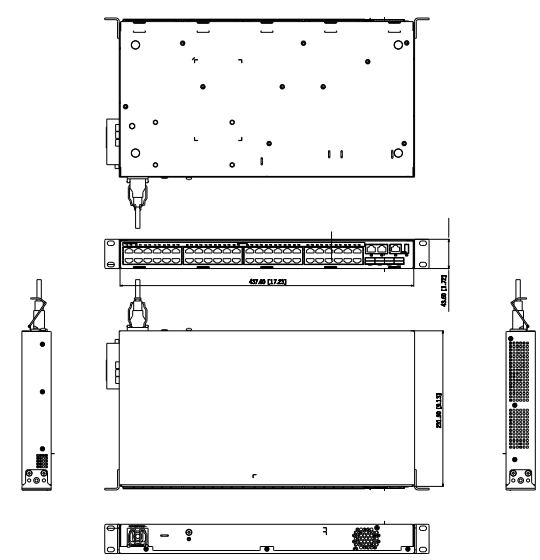
Multiple ARP (Address Resolution Protocol) defense functions are supported by the switch, such as ARP broadcast message and the rate limiting of ARP packets. It also verifies users with ARP detection and prevents a large number of ARP broadcast messages from impacting the CPU. The switch supports many types of authentication methods, such as IEEE 802.1X authentication and centralized MAC address authentication. It also easily adapts to the requirements of multiple authentication methods in the network environment.

Technical Specification	
Hardware	
Included Power Adapter	Yes
PoE	No
CPU Clock Speed	800 Mhz
Memory Size	512 MB
Flash Size	256 MB
Ethernet Port	48 × RJ-45 10/100/1000 Mbps
Optical Port	4 × SFP 1/10 Gbps
Ethernet Port Speed	10/100/1000 Mbps
Optical Port Speed	1/10 Gbps
Description of Function Slots	Port 1-48: 48 × 10/100/1000 Mbps BASE-T; Port 49-52: 4 × SFP+ 1/10 Gbps
Debugging	1 × Console port
Power Supply	100–240 VAC, 50/60 Hz
Operating Temperature	–5 °C to 45 °C (23 °F to 113 °F)
Operating Humidity	5%–95% (RH), non-condensing
Storage Temperature	–40 °C to +70 °C (–40 °F to +158 °F)
Storage Humidity	5%–95% (RH), non-condensing
Power Consumption	AC Idling: 15 W; Full load: 55 W
Performance	
Layer	Layer 3
Management Type	Yes
Switching Capacity	176 Gbps
Packet Forwarding Rate	130.952 Mpps
Packet Buffer Size	1.5Mbytes
Jumbo Frame	10K Byte
MAC Table Size	16K
VLAN Number	4K
VLAN Interface	32
IPv4 Routes	1K
Dynamic ARP	1K
Communication Standard	IEEE 802.3; IEEE 802.3u; IEEE 802.3X; IEEE 802.3ab; IEEE 802.3z; IEEE 802.3ad; IEEE 802.3ae
Features	
Ring Network Protocol	STP/RSTP/MSTP/PVST Smart Link RRPP G.8032 ERPS
Routing	Static routing IPv6 policed routing RIPv1/v2/ng OSPFv2/v3 Policy based routing
VLAN Function	Port-based VLAN MAC-based VLAN Protocol-based VLAN Subnet-based VLAN QinQ, flexible QinQ VLAN Mapping Voice VLAN MVRP
Link Aggregation	Static link aggregation Dynamic link aggregation Cross-device link aggregation Gigabit Ethernet port aggregation 10 Gigabit Ethernet port aggregation
IEEE 802.3x Flow Control	Yes
Multicast	IGMP Snooping v1/v2/v3 PIM Snooping Multicast VLAN IGMP v1/v2/v3
Reliability	IRF; VRRP; DLDp; LLDP; VCT
ARP	ARP source suppression Dynamic ARP source detection ARP anti-attack ARP detection ARP rate limit
DHCP Function	DHCP Client DHCP Snooping DHCP Relay DHCP Server DHCP Snooping option 82 DHCP Relay option 82 DHCP Snooping Trust DHCP Snooping entry backup
Security	Multi-level user management and password protection 802.1X RADIUS SSH 2.0 Port isolation HWTACACS IP/Port/MAC binding IP Source Guard HTTPS Triple
QoS/ACL	802.1p/DSCP priority tag Packet filtering SP/WRR/SP+WRR queue scheduling Port-based rate limit Traffic-based redirection Time range
IPv6	ICMPv6 Traceroute v6 Telnet v6 SSH2 v6 ND/ND snooping/ND proxy/ND detection SAVI IPv6 Portal DNS Client for IPv6 SNMP for IPv6 RIPNG and OSPFv3 IPv6 policy routing MLD Snooping v1/v2 VRRP v3 DHCPv6 snooping/DHCPv6 client/DHCPv6 relay/ DHCPv6 server IPv6 port binding

Equipment Management	Load update files and update using Xmodem/FTP/TFTP Configure through CLI, Telnet, and Console port SNMPv1/v2/v3 Web network management RMON alarm, RMON event, and RMON history System logs, multi-level alarms, and debug information HGMPv2 NTP Ping and Tracert VCT DLDP Port loopback detection Power supply, fan, and temperature alarms BFD
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General	
Lighting Protection	Common mode: 2 kV Differential mode: 1 kV
Net Weight	3.25 kg (7.2 lb)
Product Dimensions	440 mm × 360 mm × 43.6 mm (17.32" × 14.17" × 1.72")
Certifications	CE EMC: FCC

Dimensions (mm [inch])



Ordering Information

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