

DH-S5500-48GT4XF-E



Intelligent Resilient Framework 2 (IRF2)
Comprehensive security control policies
Excellent manageability
High availability

System Overview

DH-S5500-48GT4XF-E switch is a simple, cost-effective and easy-to-deploy layer 2+ access switching solution. It offers enhanced security, highdensity GE and 10GE uplinks, static route, RIP, OSPF and IRF, flexible management, which meet the requirements of SME access, enterprise desktop access and high density campus access.

Functions

Intelligent Resilient Framework 2 (IRF2)

IRF2 provides the following benefits:

High scalability: Plug-n-play device aggregation can be achieved by adding one or more switches into the IRF2 stack and enabling IRF2 stacking on the new device. New devices can be managed with a single IP, and upgraded at the same time to reduce network expansion cost. High reliability: The IRF2 1:N backup technology allows each sub device in the IRF2 stack to serve as the backup of the main device, creating control and data link redundancy.

Availability: DH-S5500-48GT4XF-E implements IRF2 through standard Gigabit Ethernet (1GE) ports or Ten Gigabit Ethernet (10GE) ports which allocates bandwidth for business and application access and reasonably splits local traffic and upstream traffic. IRF2 rules not only able to be obeyed within and across the rack, but also across the LAN.

Abundant QoS

DH-S5500-48GT4XF-E supports packet filtering at layer 2 through layer 4, and traffic classification based on source MAC addresses, destination MAC addresses, source IP addresses, destination IP addresses, TCP/UDP port numbers, protocol types, and VLANs. It supports flexible queue scheduling algorithms based on ports and queues, including strict priority (SP), weighted round Robin (WRR) and SP+WRR. The DH-S5500-XF-E switch series enables committed access rate (CAR) with the minimum granularity of 8 kbps. It supports port mirroring in the outbound and inbound directions, to monitor the packets on the specific ports, and to mirror the packets to the monitor port for network detection and troubleshooting.

High Availability

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Comprehensive Security Control Policies

DH-S5500-48GT4XF-E supports innovative single-port multi-authentication function, and the access authentication modes supported by different clients are different.

DH-S5500-48GT4XF-E supports SSH V2 (Secure Shell V2) to secure information security, and strong authentication protect the Ethernet network switch from attacks such as IP address spoofing and clear text interception.

ARP attack and ARP virus are major threats to LAN security, so DH-S5500-48GT4XF-E comes with diverse ARP protection functions such as ARP Detection to challenge the legitimacy of client, validate the ARP packets, and set a speed limit for ARP to prevent ARP swarm attacks from targeting CPU.

Aggregation Switch | DH-S5500-48GT4XF-E

Technical Specification		Mirroring	Port mirroring RSPAN
Hardware Feature		Multicast	IGMP Snooping /MLD Snooping Multicast VLAN
Ethernet Port	48 x 10/100/1000 Mbps ports		Distributed device management, distributed link
Optical Port	4 x 1/10 Gbps Base-X ports	IRF aggregation, and distribu Stacking through standar	aggregation, and distributed resilient routing Stacking through standard Ethernet interfaces
Console Port	1		Local device stacking and remote device stacking
	One power inclued	Hierarchical user management and password protection AAA authentication support RADIUS authentication HWTACACS Security SSH2.0 Port isolation 802.1X authentication, centralized MAC authentic Port security IP Source Guard HTTPs	protection AAA authentication support RADIUS authentication HWTACACS
Power Supply	Support single power		
	100–240V AC 50–60 Hz (internal)		
Power Consumption	Idling: 19W Full Ioad: 44W		802.1X authentication, centralized MAC authentication
Operating Temperature	0°C to 45°C (32°F to 113°F)		IP Source Guard
Operating Humidity	5%RH-95%RH		
Storage Temperature	-40°C to 70°C (-40°F to 158°F)		802.1p/DSCP priority marking Packet filtering function
Performance		ACL/QoS SP/WRR/SP + WRR queue scheduling Port-based speed limit	
Layer	Layer 2+		Stream-based redirection Time period
Managed	Yes		
Switching Capacity	336 Gbps	Debugging information output Ping, Tracert Telnet remote maintenance NQA DLDP Virtual cable test	Ping, Tracert
Packet Forwarding Rate	132Mpps		NQA
Packet Buffer Memory	24 Mbit		
MAC Table Size	16K	Command line interface (CLI) configuration Telnet remote configuration Configuration via console port SNMP V1/V2/V3 WEB network management System log Power, fan, temperature alarm	Command line interface (CLI) configuration
VLAN Amount	4094 Entries		Configuration via console port
ARP Table	1K Entries		WEB network management
IPv4 Routing Table	1024 Entries		
QoS Queue	8 Entries	General	
Jumbo Frame	10,000 Byte	Thunderproof	Common mode: 2kV Differential mode: 1kV
ACL Table	1024 Entries (IPV4) 512 Entries (IPV6)	Net Weight	3.5 kg (7.72 lb)
Features		Gross Weight	4.40 kg (9.70 lb)
VLAN	Port-based VLAN MAC-based VLAN Protocol-based VLAN QinQ and selective QinQ VLAN mapping Voice VLAN GVRP	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")
Ring Network Protocol	STP/RSTP/MSTP/PVST Smart Link RRPP G.8032 ERPS		
DHCP	DHCP client DHCP snooping DHCP snooping option82 DHCP relay DHCP server DHCP auto-config		
Port Aggregation	1GE/10GE port aggregation Dynamic aggregation Static aggregation Cross-device aggregation		

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Ordering Information			
Туре	Model	Description	
SFP Module	PFT3950	1.25 G 850 nm, 500 m, LC, Multi-mode [optional]	
	PFT3960	1.25 G 1310/1550 nm, 20 km, LC, Single-mode [optional]	
	PFT3970	1.25 G 1550/1310 nm, 20km, LC, Single-mode [optional]	
	PFTOTSFP-1270R- 20-SMF	10 G 1310/1270 nm, 20 km, LC, Single-mode [optional]	
	PFTOTSFP-1270T- 20-SMF	10 G 1270/1310 nm, 20km, LC, Single-mode [optional]	
	PFTOTSFP-850- MMF	10 G 850 nm, 20 km, LC, Multi-mode [optional]	