

# 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, high-density 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.

Technical Specification		Mirroring	Port mirroring RSPAN
Hardware Feature		Multicast	IGMP Snooping /MLD Snooping
Ethernet Port	48 x 10/100/1000 Mbps ports		Multicast VLAN
Optical Port	4 x 1/10 Gbps Base-X ports	IRF	Distributed device management, distributed link aggregation, and distributed resilient routing Stacking through standard Ethernet interfaces
Console Port	1	Local d	Local device stacking and remote device stacking
Power Supply	One power inclued		Hierarchical user management and password protection  AAA authentication support  RADIUS authentication  HWTACACS  SSH2.0
	Support single power		
	100–240V AC 50–60 Hz (internal)	Security	
Power Consumption	Idling: 19W Full load: 44W		Port isolation 802.1X authentication, centralized MAC authentication Port security
Operating Temperature	0°C to 45°C (32°F to 113°F)		IP Source Guard HTTPs
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
Packet Forwarding Rate	132Mpps	System Maintenance	Telnet remote maintenance NQA DLDP
Packet Buffer Memory	24 Mbit		Virtual cable test
MAC Table Size	16K		Command line interface (CLI) configuration
VLAN Amount	4094 Entries		Telnet remote configuration Configuration via console port
ARP Table	1K Entries	Network Management	SNMP V1/V2/V3 WEB network management
IPv4 Routing Table	1024 Entries		System log Power, fan, temperature alarm
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		

## Aggregation Switch | DH-S5500-48GT4XF-E

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]	