

# DH-S5500-48GT4GF-AC

## Aggregation Switch



### 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

#### High Performance

DH-S5500-48GT4GF-AC all ports support wire speed forwarding, with four GE uplinks ports onboard.

#### 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 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.
- 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.

#### Excellent manageability

The DH-S5500-48GT4GF-AC makes switch management with ease with the support of SNMPv1/v2/v3, which can be managed by NM platforms, such as Open View. With CLI and Telnet switch management is made easier. And with SSH 2.0 encryption, switch management security is enhanced.

#### Green Design

The DH-S5500-48GT4GF-AC implements a variety of green energy saving features, including auto-power-down (port automatic energy saving), if the interface status has been down for a period of time, the system automatically stops the interface power and the system enters power-saving mode. They also support EEE energy feature, by which if a port stays idle for a period of time, the system will set the port to energy-saving mode.

Technical Specification			
Switching capacity	256 Gbps		
Forwarding capacity	78 Mpps		
Console ports	1		
Service ports	48×10/100/1000 Base-T port	Packet filtering at Layer 2 through layer 4 Traffic classification based on source MAC addresses, destination MAC addresses, source IPv4/IPv6 addresses	
	4×1000 Base-X SFP port		
Weight	≤3.5 kg (7.72 lb)	ACL	
Power consumption (full configuration)	41W	Time range-based ACL	
Input voltage	100V–240V AC, 50/60Hz	VLAN-based ACL	
Dimensions(W × D × H)	440 mm × 230 mm × 43.6 mm (17.32" × 9.06" × 1.72" )	Bidirectional ACL	
Working temperature	0°C to 45°C (32°F to 113°F)	Port rate limit (receiving and transmitting)	
Working relative humidity (noncondensing)	5%–95%	Packet redirection	
Port aggregation	LACP	QoS	
	Manual aggregation	Eight output queues on each port	
Layer 2 ring network protocol	STP/RSTP/MSTP	Flexible queue scheduling algorithms based on ports and queues, including SP, WRR and SP+WRR	
VLAN	Port-based VLAN	802.1p DSCP remarking	
	MAC-based VLAN	Security	
	Protocol-based VLAN		Hierarchical user management and password protection
	QinQ and selective QinQ		AAA authentication support
	VLAN mapping		RADIUS authentication
	Voice VLAN		HWTACACS authentication
	GVRP		SSH2.0
	DHCP		DHCP Client
DHCP Snooping			802.1X authentication, centralized MAC authentication
DHCP Snooping option82		Port security	
DHCP Relay		IP Source Guard	
DHCP Server		Management and maintenance	
IPv4			Static routing
	IPv6		IPv6 Static routing
ND, PMTUD			SNMPv1/v2/v3 and Web-based NMS
Pingv6, Telnetv6, FTPv6, TFTPv6, ICMPv6			Remote monitoring (RMON ) alarm, event, and history recording
Multicast	IGMP Snooping /MLD Snooping		System log, alarming based on severities, and output of debugging information
	Multicast VLAN	NTP	
Mirroring	Port mirroring	Ping, Tracert	
	RSPAN	Virtual cable test (VCT)	
		Device link detection protocol (DLDP)	
		Loopback-detection	