

# 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)	QoS
Working relative humidity (noncondensing)	5%–95%	Port rate limit (receiving and transmitting)
Port aggregation	LACP	Packet redirection
	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
		Port isolation
DHCP	DHCP Client	802.1X authentication, centralized MAC authentication
	DHCP Snooping	Port security
	DHCP Snooping option82	IP Source Guard
	DHCP Relay	Management and maintenance
	DHCP Server	Loading and upgrading through XModem/FTP/TFTP
IPv4	Static routing	Configuration through CLI, Telnet, and console port
		SNMPv1/v2/v3 and Web-based NMS
IPv6	IPv6 Static routing	Remote monitoring (RMON ) alarm, event, and history recording
	ND, PMTUD	System log, alarming based on severities, and output of debugging information
	Pingv6, Telnetv6, FTPv6, TFTPv6, ICMPv6	NTP
Multicast	IGMP Snooping /MLD Snooping	Ping, Tracert
	Multicast VLAN	Virtual cable test (VCT)
Mirroring	Port mirroring	Device link detection protocol (DLDP)
	RSPAN	Loopback-detection