

# DH-AS5600-48GF4XF



- High performance and reliability; easy to manage and maintain
- 10 Gbps uplink and all-gigabit ports
- Various routing characteristics
- IRF2 intelligent resilient architecture
- Manage through the web client and CLI
- Supports functions such as port aggregation, Layer-2 VLAN, ACL, and QoS

## System Overview

DH-AS5600-48GF4XF is an enterprise-level L3 switch based on industry leading high-performance hardware architecture.

DH-AS5600-48GF4XF realizes port high density of 1U device, and the host solidifies 4 ports 10 Gigabit optical. The device supports IRF, link aggregation, RRP and STP to ensure high network stability. It also supports a abundant of security control strategies to ensure overall network security. The device has excellent management capabilities and supports multiple management interfaces, including the console port, micro USB port, and out-of-band management Ethernet port.

## Functions

### 10G Uplink

Suitable for aggregation scenarios, guaranteeing smooth transmission of large concurrent data.

### 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.

### Powerful L2 and L3 Features

This series supports a large range of L2 features such as 802.1Q VLAN, Port Mirroring, STP/RSTP/MSTP, Link Aggregation Control Protocol, and the 802.3x Flow Control function. It also supports multiple L3 features, including OSPF and BGP, addressing enterprise access and aggregation service demands.

## Scene

Ethernet Switch meets the digital transformation and network construction needs of SMB, chain businesses, branches, governments, schools, hotels and other industries.

## Specification

### Hardware

Included Power Adapter	Yes
PoE	No
Ethernet Port	2
Optical Port	48
Ethernet Port Speed	10/100/1000 Mbps
Optical Port Speed	100/1000 Mbps
Optical Port Uplink Speed	1/10 Gbps
Description of Function Slots	Port 1-48: 48 × SFP 100/1000 Mbps; Port 47-48: 2 × RJ-45 10/100/1000 Mbps (Combo); Port 49-52: 4 × SFP+ 1/10 Gbps
Debugging	1 × Console 1 × Micro-USB
Power Supply	Built-in dual power supplies: 100–240 VAC, 50/60 Hz, 2.5 A
Operating Temperature	–5 °C to +45 °C (+23 °F to +113 °F)
Operating Humidity	5%–95% (RH)
Storage Temperature	–40 °C to +70 °C (–40 °F to +158 °F)
Storage Humidity	5%–95% (RH)
Power Consumption	Idle: 21 W Full load: 47 W

### Performance

Layer	Layer 3
Management Type	Yes
MTBF	153.41 years
Switching Capacity	598 Gbps
Packet Forwarding Rate	222 Mpps
Packet Buffer Size	1.5 Mbyte × 2
Jumbo Frame	10 KByte

MAC Table Size	16K
VLAN Number	4K
VLAN Interface	1K
IPv4 Routes	12K
Dynamic ARP	4K
Communication Standard	IEEE 802.3; IEEE 802.3u; IEEE 802.3X; IEEE 802.3ab; IEEE 802.3z; IEEE 802.3ad; IEEE 802.3ae

Features

Spanning Tree Protocol	STP/RSTP/MSTP PVST RRPP
Routing	Static routing IPv6 policy routing RIPv1/v2/ng OSPFv2/v3 IS-ISv4/v6 BGP4/4+ ECMP 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; PIM-DM, PIM-SM, PIM-SSM; MSDP
Reliability	IRF VRRP DLDp LLDP
ARP	ARP source suppression Dynamic ARP source detection ARP anti-attack
DHCP Function	DHCP Client; DHCP Snooping; DHCP Relay; DHCP Server; DHCP Snooping option82; DHCP Relay option82; 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	Flexible queue scheduling algorithm includes SP, WRR, and SP+WRR (can be set based on the port and queue at the same time) Two-way ACL policy (in and out)
IPv6	ICMPv6; TRACEROUTE V6; TELNET V6; SSH2 V6; ND/ND snooping/ND proxy/ND detection; SAVI; IPV6 PORTAL; PMTU; DNS CLINET FOR IPV6; SNMP FOR IPV6; RIPvng/OSPF V3/IS-ISv6/BGP4+IPV6 policy routing; MLD SNOOPING v1/v2; IPv6 PIM DM/PIM SM/PIM SSM; VRRP V3; DHCPv6 snooping/DHCPv6 client/DHCPv6 relay/DHCPv6 server; IPv6 port binding; BFD for IPV6 (static routing, OSPFv3, BGP+)
Equipment Management	Load update files and update using FTP/TFTP; Configure through CLI, Telnet, Console port; SNMPv1/v2/v3; System logs, multi-level alarms, and debug information; NTP; Power supply, fan, and temperature alarms; Ping and Tracert; LLDP; Port loopback detection

General

Statics Protection	Air discharge: 8 kV Contact discharge: 6 kV
Lighting Protection	Surge: 6 kV
Net Weight	<8.5 kg (18.74 lb)
Product Dimensions	440 mm × 360 mm × 43.6 mm (17.32" × 14.17" × 1.72") (L × W × H)
Packaging Dimensions	562 mm × 550 mm × 125 mm (22.13" × 21.65" × 4.92") (L × W × H)
Casing Material	Sheet metal
Installation	Desktop mount; rack mount
Certifications	CE; FCC

Dimensions (mm[inch])

