

# DH-AS5600-48GT4XF

52-Port L3 Managed Switch with 4-Port 10G SFP+



## Series Overview

With its industry leading, high-performance hardware architecture, the AS5600 series is an enterprise-level L3 switch that has a high port density in a 1U form factor, and 4 optical ports for 10 Gigabit connectivity. The switch supports Intelligent Resilient Framework (IRF) stacking technology, link aggregation, RRPP and STP, along with multiple security management strategies to enhance the stability and reliability of networks. Additionally, it offers excellent management capabilities and a variety of ports, including a 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.

### Minimal WEB

Designed with a minimalist graphical WEB, easy to operate, which improves configuration efficiency.

### Robust Design

Built to last, the architecture of the switch makes it highly reliable, operating with high-efficiency non-stop.

- Rich layer 3 features.
- Easy to manage.
- Supports Intelligent Resilient Framework.
- Comprehensive security control policies.
- High-performance IPv4 and IPv6 service capabilities.
- Meets the needs of scenarios that have different port densities and performance requirements.
- Management can be performed through the web client and CLI. Console port, Telnet and SSH.
- Offers link aggregation.



## Abundant QoS Features

The switch offers abundant QoS features, including:

**Priority Settings** – Offers packet filtering based on packet header fields from layer 2 through layer 4, including source MAC, destination MAC, source IP, destination IP, TCP/UDP port number, protocol type, and VLAN.

**Advanced algorithms** – Flexible queuing and scheduling algorithms configured on a per-port or per-queue basis, including strict priority (SP), weighted round robin (WRR), and SP+WRR. It also supports port mirroring in both outbound and inbound directions for network monitoring and troubleshooting.

## Scene

Suitable for scenes such as SMEs, chain businesses, branches, government structures, schools, and hotels.

Technical Specification	
Basic	
Layer	Layer 3
Switching Capacity	598 Gbps
Packet Forwarding Rate	222 Mpps
Description of Function Slots	Port 1-48: 48 × RJ45 10/100/1000Mbps; Port 49-52: 4 × SFP+ 1/10Gbps
Operating Temperature	−5 °C to +45 °C (+23 °F to +113 °F)
Operating Humidity	5%–95% (RH), non-condensing
Storage Temperature	−40 °C to +70 °C (−40 °F to +158 °F)
Storage Humidity	5%–95% (RH), non-condensing
Power Supply	Includes two power supply slots. 100-240 VAC,50/60 Hz,2.5A
Power Consumption	Idling: 21 W Full load: 47 W
Statics Protection	Air discharge: 8 kV Contact discharge: 6 kV
Lightning 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	542 mm × 530 mm × 95 mm (21.34" × 20.87" × 3.74") (L × W × H)
Casing Material	Sheet metal
Installation	Rack mount
Certifications	CE
PoE	
PoE	No
Hardware	
Debugging	1 × Console; 1 × Micro-USB;
Performance	
MTBF	151.28 years
Packet Buffer Size	3MByte
Jumbo Frame	10K Byte
MAC Table Size	16K
Communication Standard	IEEE802.3; IEEE802.3u; IEEE802.3x; IEEE802.3ab; IEEE 802.3ad; IEEE 802.3ae
VLAN Number	4K
VLAN Interface	1K
IPv4 Routes	12K
Dynamic ARP	4K
Feature	
Ethernet Loop Protection	STP RSTP

Ethernet Loop Protection	MSTP ERPS RRPP
VLAN Function	Port-based VLAN MAC-based VLAN IPv4 subnet-based VLAN Protocol-based VLAN Voice VLAN Super VLAN Guest VLAN QinQ Selective QinQ MVRP
Link Aggregation	Multi-chassis Link Aggregation LACP Dynamic Aggregation Static Aggregation
Port Feature	IEEE 802.3x Flow Control Unknown Unicast Suppression Multicast Storm Control Broadcast Storm Control IP+MAC Binding IP+PORT Binding IP+MAC+PORT Binding Single Link Detection Virtual Link Detection Port Self-loop Detection Ports Self-loop Detection Blackhole MAC
Mirror	Flow Mirroring N:1 Mirroring Local Port Mirroring Remote Port Mirroring
Multicast	IGMP Snooping IGMP Proxy PIM Snooping IGMP V1 IGMP V2 IGMP V3 PIM-SM PIM-SSM PIM-DM MSDP
Reliability	IRF; VRRP DLDP LLDP
Routing	Static Routing RIPv1 RIPv2 RIPng OSPFv2 OSPFv3 IS-ISv4 IS-ISv6 BGP4 BGP4+ ECMP PBR
ARP	Dynamic ARP Source Detection ARP Source Suppression ARP Limit ARP Anti-attack

DHCP Function	DHCP Client DHCP Snooping DHCP Relay DHCP Server DHCP Option 82 DHCP Snooping Option 82 DHCP Relay Option 82 DHCP Snooping Trust DHCP Snooping Entry Backup
Security	User Hierarchical Management and Password Protection Radius HWTACACS SSH2.0 Port Isolation 802.1X IP/Port/MAC Binding HTTPS Triple
QoS/ACL	Strict priority WRR SP+WRR
IPv6	ICMPv6; TRACEROUTEv6 TELNET V6 SSH2v6 TFTP V6 ND ND Snooping ND Proxy ND Detection SAVI IPv6 Portal PMTU DNS CLINET for IPv6 SNMP for IPv6 BGP4+ for IPv6 IPv6 Policy-based Routing MLD Snooping IPv6 PIM DM IPv6 PIM SM IPv6 PIM SSM VRRP V3 DHCPv6 Snooping DHCPv6 Client DHCPv6 Relay DHCPv6 Server IPv6 Port binding BFDv6
Equipment Management	Web Management CLI configuration Telnet SSH SNMP v1 SNMP v2c SNMP v3 Console Port Configuration TFTP FTP NTP Log System Log Fault Alarm Level-based Alarm Loopback Detection Ping Traceroute Virtual Cable Test (VCT)

## General

Packing List	1 × User Manual; 1 × Legal and Regulatory Information; 2 × Power Cord; 1 × Rack-mounting Kit; 1 × Grounding Wire
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## Ordering Information

Type	Model	Description
Ethernet Switch	DH-AS5600-48GT4XF	52-Port L3 Managed Switch with 4-Port 10G SFP+
Accessories (Optional)	TSFP-1310-20-SMF	SFP+ Optical Module
	GSFP-1310T-20-SMF	SFP Optical Module
	TSFP-1270R-20-SMF	SFP+ Optical Module
	TSFP-1550-40-SMF	SFP+ Optical Module
	GSFP-1310R-20-SMF	SFP Optical Module
	TSFP-1270T-20-SMF	SFP+ Optical Module
	GSFP-1310-20-SMF	SFP Optical Module
	GSFP-850-MMF	SFP Optical Module

## Accessories

Optional:


 GSFP-1310-20-SMF  
SFP Optical Module

 GSFP-1310R-20-SMF  
SFP Optical Module

 GSFP-1310T-20-SMF  
SFP Optical Module

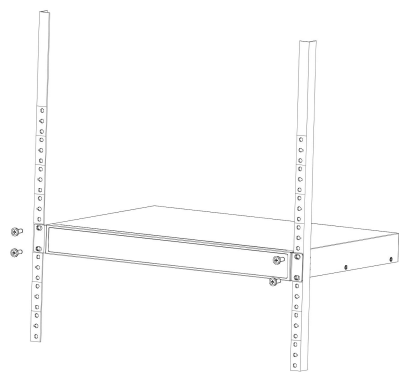
 GSFP-850-MMF  
SFP Optical Module

 TSFP-1270R-20-SMF  
SFP+ Optical Module

 TSFP-1270T-20-SMF  
SFP+ Optical Module

 TSFP-1310-20-SMF  
SFP+ Optical Module

 TSFP-1550-40-SMF  
SFP+ Optical Module



Dimensions (mm[inch])

