alhua
TECHNOLOGY

DH-AS5600-24GT4XF

28-Port Managed Gigabit Switch with 24-Port RJ45 and 4-Port 10G SFP+

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

System Overview

DH-AS5600-24GT4XF is an enterprise-level L3 switch based on industry leading high-performance hardware architecture.

DH-AS5600-24GT4XF realizes port high density of 1U device, and the host solidifies 4 ports 10 Gigabit optical. The device supports IRF, link aggregation, RRPP 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	24
Optical Port	8
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 1-24: 24 × RJ-45 10/100/1000 Mbps; Port 17-24: 8 × SFP 100/1000 Mbps (Combo); Port 25-28: 4 × SFP+ 1/10 Gbps
Debugging	1 × Console 1 × MGT 1 × Micro-USB 1 × USB
Power Supply	Built-in power: 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: 12 W Full load: 33 W

Performance

Layer	Layer 3
Management Type	Yes
MTBF	131.97 years
Switching Capacity	598 Gbps
Packet Forwarding Rate	168 Mpps
Packet Buffer Size	1.5 MByte

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 policied 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	Statc link aggregaton; Dynamic link aggregaton; Cross-device link aggregaton; Gigabit Ethernet port aggregaton; 10 gigabit Ethernet port aggregaton
IEEE 802.3x Flow Control	Yes
Multicast	IGMP Snooping v1/v2/v3; PIM Snooping; Multcast VLAN; IGMP v1/v2/v3; PIM-DM, PIM-SM, PIM-SSM; MSDP
Reliability	IRF VRRP DLDP LLDP VCT
ARP	ARP source suppression; Dynamic ARP source detecton; ARP ant-atack
DHCP Function	DHCP Client; DHCP Snooping; DHCP Relay; DHCP Server; DHCP Snooping opton82; DHCP Relay opton82; DHCP Snooping Trust; DHCP Snooping entry backup
Security	Mult-level user management and password protecton; 802.1X; RADIUS; SSH 2.0; Port isolaton; 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	ICMP v6; TRACEROUTE V6; TELNET V6; SSH2 V6; ND/ND snooping/ND proxy/ND detecton; SAVI; IPV6 PORTAL; PMTU; DNS CLINET FOR IPV6; SNMP FOR IPV6; RIPng/OSPF V3/IS-ISv6/BGP4+; IPV6 policy-based routng; 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 (statc routng, OSFPv3, BGP+)
Equipment Management	Load update fles and update using FTP/TFTP; Confgure through CLI, Telnet, Console port; SNMPv1/v2/v3; System logs, mult-level alarms, and debug informaton; NTPPower supply, fan, and temperature alarms; Ping and Tracert; LLDP; Port loopback detecton

General

Statics Protection	Air discharge: 8 kV Contact discharge: 6 kV
Lighting Protection	Surge: 6 kV
Net Weight	<8 kg (17.64 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])
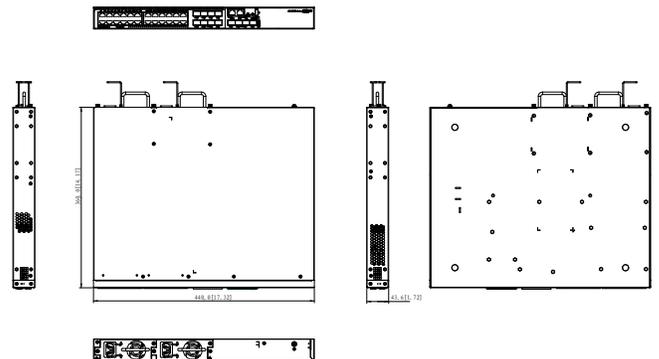
Ordering Information

	GSFP-1310T-20-SMF	1.25G 1310/1550nm, 20km, LC, Single-mode
	GSFP-1310R-20-SMF	1.25G 1550/1310nm, 20km, LC, Single-mode
	GSFP-1310-20-SMF	1.25G 1310nm,20km,LC, Single-mode
SFP module	GSFP-850-MMF	1.25G 850nm,550m,LC, Multi-mode
	TSFP-1270T-20-SMF	10G 1270/1330nm, 20km, LC, Single-mode
	TSFP-1270R-20-SMF	10G 1330/1270nm, 20km, LC, Single-mode
	TSFP-850-MMF	10G 850nm,300m,LC, Multi-mode