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TECHNOLOGY

DH-AS5500-48GT4XF-600
52-Port Managed Gigabit Switch with 48-Port RJ45 and 4-Port 10G SFP+

- Powerful L2 and L3 Features
- Enterprise-level Connectivity
- Intelligent Resilient Framework 2 (IRF2)

System Overview

Dahua AS5500 Switch Series are high performance Gigabit Ethernet switches with full L2 and L2+ features, enterprise-level Quality of Service (QoS), enhanced security control and a bundle of ISP features.

Functions

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.

Enterprise-level Connectivity
For connectivity, fixed 1U models are offered and are ideal for branch offices or small to large enterprise environments. Each switch includes four high-speed built-in 10GbE uplinks for non-blocking transmission. PoE models can carry up to 600W to power end devices.

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 RIP, addressing enterprise access and aggregation service demands.

Scene

It can meet the needs of digital transformation and network construction, and is ideal for small and medium-sized enterprises, chain businesses, branches, the government, schools and hotels.

Technical Specification

Hardware

Included Power Adapter	No
PoE	Yes
Ethernet Port	48 × RJ-45 10/100/1000 Mbps
Optical Port	4 × SFP+ 1/10 Gbps
Ethernet Port Speed	10/100/1000 Mbps
Optical Port Uplink Speed	1/10 Gbps
Description of Function Slots	Port 1-48: 48 × RJ-45 10/100/1000 Mbps; Port 49-52: 4 × SFP+ 1/10 Gbps
Management port	1 × Micro-USB port 1 × Console port 1 × MGT port 1 × USB port
Hot Plug	Yes
Power Supply	Built-in dual power supplies: 100–240 VAC, 50/60 Hz, 6 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)
Fanless Design	No
Power Consumption	Idling: 37 W Full load: 354 W (Single Power) Idling: 37 W Full load: 685 W (Dual Power)

Performance

Layer	L3
Management Type	Yes
MTBF	50.24 years
Switching Capacity	176 Gbps
Packet Forwarding Rate	130.952 Mpps
Packet Buffer Size	24 Mbit

Jumbo Frame	10K Byte
MAC Table Size	16K
VLAN Number	4K
VLAN Interface	512
IPv4 Routes	1K
Dynamic ARP	1K
Communication Standard	IEEE 802.3; IEEE 802.3u; IEEE 802.3X; IEEE 802.3ab; IEEE 802.3z; IEEE 802.3ad; IEEE 802.3ae

PoE

PoE Protocol	IEEE 802.3af; IEEE 802.3at
PoE Power	Port 1-48 ≤ 30 W, total power ≤ 600 W
PoE Power Consumption Management	Power consumption management; power on and power off; power down for overload; green PoE
PoE Pin Assignment	1, 2 (V+), 3, 6 (V-)

Features

Ring Network Protocol	STP/RSTP/MSTP PVST RRPP ERPS
Routing	Static routing IPV6 policied routing RIPv1/v2/ng OSPFv2/v3 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
Reliability	IRF; VRRP; DLDP; LLDP; VCT
ARP	ARP source suppression Dynamic ARP source detection ARP anti-attack ARP detection ARP rate limit
DHCP Function	DHCP Client DHCP Snooping DHCP Relay DHCP Server DHCP Snooping option 82 DHCP Relay option 82 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	802.1p/DSCP priority tag Packet filtering SP/WRR/SP+WRR queue scheduling Port-based rate limit Traffic-based redirection Time range
IPv6	ICMPv6 Traceroute v6 Telnet v6 SSH2 v6 ND/ND snooping/ND proxy/ND detection SAVI IPv6 Portal DNS Client for IPv6 SNMP for IPv6 RIPNG and OSPFv3 IPv6 policy routing MLD Snooping v1/v2 VRRP V3 DHCPv6 snooping/DHCPv6 client/DHCPv6 relay/DHCPv6 server IPv6 port binding
Equipment Management	Load update files and update using Xmodem/FTP/TFTP Configure through CLI, Telnet, and Console port SNMPv1/v2/v3 Web network management RMON alarm, RMON event, and RMON history System logs, multi-level alarms, and debug information HGMPv2 NTP Ping and Tracert VCT DLDP Port loopback detection Power supply, fan, and temperature alarms BFD

General

Statics Protection	Air discharge: 8 kV Contact discharge: 6 kV
Lighting Protection	Common mode: 1 kV Differential mode: 0.5 kV
Net Weight	≤ 9.5 kg (20.93 lb)
Product Dimensions	440 mm × 460 mm × 43.6 mm (17.32" × 18.11" × 1.72") (L × W × H)
Packaging Dimensions	608 mm × 576 mm × 180 mm (23.94" × 22.68" × 7.09") (L × W × H)
Casing Material	Sheet metal
Installation	Desktop mount; rack mount
Certifications	CE; FCC

Dimensions (mm[inch])