

DH-AS6600-24XF2QF



- Excellent switching capacity.
- High-density ports with line-rate forwarding up to 10 GE/40 GE.
- Dual pluggable power supplies and fan trays.
- IRF2 intelligent resilient architecture.
- High-density 10 GE forwarding.
- Provides multi-chassis link aggregation and MACsec encryption.

System Overview

The Layer 3 Managed Switch is highly intuitive, with a strong switching capacity, and multi-factor reliability protection. It performs line-rate forwarding through high-density ports, and offers 40 Gbps uplink and all 10 Gigabit ports. With its innovative design, it supports various routing characteristics, intelligent resilient framework 2 (IRF2), and functions such as link aggregation, VxLAN, ACL, QoS, and multi-factor device-level and link-level reliability protection. It is widely used in digital transformation and network construction by small and medium-sized enterprises, chain business, branches, government structures, schools, hotels, and more.

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.

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

Suitable for scenarios such as SMEs, chain businesses, branches, government structures, schools, hotels and other industries.

Specification

Hardware

Included Power Adapter	Yes
PoE	No
Optical Port	24
Optical Port Speed	10 Gbps
Optical Port Uplink Speed	40 Gbps
Description of Function Slots	Port 1-24: 24 × SFP + 1/10 Gbps; Port 25-26: 2 × QSFP + 40 Gbps
Debugging	1 × Console 1 × MGT 1 × Micro USB 1 × USB
Hot Plug	Yes
Power Supply	Built-in dual power supplies: 100–240 VAC, 50/60 Hz, 4 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)
FAN	2
Power Consumption	Full load: 183 W; Idle: 43 W

Performance

Layer	Layer 3
Management Type	Yes
Smart Managed Switch	No
MTBF	62.8 years
Switching Capacity	2.56Tbps
Packet Forwarding Rate	705 Mpps

Aggregation Switch | DH-AS6600-24XF2QF

Packet Buffer Size	1.25 Mbit
Jumbo Frame	10k Byte
MAC Table Size	128K
VLAN Number	4K
VLAN Interface	1K
IPv4 Routes	64K
Dynamic ARP	64K
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 Multi-chassis link aggregation GE port aggregation 10GE 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 VCT
ARP	Dynamic ARP Inspection ARP anti-attack ARP source suppression
Routing	Static routing RIPv1/v2/ng OSPFv2/v3 IS-ISv4/v6 BGP4/4+ ECMP Policy-based routing
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 authentication RADIUS authentication SSH 2.0 Port isolation HWTACACS IP/Port/MAC binding IP Source Guard HTTPS Triple authentication
QoS/ACL	The flexible queue scheduling algorithm includes SP, WDRR, and SP + WDRR (can be set based on the port and queue at the same time) Two-way ACL policy (ingress and egress)
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 RIPng/OSPF V3/IS-ISv6/BGP4+ IPv6 policy-based 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 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 protection: 6 kV
Net Weight	≤4.5 kg (9.92 lb)
Product Dimensions	440 mm × 360 mm × 43.6 mm (17.32" × 14.17" × 1.72") (L × W × H)
Packaging Dimensions	590 mm × 480 mm × 135 mm (23.22" × 18.90" × 5.31") (L × W × H)
Casing Material	Sheet metal
Installation	Desktop mount; rack mount
Certifications	CE

Dimensions (mm[inch])

