

DH-AS4300-24GT4GF



System Overview

Dahua AS4300 Switch Series are Gigabit Ethernet switches specially made for small to medium-sized businesses. These high performance switches provide wide access for devices, and offers security control and enhanced network manageability. It is ideal for use in internet cafes, hotels, schools and other similar scenarios.

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.

Green and Fan-less Design

With its energy saving design, power consumption and fault points are greatly reduced. It also has a fan-less hardware design and operates silently, helping to produce a comfortable environment.

Powerful L2 and L2+ 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 L2+ feature-static routing, which is a simple way to segment the network with internal routing through the switch. This helps the system manage network traffic more efficiently.

Scene

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

- Powerful L2 and L2+ Features.
- Green and Fan-less Design.
- Intelligent Resilient Framework 2 (IRF2).

Technical Specification

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| Hardware | |
|-------------------------------|--|
| Included Power Adapter | Yes |
| PoE | No |
| Ethernet Port | 24 × RJ-45 10/100/1000 Mbps |
| Optical Port | 4 × SFP 100 Mbps/1 Gbps |
| Ethernet Port Speed | 10/100/1000 Mbps |
| Optical Port Uplink Speed | 100 Mbps/1 Gbps |
| Description of Function Slots | Port 1-24:24 × RJ-45 10/100/1000 Mbps; Port 25-28:4 × SFP 100 Mbps/1 Gbps |
| Management port | 1 × Console port |
| Power Supply | 100–240 VAC, 50/60 Hz, 1.0 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 | Yes |
| Power Consumption | Idling: 9 W Full load: 23 W |
| Performance | |
| Layer | L2+ |
| Management Type | Yes |
| MTBF | 150.86 years |
| Switching Capacity | 56 Gbps |
| Packet Forwarding Rate | 41.7 Mpps |
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AS4300 Series | DH-AS4300-24GT4GF

| Jumbo FrameIOR ByteMAC Table Size8KVLAN Number4KDynamic ARP128Communication Standard802.3x; 802.3a; 802.1p; 802.1x; 802.1x; 802.1x;FeaturesFreaturesFing Network ProtocolStatic routing PV5 Unit cast routing PV6 Unit cast routing PV6 Unit cast routing PV6 Unit cast routingKukn AggregationStatic routing PV6 Unit cast routingVLAN FunctionStatic routing PV6 Unit cast routingNuticastStatic routing PV6 Unit cast routingKukn AggregationStatic routing PV6 Unit cast routingRubiticastStatic routing PV6 Unit cast routingRubiticastStatic routing RPF Bio PC PV7 STAR STARPRubiticastStatic routing RPF Bio PC PV7 STARPRubiticastILDPRubiticastILDPPCP Function802.1X, centralized MAC address authentication PV7 Static Station PI (PV4/PV6), TCF VUPA/ Static Static Station PI | Packet Buffer Size | 12 Mbit |
|---|--------------------------|--|
| VLAN Number4KDynamic ARP128Communication Standard802.3x; 802.3ad; 802.1p; 802.1x; 802.1x; 802.1d; 802.1w; 802.1sFeaturesRing Network ProtocolPr/STRoutingStatic routing PV6 unitcast routingVLAN FunctionPort-based VLAN MAC-based VLAN MAC-based VLANLink AggregationStatic link aggregation Dynamic link aggregation PMS noopingMulticastUDPAulticastUDPARP Are Source Suppression ARP part-attack ARP part-attack ARP part-attack ARP part-attack ARP part-attack ARP part-attack ARP part-attack ARP part-attack ARP part-attack ARP particesSecurityDHCP FunctionCoS/ACLND PV6-Ping PV6-Fing | Jumbo Frame | 10K Byte |
| Dynamic ARP128Communication Standard802.3x; 802.3ad; 802.1p; 802.1x; 802.1x; 802.1sFeaturesFeaturesRing Network ProtocolFYRSTP/MSTP PYVSTRoutingStatic routing IPV6 unitcast routingKink AggregationVan Mac-based VLAN Mac-based VLANKuticast Flow ControlYesMulticastIGMP Snooping PIM Snooping PIM SnoopingReliabilityLLDPARPARP, Gratuitous ARP Dynamic ARP Inspection ARP ant-attack ARP Source suppression ARP Source Suppression <br< td=""><td>MAC Table Size</td><td>8К</td></br<> | MAC Table Size | 8К |
| Image: Communication StandardRoutingSold Size Sold Sold Sold Sold Sold Sold Sold Sold | VLAN Number | 4К |
| Lommunication standard802.1sFeaturesRing Network ProtocolSTP/RSTP/MSTP PVSTRoutingStatic routing IPV6 unitcast routingVLAN FunctionMc-based VLANLink AggregationStatic link aggregation Dynamic link aggregationIEEE 802.3x Flow ControlYesMulticastIGMP Snooping PIM SnoopingReliabilityLLDPARPARP, Gratuitous ARP Dynamic ARP Inspection ARP Durbersion ARP DetectionDHCP FunctionDHCP Client DHCP Client DYACT MAC address authentication Port isolation Port isolation Port Solation Port Solation MAC, Source IP (IPV4/ IPV6-Ping IPV6-Ting IPV6-Ting IPV6-TenetGos/ACLND IPV6-Fing IPV6-TenetFequipment ManagementND ND PV6-TenetGeneralConfigure through CLI, Telnet, and Console port SNMPVJ/VZ/V3 Ping and Tracert LDPSettics ProtectionAir discharge: 8 kV Contact discharge: 6 kV | Dynamic ARP | 128 |
| Ring Network ProtocolSTP/RSTP/MSTP PVSTRoutingStatic routing IPV6 unitcast routingVLAN FunctionPort-based VLAN MAC-based VLANLink AggregationStatic link aggregation Dynamic link aggregationIEEE 802.3x Flow ControlYesMulticastIGMP Snooping PIM SnoopingReliabilityLLDPARPDramic link aggregation ARP anti-attack ARP outce suppression ARP Detection ARP Detection PHCP RelayDHCP FunctionDHCP Client DHCP RelaySecurityPacket filtering (Layer 2 to Layer 4) Source MAC, destination MPC, Source 1P (IPV4/ PV6)-, TCP/UDP port mindle attack and ARP denial-of-service IPV6T/MAC bindingIPv6ND IPv6-Ping IPv6-Tracert IPv6-TelentIPv6ND IPv6-Ping IPv6-Tracert IPv6-TelentGeneralCodiguate files and update using FTP Configure through CLL relent, and Console port SNMP1/V2/V3JungLaid update files and update using FTP Configure through CLL relent, and Console port SNMP1/V2/V3Ipv6-Ping IPv6-Tracert IPv6-TelentCodiguate files and update using FTP Configure through CLL relent, and Console port SNMP1/V2/V3GeneralAir discharge: 8 kV Contact discharge: 6 kVLinking ProtectionCommon mode: 1 kV | Communication Standard | |
| Ning Network Protocol PVST Routing Static routing IPV6 unitcast routing VLAN Function Port-based VLAN MAC-based VLAN Link Aggregation Static link aggregation Dynamic link aggregation IEEE 802.3x Flow Control Yes Multicast IGMP Snooping PIM Snooping Reliability LDP ARP ARP, Gratitous ARP Dynamic ARP Inspection ARP anti-atack ARP source suppression ARP Detection DHCP Function BUC Client DHCP Relay Security 802.1X, centralized MAC address authentication Port isolation Port isolation Ops/ACL Packet filtering (Layer 2 to Layer 4) Scoure MAC, destination MAC, Source IP (IPV4/ IPV6)-, destination IP (IPV4/IPV6)-, TCP/UDP port number-syLAN-based traffic classification mumber-syLAN-based traffic classification mumber-syLAN-based traffic classification IPV6 ND IPV6-Fing IPV6-Fing IPV6-Fing Protocome BR (IPV4/IPV6)-, TCP/UDP port number-see ACL Two-way ACL policy (ingress and egress) Load update files and update using FTP Configure through CLI, Tehet, and Console port SMPVL/2V3/3 NTP Ping and Tracert LDP Port loopback detection General Contact discharge: 8 kV Contact discharge: 6 kV Linbing Protection Common mode: 1 kV | Features | |
| NotitingIPV6 unitcast routingVLAN FunctionPort-based VLAN MAC-based VLANLink AggregationStatic link aggregation Dynamic link aggregationIEEE 802.3x Flow ControlYesMulticastIGMP Snooping PIM Snooping PIM SnoopingReliabilityLDPARPARP, Gratuitous ARP Dynamic ARP Inspection ARP source suppression ARP source suppression ARP source suppression ARP source suppression PHCP FunctionDHCP FunctionDHCP Client DHCP RelaySecurityPoxet filtering (Layer 2 to Layer 4) Source MAC, destination MAC, Source IP (IPV4/ IPV6)- restination IP (IPV4/IPV6)-, TCP/UDP port middle attack and ARP denial-of-service IPV6-Tracert IPV6-Fing IPV6-Fing IPV6-Fing IPV6-Fing IPV6-FinetLoad update files and update using FTP Configure through CLI, Teinet, and Console port SNMPY1/2/3/ NTP Pring and Tracert LDP Port loopback detectionGeneralCommon mode: 1 KV | Ring Network Protocol | |
| VLAN FunctionMAC-based VLANLink AggregationStatic link aggregationILIR AggregationStatic link aggregationIEEE 802.3x Flow ControlYesMulticastIGMP Snooping PIM SnoopingReliabilityLLDPARPARP, Gratuitous ARP Dynamic ARP Inspection ARP anti-attack | Routing | - |
| Link AggregationDynamic link aggregationIEEE 802.3x Flow ControlYesMulticastIGMP Snooping PIM SnoopingReliabilityLLDPARPARP, Gratuitous ARP Dynamic ARP Inspection ARP anti-atack ARP anti-atack ARP anti-atack ARP DetectionDHCP FunctionDHCP Client DHCP RelaySecurity802.1X, centralized MAC address authentication Pynamic ARP detection, preventing man-in-the- middle attack and ARP denial-of-service IP/Port/MAC bindingQoS/ACLPacket filtering (Layer 2 to Layer 4) Source MAC, destination MAC, Source IP (IPV4/ IPv6)-, destination IP (IPV4/IPv6), TCP/UDP port number, VLAN-based traffic classification Time-based ACL Two-way ACL policy (ingress and egress)IPv6IND IPv6-Tracet IPV6-Tracet IPV6-Tracet ILDP Port loopback detectionGeneralStatics ProtectionStatics ProtectionAir discharge: 8 kV Contact discharge: 6 kVLinkbing ProtectionCommon mode: 1 kV | VLAN Function | |
| MulticastIGMP Snooping PIM SnoopingReliabilityLLDPARPARP, Gratuitous ARP Dynamic ARP Inspection ARP anti-attack ARP source suppression ARP DetectionDHCP FunctionDHCP Client DHCP RelaySecurity802.1X, centralized MAC address authentication POT Isolation Dynamic ARP detection, preventing man-in-the- middle attack and ARP denial-of-service IP/Port/MAC bindingQoS/ACLPacket filtering (Layer 2 to Layer 4) Source MAC, destination MAC, Source IP (IPv4/ IPv6)-, destination MAC, Source IP (IPv4/ IPv6)-, destination P (IPv4/IPv6)-, TCP/UDP port number-, VLAN-based traffic classification Time-based ACL Two-way ACL policy (ingress and egress)IPv6ND IPv6-Fring IPv6-Triacert IPv6-TelnetEquipment ManagementLoad update files and update using FTP Configure through CLI, Telnet, and Console port SNMPv1/v2/v3 NTP Ping and Tracert LLDP Port loopback detectionGeneralAir discharge: 8 kV Contact discharge: 6 kVLighting ProtectionCommon mode: 1 kV | Link Aggregation | 00 0 |
| MulticastPIM SnoopingReliabilityLLDPARPARP, Gratuitous ARP Dynamic ARP Inspection ARP anti-attack ARP source suppression ARP DetectionDHCP FunctionDHCP Client DHCP RelaySecurityB02.1X, centralized MAC address authentication Port isolation Dynamic ARP detection, preventing man-in-the- middle attack and ARP denial-of-service IP/Port/MAC bindingQoS/ACLND IPV6J-, destination MAC-, Source IP (IPV4/ IPV6J-, destination IP (IPV4/IPV6J)-, TCP/UDP port number-, VLAN-based traffic classification Time-based ACL Two-way ACL policy (ingress and egress)IPv6ND IPV6-Tracert IPV6-TelnetEquipment ManagementND Ping and Tracert LLDP Port loopback detectionStatics ProtectionAir discharge: 8 kV Contact discharge: 6 kVLighting ProtectionCommon mode: 1 kV | IEEE 802.3x Flow Control | Yes |
| ARPARP, Gratuitous ARP Dynamic ARP Inspection ARP anti-attack ARP source suppression ARP DetectionDHCP FunctionDHCP Client DHCP RelaySecurityBource Suppression ARP detection, preventing man-in-the- middle attack and ARP denial-of-service IP/Port/MAC bindingQoS/ACLPacket filtering (Layer 2 to Layer 4) Source MAC-, destination MAC-, Source IP (IPV4/ IPV6)-, TCP/UDP port number, VLAN-based traffic classification rime-based ACL Two-way ACL policy (ingress and egress)IPv6ND IPv6-Ping IPv6-Fing IPv6-FienetEquipment ManagementLoad update files and update using FTP Configure through CLI, Telnet, and Console port SNMPv1/v2/v3 NTP Ping and Tracert LDP Port loopback detectionGeneralAir discharge: 8 kV Contact discharge: 6 kVLighting ProtectionCommon mode: 1 kV | Multicast | |
| ARPDynamic ARP Inspection ARP source suppression ARP source suppression ARP DetectionDHCP FunctionDHCP Client DHCP RelaySecurity802.1X, centralized MAC address authentication Port isolation Dynamic ARP detection, preventing man-in-the- middle attack and ARP denial-of-service IP/Port/MAC bindingQoS/ACLReaket filtering (Layer 2 to Layer 4) Source MAC-, destination MAC-, Source IP (IPV4/ IPV6)-, destination MAC-, Source IP (IPV4/ IPV6)-, destination MAC-, Source IP (IPV4/ IPV6-, destination MAC-, Source IP (IPV4/ IPV6-Fing Layer 2 to Layer 4) Source MAC-, destination MAC-, Source IP (IPV4/ IPV6-Fing Layer 2 to Layer 4) Source MAC-, destination MAC-, Source IP (IPV4/ IPV6-Fing Layer 2 to Layer 4) Source MAC-, destination MAC-, Source IP (IPV4/ IPV6-Fing LiPV6-Fing Layer 2 to Layer 4) Source MAC-, destination MAC-, Source IP (IPV4/ IPV6-Fing LiPV6-Tracert IPV6-Tracert IPV6-Tracert LUDP Port Inough CLI, Telnet, and Console port SNMPV1/v2/v3 NTP Port Ioopback detectionGeneralConfigure through CLI, Telnet, and Console port SNMPv1/v2/v3 NTP Port Ioopback detectionLighting ProtectionAir discharge: 8 kV Contact discharge: 6 kV | Reliability | LLDP |
| DHCP FunctionDHCP RelaySecurity802.1X, centralized MAC address authentication Port isolation Dynamic ARP detection, preventing man-in-the- middle attack and ARP denial-of-service IP/Port/MAC bindingQoS/ACLPacket filtering (Layer 2 to Layer 4) Source MAC-, destination MAC-, Source IP (IPv4/ IPv6)-, destination IP (IPv4/IPv6)-, TCP/UDP port number-, VLAN-based traffic classification Time-based ACL Two-way ACL policy (ingress and egress)IPv6ND IPv6-Fing IPv6-Tracert IPv6-TelnetEquipment ManagementLoad update files and update using FTP Configure through CLI, Telnet, and Console port SNMPv1/v2/v3 NTP Pring and Tracert LLDP Port loopback detectionStatics ProtectionAir discharge: 8 kV Contact discharge: 6 kVLighting ProtertionCommon mode: 1 kV | ARP | Dynamic ARP Inspection ARP anti-attack ARP source suppression |
| SecurityPort isolation Dynamic ARP detection, preventing man-in-the- middle attack and ARP denial-of-service IP/Port/MAC bindingQoS/ACLPacket filtering (Layer 2 to Layer 4) Source MAC-, destination MAC-, Source IP (IPV4/ IPV6)-, destination IP (IPV4/IPV6)-, TCP/UDP port number-, VLAN-based traffic classification | DHCP Function | |
| QoS/ACLSource MAC-, destination MAC-, Source IP (IPv4/ IPv6)-, destination IP (IPv4/IPv6)-, TCP/UDP port number, VLAN-based traffic classification Time-based ACL Two-way ACL policy (ingress and egress)IPv6ND IPv6-Ping IPv6-Tracert IPv6-TelnetEquipment ManagementLoad update files and update using FTP Configure through CLI, Telnet, and Console port SNMPv1/v2/v3 NTP Ping and Tracert LDP Port loopback detectionGeneralAir discharge: 8 kV Contact discharge: 6 kVIghting ProtectionCommon mode: 1 kV | Security | Port isolation Dynamic ARP detection, preventing man-in-the- middle attack and ARP denial-of-service |
| IPv6 IPv6-Ping IPv6-Tracert IPv6-Telnet Equipment Management Load update files and update using FTP Configure through CLI, Telnet, and Console port SNMPv1/v2/v3 NTP Ping and Tracert LLDP Port loopback detection General Air discharge: 8 kV Contact discharge: 6 kV Lighting Protection Common mode: 1 kV | QoS/ACL | Source MAC-, destination MAC-, Source IP (IPv4/ IPv6)-, destination IP (IPv4/IPv6)-, TCP/UDP port number-, VLAN-based traffic classification Time-based ACL |
| Equipment Management Configure through CLI, Telnet, and Console port SNMPv1/v2/v3 NTP Ping and Tracert LLDP Port loopback detection General Statics Protection Air discharge: 8 kV Lighting Protection Common mode: 1 kV | IPv6 | IPv6-Ping IPv6-Tracert |
| Statics Protection Air discharge: 8 kV Contact discharge: 6 kV Lighting Protection Common mode: 1 kV | Equipment Management | Configure through CLI, Telnet, and Console port SNMPv1/v2/v3 NTP Ping and Tracert LLDP |
| Statics Protection Contact discharge: 6 kV Lighting Protection Common mode: 1 kV | General | |
| Lighting Protection | Statics Protection | |
| | Lighting Protection | |

| Net Weight | 2.5 kg (5.51 lb) |
|----------------------|--|
| Gross Weight | 3.2 kg (7.05 lb) |
| Product Dimensions | 440 mm × 160 mm × 44 mm (17.32" × 6.30" × 1.73") (L × W × H) |
| Packaging Dimensions | 540 mm × 280 mm × 86 mm (21.26" × 11.02" × 3.39") (L × W × H) |
| Casing Material | Sheet metal |
| Installation | Desktop mount; rack mount |
| Certifications | CE; FCC |

Dimensions (mm[inch])





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