WD5300 Series 10G Switch

WD5300 Series switches can provide high-performance L2 / L3 / L4 line speed switching services, and further integrate a variety of network services such as IPv6 and network security, combined with a variety of high reliability technologies such as redundancy protection, which can ensure the uninterrupted and secure communication capability of the network for the longest time.

WD5300 Series switches include the following products:

WD5300-54X-EI、

WD5300-54F-EI、

WD5300-26S-EI

WD5300-54X-EI

WD5300-54F-EI

WD5300-26S-EI

Features

Port

WD5300 Series switches support multiple specifications, Gigabit, 10g and 40g ports, and support rich campus network features to adapt to various application scenarios.

★ WD5300-54X-EI Support 48 *1G RJ45 ports+6*10G SFP+ ports,Fixed dual AC power supply；

★ WD5300-54F-EI Support 48 *1G SFP ports+6*10G SFP+ ports,Plug in dual AC power supply；

★ WD5300-26S-EI support 24 *10G SFP+ ports+2*100G QSFP28 ports,Plug in dual AC power supply；

Reliability

★ supports STP / RSTP / MSTP protocol, VRRP protocol, ring network protection, dual uplink active and standby link protection, LACP link aggregation and other simple and efficient redundancy protection mechanisms.

★ The ultra-high precision BFD bidirectional link detection mechanism realizes millisecond fault detection and service recovery through linkage with layer 2 and layer 3 protocols, which greatly improves the reliability of the network system。

★ Perfect Ethernet OAM mechanism, through the real-time monitoring of network operation status, to achieve rapid fault detection and location。

★ The high reliability design of software and hardware of WD5300 Series switches supports dual power supplies, most of which support pluggable power modules and meet the 50ms fault recovery time requirements of carrier level services, truly achieving the high reliability of five 9s (99.999%) of operation level core equipment。

Multi service

★ Perfect layer 2 and layer 3 multicast routing protocol to meet the access requirements of IPTV, multi terminal HD video monitoring and HD video conference；

★ The complete three-layer routing protocol and large routing table capacity can meet the needs of various types of network interconnection, and can form a super large park network, enterprise network and industry user private network。

IPv6 Solution

Fully support IPv6 protocol family, IPv6 Neighbor Discovery, ICMPv6 Path MTU discovery, DHCPv6 and other IPv6 features.

★ It supports IPv6 Multicast features such as MLD and MLD snooping, and provides users with perfect IPv6 layer 2 and layer 3 solutions. Support a wealth of IPv4 to IPv6 Transition technologies, including IPv6 manual tunnel, automatic tunnel, 6to4 tunnel, ISATAP tunnel and other tunnel technologies, so as to ensure the smooth transition from IPv4 network to IPv6 network.

Security mechanism

★ Equipment level security protection: advanced hardware architecture design enables hierarchical scheduling and protection of messages, and supports the prevention of DOS, TCP SYN Flood, UDP flood, broadcast storm, large traffic and other attacks on equipment; Support hierarchical protection of command line, and users at different levels have different management permissions；

★ Complete security authentication mechanism: support IEEE 802.1x, radius, bdtacacs +, etc., and provide users with complete security authentication mechanism.

★ Enhanced service security mechanism: support plaintext or MD5 authentication of relevant routing protocols, support URPF reverse routing lookup technology, and effectively control illegal services; The hardware level message depth detection and filtering technology supports the depth detection of control messages and data messages, so as to effectively isolate illegal data messages and improve the security of the network system.

Energy conservation

★ Intelligent power management system: it adopts advanced power system architecture design to realize efficient power conversion, unique power monitoring, slow start and other functions, real-time monitoring the operation status of the whole machine, intelligent adjustment and deep energy saving.

★ Intelligent fan management system: intelligent fan design supports automatic speed regulation, effectively reduces speed and noise, and prolongs the service life of the fan.

★ It supports energy-efficient Ethernet function and follows the international standard IEEE 802.3az,

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effectively reducing energy consumption.

Specifications

Item	WD5300-54X-EI	WD5300-54F-EI	WD5300-26S-EI
Port	48 *1G RJ45 ports+6*10G SFP+ ports	48 *1G SFP ports+6*10G SFP+ ports	24 *10G SFP+ ports+2*100G QSFP28 ports
Switch capacity	216Gbps		880G
Packet forwarding rate	160.7Mpps		660Mpps
MAC	Support static configuration and dynamic learning MAC address Support show and clearing MAC addresses MAC address aging time Support MAC address learning limit Support MAC address filtering		
VLAN	Supports 4K VLAN entries GVRP support Supports 1:1 and n:1 VLAN mapping Support basic and flexible QinQ functions Support private VLAN		
STP	Support 802.1D（STP）、802.1W（RSTP）、802.1S（MSTP）		
multicast	IGMP V1 / V2 / V3 supported Support IGMP snooping Support IGMP fast leave Support multicast group policy and multicast group quantity limit Support multicast traffic replication across VLANs Support PIM-SM / DM		
IPv4	Support static routing, rip V1 / V2, OSPF, BGP Support policy routing Support equivalent routing to achieve load balancing Support OSPF Support BFD for OSPF and BGP		
IPv6	Support ICMPv6, DHCPv6, aclv6, IPv6 telnet Support IPv6 Neighbor Discovery		

Item	WD5300-54X-EI	WD5300-54F-EI	WD5300-26S-EI
QoS	Support traffic classification based on L2 / L3 / L4 protocol header fields Support CAR flow limit Support 802.1p/dscp priority relabeling Support SP, WRR, SP + WRR queue scheduling methods Support tail-drop, wred and other congestion avoidance mechanisms Support traffic regulation and traffic shaping		
Security	Support the security mechanism of ACL flow identification and filtering based on L2 / L3 / L4 Support anti DDoS attack, TCP SYN Flood attack, UDP flood attack, etc Support the suppression of multicast, broadcast and unknown unicast messages Support port isolation Support port security and IP + MAC + port binding Support DHCP snooping and DHCP option 82 Support IEEE 802.1x authentication Support radius, bdtacacs + authentication and URPF Support hierarchical protection of command line		
Reliability	Optional power supply 1 + 1 backup Support static / LACP link aggregation Support EAPs ring network protection Support VRRP Support BFD for OSPF and BGP		
Management	Support console, Telnet, SSH 2.0 Support Web Management Support SNMP V1 / V2 / V3 Support file upload and download management in TFTP mode RMON event history is supported Support sFlow and other traffic statistical analysis		
Chassis (L*D*H)	443mm*329mm*44mm	440mm*420mm*44mm	440mm*420mm*44mm
Power	Fixed double AC：100V-240V，50Hz±10%	AC：100V-240V，50Hz±10% Default single AC power supply （120W），Support dual power redundancy	AC：100V-240V，50Hz±10% Default single AC power supply （120W），Support dual power redundancy
Power Waste	≥85W		
Weight	6kg	5kg	5kg
Environmental	Operating temperature/humidity: 0℃~50℃;5%~90% No condensation Storage temperature/humidity: -40℃~70℃;5%~95% No condensation		

Ordering

Model	Description
WD5300-54X-EI	Switch 48 *1G RJ45 ports+6*10G SFP+ ports,Fixed dual AC power supply
WD5300-54F-EI	Switch 48 *1G SFP ports+6*10G SFP+ ports,Plug in dual AC power supply (One AC power module is configured as standard, and one PM3350XC-AC power module is optional to realize 1 + 1 redundancy)
WD5300-26S-EI	Switch 24 *10G SFP+ ports+2*100G QSFP28 ports (One AC power module is configured as standard, and one PM3350XC-AC power module is optional to realize 1 + 1 redundancy)
PM3350XC-AC	AC power module (220V，120W)