

SKS8300-12E2T2X
16-Ports 2.5G/10G Uplink L3 Managed Switch

- 12 x 2.5Gbps RJ45 Ports + 2 x 10Gbps RJ45 Ports
2 x 10Gbps SFP+ Ports.
- Operational-grade device stability and network resilience
- Sophisticated security mechanisms
- Powerful QoS capability
- Rich service characteristics
- Rich routing protocols
- Unified network management function


Product Specification

Input/Output Interface	
Power supply	AC 100~240V
Ports	12-Ports 2.5Gbps RJ45, 2-Ports 10Gbps RJ45,2-Ports 10Gbps SFP+,1-Port Console (With RJ-45)
Performances	
Backplane Bandwidth	140Gbps
Packet Forwarding Rate	208Mpps
Flash memory	32M
MAC Address Table	16K
System memory	512M
Forwarding Mode	Store-and-forward
Dimension	250(L) x 44(H) x 210(W)mm
Power Wasted	≤30W
Layer 2 characteristics	
MAC Address Table	Support manual add/remove MAC address table Supports port to disable MAC address learning function Support port MAC address number control Support port MAC address filtering function
VLAN Characteristics	Supports 4K VLAN 802.1Q. Supports VLAN based on port, MAC and protocol. Support Access/Trunk/Hybrid Supports QinQ
Spanning Tree	Supports STP/RSTP/MSTP Supports remote loop detection
Ports Characteristics	Supports bidirectional bandwidth control Supports static and LACP dynamic aggregation port aggregation Supports multi-port mirroring Support port storm suppression Supports 12K Jumbo ultra-long frame forwarding
Safety features	
User Safety	Supports Anti-ARP-spoofing spoofing protection. Supports Anti-ARP-flooding automatic suppression. Supports IP Source Guard to automatically create IP+MAC+Port+VLAN binding table. Supports Port Isolation to hardware isolate messages between ports. Supports MAC address binding to ports and port MAC address filtering. Supports IEEE 802.1x and AAA/Radius user authentication.
Equipment Safety	Support SSHv2 Secure Shell Support SNMP v3 encryption management Supports Telnet login and password mechanism for Security IP.
Network Security	Supports one-key binding based on dynamic ARP table Supports manual binding of IP addresses, VLAN IDs, MAC addresses and ports. Supports L2-L7 ACL flow filtering. Supports port broadcast/multicast message suppression and automatic shutdown of dangerous ports. Supports DHCP Option82 and PPPoE+ tagging to upload user physical location information.
Business Characteristics	
ACL	Supports standard and extended ACLs Supports Time Range based ACL policy. Provides flow classification and flow definition based on source/destination MAC address, VLAN, 802.1p, ToS, DiffServ, source/destination IP (IPv4/IPv6) address, TCP/UDP port number, protocol type and other IP header information. Supports 80-byte IP header filtering from L2 to L7.
QoS	Supports traffic classification based on COS/DSCP Supports rate limiting for incoming and outgoing messages on ports or custom streams. Supports message mirroring and message redirection for ports or custom streams. Supports priority marking of ports or custom streams, and provides Remark capability for 802.1P and DSCP priorities. Supports advanced queue scheduling based on ports or custom streams, supports 8 priority queues per port/stream, and provides various queue scheduling algorithms such as SP, WRR, SP+WRR, etc. Supports traffic supervision based on VLAN direction (in/out). Supports traffic supervision based on the direction of aggregated flows (in/out). Supports queue-based traffic shaping Support port-based traffic shaping Supports SP strict priority scheduling Supports WRR (weighted round robin) scheduling Supports SP + WRR hybrid scheduling Supports IPv4-v6 QoS (qc)
Multicast	Support IGMPv1/v2/v3 Snooping Supports IGMP Filter multicast filtering Support IGMP Fast leave multicast groups Support IGMP Proxy
Layer 3 characteristics	
ARP	Supports ARP table entry aging Support ARP Proxy
IPv4	Supports static IPv4 routes Support Ping, Traceroute, Support VRRP Support OSPF, RIP, PIM, BGP and other protocols Support ICMP redirect、ICMP unreachable
IPv6	Supports static IPv6 routes Support for ICMPv6 Support Neighbor Discover
Reliability Property	
Loop protections	Supports Enhanced Ethernet Loopback Protocol Supports Loopback-detection port loopback detection
Link protection	Supports FlexLink link backup Support RSTP/MSTP link healing hardware acceleration capability Support LACP dynamic link aggregation
Maintenance features	
Network maintenance	Supports Telnet-based real-time port traffic, utilisation and send/receive packet statistics Supports LLDP neighbour discovery protocol Supports Ethernet OAM 802.3ah EFM and 802.1ag CFM. Supports data logging and RFC 3164 BSD syslog Protocol. Supports Ping and Traceroute
Equipment management	Supports Command Line Interface (CLI), Console port, Telnet, SSH and WEB configuration management Support virtual cable detection (VCT) Support SNMP V1/V2c/V3 management Support SNMP protocol Supports user hierarchical permissions Support user RADIUS remote authentication Support user Tacacs+ remote authentication

* The data and product performance quoted in the above introduction are the performance of the products under specific experimental environments of specific equipment, which may vary based on the actual environment or equipment on site, and the technical comparisons mentioned are all explanations of scientific principles and do not involve other purposes. The third-party product information mentioned above, such as flagship models, carrier bandwidth, etc., are all statistical information from mainstream manufacturers as of the official release date of the product. There may be more than one version of the same model, the product pictures and APP/software interface in the above pages are for illustration only, the physical product (including but not limited to appearance, colour) and APP/software interface (including but not limited to UI, illustrations) may be slightly different, please refer to the physical object.
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