

## SKS8300-8X

### 8-Ports 10G Uplink L3 Managed Switch



- IEEE802.3x full-duplex flow control and Backpressure half-duplex flow control;
- Backward compatible with 1000M/2.5Gbps transmission rate; 10Gbps SFP+ optical modules are required, supporting SR/LR/LRM/ERZR and other models;
- Layer 3 routing protocol control, adaptable to multiple services, efficient and secure information transmission;
- Support static convergence and dynamic convergence (LACP) 2 convergence modes, effectively increase the link bandwidth, improve the reliability of the link, and at the same time can achieve load balancing, link backup;
- Flexible and convenient management and maintenance Supports various management modes, such as Console, Telnet, and SSH;
- Support WEB management, simple and efficient, convenient for installation and debugging of engineering and maintenance personnel;
- Supports file upload and download management through TFTP.



## Product Specification

Input/Output Interface	
Power supply	DC 12V2A
Ethernet	8*1000M/2.5Gbps/10Gbps SFP+ Slots 1*Console Port
Performances	
Backplane Bandwidth	160Gbps
Packet Forwarding Rate	119.04Mpps
Packet Cache	12Mbit
VLAN	VLAN range 1-4094, maximum active VLAN is 31
MAC Address Table	16K, Auto-learning, Auto-updating
Jumbo frames	12KBytes
Forwarding Mode	Store-and-forward
Indicator	PWR(Green), LNK/ACT(Green/Orange), SYS(Green)
Dimensions(L*W*H)	168(L)*94(W)*32(H) mm
Network parameter	
Network Protocols	IEEE802.3, IEEE802.3z, IEEE802.3ae, IEEE802.3x, IEEE802.1X, IEEE802.1Q, IEEE802.1p, IEEE802.1d, IEEE802.1w, IEEE802.3ad
Network Media	100BASE-X: MMF, SMF 10GBASE-X: MMF, SMF 10GBASE-SR: OM1/OM2/OM3 or above MMF (2m~300m) 10GBASE-LR: IEC's B1.1 and B1.3 SMF (2m~10000m)
L3 Features	
DHCP Server	DHCP Server/DHCPv6 Server
Route	Static Route(IPV4/IPV6)/Route Aggregation
RIP	RIP v1/v2
OSPF	OSPF v2
BGP	BGP4
L2 Features	
MAC Address Table	MAC Aging Time/MAC Filter/MAC Notification
Basic Management	Console/Telnet/SSH Http/Https,SSL/TLS FTP/TFTP Syslog SNMP(v1/v2c/v3),SNMP Trap SNTP/NTP CPU protect Software/Hardware watchdog Firmware Upgrade/Backup Ping/Traceroute
Port Config	Bandwidth Control/Flow Control/EEE/MTU/CFM(802.1ag)/EFM OAM(802.3ah) DDM/Storm Control/Port Isolation/Port Security/Virtual Cable Test/ULDP/Cisco UDLD
Discovery	LLDP(802.1ab)/LLDP-MED
Link Aggregation	Static LACP(802.3ad) Load Balance(src-mac/dst-mac/src-ip/dst-ip) Max groups and ports per group
VLAN	VLAN(802.1Q 4K) Access/Trunk/Hybrid Private VLAN VLAN Filter MAC-based VLAN Protocol-based VLAN IP Subnet-based VLAN Voice VLAN GVRP/GMRP QinQ/Selective-QinQ/Flexible QinQ VLAN Translation/N:1 VLAN Translation Guest VLAN
Network Loop Detection	Loopback Detection ERPS
Spanning Tree	STP/RSTP/MSTP MSTP Support 64 instance BPDU Guard/Root Guard/BPDU Tunnel
ARP	Static ARP ARP Scanning Prevention ARP Spoofing Prevention ARP Guard Gratuitous ARP Dynamic ARP Inspection ARP Quantity Control
IPv4 Related Function	
ICMP	Anti ICMP Attack ICMP Rate Limit ICMP Unreachable Drop
Control Multicast	DCSCM
Multicast VALN	Multicast VALN
IGMP	IGMP SNOOPING V1/V2/V3 Fast Leave IGMP Proxy
DHCP	DHCP Client/BOOTP DHCP Relay DHCP Snooping DHCP Option 82/43/60/61/67
IPv6 Related Function	
IPv6 Basic	IPv6 ND Snooping
DHCPv6	DHCPv6 Relay DHCPv6 Snooping IPv6 SAVI Security RA
IPv6 Unicast Routing	Static Route
IPv6 Multicast Routing	MLD v1/V2 Snooping
IPv6 Features	SNMP over IPv6 Support HTTP over IPv6 Support SSH over IPv6 Support DNS over IPv6 Support IPv6 ping/traceroute Support IPv6 Telnet Support IPv6 Radius+ Support IPv6 Tacacs+ Support IPv6 SNTP/NTP Support IPv6 FTP/TFTP Support IPv6 IPsec Support IPv6 ACL
QoS(Quality Of Service)	
Basic	Trust COS/DSCP Trust Port
Scheduling	SP WRR WDRR
PolicyMap Stream	Based on VLAN Based on COS/DSCP Aggregate PolicyMap Ingress PolicyMap
Policing	CAR Stream Shaping(leak algorithm) Ingress Policing
Rewrite	COS/802.1p Priority IP Precedence IPv4 DSCP/IPv6 DSCP drop-precedence internal-priority Ingress/Egress Rewrite
Queuing	DSCP to DSCP mapping DSCP to Queue mapping COS to DP mapping COS to Queue mapping
ACL	
IP-ACL	SIP/DIP IP Protocol IP Priority(DSCP,TOS, Precedence) TCP,UDP src,dst Port
MAC-ACL	SRC/DST MAC VLAN COS Tag/Untag
IP-MAC ACL	MAC-ACL and IP-ACL
User-defined ACL	Base on user defined profile
ACL Features	Based on time period ACL ACL on VLAN Based on ACL Stream
Security	
802.1x	Port Based Authentication Support EAPoR MAC based Authentication Guest VLAN
MAB	Based on Port Authentication Based on MAC Authentication
MAC Address Count Limit	Based on VLAN Based on Port
IP Address Count Limit	Based on Port Based on VLAN
Access Management	Based on source mac and IP address
Deny DoS Attack	TCP Flag IP Segment ICMP
TACACS+	Standard Support
Radius	Standard Support Client, Support MD5
SSL	Openssl 1.1.0
Redundancy Related Function	
MRPP	Compatible ERRP
ULPP	Uplink Protection Protocol Smart Link/Monitor Link
ULSM	Uplink State Monitor
Flow Monitor Function	
Mirror	Support one to one, multi to one Port based mirror, support ingress, egress, and both CPU based mirror Flow based mirror RSPAN
Environmental Standard	
Working Environment	Working temperature: -10~50°C Storage temperature: -40~70°C Operating humidity: 10%~90%, non-condensing Storage humidity: 5%~95%, non-condensing

\* The data and product performance quoted in the above introduction are the explanations 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. Due to real-time changes in product versions, batches, production and supply factors, in order to provide accurate product information, functional parameters and appearance details as much as possible, XikeStor may adjust the content of the above pages in real time, such as text expressions and picture effects, in order to be consistent with the actual product. Adjustments may be made without prior notice. Due to the measurement environment, measurement methods and other factors, product dimensions, parameters and other information may be subject to certain scientific errors.