S6300 Series All10GE Security Routing Switch

S6300 Series is all 10GE security routing Ethernet switch with high-performance, high-security and multi-service. S6300 series has advanced hardware design with hot-swapped power redundancy. It can support up to 48*10GE ports and 4*40G ports. Advanced non-blocking array exchange and huge packet cache support smooth operation at the extreme circumstance. It is for IP MAN convergence layer and large-scale enterprise zone or the core of the network layer.

S6300-24X

- Backplane capacity 480Gbps
- Throughput 360Mpps
- 24*10GE SFP+
- 3*hot-swapped fans
- 1+1 power redundancy
- Support stack
- Full loaded ⩽120W
- 437mm*360mm*44mm

S6300-48T

S6300-26XQ

- Backplane capacity 640Gbps
- Throughput 480Mpps
- 24*10GE SFP+
- 2*40GE QSFP
- 3*hot-swapped fans
- 1+1 power redundancy
- Support stack
- Full loaded ⩽130W
- 437mm*360mm*44mm

S6300-52XQ

- Backplane capacity 1.28Tbps
- Throughput 960Mpps
- 48*10GE SFP+
- 4*40GE QSFP
- 3*hot-swapped fans
- 1+1 power redundancy
- Support stack
- Full loaded ⩽460W
- 437mm*360mm*44mm

Product Specification

Attributes	S6300-24X	S6300-26XQ	S6300-52XQ
Backplane capacity	480Gbps	640Gbps	1.28Tbps
Switching capacity	480Gbps	512Gbps	1.28Tbps
Throughput (IPv4/IPv6)	360Mpps	480Mpps	960Mpps
Memory and storage	512MB DDR2 SDRAM Memory and 16MB Flash Memory		
Redundancy design	1+1 hot-swap redundant power		
Power supply	AC：Input 100～240V，50～60Hz； DC：Input -36V～-72V；		
Power consumption	Full-load ≤120W	Full-load ≤130W	Full-load ≤460W
Outline dimensions (mm) (W*D*H)	437mm*360mm*44mm		437mm*408mm*44mm
Weight (in maximum configuration)	≤8kg	≤8.5kg	≤9kg
Environmental requirements	Working temperature：-10°C～50°C Relative humidity：10%～90%，no condensing		

Service Features

Attributes		TiNet S6300 Series
L2 features	MAC	128K MAC address MAC Black Hole Port MAC Limit Source MAC filtration
	VLAN	4K VLAN entries Port-based/MAC-based/IP subnet-based VLAN Port-based QinQ and Selective QinQ (StackVLAN) 1:1 and N:1 VLAN VLAN Swap and VLAN Remark PVLAN to realize port isolation and saving public-vlan resources GVRP
	Spanning tree protocol	IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol instances (MSTP) Remote loop detecting BPDU protection Root protection RRPP ring topology RRPP instance
	Port	Bi-directional bandwidth control

		Static link aggregation and LACP(Link Aggregation Control Protocol) Port mirroring and traffic mirroring
Security features	User's security	Anti-ARP-spoofing Anti-ARP-flooding IP Source Guard create IP+VLAN+MAC+Port binding Port Isolation MAC address binds to port and port MAC address filtration IEEE 802.1x and AAA/Radius authentication
	Device security	Anti-DOS attack(such as ARP，Synflood, Smurf, ICMP attack), ARP detection, worm and Msblaster worm attack SSHv2 Secure Shell SNMP v3 encrypted management Security IP login through Telnet Hierarchical management and password protection of users
	Network security	User-based MAC and ARP traffic examination Restrict ARP traffic of each user and force-out user with abnormal ARP traffic Dynamic ARP table-based binding IP+VLAN+MAC+Port binding L2 to L7 ACL flow filtration mechanism on the 80 bytes of the head of user-defined packet Port-based broadcast/multicast suppression and auto-shutdown risk port URPF to prevent IP address counterfeit and attack DHCP Option82 and PPPoE+ upload user's physical location Plaintext authentication of OSPF、RIPv2 and BGPv4 packets and MD5 cryptograph authentication
IP routing	IPv4	ARP Proxy DHCP Relay DHCP Server Static route RIPv1/v2 OSPFv2 IS-IS BGPv4 ECMP Strategy route Route policy MPLS/MPLS VPN/VPLS
	IPv6	ICMPv6 ICMPv6 redirection DHCPV6 IPv6 ACL Static route OSPFv3

		RIPng IPv6 and IPv4 dual stack
Service features	ACL	Standard and extended ACL Time Range ACL Rate-limit on sending and receiving packet on port Packet redirection Port-based flow-control Two-speed three-color CAR Packet filter providing filtering based on source/destination MAC address, source/destination IP address, port, protocol, VLAN, VLAN range, MAC address range, or invalid frame Packet filtration of L2～L7 even deep to 80 bytes of IP packet head
	QoS	Rate-limit to packet sending/receiving speed of port or self-defined flow and provide general flow monitor and two-speed tri-color monitor of self-defined flow Priority remark to port or self-defined flow and provide 802.1P, DSCP priority and Remark CAR(Committed Access Rate)、Traffic Shaping and flow statistics Packet mirror and redirection of interface and self-defined flow Super queue scheduler based on port and self-defined flow. Each port/ flow supports 8 priority queues and scheduler of SP, WRR and SP+WRR. Congestion avoid mechanism，including Tail-Drop and WRED
	Multicast	IGMPv1/v2/v3 IGMPv1/v2/v3 Snooping IGMP Filter MVR and cross VLAN multicast copy IGMP Fast leave IGMP Proxy PIM-SM/PIM-DM/PIM-SSM MLDv2/MLDv2 Snooping
Reliability	Loop protection	EAPS and GERP (recover-time <50ms) Loopback-detection
	Link protection	FlexLink (recover-time <50ms) RSTP/MSTP (recover-time <1s) LACP (recover-time <10ms) BFD
	Device protection	VRRP host backup Double fault-tolerant backup of host program and configuration file 1+1 power hot backup
Maintenance	Network maintenance	Telnet-based statistics RFC3176 sFlow LLDP 802.3ah Ethernet OAM RFC 3164 BSD syslog Protocol

		Ping and Traceroute
	Device management	Command-line interface（CLI）, Console, Telnet WEB management System configuration with SNMPv1/v2/v3 RMON (Remote Monitoring)1/2/3/9 groups of MIB NTP(Network Time Protocol) GN.LinkⅡ Server NGBNView network management WEB-based network management Ping and Traceroute

Purchase Information

Product name	Product description
S6300-24X	24*10GE SFP+,2*power slots, 3*hot-swapped fans
S6300-26XQ	24*10GE SFP+,2*40GE QSFP, 2*power slots, 3*hot-swapped fans
S6300-52XQ	48*10GE SFP+,4*40GE QSFP, 2*power slots, 3*hot-swapped fans
NG01PWR100AC	100W 220V AC power module
NG01PWR180AC	180W 220V AC power module
NG01PWR100DC	100W -48V DC power module
NG01PWR180DC	180W -48V DC power module