

Shenzhen ANYK Technology Co., Ltd.

AK-S6800 Series 10G Security Switch

General Description

S6800 Series are All 10GE security routing Ethernet switch with high-performance, highsecurity and multi-service. S6800 series has advanced hardware design with hot-swapped power redundancy. It can support up to 24*10GE ports and 2*40G ports. Advanced nonblocking 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.

S6828T



- Backplane width 128Gbps
- Forwarding Capacity 95.2Mpps
- 12*10/100/1000Base-T
- > 12*Combo ports
- > 2*10GE slots
- > 1+1 power redundancy
- Support stack
- > Full-loaded < 40W
- > 440mm*300mm*44mm

S6828S



- Backplane width 128Gbps
- Forwarding Capacity 95.2Mpps
- > 12*100/1000Base-X SFP ports
- ➤ 12*Combo ports
- 2*10GE slots
- > 1+1 power redundancy
- Support stack
- ➤ Full-loaded < 50W
- > 440mm*300mm*44mm

S6852T



- Backplane width 256Gbps
- Forwarding Capacity 130.9Mpps
- 44*10/100/1000Base-T
- ➤ 4*Combo ports
- > 2*10GE slots
- > 1+1 power redundancy
- Support stack
- ➤ Full-loaded < 60W
- > 440mm*300mm*44mm



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S6852S



- Backplane width 256Gbps
- Forwarding Capacity 130.9Mpps 44*100/1000Base-X SFP ports
- 4*Combo ports
- 2*10GE slots
- 1+1 power redundancy
- Support stack
- Full-loaded < 70W
- 440mm*300mm*44mm

Specification

Item	S6828T	S6828S	S6852T	S6852S	
Backplane Capacity	128Gbps	128Gbps	256Gbps	256Gbps	
Switch 128Gbps		128Gbps	256Gbps	256Gbps	
Throughput (IPv4/IPv6)	95.2Mpps	95.2Mpps	130.9Mpps	130.9Mpps	
Memory & Flash	256MByte DDR2 SDRAM memory 8MB flash				
Redundancy design	1+1 hot-swap redundant power				
Power supply	AC: Input 100~240V, 50~60Hz				
Power consumption	Full-loaded ≤ 40W Idle ≤ 15W	Full-loaded ≤ 50W Idle ≤ 15W	Full-loaded ≤ 60W Idle ≤ 30W	Full-loaded ≤ 70W Idle ≤ 30W	
Dimensions (W/D/H) (Uint:mm)	440×380×44	440×380×44	440×380×44	440×380×44	
Weight (Full-loaded)	≤ 6kg	≤ 6kg	≤ 6.5kg	≤ 6.5kg	
Environmental requirements	Working temperature: -15°C \sim 55°C Storage temperature: -40°C \sim 70°C Relative humidity: 10% \sim 90%, non-condensing				

Business Features

Item		FC-S6800 Series
L2 features	MAC	128K MAC address MAC Black Hole Port MAC Limit Source MAC filtration





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	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
	Port	Bi-directional bandwidth control Static link aggregation and LACP(Link Aggregation Control Protocol) Port mirroring and traffic mirroring
	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
Security features	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 userdefined 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 BGPv4 ECMP Strategy route Route policy





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		MLD Snooping
		IPv6 telnet
		DHCPV6 Snooping
		IPv6 ACL
		IPv6 Web management
		ospfv2/v3
		ripv1/v2
		pim-dm/pim-sm/pim-ssm
		igmp/igmp-proxy
		bgp4
	IPv6	mld/mld-proxy
	IF VO	ldp/mpls
		DHCPv6 relay/Server/client
		isis4
		Static route
		Vrrp
		mail-alarm
		syslog
		pppoeplus
		urpf
		sntp
		ping/ping6
		Standard and extended ACL
		Time Range ACL
		Rate-limit on sending and receiving packet on port
		Packet redirection
	ACL	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
		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
	QoS	Priority remark to port or self-defined flow and provide 802.1P, DSCP priority and Remark
Service		CAR(Committed Access Rate). Traffic Shaping and flow statistics
features		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
		IGMPv1/v2/v3
	Multicast	IGMPv1/v2/v3 Snooping
		IGMP Filter
		MVR and cross VLAN multicast copy
		IGMP Fast leave
		IGMP Proxy
		PIM-SM/PIM-DM/PIM-SSM
		PIM-SMv6、PIM-DMv6、PIM-SSMv6
		FIIVI-SIVIVO FIIVI-DIVIVO FIIVI-SSIVIVO



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			MLDv2/MLDv2 Snooping MSDP	
Ŋ		Loop protectio n	EAPS and GERP (recover-time <50ms) Loopback-detection	
	Reliabilit y	Link protectio n	FlexLink (recover-time <50ms) RSTP/MSTP (recover-time <1s) LACP (recover-time <10ms) BFD	
		Device protectio n	VRRP host backup Double fault-tolerant backup of host program and configuration file 1+1 power hot backup	
		Network maintena nce	Telnet-based statistics RFC3176 sFlow LLDP 802.3ah Ethernet OAM RFC 3164 BSD syslog Protocol Ping and Traceroute	
	Maintena nce	Device manage ment	Command-line interface (CLI), Console, Telnet and WEB configuration 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	

Ordering Information

Postcode:518055

Model	Description
S6828T	12*10/100/1000Mbps RJ45 ports, 12* Combo GE combo ports, 2*10GE slots SFP+, 2*power slots
S6828S	12*100/1000BaseX SFP ports, 12*Combo GE combo ports, 2*10GE slots SFP+, 2*power slots
S6852T	44*10/100/1000Mbps RJ45 ports, 4*Combo GE combo ports,2*10GE slots SFP+, 2*power slots
S6852S	44*100/1000BaseX SFP ports, 4*Combo GE combo ports, 2*10GE SFP+,2*power slots