

S5100 Series All Gigabit Security POE Switch

S5100 Series all GE POE switches is a new generation of intelligent carrier-grade GE switches. They are applied into 802.11n platform.

As a leading high-performing POE switches, S5100 series switches provide large capacity, high-density GE ports to fully meet customer's demand with cost-effective GE access/aggregation. For enterprise network users and carrier about WLAN, WIFI, FTTH, security monitoring and many other scenarios, S5100 POE switches provide convenient maintenance methods to reduce network planning, construction and maintenance pressure in order to build future-oriented enterprise IT network. S5100 POE switches satisfy IEEE standard of 802.3af and 802.3at. The maximum power consumption of each port is 32W, the whole power consumption can reach 400W.

S5100-10PC



- 8*10/100/1000BaseT with POE power supply
- 2*ComboGE(100/1000M BaseX SFP or 100/1000M BaseT)
- 16K Jumbo, 8K MAC, 4K VLAN, QinQ
- 256 ACL with IP+MAC+Port+VLAN binding
- Full-loaded power consumption< 30W (without POE supply)
- WEB/SNMP/Telnet
- POE supply satisfy 802.3af and 802.3at
- Max power consumption supply of single port is 32W
- Maximum POE power consumption is 150W
- 335mm(W)*220mm(D)*44mm(H)

S5100-20PC



- 16*10/100/1000Base-T with POE power supply
- 4*100/1000M BaseX SFP
- 16K Jumbo, 8K MAC address, 4K VLAN, QinQ
- 256ACL with IP+MAC+Port+VLAN binding
- Full-loaded power consumption< 30W (without POE supply)
- POE supply satisfy 802.3af and 802.3at
- Max power consumption supply of single port is 32W
- Maximum POE power consumption is 400W
- 440mm(W)*359mm(D)*44mm (H)

S5100-28PC



- ☐ 20*10/100/1000Base-T with POE power supply
- ☐ 4*ComboGE((100/1000M BaseX SFP or 100/1000M BaseT)
- ☐ 16K Jumbo, 8K MAC address, 4K VLAN, QinQ
- ☐ 256ACL with IP+MAC+Port+VLAN binding
- ☐ Full-loaded power-consumption< 30W (without POE supply)
- ☐ POE supply satisfy 802.3af and 802.3at
- ☐ Max power consumption supply of single port is 32W
- ☐ Maximum POE power consumption is 400W
- ☐ 440mm(W)*359mm(D)*44mm (H)

Product Specifications:

Item	S5100-10PC	S5100-20PC	S5100-28PC
Backplane capacity	48Gbps	68Gbps	68Gbps
Interface switching capacity	20Gbps	40Gbps	56Gbps
Forwarding capacity	14.9Mpps	29.8Mpps	41.7Mpps
Memory and flash	64MB SDRAM memory and 8MB flash		
POE features	Satisfy 802.3af and 802.3at standard, max power consumption supply of single port is 32W		
Power consumption	Full-loaded≤25W (without POE)	Full-loaded≤28W (without POE)	Full-loaded≤30W (without POE)
	Idle≤18W	Idle≤20W	Idle≤22W
Dimensions (width x depth x height))	335mm×44mm×220mm	440mm*44mm*359mm	440mm*44mm*359mm
Weight (Full-loaded)	≤4.5KG	≤4.5KG	≤5KG
Environmental requirements	Operating Temperature: -15°C~55°C Storage Temperature: -40°C~70°C Relative humidity: 10%~90%, non-condensing		

Business Features:

Item		S5100-10PC/20PC/28PC
L2 features	MAC	8K MAC address MAC Black Hole Port MAC Limit
	VLAN	4K VLAN entries Port based QinQ PVLAN to realize port isolation and saving public-vlan resources GVRP
	Spanning tree	STP/RSTP/MSTP Remote-loop-detect
	Port	Bidirectional bandwidth control, configure entry/exit and the smallest 64K control particle Static and LACP Port- mirroring of 1:1 or N:1
Security features	User's security	ARP anti-Flooding, configure ARP traffic safety threshold and inhibition ARP packet ARP anti-Spoofing, configure ARP inner and outer MAC check and static ARP checklist and drop / flood action IP+MAC+port+VLAN binding manually Port Isolation, configure hardware isolation of each port 文 Bind MAC address to port and MAC address filtration on port IEEE 802.1x and AAA/Radius authentication
	Device security	Anti-DOS attack SSHv2 Secure Shell SNMP v3 encryption Telnet based on Security IP Prevent unauthorized user
	Network security	One button binding based on dynamic ARP table Manual binding parameter of IP 、 VLAN ID、 MAC and port etc. L2-L7 ACL flow filtration Auto-shutdown port in storm Update user's location through DHCP Option82 and PPP
Service features	ACL	Activate standard and extended ACL Time Range ACL strategy Flow classification based on SMAC、DMAC、VLAN、SIP、DIP、IP IP(IPv4/IPv6) 、TCP/UDP port num、 protocol type etc. Packet filtration of L2~L7 IP header with 80bytes
	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 Packet mirror and redirection of interface and self-defined flow Supports Priority remark to port or self-defined flow and provide 802.1P, DSCP priority and Remark 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

	Multicast	IGMPv1/v2/v3 Snooping IGMP Filter MVR multicast VLAN register and cross VLAN multicast replication IGMP Fast leave IGMP Proxy
Reliability	Loop protection	EAPS and GERP Loopback-detection
	Link protection	FlexLink RSTP/MSTP LACP
	Device protection	Backup of host program and configuration files
Maintenance	Network maintenance	Port real-time, utilization and transmit/receive statistic based on CLI Port real-time, utilization and transmit/receive statistic based on CLI 802.3ah Ethernet OAM Syslog and RFC 3164 BSD syslog Protocol Ping and Traceroute
	Device management	CLI, Console port, Telnet and WEB SNMPv1/v2/v3 RMON (Remote Monitoring)1,2,3,9 group MIB NTP GN.Link II Server NGBNView network management

Purchase Information:

Product name	Product Description
S5100-10PC	POE, 8*10/100/1000BaseT, 2*ComboGE(1000Base-X SFP or 10/100/1000Base-T) (provide AC 220V)
S5100-20PC	POE, 16*10/100/1000BaseT, 4*100/1000Base-X SFP (provide AC 220V)
S5100-28PC	POE, 24*10/100/1000BaseT, 4*ComboGE(1000Base-X SFP or 10/100/1000Base-T) (provide AC 220V)