8 port 10/100/1000Mbps managed IP65 outdoor POE Switch
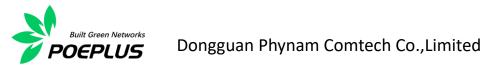
S3512-8P2T(S)-OT

Overview：

S3512-8P2T(S)-OT is a industrial grade waterproof POE Switch for outdoor application purpose， which provide 8*10/100/1000Mbps POE ports max 90w output. Metal case IP65 protection level with M16 waterproof connector， it can be used for outdoor CCTV， wireless coverage, light pole or broadcast speaker project.
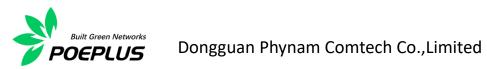
Model	S3512-8P2T(S)-OT
Ports	8*10/100/1000Base-TX POE RJ45 2*10/100/1000Base-TX RJ45 uplink 2*100/1000M SFP optional
Connector	10*M16 waterproof connector for RJ45 connection in default 1*M16 waterproof connector for power cable connection
Mode of connection	Internal connection（Open metal case）
Console	1*console Port for management
Reset	1
Power input	AC input 110-270V 50/60HZ
Feature function	1. 802.3AT/BT standard POE protocol 2. Max 4 ports 90w output 3. Industrial grade design，working temperature range -40℃--85℃ 4. POE watchdog function 5. Rich software feature 6. Metal case IP65 protect level 7. Built-in high lever power supply max 400w. 8. 6KV lightning protect.
Network protocol	IEEE 802.3x IEEE 802.3、IEEE 802.3u、IEEE 802.3ab、IEEE 802.3z IEEE 802.3ad IEEE 802.3q 、IEEE 802.3q/p IEEE 802.3AF/AT/BT IEEE 802.1w、IEEE 802.1d 、IEEE 802.1S IEEE 802.3z 1000BASE-X STP(Spanning Tree Protocol) RSTP/MSTP(Rapid Spanning Tree Protocol) EPPS ring network protocol EAPS ring network protocol
Network port	1-10 port 10/100/1000BaseT（X）adaptive， Full/half duplex MDI/ MDI-X adaptive
Forward mode	Store-and-forward (full-line speed)
Backplane bandwidth	56/128Gbps （ Non-blocking ）
Packet forwarding rate	40.32Mpps
MAC table	8K
Packet forwarding cache	4.1M
Medium	10BASE-T ： Cat3,4,5 UTP(≤250 meter) 100BASE-TX ： Cat5 or later UTP(≤100 meter)

	1000BASE-TX ： Cat6 or later UTP(≤1000 meter)
	1000BASE-SX:62.5µm/50µm MMF(2m~550m)
	1000BASE-LX:62.5µm/50µm MM(2m~550m) or 10µm SMF(2m~5000m)
FLASH	16M
RAM	128M
Power consumption	≤15W（standalone）
LED indicator	Port（green/100M+yellow/1000M） PWR:（power indicator） PMX:（ Power overload indicator light ）
Operating temperature/ humidity	-40～+85°C；5%～90% RH No condensation
Storage temperature/ humidity	-55～+95°C；5%～95% RH　No condensation
Product size/package size （L*W*H）	293.5×251.5×67mm
Net/gross weight （kg）	4.2kg
installation	Wall hanging installation, holding pole installation（no accessories in default）
Lightning protection/protection level	Port lightning protection ：6KV 8/20us； Protection grade ：IP65
Safety certification	3C； CE mark, commercial；CE/LVD EN60950； FCC Part 15 Class B；RoHS；
Quality assurance period	2 Years

Software feature

Port	
Port Shutdown	Support
Port Speed	Support negotiation, full-1000, full-100, half-100, full-10, half-10
Flow Control	support full-duplex IEEE 802.3x, half-duplex back pressure
Storm Control	Supports rate limit for broadcast, multicast, and DLF packets
Storm Constrain	Support the detection of broadcast packets, multicast packets, or unicast packets on the port, shutdown the port if the rate is over the threshold.
Port Mirror	Support
Port Rate Limit	Support port ingress and egress rate limit
Link Aggregation	Support manual link aggregation Support LACP dynamic link aggregation Supports up to 8 aggregation groups, each group up to 8 ports Support source MAC, destination MAC, source destination MAC,

	source IP, destination IP, source destination IP routing strategy
Port Isolate	Support
Jumbo Frame	Support up to 16KB packet
Cable Distance Diag	Support
Redundant Port	Support
The DDM of fiber ports	Support
MAC	
MAC Table Capacity	8K
MAC Table Management	Support
Forwarding mode	Support IVL forwarding mode
Static MAC Address	Support
MAC Address Binding	Support
MAC Address Filtering	Support
MAC Learning Control	Control the MAC learning based on port
VLAN	
Number of VLANs	4K
802.1q-based VLAN	Support
MAC-based VLAN	Support
IP-based VLAN	Support
Protocol-based VLAN	Support
PVLAN	Support
Voice VLAN	Support
VLAN Mapping	Support 1:1 mapping
QinQ	Support basic QinQ Support flexible QinQ
Reliability	
Spanning Tree Protocol	Support STP/RSTP/MSTP
Port Loop Detection	Support
EAPS	Support RFC3619
ERPS	Support G.8032/Y.1344
LLDP	Support LLDP & LLDP-MED
UDLD	Fully compatible with CISCO's UDLD protocol
IP	
ARP	Support static and dynamic ARP
IP Route	Support 0.0.0.0/0 route and other static route, but can't support L3 forwarding
VLAN Interface	Support 32 VLAN interfaces
Multicast	

Static Multicast MAC Address	Support
IGMP SNOOPING	Support
MLD SNOOPING	Support
MVR	Support
GMRP	Support
ACL	
Standard IP-based ACL	Support
Extended IP based ACL	Support
MAC IP-based ACL	Support
MAC ARP-based ACL	Support
IPv6-based ACL	Support
ACL Port Filtering	Support
Time-based ACL	Support
QoS	
Port Queue Number	8
Port Queue Scheduling Mode	Support WRR, SP, WFQ
Port-based Classification	Support
802.1p-based Classification	Support
DSCP-based Classification	Support
ACL-based Classification	Support
QoS Policy	Support packets mapping to queue Support COS or DSCP Remarking Support rate limits of data flow Support data flow statistics Support mirroring of data flow
DHCP	
DHCPv4 Client	Support
DHCPv6 Client	Support
DHCP Snooping	Support
DHCP Relay	Support
DHCP Server	Support
DHCP option 82	Support
Management	
CLI Management	Support Console, TELNET and SSH Support multiple TELNET connections based on IPv4 and IPv6 Support multiple SSH connections based on IPv4 and IPv6 Support running configuration rollback Support ZTP (Zero Touch Configuration)

WEB Management	Support
SNMP Management	Support SNMP v1, v2c, v3 Support SNMP TRAP Support lots of standard and private MIBs Support SNMP based on IPv4 and IPv6
User Management	Support multiple user management
TACACS+	support switch authentication via TACACS+ server remote username and password Support password encryption in PAP and CHAP mode Support TACACS+ server to authorize the switch's commands Support TACACS+ based on IPv4 and IPv6
Log Management	Support local log management Support SYSLOG based on IPv4 and IPv6
RMON	Support RMON 1, 2, 3 and 9 groups
Cluster Management	Support NDP Support NTDP Support manual and automatic joining of cluster groups Support cluster unified management
OAM	Support 802.3ah Support 802.1ag
Configuration File	Support TFTP transmission based IPv4 and IPv6 Support SFTP transmission based IPv4 and IPv6 Support SFTP Client and SFTP Server
Upgrade software	Support TFTP transmission based IPv4 and IPv6 Support SFTP transmission based IPv4 and IPv6 Support SFTP Client and SFTP Server
Clock Management	Support local clock management Support SNTP based IPv4 and IPv6
Security	
Switch Management Security	Support enabling and disabling TELNET, SSH, WEB and SNMP services Support TELNET, SSH, WEB and SNMP services to bind to standard IP ACLs Support for limiting the number of TELNET connections
CPU Protection	The switch's own security protection prevents large data streams from attacking the switch itself.
AAA	Support 802.1x Support RADIUS Supports authentication, authorization, and accounting through RADIUS server Support port-based and MAC-based 802.1x

	Support 802.1x guest VLAN
IP MAC Binding	Support static configuration of IP, MAC and port binding
DHCP SNOOPING	Support dynamic ARP binding to prevent ARP spoofing Support dynamic IP, MAC and port binding Support fixed port to connect to DHCP server to prevent private connection to DHCP server
Prevent ARP Spoofing	Support manually configuring MAC ARP-based ACL rules to prevent ARP spoofing. Support the DHCP SNOOPING function. During the process of obtaining an IP address by DHCP, the switch dynamically binds ARP to the port to prevent ARP spoofing.
PoE	
Supported PoE chips	MAX5980,LTC4259,LTC4271,TPS23851,TPS23861,TPS23880, TPS23881,IP808,PD69100/69108,PD69200/69208, etc.
Switch Control	Support PoE powering of ports on and off
Power Control	Support setting total power
Other Advanced Features	Support PoE scheduling policy and PD online query, etc.
IPv6	
IPv4/IPv6 Dual Protocol Stack	Support
IPv6 Address	Support manual address configuration, stateless address auto-configuration and stateful address configuration obtained through DHCPv6 client
IPv6 Neighbor Discovery	Support
ICMPv6	Support
IPv6 Path MTU Discovery	Support
Debugging	
PING	Support
PING6	Support
TRACEROUTE	Support
TELNET Client	Support TELNET client based IPv4 and IPv6
SSH Client	Support SSH client based IPv4 and IPv6
TWAMP	Support TWAMP server and session-reflector