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# **SG2510P**

10-Port Gigabit L2 Managed POE Switch

## Products Description

SG2510P is a smart PoE switch independently designed by TG. Featured with 8 IEEE 802.3at/af-compliant RJ45 ports, it supplies a maximum PoE power output of 120 W. The switch can supply power when transmitting data with APs, IP cameras, and IP phones through CAT5 cables . Featured smart management functions, POE intelligent detection, 802.1Q VLAN, link aggregation, QoS and MAC address binding, it minimizes the difficulty and cost in networking deployment.

## Main Features

* Provide -48V DC power for powered devices (PDs), such as IP Phones, WLAN APs, and Bluetooth APs.
* Compatible with both IEEE802.3at(30W) and IEEE802.3af(15.4W), can supply power to PDs under these two standards.
* Transmitting electronic power together with data through a single network cable, free of power lines.
* Automatically detect and supply power to IEEE802.3at and IEEE 802.3af compliant powered devices(PDs).
* Advanced SAFC function, only supply power to IEEE 802.3af/at compliant PDs, no worry about damaging other private standard PoE devices or devices without PoE function.
* Support port power supply prioritization, guarantee the continuous power supply of key nodes.
* Up to 100m network cable transmitting distance, support flexible network expansion without power line deployment concerns. Users can freely fix their wireless APs, IP cameras or other end devices on the wall or ceiling.
* Built-in PSE power supply module, plug-and play design, easy to install.
* High security performance defending against power surge.
* Support short-circuit protection function, the switch will automatically start short-circuit function and cut off the power supply when there is high-current or other power failures, which can efficiently defend against device damage or network failures caused by line fault or wrong installation.
* Energy-saving green design, support auto-switch to standby mode and auto-detect cable length. It will stay in standby mode and save the power when the port is disconnected , or provide a lower transmission power when the network cable is less than 10m.
* Support CLI Management ,SNMP Management, simple WEB management, easy to configure the functions of switches.
* PoE schedule to save power.
* Intelligent restart, schedule reset per PoE Port to maintain your IP Cameras,APs and other devices.

## Product Specifications

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| **Product Information** |
| Product Model | **SG2510P** |
| **Hardware specifications** |
| Fixed Ports | 8\*10/100/1000 Base-T ports(POE/POE+)2\* 1000 Base-X SFP ports |
| Consloe | 1 |
| Reset | 1 |
| Max Output Power(single port) | 30W |
| Total Power Consumption | 150W |
| PoE Pin-out | 1/2(+),3/6(-) |
| Switching capacity | 20Gbps  |
| Forwarding Rate | 15Mpps |
| Flash/RAM | 16MB/128MB |
| Temperature | Operating temperature: (-10 - 50)°CStorage temperature: (-40 - 70)°C |
| Humidity | Operating humidity: (10% - 90%) RH, non-condensingStorage humidity: (5% - 90%) % RH, non-condensing |
| Dimensions(L\*W\*H) | 280(L)\*180(W)\*44(H)mm |
| Power | AC:100～240VAC,50～60Hz |
| Power consumption | 150W output the whole device |
| Weight | <2.5Kg |
| Lightning protection | 6KV |
| MAC address table | 8K |
| LED Indicator | Power,System ,Link/Act,POE |
| **Software specifications** |
| Forwarding mode | Store-and-forward |
| Protocol and Standards | IEEE 802.3, 10 Base-T Ethernet; |
| IEEE 802.3u,100 BASE-TX; |
| IEEE 802.3ab,1000 BASE-T; |
| IEEE 802.3z,1000 BASE-X; |
| IEEE 802.3az,EEE(Energy Efficient Ethernet); |
| IEEE 802.3af |
| IEEE 802.3at |
| MAC Address Table | Up to 8K MAC addresses |
| Support auto-update, two-way learning |
| Buffer Memory | 4.1Mbit |
| Jumbo Frame | 9K Bytes |
| VLAN | Port-based VLANs |
| 4K-entry Vlan Table |
| VLANs based on IEEE 802.1q |
| Spanning Tree  | Support Spanning Tree Protocol |
| Support Rapid Spanning Tree Protocol |
| Link Aggregation | Support 8 aggregation groups, and a maximum of 8 ports in each aggregation group |
| Static aggregation and LACP |
| Port Mirroring  | Support bi-direction port mirroring |
| RSPAN function for remote mirroring |
| Port Isolation | Isolation between downlink ports without influence the communication between downlink and uplink ports |
| Port Flow Control | Back-pressure traffic control under Half-Duplex mode |
| IEEE 802.3x traffic control under Full-Duplex mode |
| Port Rate Restriction | Port-based ingress or egress rate limiting  |
| DHCP | DHCP Snooping |
| IPv6 | ICMP v6, Telnet v6 |
| Storm Suppression | Support the suppression of broadcast storm based on forwarding rate |
| Multicast Control | Support IGMPv1/2/3 and MLDv1/2 Snooping. |
| Security | Attack Prevention(Land attack\Blat attck\Ping attack\TCP control flag attrck) |
| MAC & Port based Security |
| QOS | 802.1p(Port Queuing Priority) |
| WRR (Weighted Round Robin) |
| Cos/Tos,QOS |
| PoE | PoE ouput priority Management |
| Intelligent restart |
| Timed restart |
| Physic Medium | 10/100Base-TX:UTP category 3/4/5 cables( Maximum 100m) |
| 1000Base-T:UTP Category 5 cable( Maximum 100m) |
| 1000Base-SX:fiber with 850nm wavelength,supports a max transmission distance of 550m |
| 1000Base-LX:fiber with 1310nm / 1550nm wavelength,supports a max transmission distance of 80km |
| Network Cable Deployment | Support Auto-MDIX function, automatically identify straight forward cable and cross-over cable |
| Negotiation Pattern | Support port auto-negotiation function( automatically negotiate transmission rate and Duplex modes) |
| Maintenance | Detect the connectivity of network cables |
| Uploading or downloading of the configuration data |
| Uploading of upgrade patch |
| Support system logs |
| WEB-based reset to factory defaults |
| Management | WEB-based management |
| CLI Management (Command Line Interface) |
| Telnet |
| SNMP |

## Order Information

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| **Product Information** | **Detailed information** |
| SG2510P | 8\*10/100/1000 Base-T ports(POE/POE+), 2\* 1000 Base-X SFP ports, IEEE 802.3af/at,Total Output Power:150W. |
| **Transceivers** |
| SFP-GE-SX-MM850 | 1000BASE-SX SFP Transceiver, Multi-Mode (850nm, 550m, LC) |
| SFP-GE-LX-SM1310 | 1000BASE-LX SFP Transceiver, Single Mode (1310nm, 20km, LC)  |
| SFP-GE-SC-1310 | SFP Gigabit optical module, TX1310/RX1550 (20km, SC)  |
| SFP-GE-SC-1550 | SFP Gigabit optical module, TX1550/RX1310 (20km, SC)  |

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