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# **SGX3752TS**

24GE+24SFP L3 Managed Switch with SFP+

## Products Description

SGX3752TS is the latest development of Gigabit Layer 3 access switch (modular dual power). It’s the second generation intelligent managed switches designed for networks requiring high performance, high port density, high uplink bandwidth and easy to deploy.SGX3752TS switch offers Gigabit connectivity with10/100/1000 autosensing ports and 1G or 10G optical uplink.

## Main Features

* **Various Port Types and Flexible Port Expansion**

Switch comes with fixed 4\*10G ports The series also provides multiple gigabit ports.

* **Excellent Processing capability**

Up to 176Gbps switching capacity and 96Mpps liner filtering and forwarding speed

* **Enhanced Reliability Protection Mechanism**

Support CPU packed classification and rate restriction by CPU protection policies, which can prevent against illegal

Packet attacks to CPU and reduce the resource consumption.

Support Rapid Spanning Tree Protocol (RSTP), provide rapid convergence and improved fault-tolerant capacity. The network sable operation and load balance are well guaranteed, also improved the reasonable use network channels and redundant link;

Carrier-class switching power supply, supporting functions to prevent against lightning, overpressure and surging. The device can work normally in bad natural weather and instable voltage environment, suitable for 110~240V voltage.

* **Comprehensive Security Control Policies**

Support address authentication based on IP +MAC addresses, 802.1x authentication based on user interfaces, and also support IP ACL, MAC ACL, VLAN ACL and L3 / L4 based ACL, can efficiently defend against ARP attacks and viruses. Besides,the switch can provide comprehensive storm control function by suppress broadcast, multicast, DLF flooding and ICMP flooding. The comprehensive secure controls can efficiently guarantee the real-time effectiveness of all security policies.

It supports strict ARP learning, which prevents ARP spoofing attacks that exhaust ARP entries.It also provides an IP source check to prevent DoS attacks caused by MAC address spoofing, IP address spoofing, and MAC/IP spoofing.

It supports DHCP snooping, which discards invalid packets that do not match any binding entries,such as ARP spoofing packets and IP spoofing packets. This prevents hackers from using ARP packets to initiate attacks on campus networks. The interface connected to a DHCP server can be configured as a trusted interface to protect the system against bogus DHCP server attacks.

* **Convenient and Quick Management and Maintenance**

Adopt simple visual Web-based interface (http / https), which helps users to handle various functions easily and conveniently.

Support Simple Network Management Protocol (SNMP) that the devices are convenient to configure and manage. Small and medium-sized enterprise customers can centralized manage the switch easily.

Support CLI command line management and telnet, suitable for professional network administrators.

Support SSH2.0 and other encryption, which makes management much more secured.

Support PDP/LLDP protocol for simpler management.

## Product Specifications

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| **Product Information** |
| Product Model | **SGX3752TS** |
| **Hardware specifications** |
| Fixed Ports | 24\*1000 Base-X SFP ports24\*10/100/1000 Base-T ports4\*1G/10 GE Base-X SFP+ ports |
| Consloe | 1 |
| Reset | 1 |
| Modular power slots | 2 |
| Port Switching capacity | 176Gbps  |
| Box Switching capacity | 598Gbps  |
| Forwarding Rate | 131Mpps |
| Flash/RAM | 64MB/256MB |
| 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) | 440(L)\*285(W)\*44.5(H)mm |
| Power | AC:100～240VAC,50～60Hz72W AC Pluggable Power Module |
| Power consumption | 72W |
| Weight | <6Kg |
| Lightning protection | 6KV |
| MAC address table | 16K |
| LED Indicator | Power,System ,Link/Act |
| **Software specifications** |
| Forwarding mode | Store-and-forward |
| MAC Address | 16K MAC addresses  |
| MAC address learning and aging |
| Traffic Control | Back-pressure traffic control for Half-Duplex mode |
| IEEE 802.3x traffic control for Full-Duplex mode |
| VLAN | 4K VLANs  |
| Port-based VLANs |
| 802.1Q Vlan |
| Spanning Tree | STP(Spanning Tree Protocol) |
| RSTP( Rapid Spanning Tree Protocol) |
| MSTP(Multiple Spanning Tree Protocol) |
| Link Aggregation | Static aggregation and LACP |
| Port Mirroring | Many-to-one port mirroring,4 groups |
| Ring Protection | Supports Industrial-level Ethernet Ring Protection Switching ERPS |
| IP Routing | Static Routing  |
| RIP,OSPF |
| VRRP |
| IPv6 | IPv6 static routing,RIPng,OSPFv3 |
| ICMP v6, Telnet v6 |
| Multicast | IGMP snooping |
| MVR（Multicast VLAN Registration） |
| Storm Suppression | Suppress broadcast, multicast and unicast  |
| DHCP | DHCP Server |
| DHCP Snooping |
| DHCP Relay |
| QoS | SP(Strict Priorty) |
| WFQ (Weighted Fair Queuing) |
| 802.1p  |
| Security | Binding of the IP address, MAC address, port； |
| Port isolation |
| IP ACL, MAC ACL on hardware |
| IP Source Guard |
| ARP Detection |
| 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 V1/V2c |

## Order Information

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| **Product Information** | **Detailed information** |
| SGX3752TS | 24\*1000 Base-X SFP ports, 24\*10/100/1000 Base-T ports, 4\* 1G/10 GE Base-X SFP+ ports, 2 \* Modular power slots |
| **Power supply** |
| PWR-AC-72 | 72W AC Power Module |
| **Transceivers** |
| SFP+-10GE-SX-MM850 | SFP+ Module(850nm,300m,LC)  |
| SFP+-10GE-LX-SM1310 | SFP+ Module(1310nm,10km,LC)  |
| 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)  |
| SFP-GE-T | 1000BASE-T SFP  |

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