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# **SX3715S**

15-Port 10GE L3 Switch

## Products Description

The SX3715S is next-generation L3 10G box switches based on high-performance hardware and TG Operating System Platform (TG-S-OS). It provides a wide variety of services, comprehensive security policies, and various QoS features to help customers build scalable manageable reliable and secure data centers. The SX3715S is ideal acting as the access layer of super-large data center networks, the convergence or core layer of medium and small data center networks, the convergence layer of large campus networks, as well as the core layer of medium and small networks.

## Main Features

* **Large-capacity, high-density, 10 Gbit/s access**

It provides 15 10G Fiber Ports. It also provides power supply and fan redundancy can be used as an access or aggregation switch on campus networks or an access switch in data centers.

To provide sufficient bandwidth for users, many servers, particularly those in data centers, use 10G network adapters. It can be used in data centers to provide high forwarding performance and 10GE ports.

It has the high density of all 10GE ports and the large switching capacity.

It ports support 1GE and 10GE access and can identify optical module types, maximizing the return on investment and allowing users to flexibly deploy services.

It has a large buffering capacity and uses an advanced buffer scheduling mechanism to ensure non-block transmission when data center traffic volume is high.

* **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.

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, and support 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.

## Product Specifications

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| **Product Information** | |
| Product Model | **SX3715S** |
| **Hardware specifications** | |
| Fixed Ports | 15\* 1G/10 GE Base-X SFP+ ports  8\*10/100/1000 Base-T ports |
| Consloe | 1 |
| Reset | 1 |
| Modular power slots | 2 |
| Port Switching capacity | 316Gbps |
| Box Switching capacity | 720Gbps |
| Forwarding Rate | 235Mpps |
| Flash/RAM | 64MB/512MB |
| Temperature | Operating temperature: (-10 - 50)°C  Storage temperature: (-40 - 70)°C |
| Humidity | Operating humidity: (10% - 90%) RH, non-condensing  Storage humidity: (5% - 90%) % RH, non-condensing |
| Dimensions(L\*W\*H) | 440(L)\*285(W)\*44.5(H)mm |
| Power | AC:100～240VAC,50～60Hz  72W AC Pluggable Power Module |
| Power consumption | 72W |
| Weight | <5Kg |
| Lightning protection | 6KV |
| MAC address table | 16K |
| LED Indicator | Power,System ,Link/Act |
| **Software specifications** | |
| Forwarding mode | Store-and-forward |
| Standards | IEEE 802.3i:10BASE-T Ethernet;  IEEE 802.3u:100BASE-X Fast Ethernet;  IEEE 802.3ab:1000BASE-T Gigabit Ethernet;  IEEE 802.3z:1000BASE-X Gigabit Ethernet (Optical fiber)  IEEE 802.3ae: 10 Gigabit Ethernet over fiber |
| MAC Address | 16K MAC addresses |
| MAC address learning and aging |
| Packet Buffer | 2M |
| 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** |
| SX3715S | 15\* 1G/10G Base-X SFP+ ports,8\*10/100/1000 Base-T 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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