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S3700-44P4TP4TF-EI 48 ports　all Gigabit optical switch (extendable 10G)

Product overview

S3700 serious switches are the new L3 items with all optical gigabit extensible 10G ports.S3700 serious are the Ethernet switches with enhance IPV6,with advanced hardware processing capability and rich business features. The completed device is designed by modules,support maximum support 4 10G SFP+ ports,it can be remain support 10GE extend capacity while Gigabit convergence or access,support IPv4/IPv6 hardware dual stack and wire speed forwarder,make sure the customers can offer the high capacity exchange ability in the coming IPv6 era.It can be widely used in many field such as the convergence layer of the network of large government and enterprises and institutions,or the core layer of the small and medium network.

Hardware Features

S3700-44P4TP4TF-EI

44*Gigabit SFP optical ports.

4*Gigabit combo ports.

1-4*10G SFP+ ports (Extend card)

1*Console ports.

Characteristics

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

■ S3700 Series Switches support　2 pieces of 10G expansion cards and each card supports one or two 10G SFP+ ports. The users can flexibly adopt 1~4 10G ports according to networking condition. The series also provides multiple gigabit ports (24 or 48 gigabit Base-T ports and Base-X ports), which could well satisfy the demand of large-scale aggregation network or small-and-medium core networks.

■ **Excellent Processing capability**

S3700 supports strong and stable processing capability based on VCore-III MIPS-based

CPU；

S3700-44P4TP4TF-EI provides high switching capacity up to 350Gbps and 131Mpps full-wired speed filtering and forwarding on ports；

Guarantee non-blocking forwarding of massive data flow for backbone network.

■ **Comprehensive Security Control Policies**

Support IP +MAC addresses authentication based on port user, 802.1x authentication, remote Radius and NAS authentication, also support IP ACL, MAC ACL, VLAN ACL and L3 / L4 based ACL, can efficiently defend against ARP attacks and viruses;

Support comprehensive storm control function to suppress broadcast, multicast and unicast storm.

Support specific ARP intrusion detection function, can effectively prevent prevalent "ARP Attack" from hacker or aggressor by ARP messages.；

Support IP Source Guard characteristics to prevent counterfeit illegal address including MAC cheat, IP cheat, MAC/IP cheat and DoS attack brought by mass flow address counterfeiting.

Provide DHCP Snooping (monitoring) function, realize MAC address, IP address and lease time for monitoring access subscriber by establishing and safeguarding DHCP Snooping binding table to resolve IP and port tracking and positioning of DHCP users.

■ **Enhanced Reliability Protection Mechanism**

S3700 series make flow classification and rate-limiting for the messages to CPU by CPU protection policy to prevent the attack and resource consumption on CPU from illegal attacking messages;

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

Support STP, RSTP, MSTP and various spanning tree protocol, realize rapid convergence and improve fault-tolerant capability, which guarantee stable network operation and balanced link load, use network channel reasonably and improve the utilization of redundant link;

Support industrial-grade Ethernet Ring Protection Switching (ERPS), can provide millisecond-level service rearrangement function to keep the continuity of services. With the simple and reliable protocols, high-performed rearrangement function, easy-to-do

maintenance and flexible topology, the users can easily manage and deploy the network.

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

■ **Convenient Management and Maintenance**

Adopt simple visual WEB interface (Support http/https protocol), which help users to handle various functions easily and conveniently.

Support Simple Network Management Protocol (SNMP) V1/V2/V3 webmaster to configure and manage the device, which make Small and medium-sized enterprises manage the switch easily;

Support CLI command line management (CLI), and managed by Telnet and Console，which is suitable for professional network administrators；

Support SSH2.0 and other encryptions to realize more secured management；

Support PDP and LLDP protocol for simpler management；

Support NTP protocol to synchronize network time automatically；

Support resetting to defaults for short circuit port, which makes maintenance more easily;

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Product Specifications

Items	S3700-44P4TP4TF-EI
Service ports	44* 10/100/1000M SFP optical ports
	4 Gigabit optical/electrical ports
Console port	1*Console ports
Reset Key	1* reset port to defaults
Expansion Slots	2 *10G expansion slot（rear panel）
10G Expansion cards	1-port 10G SFP+ expansion card
	2-port 10G SFP+ expansion card
Switching Capacity	350Gbps
Packet Forwarding Capacity	131Mpps
Operation Temperature	—20~50°C
Storage Temperature	—40~70°C
Operation Humidity	10%～90% no condensation
Storage Humidity	5%～95% no condensation
Dimensions	440（L)×285(W)×44.5(H)mm
Weight	<4Kg
Input Voltage(AC)	AC: 110～240V/50～60Hz
Power Consumption	<70W
Digital Alarm	NO

Service Features

Items	S3700-44P4TP4TF-EI
Protocol and Standard	IEEE 802.3ad,Link aggregation protocol；
	IEEE 802.3,10 BASE-T Ethernet；
	IEEE 802.3u,Fast Ethernet Standard；
	IEEE 802.3ab,Gigabit Ethernet Standard ；
	IEEE 802.3z, Gigabit Ethernet Fiber Optical Standard；
	IEEE 802.3ae,10G Base Ethernet；
	IEEE 802.3x,Full-Duplex Data Link Flow Control；
	IEEE 802.3az,EEE Energy Efficient Ethernet；
MAC Address	Support 32K MAC address table；
	Support auto-updating and double-way learning；
VLAN	Support 4096 VLANs (MAX)；
	Support VLAN based on port；
	Support VLANs based on 802.1Q ；
	Support MAC VLAN；
	Support Protocol VLAN；
Spanning Tree	Support STP (Spanning Tree Protocol)；
	Support RSTP (Rapid Spanning Tree Protocol)；
	Support MSTP (Multiple Spanning Tree Protocol)
Port Aggregation	Support 26 aggregation groups, each supports MAX 8 ports
	Support static aggregation and dynamic aggregation
Port Mirroring	Support many-to-one port mirroring, no limits to the quantity of mirroring source port；
Loop protection	Support loop protection/avoidance
Looped network protocol	Support industrial-level Ethernet ring protection witching(ERPS)
Port flow control	Support Back-pressure control for Half-Duplex mode；
	Support full duplex on PAUSE frame；
Port rate-limiting	Support input/output bandwidth management of port
IP routing	Support static route；
Multicast control	Support IGMP Snooping；
	Support MVR（Multicast VLAN Registration）function；
	Support MLD Snooping（Multicast Listener Discovery Snooping）；
DHCP	Support DHCP Client；
	Support DHCP Server；
	Support DHCP Snooping；
	Support DHCP Relay；
Storm suppression	Support to make suppression on broadcast, multicast and unicast.
Security features	Hardware support IP ACL，MAC ACL，Vlan ACL，Support ACL function on Layer 3-4;
	Hardware support IP+MAC binding on port;
	Support IP Source Guard；
	Support ARP Detection function；

	Support IEEE 802.1x port authentication；
	Support Radius Authentication；
	Support TACACS+ Authentication；
	Support users classification management and password protection；
QOS	SP（Strict Priorty）；
	WFQ (Weighted Fair Queuing)；
	WRR (Weighted Round Robin)；
	Random Early Detect (RED)；
	Weighted Random Early Detection (WRED)；
	Head Of Line，congestion preventing mechanism;
	Best-Effort Service；
	First come first served algorithm；
	Priority algorithm of 802.1p port queue；
	Cos/Tos,QOS mark；
	Differentiated Service, differential service;
Wire line sequence	Support Auto-MDIX function, automatically identify direct-connected wire and crossover wire.
Negotiation mode	Support auto-negotiation function on ports (auto-negotiation transmission rate and duplex-mode)
System maintenance	Support configuration document uploading / downloading；
	Support upgrade-package uploading；
	Support WEB reset to defaults；
	Support system log function；
	Support Ping；
Network management	Support WEB interface management (Support HTTP and HTTPS protocol) ；
	Support CLI interface management；
	Support Telnet remote management；
	Support SSH 2.0；
	Support SNMP network management；
	Support RMON；
	Support LLDP；
	Support UPnP；
	Support NTP user end;