FS

PoE+ Series Switches

COST EFFECITIVE & EFFICIENT POE SOLUTION FOR BUSINESS

Models: S3150-8T2FP; S3260-8T2FP; S3260-16T4FP; S3400-24T4FP

Overview

Full gigabit Ethernet PoE+ switches are the new-generation intelligent access switches designed for enterprise networks, which can be used as Ethernet Power Sourcing Equipment (PSE). They can automatically identify the connected devices whether compatible with IEEE 802.3af or IEEE 802.3at standard and supply power for them.

The gigabit PoE+ switches make it easier to deploy wireless access point (AP) and IP-based terminal network equipment with PoE technology.

Benefits

- Complete PoE Power Supply
- Varied QoS Policies
- Complete Security Mechanisms
- Support L2+ Features
- Powerful ACL Functions
- Support the Telecom-level Ethernet-ring Protection Protocol
- Support Various L2 Multicast Functions

Product Characteristics

Intelligent PoE+

Support IEEE 802.3af/at POE standard, and power mapping scales up to a maximum of 150W/260W/400W of PoE+ power;

Support PoE non-stop power supply. The PoE+ power is maintained during a switch reload;

Support manual and dynamic POE power allocation;

Support up to 2KV thunder-proof of the POE port and power supply.

Enhanced QoS

Support priority retagging and complicated flow classification based on VLAN, MAC, source address, destination address, IP or priority, better streamlining carrier's services;

Provide flexible bandwidth control policies, supporting port-/flow-based flow limit, ensuring the line speed forwarding of each port;

Support multiple queue schedule algorithms such as SP, WRR and "SP + WRR".

Security+

Provide equipment-level security: The advanced hardware infrastructure design realizes the level-based packet schedule and packet protection, prevents DoS-/TCP- related SYN Flood, UDP Flood, Broadcast Storm or large traffic attacks, and supports level-based command line protection, endowing different levels of users with different management permissions;

Support perfect security authentication mechanisms: IEEE 802.1x, Radius and Tacacs+;

Support storm/multicast/unicast limit, ensuring the normal running of equipment in harsh network conditions;

Support perfect ring detection mechanism, ensuring the long-term stable running of network;

Support port isolation within the same VLAN, DHCP-Snooping, and IP + MAC + Port binding.

Easy Management and Maintenance

Support many management modes such as the CLI, Telnet, SSH, SSL and SNMP;

Support the WEB management mode, which is easy and efficient for installing and debugging the device;

Support FTP,TFTP and SFTP;

Support ISSU (In-Service Software Upgrade);

Support SNMP smart network management platform. The combination realizes automatic equipment discovery, network topology management, equipment configuration management , performance data statistics and analysis and trouble management;

Support Zero Touch Provisioning(ZTP) function to minimize manual operator intervention and helps reduce customers' initial deployment costs.

Technical Specification

PoE+ series switches come with the industry-standard hardware and FSOS. Here's a look at the details.

CHARACTERISTICS

	S3150-8T2FP	S3260-8T2FP	S3260-16T4FP	S3400-24T4FP
Ports				
10/100/1000BASE-T RJ-45	8	8	16	24
1G SFP	2	2	2	/
1G RJ45/SFP Combo	/	/	2	4
Operating System				
OS	FSOS	FSOS	FSOS	FSOS
Key Components				
Switch Chip	RTL8380M	RTL8380M	RTL8382M	RTL8382M
CPU	MIPS-4K Ec	MIPS-4K Ec	MIPS-4K Ec	MIPS-4K Ec
Performance				
Switch Class	Layer 2+	Layer 2+	Layer 2+	Layer 2+
Switching Capacity	20 Gbps	20 Gbps	40 Gbps	56 Gbps
Forwarding Rate	15 Mpps	15 Mpps	30 Mpps	42 Mpps
Flash Memory	16MB	8MB	16MB	16MB
RAM	128MB	64MB	128MB	128MB
Jumbo Frame	9KB	9KB	9KB	9KB
MAC Address	8K	8K	8K	8K
Total Number of IPv4 Routes	128	128	125	128
ARP Table	384	384	384	384
Switch Method	Storage and forward	Storage and forward	Storage and forward	Storage and forward
Max. Sound Level	0dB	41.5dB	45dB	45dB
Max./Min. Latency	20.02us/18.15us	20.02us/18.15us	38.6us/35.31us	3.89us/3.28us
Airflow Direction	Fanless	Left-to-Right	Left-to-Right	Left-to-Right
MTBF (Hours)	>50,000	>50,000	>50,000	>50,000

CHARACTERISTICS

	S3150-8T2FP	S3260-8T2FP	S3260-16T4FP	S3400-24T4FP
Power				
Max. Power Consumption	150W	260W	260W	400W
Power Budget	130W	240W	250W	370W
Input Range	100-240VAC, 50/60Hz	100-240VAC, 50/60Hz	100-240VAC, 50/60Hz	100-240VAC, 50/60Hz
Output Voltage	48V DC	48V DC	48V DC	48V DC
PoE Standard	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at
Physical and Environmental				
Fan Number	0	1	2	3
Dimensions (HxWxD)	1.77"x11.02"x7.05'' (45x280x179mm)	1.77"x11.02"x7.05'' (45x280x179mm)	1.73"x17.32"x8.27" (44x440x210mm)	1.77"x17.32"x11.41'' (45x440x290mm)
Rack Space	1U	1U	1U	1U
Unit Weight	3.70 lbs (1.68kg)	3.92 lbs (1.78kg)	7.49 lbs (4.4 kg)	7.71 lbs (3.50kg)
Operating Temperature	32°F to 122°F (0ºC to 50ºC)	32°F to 122°F (0ºC to 50ºC)	32°F to 122°F (0ºC to 50ºC)	32°F to 122°F (0ºC to 50ºC)
Storage Temperature	-4°F to 158°F (-20ºC to 70ºC)	-4°F to 158°F (-20ºC to 70ºC)	-4°F to 158°F (-20ºC to 70ºC)	-4°F to 158°F (-20ºC to 70ºC)
Operating Humidity	10% to 90% (Non-condensing)	10% to 90% (Non-condensing)	10% to 90% (Non-condensing)	10% to 90% (Non-condensing)
Distance	100M	100M	100M	100M
Warranty				
Warranty	4 Years	4 Years	4 Years	4 Years

FEATURES

Functionality	Description
Layer 2 Features	**VLANs** •support 4K Active VLAN •support voice VLAN •IEEE 802.1Q VLAN •GVRP •Private VLAN •QinQ & Selective QinQ •VLAN translation **Spanning Tree Protocol** •IEEE 802.1D Spanning Tree Protocol (STP) •IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) •IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) •BPDU Guard/filtering/transparent •Root Guard •Loopback detection **IGMP Snooping** •IGMP Proxy reporting •IGMP Filtering •IGMP Immediate Leave •IGMP Querier •IGMP mrouter-forward mode **Link aggregation** •static link aggregation •802.3ad with LACP **EAPS and ERPS** **DHCP** •DHCP Client •DHCP Option 82 •DHCP Snooping

FEATURES

| Functionality	Description
Layer 2 Features	**Storm Control** •Broadcast/Multicast/ Unknown Unicast Storm Control **Jumbo frames** •9KB **MVR (Multicast VLAN Registration)** •support 5 multicast VLANs **Port mirroring** •remote port mirror (RSPAN) **Non-Spanning Tree Loopback detection** **Port security** **IP Source Guard** **Dynamic Arp Inspection** **UDLD** **OAM** **CFM and Y1731** **ISSU (In-Service Software Upgrade)**
QoS Features	**Scheduling for Priority Queues** WRR Priority Scheduling •WRR Priority Scheduling •Strict Pritory Scheduling •Hybrid (DRR/WRR+ Strict) **COS** **DiffServ** •8 Priority Queues **IEEE 802.1P** **DSCP** **Tail-Drop** **WRED** **Flow Monitoring and Traffic Shaping**

FEATURES

Functionality	Description
Security	**AAA** • radius client • Tacasc+ client **IEEE 802.1X** • Local/radius Authentication • Port-based Authentication • Mac-based Authentication **Port isolation** **Port security** **"IP+MAC+port" Binding** **MAC Sticky** **HTTPS and SSL** **SSH V1/2** **DHCP Snooping** • option 82 **IP Source Guard** **DoS Protection** **Anti-attack from DDoS** **TCP's SYN Flood** **UDP Flood**
ACL	**L2/L3/L4 ACL flow identification and filtration Ingress** **Egress** **Statistics** **IPv4/IPv6/MAC/ARP ACL**
IPv6	**IPv4/IPv6 Dual Protocol Stack** **IPv6 Address Type** • Unicast • Multicast **ICMPv6** **IPv6 Neighbor Discovery** **IPv6 Neighbor Discovery Snooping** **Manual Configuration** **IPv6 DHCP Snooping** **IPv6 MLD Snooping** **SNMP over IPv6** **HTTP over IPv6**

FEATURES

Functionality	Description
Management	**Switch Management** •CLI via console port or Telnet •Web management •SNMP v1, v2c, v3 **Firmware & Configuration** •firmware upgrade via TFTP/HTTP/FTP server •dual images (SPAN, RSPAN) •multiple configuration files •configuration file upload/download via TFTP/HTTP/FTP server •firmware auto upgrade **RMON** **MIB II** **NTP** **ZTP(Zero Touch Provisioning)** **Support LLDP (802.1ab)** **Ping** **Traceroute**

Accessories
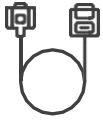
Console Cable *1

Power Cord *1

Bracket Screw *8

Rack Mount Bracket *2

User Manual *1

Rubber Pad *4