

PoE+ Series Switches

COST EFFECITIVE & EFFICIENT POE SOLUTION FOR BUSINESS

Models: S1150-8T2F; S1400-24T4F



Build a Better Network with PoE+ Series

Switches

Full Gigabit Ethernet PoE+ switches is a new-generation intelligent access switch designed for enterprise networks, can be used as Ethernet Power Sourcing Equipment (PSE). It can automatically identify the connected devices whether compatible with IEEE 802.3af or IEEE 802.3at standards and supply power for them.

The Gigabit PoE+ switch makes 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+
- 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 370W 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+

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;
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

	S1150-8T2F	S1400-24T4F
Ports		
Ports	8x 10/100/1000BASE-T RJ45, 2x 1G SFP	24x 10/100/1000BASE-T RJ45, 4x 1G SFP
Max. 1G Ports	10	28
Console Port	1	1
OS	FSOS	FSOS
Switch Chip	RTL8380M	RTL8382M
Layer Type	Layer 2	Layer 2
Switching Capacity	20 Gbps	56 Gbps
Forwarding Rate	15 Mpps	42 Mpps
Jumbo Frame	9KB	9KB
MAC Address	8K	8K
Number of VLANs	4K	4K
MTBF (Hours)	>50000	>50000
Authentication Methods	802.1X, AAA	802.1X, AAA
Remote Management Protocol	SNMP, RMON, HTTP, Telnet, SSH	SNMP, RMON, HTTP, Telnet, SSH
Status Indicators	System, PoE, LINK activity, PWR	System, PoE, LINK activity, PWR
Auto-Negotiation	Yes	Yes
Auto-MDI/MDIX	Yes	Yes
Power		
Input Voltage	100-240VAC, 50-60Hz, 1.5A	100-240VAC, 50-60Hz, 1.5A
Max. Power Consumption	150W	400W
Power Budget	130W	370W

CHARACTERISTICS

	S1150-8T2F	S1400-24T4F
Physical and Environmental		
Dimensions (HxWxD)	1.73"x11.02"x7.08" (44x280x180mm)	1.73"x17.32"x9.05" (44x440x230mm)
Rack Space	1U	1U
Power Device	1x Power Supply - Internal	1x Power Supply - Internal
Fans	1	2
Airflow	Left-to-Right	Left-to-Right
Acoustic Noise	41.5dB	37.5dB
Operating Temperature	32°F to 122°F (0°C to 50°C)	32°F to 122°F (0°C to 50°C)
Storage Temperature		
Operating Humidity	10% to 90% (Non-condensing)	10% to 90% (Non-condensing)
Storage Humidity	10% to 90% (Non-condensing)	10% to 90% (Non-condensing)
Weight	3.70 lbs (1.68kg)	7.72 lbs (3.50kg)
Warranty	4 Years	4 Years

FEATURES

Functionality	Description
Layer 2 Features	VLANs <ul style="list-style-type: none"> • Support 4K Active VLAN • Support Voice VLAN • IEEE 802.1Q VLAN • GVRP • Private VLAN • QinQ & Selective QinQ • VLAN Translation Spanning Tree Protocol <ul style="list-style-type: none"> • 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

FEATURES

Functionality	Description
Layer 2 Features	IGMP Snooping IGMP Proxy Reporting <ul style="list-style-type: none"> • IGMP Filtering • IGMP Immediate Leave • IGMP Querier • IGMP Mrouter-forward Mode Link Aggregation <ul style="list-style-type: none"> • Static Link Aggregation • 802.3ad with LACP EAPS and ERPS DHCP <ul style="list-style-type: none"> • DHCP Client • DHCP Option 82 • DHCP Snooping Storm Control <ul style="list-style-type: none"> • Broadcast/Multicast/Unknown Unicast Storm Control Jumbo Frames <ul style="list-style-type: none"> • 9 KB MVR (Multicast VLAN Registration) <ul style="list-style-type: none"> • Support 5 Multicast VLANs Port Mirroring <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • WRR Priority Scheduling • Strict Priority Scheduling • Hybrid (DRR/WRR+ Strict)

FEATURES

Functionality	Description
QoS Features	COS DiffServ <ul style="list-style-type: none"> • 8 Priority Queues IEEE 802.1P DSCP Tail-Drop WRED Flow Monitoring and Traffic Shaping
Security	AAA <ul style="list-style-type: none"> • Radius Client • Tacacs+ Client IEEE 802.1X <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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

FEATURES

Functionality	Description
IPv6	IPv4/IPv6 Dual Protocol Stack IPv6 Address Type <ul style="list-style-type: none"> • Unicast • Multicast ICMPv6 IPv6 Neighbor Discovery IPv6 Neighbor Discovery Snooping Manual Configuration IPv6 DHCP Snooping IPv6 MLD Snooping SNMP over IPv6 HTTP over IPv6
Management	Switch Management <ul style="list-style-type: none"> • CLI via Console Port or Telnet • Web Management • SNMP v1, v2c, v3 Firmware & Configuration <ul style="list-style-type: none"> • 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

Management Support for S1150-8T2F/S1400-24T4F

Description	Specification
NMS-ACCOUNTING-MIB	NMS-INTERFACES
NMS-ACL-EXT-MIB	NMS-IPAcI
NMS-AUTHENTICATION-TRAP	NMS-IP-ADDRESS-MIB
NMS-BACKUPLINK-MIB	NMS-IPSLA-MIB
NMS-CARD-OPERATION	NMS-L2-PROTOCOL-TUNNEL-MIB
NMS-CARD-SYS-MIB	NMS-LLDP-MIB.MIB
NMS-CFGAPP-MIB	NMS-LOG-SERVER-MIB
NMS-CHASSIS-MIB	NMS-MacAcI
NMS-CONFIG-MGMT	NMS-MAC-MIB
NMS-DHCP-SNOOPING-MIB	NMS-MEMORY-POOL-MIB
NMS-ETHERRING-MIB	NMS-EAPS-MIB
NMS-FAN-TRAP	NMS-OPTICAL-PORT-MIB
NMS-FILE-MGMT-MIB	NMS-POE-MIB
NMS-FLASH	NMS-POWER-EXT-MIB
NMS-GBSC-MIB	NMS-POWER-MIB
NMS-HAL-GLOBAL-MIB	NMS-PROCESS-MIB
NMS-HAL-IF-MIB	NMS-PTN-ALARM.MIB
NMS-IEEE8023-LAG-MIB	NMS-PVLAN-EXT-MIB
NMS-IF-APP-POLICY-MIB	NMS-QOS-EXT-MIB
NMS-IF-MIB	NMS-QOS-MIB
NMS-IF-THRESHOLD-MIB	NMS-QOS-PIB-MIB
NMS-INTERFACE-EXT	NMS-QOS-QUEUE

Management

Management Support for S1150-8T2F/S1400-24T4F

Description	Specification	
	NMS-REMOTE-PING-MIB	NMS-SWITCH-MIB
	NMS-ROUTING-MIB	NMS-SYS
	NMS-R-QOS-MIB	NMS-SYS-TRAP
Management	NMS-SERIAL	NMS-TC
	NMS-SMI.mib	NMS-TFTP
	NMS-SNMP.mib	NMS-TRAP
	NMS-STP.mib	NMS-VLAN-EXT-MIB

Accessories



Console Cable *1



Power Cord *1



Bracket Screw *8



Rack Mount Bracket *2



User Manual *1



Rubber Pad *4



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