



## DATASHEET

### Managed PoE+ Gigabit Ethernet Switches with SFP/SFP+

Models: S1130-8T2F, S1250-8T2F, S1400-24T4F,  
S1600-24T4F, S1600-48T4S

## Overview

FS Multi-Port Gigabit PoE+ Switches provide a cost-effective and reliable way to quickly extend your business network. Delivering robust performance and intelligent switching for growing networks, the FS PoE switch is the perfect choice to optimize your network efficiency.

## Model Comparison Chart

	S1130-8T2F	S1250-8T2F	S1400-24T4F	S1600-24T4F	S1600-48T4S
Switch Chip	VITESSE	VITESSE	VITESSE	VITESSE	VITESSE
Switching Capacity	20 Gbps	20 Gbps	52 Gbps	52 Gbps	180 Gbps
Max. Power Consumption	130W	250W	400W	600W	600W
Gigabit RJ45 Ports	8	8	24	24	48
SFP Ports	2	2	4	4	N/A
SFP+ Ports	N/A	N/A	N/A	N/A	4

# Product Specifications

Table 1- Technical Specifications (S1130-8T2F & S1250-8T2F)

Description	Specification
Port Attributes	<ul style="list-style-type: none"> <li>➤ 1GbE Port: 8x RJ45 auto-sensing (1000Mb/100Mb/10Mb) PoE+ ports;</li> <li>➤ Max.1GbE Density: 10</li> </ul>
Performance	<ul style="list-style-type: none"> <li>➤ Switch Fabric Capacity: 20 Gbps</li> <li>➤ Forwarding Rate: 14.88 Mpps</li> <li>➤ Switch Chip: VITESSE</li> <li>➤ Packet Buffer Memory: 4M</li> <li>➤ Jumbo Frame: 9K</li> <li>➤ MAC Address: 8K</li> <li>➤ VLAN: 4K</li> <li>➤ PoE Standard: IEEE 802.3af/at</li> <li>➤ Power Pin Type: End-span</li> </ul>
Chassis	<ul style="list-style-type: none"> <li>➤ Dimensions (W x H x D):               <ul style="list-style-type: none"> <li>- 278.9 x 43.9 x 210.1mm (11 x 1.7 x 8.3")</li> </ul> </li> <li>➤ Rack Mount: 1RU</li> <li>➤ Unit Weight: 1.59 Kg</li> </ul>
Environmental Operating Conditions	<ul style="list-style-type: none"> <li>➤ Working Temperature: -20 to 55 °C</li> <li>➤ Storage Temperature: -40 to 85 °C</li> <li>➤ Operating Humidity: 5% to 95%</li> <li>➤ Power Supply:               <ul style="list-style-type: none"> <li>- AC: Input 100~240V, 50~60Hz</li> </ul> </li> <li>➤ Power Consumption (Total):               <ul style="list-style-type: none"> <li>- S1130-8T2F: 130W</li> <li>- S1250-8T2F: 250W</li> </ul> </li> <li>➤ Power Consumption (Per PoE Port ):               <ul style="list-style-type: none"> <li>- S1130-8T2F: Max. 15.4W</li> <li>- S1250-8T2F: Max. 30W</li> </ul> </li> </ul>

Table 2- Technical Specifications (S1400-24T4F &amp; S1600-24T4F)

Description	Specification
Port Attributes	<ul style="list-style-type: none"> <li>➤ 1GbE Port:               <ul style="list-style-type: none"> <li>- S1400-24T4F: 24x RJ45 auto-sensing (1000Mb/100Mb/10Mb) PoE ports, 2x combo ports and 2x gigabit SFP</li> </ul> </li> <li>➤ S1600-24T4F:               <ul style="list-style-type: none"> <li>- 24x RJ45 auto-sensing (1000Mb/100Mb/10Mb) PoE+ports, 2x combo ports and 2x gigabit SFP</li> </ul> </li> <li>➤ Max. 1GbE Density: 28</li> </ul>
Performance	<ul style="list-style-type: none"> <li>➤ Switch Fabric Capacity: 52 Gbps</li> <li>➤ Forwarding Rate: 38.69 Mpps</li> <li>➤ Switch Chip: VITESSE</li> <li>➤ Packet Buffer Memory: 4M</li> <li>➤ Jumbo Frame: 9K</li> <li>➤ MAC Address: 8K</li> <li>➤ VLAN: 4K</li> <li>➤ PoE Standard: IEEE 802.3af/at</li> <li>➤ Power Pin Type: End-span</li> </ul>
Chassis	<ul style="list-style-type: none"> <li>➤ Dimensions (W x Hx D):               <ul style="list-style-type: none"> <li>- 439.9 x 44.5 x 290.1mm (17.3 x 1.75 x 11.4")</li> </ul> </li> <li>➤ Rack Mount: 1RU</li> </ul>
Environmental Operating Conditions	<ul style="list-style-type: none"> <li>➤ Working Temperature: -20 to 55 °C</li> <li>➤ Storage Temperature: -40 to 85 °C</li> <li>➤ Operating Humidity: 5% to 95%</li> <li>➤ Power Supply:               <ul style="list-style-type: none"> <li>- AC: Input 100~240V, 50~60Hz</li> </ul> </li> <li>➤ Power Consumption (Total):               <ul style="list-style-type: none"> <li>- S1400-24T4F: 400W</li> <li>- S1600-24T4F: 600W</li> </ul> </li> <li>➤ Power Consumption (Per PoE Port ): Max. 30W</li> </ul>

Table 3- Technical Specifications (S1600-48T4S)

Description	Specification
Port Attributes	<ul style="list-style-type: none"> <li>➤ 1GbE Port: 48x RJ45 auto-sensing (1000Mb/100Mb/10Mb) fixed ports, 4x 10G SFP+</li> <li>➤ 10GbE SFP+ Ports: 4</li> <li>➤ Max. 1GbE Density: 52</li> <li>➤ Max. 10GbE Density: 4</li> </ul>
Performance	<ul style="list-style-type: none"> <li>➤ Switch Fabric Capacity: 180 Gbps</li> <li>➤ Forwarding Rate: 130.94 Mpps</li> <li>➤ Switch Chip: VITESSE</li> <li>➤ Packet Buffer Memory: 32M</li> <li>➤ Jumbo Frame: 9.6K</li> <li>➤ MAC Address: 32K</li> <li>➤ VLAN: 4K</li> <li>➤ PoE Standard: Compliant with IEEE 802.3af/at</li> <li>➤ Power Pin Type: End-span</li> </ul>
Chassis	<ul style="list-style-type: none"> <li>➤ Dimensions (W x H x D): - 439.9 x 44.5 x 290.1mm (17.3 x 1.75 x 11.4")</li> <li>➤ Rack Mount: 1RU</li> <li>➤ Unit Weight: 6.2kg</li> </ul>
Environmental Operating Conditions	<ul style="list-style-type: none"> <li>➤ Working Temperature: -20 to 55 °C</li> <li>➤ Storage Temperature: -40 to 85 °C</li> <li>➤ Operating Humidity: 5% to 95%</li> <li>➤ Power Supply: - AC: Input 100~240V, 50~60Hz</li> <li>➤ Power Consumption (Total): 600W</li> <li>➤ Power Consumption (Per PoE Port ): Max.30W</li> </ul>

## Primary Features and Benefits

Feature	Benefit
PoE Support Features	<ul style="list-style-type: none"> <li>➤ Compliant with IEEE802.3af/at standard</li> <li>➤ Support PoE intelligent management system, timing of PoE power supply, power online configuration, voltage and current online monitoring etc.</li> <li>➤ 25% redundant power peak, can fully allocate IEEE802.3af PD devices, and half allocate the IEEE802.3at PD devices</li> </ul>

Feature	Benefit
PoE Support Features	<ul style="list-style-type: none"><li>➤ IEEE802.3az Energy Efficient Ethernet, can automatically adjust energy consumption according to the ports' actual flow, dynamically sense idle periods between traffic bursts and quickly switch the interfaces into a low power idle mode, save 30% power dissipation</li></ul>
Layer 2+ Switching Features	<ul style="list-style-type: none"><li>➤ Support O-ring, the failover time &lt;50ms</li><li>➤ Support stable and reliable fast Ring Protection Protocol(RSTP), which achieved real ring loop redundancy protection</li><li>➤ Support Port-based VLAN, IEEE 802.1Q VLAN and GVRP, simplify the network planning</li><li>➤ Support QinQ, extends the vlan up to 4094*4094</li><li>➤ Support Link Aggregation Control Protocol (LACP) IEEE 802.3ad</li><li>➤ IGMP v1/v2 snooping, IGMP limits bandwidth-intensive multicast traffic to only the requesters</li></ul>
Network Security	<ul style="list-style-type: none"><li>➤ Support dynamic or static binding by users' definition, such as IP , MAC, VLAN, PORT, etc.</li><li>➤ Support TACACS+, IEEE 802.1x, SNMP v3, HTTPS and SSH, ensures all users are authorized before being granted access to the network</li><li>➤ Support port isolation, to prevent communication between two neighbor network equipment within the same broadcast domain, for reducing network risk</li><li>➤ Support storm control, to prevent traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port</li><li>➤ Threat Defense features including Port Security, Dynamic ARP Inspection, and IP Source Guard</li><li>➤ Access Control Lists (ACLs) restrict access to sensitive network resources by denying packets based on source and destination MAC addresses, IP addresses, and TCP/UDP ports</li><li>➤ Apply security communication technology design, the HD surveillance video has traffic priority</li><li>➤ Adapt to harsh outdoor environments, 5KV ethernet ports surge protection, 6KV power ports surge protection, overcurrent fusing protection</li></ul>

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**Feature****Benefit**

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**Enterprise Level Management Features**

- Support various advanced management, such as WEB, CLI, TELNET, SNMP
- Support SNMP v1/v2c/v3 which aims at different levels of network management
- RMON enhances the network monitoring and forecasting ability to ensure the network stability. Support BWM, convenient for online debugging. Support port mirroring
- Support FS switch intelligent management platform FS-NMS

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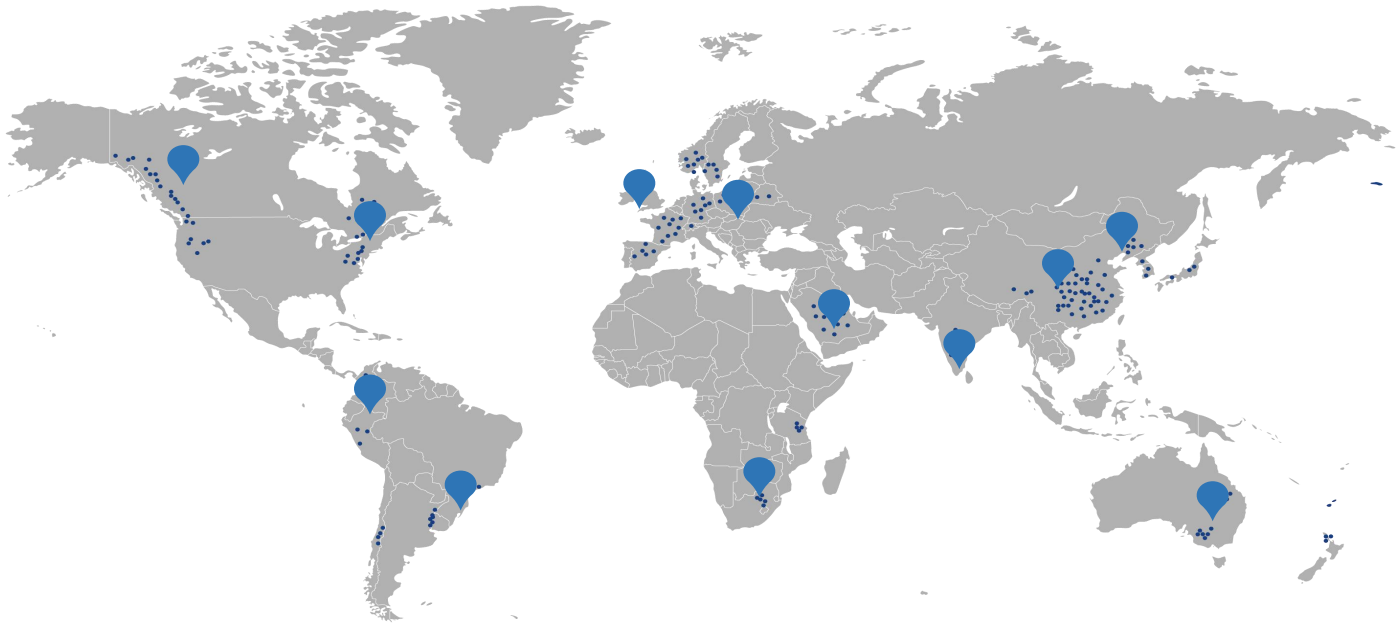
**Enhanced Quality of Service**

- Up to eight egress queues per port and strict priority queuing so that the highest priority packets are serviced ahead of all other traffic
- Strict priority and weighted round-robin (WRR)
- Flow-based rate limiting and up to 256 aggregate or individual policers per port
- 802.1p class of service (CoS) and Differentiated Services Code Point (DSCP) classification

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**Hardware Configuration Features**

- PoE uses top-rated imported Microsemi chip, intelligentized power supply management, constant voltage and current power supply, safe and reliable
  - Communication uses high-end imported VITESSE chip, high reliability, high throughput, low latency, excellent traffic control strategy
  - PCB applies immersion gold technique, lower the fraction defective, provides signal reliability and anti-oxidative capacity, extend the service life of circuit
  - Most advanced lead-free SMT, welding and assembly procedure, safe and environmental, strong heat-resisting ability, improve the seismic capability of devices
  - High quality tantalum capacitor features long service life, heat-resisting, high accuracy, non-flammable, excellent frequency etc.
  - Effective fully loaded switching power supply, Input 100-240VAC, 50-60Hz, overcurrent protection (blown fuses), 6V surge protection, up to 25% power margin
  - Galvanized steel metal housing, IP30 protection grade, stronger corrosion and rust prevention, anti-interference
  - Ethernet ports use 3μm gold plating technique, abrasion resistant, anti-oxidant, easily conductive, reduce Internet lag, improve the user experiences
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