



SWT 1324M

24-Port Managed PoE Fiber Switch

Siera manufactures reliable and affordable solutions in Electronic Security, CCTV, Access Control, Intercommunication and Professional Audio.

The SWT 1324M is a managed PoE fiber switch with a 10G uplink. It has 24 adaptive 10/100/1000M RJ45 ports and 4 uplink 1/10G SFP+ fiber ports. Ports 1 to 24 support the IEEE 802.3af/at PoE standard, and the PoE power of a single port can reach up to 30W.

As a PoE power supply device, it can automatically detect and recognize the powered device that complies with the standard and supply power through the network cable. It can supply power to PoE terminal devices such as wireless access points (APs), IP cameras, VoIP phones, visual access control building intercoms, etc., through a network cable, to meet a network environment requiring high-density PoE power supply. It is suitable for hotels, campuses, factory dormitories, and small and medium-sized enterprises.

It has complete L3 network management functions, supports IPV4/IPV6 management, static routing, a complete security protection mechanism, a complete ACL/QoS policy, and rich VLAN functions, making it easy to manage and maintain. It supports multiple network redundancy protocols such as STP/RSTP/MSTP (<50ms) and ERPS (ITU-T G.8032) (<20ms) to improve link redundancy and network reliability.

When a one-way network fails, communication can be restored quickly to ensure uninterrupted communication in important applications. According to application requirements, multiple services such as PoE power management, port traffic control, VLAN division, and SNMP can be configured through the Web network management mode.

FEATURES

Gigabit Access, 1/10G Uplink SFP+ Fiber Port

- Supports non-blocking wire-speed forwarding.
- Supports IEEE802.3x-based full-duplex and Backpressure-based half-duplex.
- Supports the combination of Gigabit RJ45 ports and 1/10G uplink SFP+ fiber ports, allowing users to build networks flexibly to meet the needs of various scenarios.

Intelligent PoE Power Supply

- PoE network management, supports PoE port power allocation, priority configuration, port power status viewing, schedule configuration, etc.
- Complies with the IEEE 802.3af/at PoE standard, automatically identifies PoE devices for power supply, and does not damage non-PoE devices.
- 24 10/100/1000Base-T RJ45 ports support PoE power supply to meet the needs of security monitoring, teleconferencing systems, wireless coverage, and other scenarios.



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- The PoE ports support a priority mechanism. When the remaining power is insufficient, priority is given to the higher-priority ports to prevent device overload.

Security

- Port isolation and broadcast storm control.
- Flexible IP+MAC+Port+VLAN quadruple binding function.
- 802.1X authentication provides authentication functions for computers on the LAN and controls the authorization status of controlled ports according to the authentication results.

Powerful Processing Capability

- Supports ERPS ring network and STP/RSTP/MSTP to eliminate Layer 2 loops and provide link backup.
- Supports IEEE802.1Q VLAN, allowing users to flexibly configure VLANs, Voice VLAN, and QinQ according to their needs.
- Supports static and dynamic aggregation to effectively increase link bandwidth, achieve load balancing, provide link backup, and improve link reliability.
- Supports QoS, with three priority modes based on ports, 802.1P, and DSCP, and four queue scheduling algorithms: Equ, SP, WRR, and SP+WRR.
- Supports ACL to filter data packets by configuring matching rule processing operations and time permissions, providing flexible security access control policies.
- Supports IGMP V1/V2/V3 multicast protocol, and IGMP Snooping meets the access requirements for high-definition video surveillance and multi-terminal video conferencing.

Stable and Reliable

- CCC, CE, FCC, RoHS.
- The intuitive panel displays the device status through PWR, Link, and PoE LED indicators.
- High-redundancy power supply, providing stable PoE power output over the long term.
- Low power consumption, with fan, galvanized steel metal housing, and excellent heat dissipation to ensure stable switch operation.

Easy O&M Management

- HTTPS, SSLV3, SSHV1/V2, and other encryption methods provide more secure management.
- RMON, system log, and port traffic statistics are useful for network optimization and transformation.
- LLDP facilitates the network management system in querying and evaluating the communication status of links.
- Various management and maintenance methods such as Web management, CLI (Console, Telnet), SNMP (V1/V2/V3), Telnet, etc.

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INTERFACE CHARACTERISTICS

Fixed Port	1 RS232 console port (115200, N, 8, 1) 4 SFP+ 1/10G uplink fiber ports (Data)
Ethernet Port	24 PoE 10/100/1000Base-T ports (Data/Power). Ports 1-24 can support 10/100/1000 BaseT auto-sensing, full/half duplex, and MDI/MDI-X auto-negotiation.
Twisted Pair Transmission	10BASE-T: Cat3, 4 or 5 UTP (≤100 meters) 100BASE-TX: Cat5 or higher UTP (≤100 meters) 1000BASE-T: Cat5e or higher UTP (≤100 meters)
Optical Fiber Port	SFP+ 1/10G fiber port, optical module is not included by default (optional single/multi-fiber optical module, single fiber/dual fiber. LC)
Optical Fiber Cable/ Distance	2.5G optical module expansion with turbo overclocking and ring network
Optical Fiber Port Expansion	Multi-mode: 850nm / 0-500m, 0-300m (10G) Single-mode: 1310nm / 0-40km, 1550nm / 0-120km

CHIP PARAMETERS

Network Management Type	L3
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3ae 10GBase-LR/SR, IEEE 802.3x
Forwarding Mode	Store and forwarding (Full Line Speed)
Switching Capacity	128 Gbps (non-blocking)
Forwarding Rate@64byte	95.23Mpps
CPU	800MHz
DRAM	1Gbit
FLASH	128Mbit
MAC	16K
Memory Buffer	12Mbit
Jumbo Frame	12000byte
LED Indicator	Power: PWR (Yellow) System: SYS (Yellow) Network: Link/Act (Yellow) Fiber port: L/A (Green) POE: PoE (Green)
Reset Switch	Yes, press and hold the button for 10 seconds and release it to restore factory settings.

POE AND POWER SUPPLY

PoE Port	Port 1-24
PoE Management	PoE operation status indicator, PoE On/Off on the port, af/at power distribution
Power Supply Pins	1/2(+) 3/6(-)
Max. Power per Port	30W, IEEE 802.3 af/at
Total Power / Input Voltage	400W/ (AC100-240V)
Power Consumption	Standby: <20W / Full load: <380W
Power Supply	Built-in power adapter, AC100~240V 50-60Hz, 5.0A

PHYSICAL CHARACTERISTICS

Operating Temp / Humidity	-20 ~ +55°C 5% ~ 90% RH non-condensing
Storage Temp / Humidity	-40 ~ +75°C 5% ~ 95% RH non-condensing
Dimensions (L x W x H)	440 x 290 x 44.5mm
Net Weight	4.0kg
Gross Weight	4.8kg
Installation	Desktop / 1U/19" Rack

CERTIFICATION AND WARRANTY

Lightning Protection	4KV 8/20us Protection level: IP30
Certification	CCC, CE, FCC, ROHS
Warranty	3 years*

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NETWORK MANAGEMENT CHARACTERISTICS

Interface	IEEE802.3x flow control (full duplex) - Port exception protection mechanism - Real-time port flow management (Flow Interval) - Broadcast storm suppression based on port rate - DDMI real-time digital diagnostics of the SFP optical module - Configuration and display of EEE Green Ethernet status forenergy saving - Inbound and outbound packet traffic rate limiting, with a minimum granularity of 16 Kbps and maximum of 1 Gbps
L3 Characteristics	IPv4/IPv6 static routing, maximum 128 entries, dual-stack management - L3 network management function, ARP protocol, maximum 1024 entries
VLAN	MAC-based VLAN, protocol-based VLAN - Port configuration in Access, Trunk, Hybrid. GVRP VLAN Protocol - Port-based VLAN (4K), IEEE802.1Q, Voice VLAN, QinQ configuration
Port Aggregation	LACP dynamic aggregation, static aggregation - Maximum of 14 aggregation groups and up to 8 ports per group
Spanning Tree	STP BPDU protection, BPDU filtering and forwarding - STP (IEEE802.1d), RSTP (IEEE802.1W), MSTP (IEEE802.1s)
ERPS Ring Network	Supports ERPS ring network, recovery time less than 20 ms, ITU-T G.8032
Multicast	MLD Snooping, MVR multicast - Fast user logoff, MVR (Multicast VLAN Registration) - IGMP Snooping v1/v2/v3 and up to 1024 multicast groups
Mirroring	Bidirectional traffic mirroring for basic ports - Supports 1-to-multiple mirroring, with up to 4 port sessions
QoS	Queue scheduling algorithm (SP, WRR, SP+WRR) - Flow-based rate limiting, flow-based packet filtering - Flow-based redirection, 8 output queues per port - 802.1p/DSCP priority mapping, Diff-Sery QoS, Priority Marking/Remarking
ACL	ACL distribution based on port and VLAN - L2~L4 packet filtering function, matching the first 80 bytes of the message, and provides ACL definitions based on source MAC address, destination MAC address, source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN, etc.
Security	Port-based IEEE802.1X certification - Broadcast message suppression on the port - SSL ensures data transmission security - Protection against DoS attacks, source IP address Protection - Port isolation, ARP intrusion detection function - Limit on the number of learned MAC addresses - AAA&RADIUS certification, black hole for MAC addresses - Hierarchical user management and password Protection - SSH 2.0 provides a secure encrypted channel for user sesión Login - Host data backup mechanism, ARP message rate limiting function
DHCP Management	DHCP Client / - DHCP Snooping / - DHCP Server NTP Clock, Link Layer Discovery Protocol (LLDP) - NMS platform cluster management (LLDP+SNMP) - System work log, Web network management (https) - SNMP V1/V2/V3, real-time CPU utilization status display - One-click recovery, Ping detection, cable status verification - Configuration via Console/AUX Modem/Telnet/SSH2.0

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	and CLI
	- FTP, TFTP, Xmodem, SFTP file upload and download
	Management
System	Web browser: Mozilla Firefox 2.5 or higher, Google Chrome
	V42 or higher
	- Cat5 or higher Ethernet cable
	- TCP/IP, network adapter, and network operating system
	(such as Microsoft Windows, Linux, Mac OS X) installed on
	each computer in the network
PACKING LIST	24-Port Managed PoE Fiber Switch – 1 unit.
	Power cable – 1 unit.
	Mounting Kits – 1 Set
	User guide – 1 unit.
	Warranty sheet – 1 unit.