

Product Specification

S1000-48TP4S

48-Port Gigabit Ethernet PoE+ Layer 2 Managed Access Switch

Features

- 48 x Gigabit RJ45 PoE+ ports with 4 x 1GbE SFP uplink ports
- IEEE 802.3af/at PoE support with up to 30W per port
- 104Gbps switching capacity and up to 77.38Mpps forwarding rate
- Supports VLAN, QinQ, STP/RSTP/MSTP and LACP
- Advanced QoS and IGMP Snooping for voice, video and surveillance traffic
- Supports ACL, 802.1X, DHCP Snooping, port security and storm control
- Flexible Web, CLI, SNMP and SSH management

Compliance

- IEEE 802.3 / 802.3u / 802.3ab / 802.3z
- IEEE 802.3af / 802.3at PoE / PoE+
- IEEE 802.1Q / 802.1D / 802.1w / 802.1s / 802.1X
- RoHS / CE / FCC Class A

Applications

- IP surveillance and security camera networks
- Enterprise and campus access networks
- Wireless access point deployments
- VoIP phone and IP endpoint connectivity
- Office, retail and commercial networks

Description

The S1000-48TP4S is a Layer 2 managed Gigabit Ethernet PoE+ access switch designed for IP surveillance, enterprise and campus networks. It provides 48 x 10/100/1000BASE-T RJ45 PoE+ ports and 4 x 1GbE SFP uplink ports in a compact 1U chassis.

All 48 RJ45 ports support IEEE 802.3af/at Power over Ethernet, allowing network data and power to be delivered through a single Ethernet cable with up to 30W output per port. This simplifies the deployment of IP cameras, wireless access points, VoIP phones and other PoE-powered devices.

The four 1GbE SFP interfaces provide flexible fiber uplinks to aggregation or upstream switches. Layer 2 functions including VLAN, QinQ, STP/RSTP/MSTP, LACP, IGMP Snooping and QoS provide efficient traffic segmentation, redundancy and service prioritization.

Security and management capabilities including ACL, IEEE 802.1X, DHCP Snooping, port security, SNMP, SSH, CLI and Web management provide reliable access control and simplified network operation..

Product Performance Specifications

1、Hardware Specifications

Parameter	Specification
Product Model	S1000-48TP4S
Product Type	Layer 2 Managed PoE+ Access Switch
PoE Access Ports	48 x 10/100/1000BASE-T RJ45
Uplink Ports	4 x 1GbE SFP
Switching Capacity	104Gbps
Packet Forwarding Rate	Up to 77.38Mpps
MAC Address Table	Up to 16K
Packet Buffer	12Mbit
Jumbo Frame	Up to 9KB
Forwarding Mode	Store-and-Forward
PoE Standards	IEEE 802.3af / IEEE 802.3at
Maximum PoE Output per Port	30W
PoE Power Management	Supported
Console Interface	RJ45 Console
Power Input	100 - 240VAC, 50/60Hz
Cooling	Intelligent Fan Cooling

Form Factor	1U Rackmount

2、Software Features

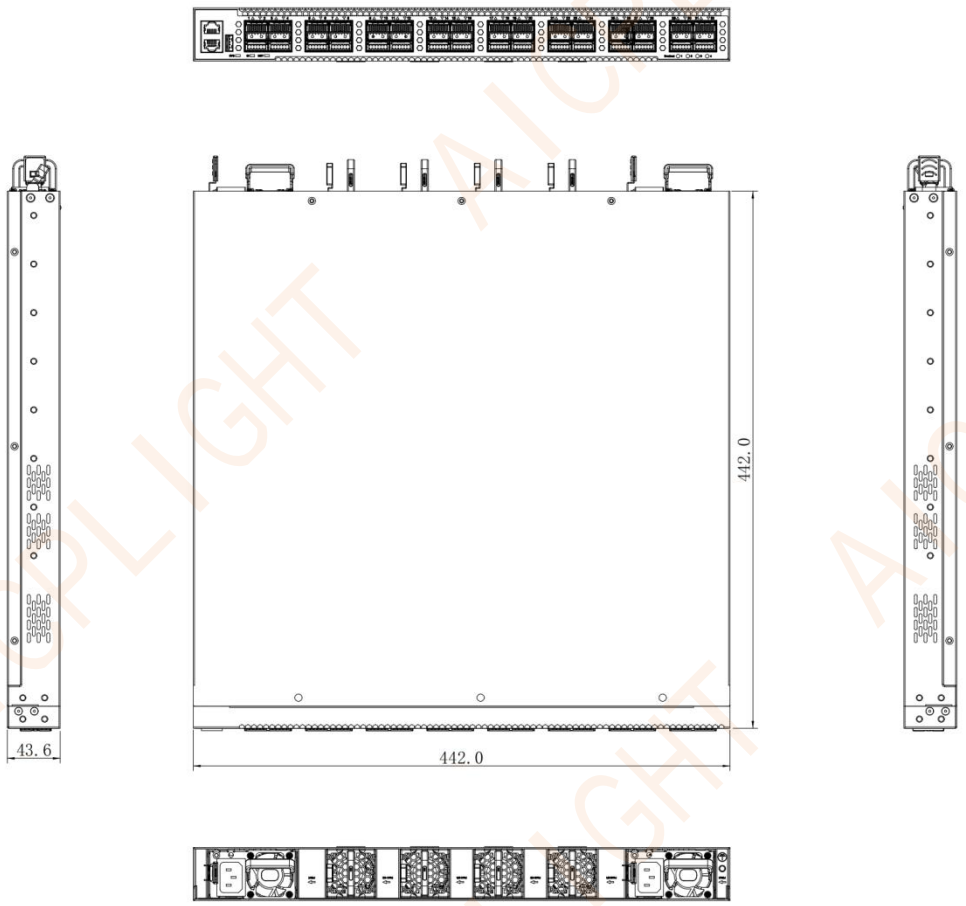
Parameter	Specification
MAC Address	Support static MAC address configuration and dynamic MAC learning Support configurable MAC address aging Support MAC address learning limits Support MAC filtering
VLAN	Support IEEE 802.1Q VLAN Support Access and Trunk modes Support Voice VLAN Support VLAN Mapping Support QinQ
STP	Support IEEE 802.1D STP Support IEEE 802.1w RSTP Support IEEE 802.1s MSTP Support BPDU protection and loop protection
Link Aggregation	Support static link aggregation Support LACP dynamic link aggregation Support load balancing across aggregated links
Multicast	Support IGMPv1 / v2 / v3 Snooping Support IGMP Fast Leave Support multicast filtering Support MLD Snooping
QoS	Support Layer 2 / Layer 3 / Layer 4 traffic classification Support IEEE 802.1p and DSCP priority Support SP / WRR queue scheduling Support bandwidth control and traffic policing
PoE Management	Support IEEE 802.3af / 802.3at powered device detection Support per-port PoE enable / disable Support PoE port priority Support PoE power allocation and monitoring
Security	Support MAC / IPv4 / IPv6 ACL Support IEEE 802.1X authentication Support RADIUS and TACACS+ Support DHCP Snooping Support IP-MAC-Port Binding Support port isolation and port security Support broadcast, multicast and unknown unicast storm control Support DoS protection
Reliability	Support STP / RSTP / MSTP loop protection Support link aggregation redundancy Support loop detection

	Support broadcast and multicast storm suppression
Management and Maintenance	Support Web and CLI management Support Telnet and SSH Support SNMPv1 / v2c / v3 Support RMON and Syslog Support LLDP / LLDP-MED Support port mirroring Support cable diagnostics Support NTP / SNTP Support configuration backup and firmware upgrade
Green Energy Saving	Support IEEE 802.3az Energy Efficient Ethernet Support link-status-based power saving Support intelligent fan control

Recommended Module Types

Type	Description	Typical Use Case
Recommended Modules		
SFP-1G-T	1000BASE-T SFP Copper RJ45 100m Transceiver Module	1GbE copper connectivity on compatible access-side equipment over twisted-pair cabling up to 100m.
SFP-1G-SX	1000BASE-SX SFP 850nm 550m DOM Duplex LC/UPC MMF Optical Transceiver Module	1GbE access-side optical connectivity over MMF up to 550m.
SFP-1G-LX	1000BASE-LX SFP 1310nm 10km DOM Duplex LC/UPC SMF Optical Transceiver Module	1GbE access-side optical connectivity over SMF up to 10km.

Technical Drawing



Handling and Safety Precautions：

- Take appropriate ESD precautions when installing, removing, or handling the switch and pluggable modules.
- Ensure that the input voltage and power source comply with the rated input specifications of the switch.
- Properly ground the switch before powering on the equipment.
- Keep the switch powered off during installation, cabling, or hardware replacement unless hot-swappable operation is specifically supported.
- Ensure adequate airflow around the switch and do not block the air intake or exhaust vents.
- Install the switch securely in a compatible 19-inch rack and ensure that the rack is properly grounded and mechanically stable.
- Do not open, modify, or disassemble the switch chassis or power supply modules.
- Disconnect the power supply before cleaning the equipment. Use a clean, dry, lint-free cloth only. Do not use liquid or aerosol cleaners.
- Keep the equipment away from water, excessive humidity, heat sources, open flames, and conductive contaminants.
- Do not place excessive strain on power cords, network cables, or optical cables, and maintain the recommended cable bend radius.
- Use only compatible optical modules, cables, power supplies, and accessories specified for the switch.
- Keep the switch and its cabling away from high-voltage power lines and strong electromagnetic interference sources.
- Do not look directly into optical transceiver ports or fiber connectors when optical modules are installed and operating.
- Before replacing a hot-swappable power supply or fan module, follow the specified removal and installation procedures to prevent equipment damage or personal injury.

Ordering Information

PN	Description
S1000-32C	32-Port 100GbE QSFP28 Layer 3 Managed Data Center Ethernet Switch, High-Density 1U Rackmount Design
S1000-48B8C	48-Port 25GbE SFP28 Layer 3 Managed Data Center Leaf Switch, 8 × 100GbE QSFP28 Uplink Ports, 1U Rackmount
S1000-48T6S	48-Port Gigabit Ethernet Layer 3 Managed Access Switch, 48 × 10/100/1000BASE-T RJ45 Ports, 6 × Dedicated 10GbE SFP+ Uplink Ports, for Enterprise and Campus Networks
S1000-48X6S	48-Port 1GbE SFP Layer 3 Managed Fiber Aggregation Switch, 6 × Dedicated 10GbE SFP+ Uplink Ports, for Enterprise and Campus Networks
S1000-48TP4S	48-Port Gigabit Ethernet PoE+ Layer 2 Managed Access Switch, 48 × 10/100/1000BASE-T RJ45 PoE+ Ports, Up to 30W per Port, 4 × 1GbE SFP Uplink Ports, for IP Surveillance and Enterprise Networks
S1000-5T	5-Port Gigabit Unmanaged Mini Ethernet Switch, 5 × 10/100/1000BASE-T RJ45 Ports, Fanless Metal Housing, Desktop/Wall-Mount Design
S1000-8T	8-Port Gigabit Unmanaged Mini Ethernet Switch, 8 × 10/100/1000BASE-T RJ45 Ports, Fanless Metal Housing, Desktop/Wall-Mount Design