

S2300 Series L2 Gigabit Industrial Access Switch Datasheet

Overview

S2300 series 8-Port L2 Gigabit industrial switch can be used in different scenarios, such as Railway, Transportation, Factory, and Telecom. It provides the stable, reliable and secure high-performance switching service for industrial environment. S2300 series is designed for harsh industrial environment, external DC wide range power input; IP40 protection grade metal chassis design, port surge protection up to 6KV; the working temperature range of -40~75°C can meet the special needs of industrial automation control.

S2300-10TFI-DC48(E1) provides 8*10/100/1000M electric ports and two 1000M SFP interfaces, DC Power Supply.

S2300-10TPI-DC48(E1) provides 8*10/100/1000M electric ports and two 1000M SFP interfaces, PoE/PoE+ enable, DC Power Supply.

S2300-12TUPI-DC48(E1) provides 8*10/100/1000M electric ports and four 1000M SFP interfaces, PoE/PoE+/PoE++ enable, DC Power Supply.



S2300-10TPI-DC48(E1)

S2300-10TFI-DC48(E1)

S2300-12TUPI-DC48(E1)

Key Features

- IP40 protection, industrial Fanless thermal conduction.
- DIN-rail aluminum alloy shell, which is compact and convenient.
- IEEE802.3af/at/bt standard, maximum 90W POE power of single port (S2300-12TUPI-DC48)
- Intelligent standard 48V POE power supply, self-negotiation power supply according to terminal type.
- Supports STP/RSTP/MSTP ring protection.
- Provides hierarchical bandwidth services through rate limiting and traffic shaping in the layer-2 QoS.
- Supports simple network management protocol (SNMP).

Technical Specifications

Item	S2300-10TFI-DC48	S2300-10TPI-DC48	S2300-12TUPI-DC48
Hardware Version	E1	E1	E1
Interfaces	8*10/100/1000Mbps RJ45 Ports 2*1000Mbps SFP Ports 1 Console Port	8*10/100/1000Mbps RJ45 PoE/PoE+ Ports 2*1000Mbps SFP Ports 1 Console Port	8*10/100/1000Mbps RJ45 PoE/PoE+/PoE++ Ports 4*1000Mbps SFP Ports 1 Console Port
Indicators	PWR, LNK/ACT, SYS	PWR, LNK/ACT, PoE, SYS	PWR, LNK/ACT, PoE, SYS
DC Power Input	DC -12V~-55V	DC -48V~-57V	DC -48V~-57V
Operating Temperature	-40~75°C	-40~75°C	-40~75°C
POE Power Consumption	N/A	120W	180W
PoE Mode	N/A	1/2(-), 3/6(+)	1/2(-), 3/6(+)
PoE Standard	N/A	802.3af/at	802.3af/at/bt
Fanless	Yes	Yes	Yes
Working Temperature	-40°C~75°C	-40°C~75°C	-40°C~75°C
Storage Temperature	-40°C ~80°C	-40°C ~80°C	-40°C ~80°C
Operating Humidity	5% ~ 95% non-condensing	5% ~ 95% non-condensing	5% ~ 95% non-condensing
Storage Humidity	0% ~ 95% non-condensing	0% ~ 95% non-condensing	0% ~ 95% non-condensing
Dimensions(L*W*H)	110*90*46mm	110*90*46mm	145*109*62mm
Surge Protection	Common mode ±4KV	Common mode ±6KV	Common mode ±6KV
Green Energy Saving	Yes	Yes	Yes
Hardware Protection	IP40	IP40	IP40
Switching Capacity	20Gbps	20Gbps	24Gbps
Forwarding Performance	14.88Mpps	14.88Mpps	17.86Mpps
MAC Address Entry	8K	8K	8K
VLAN ID	4K	4K	4K
Jumbo Frame	9216Byte	9216Byte	9216Byte
Buffer Size	4.1MBit	4.1MBit	4.1MBit
MTBF	>100000 hour	>100000 hour	>100000 hour
Port	PoE Management Bandwidth/Flow/MTU Control Storm Control Flow Control Port Isolation Port Security Loop Detection Virtual Cable Testing(VCT) LLDP(802.1ab) LLDP-MED		
MAC Switching	Static configuration and dynamic learning of MAC address Check and clear MAC address Configuring of MAC address aging time		

	Limit on MAC address learning number MAC address filtering function MAC notification
VLAN	802.1Q VLAN MAC/Protocol/Subnet Based VLAN GVRP Private VLAN Voice VLAN Private/Guest VLAN VLAN Translation Basic QinQ/Selective QinQ
Ring protection	802.1D (STP), 802.1W (RSTP), 802.1S (MSTP) BPDU Guard/Root Guard ERPS
Multicast	IGMP Snooping V1/V2/V3 IGMP Fast Leave IGMP Proxy MLD V1/V2 Snooping Multicast VLAN
DHCP	DHCPv4/v6 Client/Server DHCPv4/v6 Snooping DHCPv4/v6 Relay DHCP Option
ACL	IP Based ACL TCP/UDP Port Based ACL MAC Based ACL IP+MAC Based ACL ACL on VLAN Time Based ACL IPv6 ACL
QoS	COS/DSCP SP/WRR/WDRR CAR Stream Shaping Port Rate Limitation COS/802.1P DSCP to DSCP/DP/Queue Mapping COS to DP/Queue Mapping
Security	802.1X based on Port/MAC/VLAN DOS Attack Protection based on TCP-Flag/IP-Segment/ICMP MAC/IP Address Counting Limit ARP Guard/Dynamic Inspection IP Source Guard
Reliability	CPU Protection Static/Dynamic LACP(802.3ad) ULPP for Uplink Protection ULDP(Unidirectional Link Detection Protocol)
Monitoring	SPAN/RSPAN Port/CPU/Flow Based Mirroring Digital Diagnostic Monitoring(DDM)
Management and maintenance	Console, Telnet, SSH 2.0 HTTP/HTTPS WEB management SNMP v1/v2/v3 Syslog, Radius, AAA CFM(802.1ag), EFM(802.3ah) IPv4/IPv6 DNS IPv4/IPv6 NTP/SNTP IPv4/IPv6 Ping/Traceroute/Telnet IPv4/IPv6 TFTP/FTP

Order Information

Product Model	Description
S2300 Series	
S2300-10TFI-DC48	E1 Version: Managed industrial switch with 8*10/100/1000M Base-T ports and 2*1000M SFP ports, DC -12~-55V redundant dual power inputs, -40~+75°C working temperature, IP40 Protection, DIN-rail installation.
S2300-10TPI-DC48	E1 Version: Managed industrial switch with 8*10/100/1000M PoE/PoE+ ports and 2*1000M SFP ports, 802.3af/at standard, 120W PoE budget, DC -48~-57V redundant dual power inputs, -40~+75°C working temperature, IP40 Protection, DIN-rail installation.
S2300-12TUPI-DC48	E1 Version: Managed industrial switch with 8*10/100/1000M PoE/PoE+/PoE++ ports and 4*1000M SFP ports, 802.3af/at/bt standard, 180W PoE budget, DC -48~-57V redundant dual power inputs, -40~+75°C working temperature, IP40 Protection, DIN-rail installation.

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