S2300 Series(E2) L2 Gigabit Industrial Access Switch Datasheet

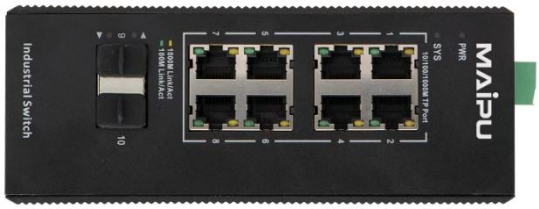
Overview

S2300(E2) series 8-Port L2 Gigabit industrial switch can be used in different scenarios, such as Railway, Telecom, Transportation, Factory, etc. It provides the stable, reliable and secure high-performance switching service for industrial environment.

S2300(E2) series is designed for harsh industrial environment, external dual redundant DC48~55V wide range power input; IP40 protection grade metal chassis design, port surge protection up to 6KV; the working temperature range of -40~85 ℃, can meet the special needs of industrial automation control.

S2300-10TFI-DC48(E2) provides 8*10/100/1000M electric ports and two 1000M SFP interfaces, Auto MDI/MDI-X, Auto Speed Negotiation, Half/Full Duplex, DC Power Supply.

S2300-10TPI-DC48(E2) provides 8*10/100/1000M electric ports and two 1000M SFP interfaces, Auto MDI/MDI-X, Auto Speed Negotiation, Half/Full Duplex, PoE/PoE+ enable, DC Power Supply.



S2300-10TPI-DC48(E2) / S2300-10TFI-DC48(E2)

Key Features

- Lightning protection level: 4KV
- IP40 protection, industrial fan-less thermal conduction.
- DIN-rail aluminum alloy shell, which is compact and convenient.
- Conforms to IEEE802.3af/at standard, maximum 30W POE power of single port.
- 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).
- Supports energy efficient ethernet (IEEE 802.3az)

Technical Specifications

Item	S2300-10TFI-DC48	S2300-10TPI-DC48
Hardware Version	**E2**	**E2**
Interfaces	8*10/100/1000Mbps RJ45 Ports 2*1000Mbps SFP Ports	8*10/100/1000Mbps RJ45 PoE Ports 2*1000Mbps SFP Ports
DC Power Input	DC -12V~-55V	DC -48V~-57V
POE Power Consumption	N/A	240W
PoE Standard	N/A	802.3af/at
Fanless	Yes	Yes
Working Temperature	-40°C~85°C	-40°C~75°C
Storage Temperature	-40°C ~80°C	-40°C ~80°C
Operating Humidity	5% ~ 95% non-condensing	5% ~ 95% non-condensing
Storage Humidity	0% ~ 95% non-condensing	0% ~ 95% non-condensing
Dimension(L*W*H)	165*130*65mm	165*130*65mm
Surge Protection	Common mode ±4KV	Common mode ±4KV
Hardware Protection	IP40	IP40
Switching capacity	20Gbps	
Forwarding rate	14.88Mpps	
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	
VLAN	4K VLAN entries GVRP QinQ Private VLAN Voice VLAN MACFF	
Ring protection	802.1D (STP), 802.1W (RSTP), 802.1S (MSTP) BPDU protection, root protection and ring protection EAPS	
Multicast	IGMP v1/v2/v3 IGMP Snooping IGMP Fast Leave Multicast group policy and multicast number limit MLD-Snooping	
DHCP	DHCP Client DHCP Snooping	
ACL	L2/L3/L4 ACL IPv4 ACL VLAN ACL	
QoS	Traffic classification of each field of L2/L3/L4 protocol headers CAR traffic control 802.1P/DSCP priority remark Multiple queuing algorithms such as SP, WRR or SP+WRR	

	Tail-Drop, WRED Traffic supervision and traffic shaping
Security features	Identification and filtering of L2/L3/L4-based ACL Defend against DOS or TCP attacks Suppression of broadcast, multicast and unknown uni-cast packet Port isolation Port security, IP+MAC+port binding DHCP snooping, DHCP option82 IEEE 802.1x authentication Radius authentication Command line hierarchical protection
Reliability	Static/Dynamic LACP
Management and maintenance	Console, Telnet, SSH 2.0 Browser-based WEB management SNMP v1/v2/v3 Upload and download files through TFTP/FTP SPAN, RSPAN CFM,Y.1731 NTP
IEEE Standard	IEEE 802.3 (10BASE-T) IEEE 802.3u (100BASE-T) IEEE 802.3z (1000BASE-X) IEEE 802.3ab (1000BASE-T) IEEE 802.1x (Port-Based Network Access Control) IEEE 802.3ad (Link Aggregation) IEEE 802.3x (Flow Control) IEEE 802.1d (Spanning Tree Protocol) IEEE 802.1Q (Virtual LAN) IEEE 802.1w (Rapid Spanning Tree Protocol) IEEE 802.1s (Multiple Spanning Tree Protocol)

Order Information

Product Model	Description
S2300(E2) Series	
S2300-10TFI-DC48	E1 Version: Managed industrial switch with 2 Gigabit SFP ports and 8 Gigabit TX ports; industrial DC 12~55V power input, operating temperature: -40~85°C; lightning protection level of 4KV; IP40; DIN-rail installation.
S2300-10TPI-DC48	E1 Version: Managed industrial switch with 2 Gigabit SFP ports and 8 Gigabit TX POE ports;240W POE, industrial DC 48~55V power input, operating temperature: -40~75°C; lightning protection level of 4KV; IP40; DIN-rail installation.

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