USR-ISG208S-SFP

8-port 10/100/1000BASE-TX+2G SFP Managed Industrial Switch

Introduction

USR-ISG208S-SFP an hardened 10-port Industrial Ethernet Switch, provides non-blocking wire-speed performance in harsh industrial environment. It also provides 8-port 10/100/1000BASE-TX RJ45 +2G SFP delivered in an IP40 rugged, strong case with redundant power system. Its slim case is suitable for such applications as surveillance system deployments, control management and wireless service in climatically demanding environments with wide temperature range from -40℃ to 80℃.

The **USR-ISG208S-SFP** provides the flexibility to all kinds of 10/1000Mbps Ethernet Media on RJ-45 port and performs highly stable fiber performance.

The **USR-ISG208S-SFP** is packaged in a compact IP40 case with DIN-rai installation.It offers dual-redundant, reversible polarity 12V DC to 52V DC power supply inputs for high availability applications requiring dual or backup power inputs.

Interface

- 8-port 10/100/1000Base-Tx RJ-45 with auto

  negotiation and auto-MDI/ MDI-X function

- 2-port gigabit SFP

Industrial conformance

- 12V to 52V DC, redundant power input

- -40℃ to 80℃ operating temperature

- IP40 aluminum housing

- Supports 12KV DC Ethernet ESD protection

- Supports 2KV DC EFT protection for power line

- Free Fall, Shock and Vibration Stability

Specifications:

Model No.	**USR-ISG208S-SFP**
1000Base-TX Port	8 port RJ-45 auto-MDI / MDI-X
1000Base-FX Port	2G SFP Slot
Performance Specification	Bandwidth: 20Gbps Packet Buffer Memory: 4.1Mbit Packet Forwarding Rate: 14.9Mpps MAC Address Table: 8K
Installation	DIN rail
Maximum Frame Size	10240bytes packet size
Flow Control	Back pressure for half duplex, IEEE 802.3x pause frame for full duplex
Enclosure	IP40 aluminum housing
LED Indicator	Power: P1、P2，Green RUN:Green Link/ACT:1-10 Green
Power Input	12 to 52V DC redundant power
Power Consumption	< 10W
Network Protocols	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u;100Base-TX/FX; IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X;

	IEEE802.3x;
Network cables	10BASE-T: Cat3,4,5 UTP(≤100 meter)
	100BASE-TX: Cat5 or later UTP(≤100 meter)
	1000BASE-TX: Cat6 or later UTP(≤100 meter)
Industry Standard	FCC CFR47 Part 15,EN55032　Class A
	IEC61000-4-2 (ESD): ±8kV (contact), ±12kV (air)
	IEC61000-4-3 (RS): 10V/m (80~1000MHz)
	IEC61000-4-4 (EFT): Power Port: ±2kV; Data Port: ±1kV
	IEC61000-4-5 (Surge): Power Port: ±1kV/DM, ±2kV/CM; Data Port: ±4kV
	IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)
	IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)
MTBF	300,000hours
Dimensions (W x D x H)	143.7*125*47.7mm
Weight	Product Weight: 0.7KG
	Packing Weight: 0.8KG
Working Environment	Working temperature: -40～80℃ ;
	Storage temperature: -40～85℃
	Relative Humidity: 5%~95 %(no condensation)

Software:

Port Features	IEEE 802.3x Flow control
	Interface counters
	Storm Control
Link Aggregation	Static Aggregation
	Dynamic Aggregation, LACP
	Supports up to 8 aggregation groups, each group up to 8 ports
	Support source MAC, destination MAC, source destination MAC, source IP, destination IP, source destination IP routing strategy
MAC Table Management	Support
Forwarding mode	Support IVL forwarding mode
Static MAC Address	Support
MAC Address Binding	Support
MAC Address Filtering	Support
Mirror	Port-based Mirror
Spanning Tree	IEEE802.1d STP
	IEEE802.1w RSTP
	IEEE802.1s MSTP
ERPS (G.8032)	Single Ring, Sub-Ring, Multi-Ring
	Load balance
	Recovery Time < 50ms
GVRP	Supported
QINQ	VLAN-based QinQ

LLDP	LLDP	
	LLDP-MED	
Loop Protection	Supported	
VLAN	4094 VLAN	
	Port-based VLAN	
	GVRP	
Protocol VLAN	MAC-based VLAN	
	IP Subnet-based VLAN	
Voice VLAN	Static entry	
	LLDP-MED	
Port Isolate	Support	
IGMP	Snooping IGMP V1 Snooping	
	IGMP V2 Snooping	
	IGMP V3 Snooping	
	Source Port Check	
	IGMP Fast Leave	
	IGMP Filter	
MLD Snooping	MLD V1 Snooping	
	MLD V2 Snooping	
	Source Port Check	
	MLD Fast Leave	
	MLD Filter	

Security

	ACL (IP Standard ACL), IPv4/IPv6
	MAC extend ACL
ACL	IP extend ACL
	L2, L3, L4 fields match
	log, redirection, mirroring, speed limit
	QoS Class, Remarking
	SP, WRR queue scheduling
	Ingress port-based rate-limit
	Ingress priority-based rate-limit
QoS	Egress port-based rate-limit
	Egress queue-based rate-limit
	Policy-based QoS
	Storm Control
	8 queues per port
	Port Access Control
Dot1x	User Access Control
	MAC-address Access Control
	Support 802.1x
	Support RADIUS
AAA	Supports authentication, authorization, and accounting through RADIUS server

Management

User management	Password protection

SNMP	SNMP V1/V2c/V3
RMON	Statistics Group
	History Group
	Alarm Group
	Events Group
Web management	HTTP V1.1, HTTPS
Firmware Upgrade	Reversion Upgrade
IPv4/IPv6	Support
CLI	Support
Syslog/Debug	Support
Diagnosis	Ping (IPv4), ping (IPv6)
	Trace route(IPv4)
	Trace route(IPv6)

Management

NTP	NTP Client
DHCP	DHCPv4 Client, DHCPv6 Client
DHCP Snooping	DHCP snooping table
	Trust Port
IPv6 DHCP-Guard	Support
Telnet	Telnet Server
TFTP	TFTP Client
SSH	SSH Server

Ordering Information

USR-ISG208S-SFP	8-port 10/100/100BASE-TX+2G SFP Managed Industrial Switch

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