

RS6312-4GF8GT

Guide rail managed industrial Ethernet switch, with 4 Gigabit fiber ports and 8 Gigabit copper ports



- 4 Gigabit fiber ports and 8 Gigabit copper ports are provided
- Fan-free design, operating temperature: -40 ~ 85°C
- IP40-rated protection, shock-resistant aluminum enclosure
- Support for dual power supply redundant backup input, with a wide range of 9-48 VDC
- EMC industrial rating level 4 electromagnetic compatibility standard
- WEB interface, dial switch rapid configuration
- Support for one-button recovery of factory settings
- Support for STP/RSTP ring protection, and SNMP V1/V2c network management platform



Product profile

RS6312-4GF8GT is a guide rail managed industrial Ethernet switch that provides 4 Gigabit fiber ports and 8 Gigabit copper ports via a fan-free and low-power design with industrial rating level 4 and IP40-rated protection. Each product, featuring an operating temperature of -40 - 85°C, superior solidness, design for network communications in harsh applications, high EMI/EMS protection, has been 100% qualified in aging tests.

For example, STP/RSTP, 802.1Q VLAN, QoS function, IGMP static multicast function, port aggregation, port mirroring, loop detection, etc.; support for port configuration, jumbo frame mode, port statistics, speed dial configuration, online upgrade, etc.; support for WEB, SNMP and other access methods. The friendly, simple and convenient interface design of network management system offers a good user experience.

Product features

- Support the 802.1Q VLAN of 4K range;
- IGMP Snooping for filtering multicast traffic;
- Support the web page management configuration; and hardware one-button recovery of factory settings
- Dual power inputs with a wide range of 9-48 VDC;
- Forced Hundred Megabit and Gigabit rate of fiber port facilitates connection with fiber equipment
- Dial switches enable ringing and port isolation
- QoS (IEEE 802.1p and DSCP) improves data transfer certainty;
- Port mirroring feature assists in online troubleshooting and allows for data analysis and monitoring
- Port aggregation increases bandwidth and enhances the reliability of network connection
- Spanning Tree Protocol STP/RSTP ring redundancy
- Port loop detection reduces the impact of access loop on the entire network

Product properties

Applicable standards

IEEE 802.3 10BaseT
 IEEE 802.3u 100BaseT
 IEEE 802.3z 1000BaseFX and 1000BaseT
 IEEE 802.3x flow control
 IEEE 802.1d-2004 STP protocol
 IEEE 802.1w RSTP protocol
 IEEE 802.1p Qos
 IEEE 802.1q VLAN
 IGMP Snooping, SNMPv1/v2c
 HTTP, DHCP Client

Switching feature

Qos queue: 8 VLAN-ID: 1-4094
 Back plane bandwidth: 24Gbps List of MAC addresses: 8K
 Message buffer size: 4.1Mbit

Port

Fiber port: 1000 Mbps
Copper port: 10/100/1000 Mbps self-adaptive, Full/Half duplex mode, MDI/MDI-X supported.
LED indicator: P1, P2, RUN, L/A

Power source requirement

Input voltage: DC 9~48 V (redundancy)
Full-load power consumption: 11W
Input current: Maximum DC current, 1A

Physical properties

Enclosure: Aluminum enclosure, IP40-rated protection
Size: 142 × 116 × 51 mm
Weight: 850 g
Mounting method: Guide rail type

Environmental restrictions

Working temperature: -40 ~ 85°C (-40 ~ 185°F)
Storage temperature: -40 ~ 85°C (-40 ~ 185°F)
Relative ambient humidity: 5 ~ 95% (non-condensing)

Standards and certification

EMS:
 IEC61000-4-2(ESD) level 4, IEC 61000-4-4 (EFT) level 4, IEC 61000-4-5(Surge) level 4

Anti-vibration performance: IEC 60068-2-6

Shock resistance: IEC 60068-2-27

Free fall: IEC 60068-2-32

Note: Please go to the official website of Wintop Optical for the latest certification status.

MTBF (mean time between failures)

Time: 500000 h

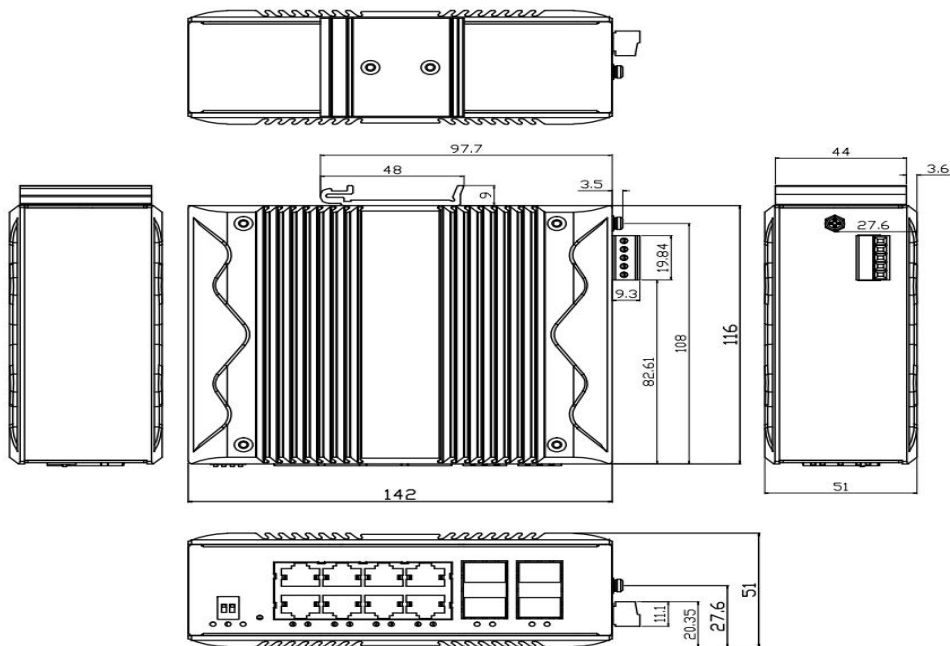
Warranty

Quality assurance: 5 years

Fiber properties

	1000BaseFX	
	Multimode	Single mode
Wavelength	850 nm	1310/1550 nm
Maximum transmission power	-3 dBm	0 dBm
Minimum transmission power	-8 dBm	-10 dBm
Receiving sensitivity	-19 dBm	-22 dBm
Link budget	11 dB	12 dB
Typical distance	550 m	20 km
Saturation	-3 dBm	-3 dBm

Product size (mm)



Order information

Optical model	Port type			
	10/100Base T	10/100/1000BaseT	1000BaseFX	
			Single mode	Multimode
RS6312-4GF8GT	-	8	4	

Packing list

- Ethernet switch
- Installation accessories
- User's Manual
- Warranty Card & Conformity Certificate