

RS2312-4GF8GT

12-port industrial Ethernet switch, with 4 Gigabit fiber ports and 8 Gigabit copper ports



- 4 Gigabit trunk fiber ports and 8 Gigabit access copper ports are provided
- The copper ports support 10/100/1000 Mbps self-adaptation; all ports support MDI/MDIX
- Dial switch with one button for VLAN separation
- Applicable voltage range DC 9~48 V, dual redundant power supply
- EMC industrial rating level 4 electromagnetic compatibility standard
- Having IP40-rated aluminum enclosure and strong shock-resistant rail base
- Applicable for operation at the ambient temperature of -40°C~85°C



Product profile

RS2312-4GF8GT is an industrial switch with extended temperature ranges developed by Wintop Optical to fulfill needs in industries including smart traffic, expressways, smart cities, safe cities, new energy, smart manufacturing, and so on. The four Gigabit trunk fiber ports and eight Gigabit access copper ports provide a high packet forwarding rate and an ample back plane bandwidth, making the transmission of images clear and smooth.

Having an IP40 rated aluminum enclosure, a rail base designed to withstand severe vibration, and good EMC electromagnetic compatibility, this series of product is capable of working stably and reliably in extreme-temperature (-40°C to 85°C) and rugged industrial environments.

Product features

- 4 Gigabit fiber ports, 8 Gigabit copper ports;
- Capable of working with full load under the temperature of -40°C~85°C;
- The voltage ranges between DC 9~48 V, and dual redundant power supply is provided;
- IP40-rated protection, fan-free design, shock-resistant aluminum enclosure;
- Dial switch with one button for VLAN separation;

Product properties

Applicable standards

IEEE 802.3 10BaseT
IEEE 802.3u 100BaseT
IEEE 802.3z 1000BaseFX, IEEE 802.3ab 1000BaseT

Switching feature

Backplane bandwidth: 24 Gbps
List of MAC addresses: 8K
Message buffer size: 4.1Mbit

Port

Gigabit fiber port: 1000 Mbps (port type: LC)
Gigabit copper port: 10/100Mbps self-adaptive, Full/Half duplex mode, MDI/MDI-X supported
LED indicator: PWR1, PWR2, L/A

Power source requirement

Input voltage: DC 9~48 V (redundancy)
Full-load power consumption: 10W
Input current: Up to 400 mA

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

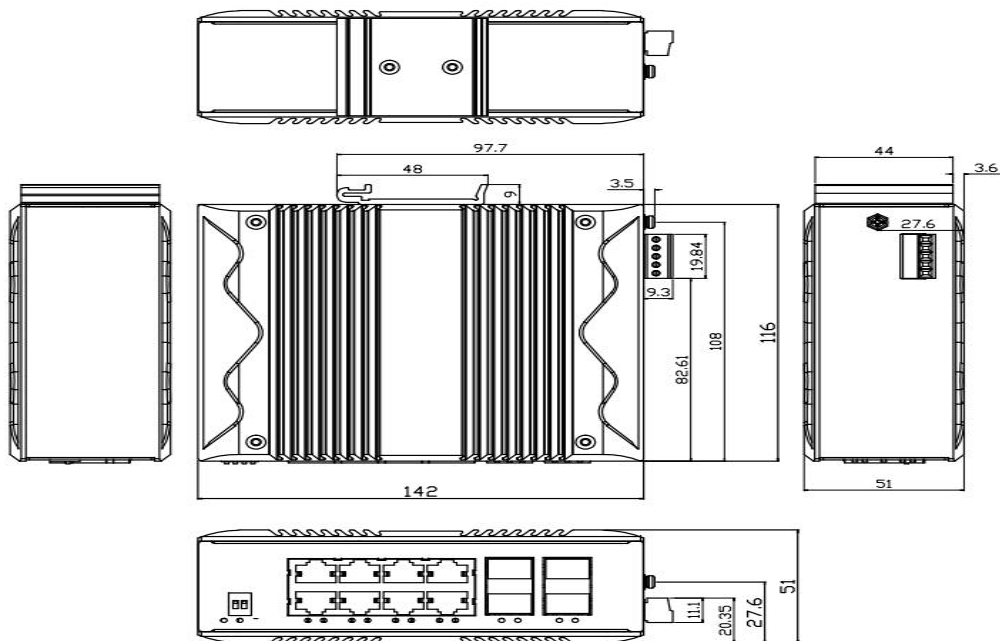
Quality assurance: 5 years

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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			
	10/100BaseT	10/100/1000BaseT	1000BaseFX	
			Single mode	Multimode
RS2312-4GF8GT	-	8	4	

Packing list

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