



Business Switch

USR-SF1005, USR-SF1008,
USR-SG1005, USR-SG1008

User Manual



V2.0

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1. Introduction

The USR-S series switches are unmanaged Ethernet switches launched by USR IoT. The ESF series provides a 100Mbps rate while the SG series provides a 1000Mbps rate, with options for either 5 or 8 ports. The adaptive port technology uses storage and forwarding technology, combined with dynamic memory allocation, to ensure efficient distribution to each port. Flow control ensures that data packets are not lost during transmission and reception. The switches are compatible with three types of network environments: 10Base-T, 100Base-TX, and 1000Base-T, and the port speed is automatically matched at 10/100/1000Mbps. The switch is designed with metal shell, this can shield electromagnetic interference and dissipates heat better than plastic cases. With a high level of integration and a compact and lightweight design, these switches are easy to operate and suitable for small and medium-sized offices and home networks.

2. Features

USR-SF Series:

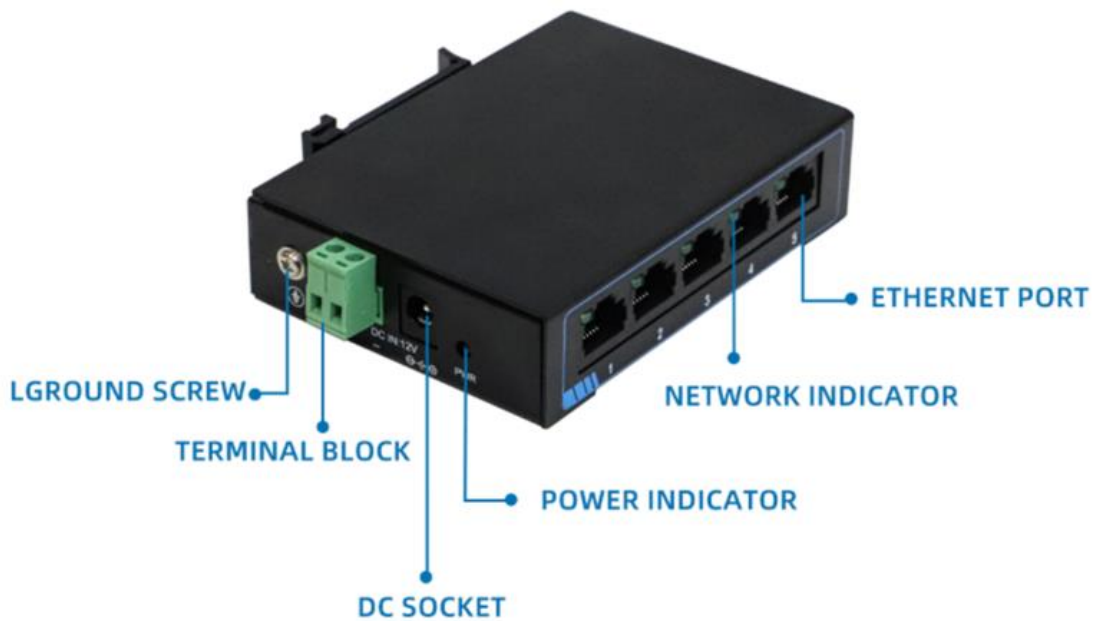
- Standards: IEEE802.3、IEEE802.3u、IEEE802.3x
- 5/8 10/100 Mbps RJ45 Ports, support Auto-Negotiation and Auto MDI/MDIX
- All ports have Link/Act indicators to display the working status
- Provides remote serial access over the Internet for embedded UART to ethernet module
- Plug and play, no configuration and installation required
- Low power consumption, fanless, and noiseless design
- Adopted Store-And-Forward transmission method
- External power supply, compact size, and suitable for desktop and rail installation

USR-SG Series:

- Standard: IEEE 802.3、IEEE 802.3u、IEEE802.3x、IEEE802.3az、IEEE802.3ab
- Support Full duplex compliant with IEEE 802.3x standard, and half duplex Compliant with Back-pressure standard
- 5/8 10/100/1000 Mbps RJ45 Ports, support Auto-Negotiation and Auto MDI/MDIX
- Support BPDU Frame, EAPOL and QOS WRR queue algorithm
- All ports have Link/Act indicators to display the working status
- Support MAC address learning
- UTP ports support auto-negotiation capability allowing for automatic adjustment of transmission mode and speed
- Green energy saving compliant with IEEE802.3az standard

3. Interface

Both USR-SF and USR-SG support powered with DC Socket and terminal block.



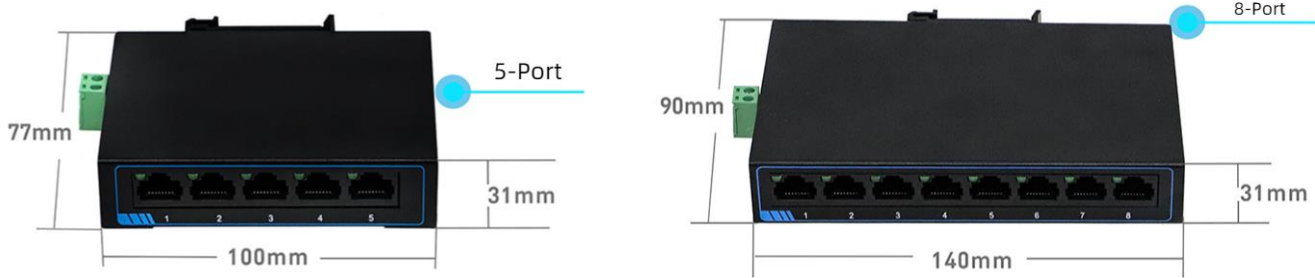
4. Indicators description

Indicator	Status	Description
Power	ON	Power on.
	OFF	Power off.
Link/Act	Blinking	Transmitting/receiving data.
	ON	Running at 100Mbps(for USR-ESF005 & USR-ESF008). Running at 1000Mbps(for USR-ESG005 & USR-ESG008).
	OFF	1. No device is linked to the corresponding port. 2. The corresponding port is running at 10Mbps(for USR-ESF005 & USR-ESF008). 3. The corresponding port is running at 10/100Mbps(for USR-ESG005 & USR-ESG008).

5. Parameters Specifications

Parameters Specifications				
Model	USR-SF1005	USR-SF1008	USR-SG1005	USR-SG1008
Data Transfer Rate	10/100M Auto Negotiation and Auto MDI/MDIX RJ45		10/100/1000M Auto Negotiation and Auto MDI/MDIX RJ45	
Number of Ports	5	8	5	8
Switching Modes	Store and Forward			
Switching Capacity	1.0G	1.6G	10G	16G
Packet Forwarding Rate	10Mbps:14880pps 100Mbps:148800pps		10Mbps:14880pps 100Mbps:148800pps 1000Mbps:1488000pps	
MAC Address Table	2K			
Network Media (Cable)	10Base-T: UTP Category 3, 5 cable 100Base-TX: UTP Category 5 cable			
Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE802.3az		IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE802.3az, IEEE802.3ab	
LED	Port: Link/Act Indicator 100M Link/ACT: Green POWER: Red		Port: Link/Act Indicator 1000M Link/ACT: Green POWER: Red	
Mounting	35mm DIN Rail Mounting Flat mounting			
Dimensions	100*77*31 mm	140*90*31 mm	100*77*31 mm	140*90*31 mm
Certifications	CE ROHS FCC WEEE			
Operating environment	Operating temperature: -5°C~45°C Storage temperature: -10°C~70°C Operating humidity: 10%~90% RH non-condensing Storage humidity: 5%~90% RH non-condensing			
Power & Consumption	Input: DC 12V / 0.5A, Consumption:<3W		Input: DC 12V / 0.5A, Consumption:<4W	
Accessories	Power adapter (Optional), Terminal Block, Quick Start Guide			

6. Dimensions



7. Installation

1. Desktop mounting

Please place the switch on a flat surface with the ventilation holes facing upwards. Do not expose it to environments such as water, condensation, dust, etc., in order to avoid product damage.

2. DIN rail mounting

Please pull down the red latch on the back of the switch and align it parallel to the standard DIN 35mm rail. Push up the red latch until you hear a 'click' sound and check if it is installed securely.

8. Warranty

9. Contact Us

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