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Communication Expert
of Industrial IOT

Lipstick Serial Device Server Specification

USR-DR132/134



Introduction

The USR-DR13X, launched by PUSR, is an ultra-compact DIN rail-mounted industrial-grade serial port server. It enables fast bidirectional data transmission between RS232/RS485 serial ports and RJ45 Ethernet ports, supporting rich communication protocols MQTT/TCP/UDP/HTTP, and expanded Modbus gateway capabilities. From V2.0.5 firmware, it supports edge computing which support up to 25 points. All these functions allow seamless integration of devices into industry scenarios, facilitating rapid business framework deployment and saving human resource investments.

This product series adheres to industrial design standards, wide power range 5-24V, withstanding high and low temperatures and ensuring stable operation 24/7, unaffected by harsh environmental conditions. Having undergone rigorous market testing over the years, this series has gained recognition and extensive application in various industries such as finance, transportation, large-scale corporate networks, and factory manufacturing projects.

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Product Features

- Supports both RS232 and RS485 serial signals, allowing for the selection of different specifications as needed, saving project costs.
- Flexible operating modes including TCP Client, TCP Server, UDP Client, UDP Server, and HTTPD Client.
- Support standard MQTT protocol, can access to MQTT platform.
- Enables Modbus gateway functionality for seamless integration between ModbusRTU and Modbus TCP protocols.
- Support light edge computing, up to 25 points, data reporting/writing in JSON mode.
- Support user defined web page, users can change the UI style as need.
- Automatic polling of Modbus commands for millisecond-level data acquisition, with optional transparent or JSON protocol data reporting to servers.
- In TCP Server mode, when the maximum connection limit is reached, the option to kick out old connections for new ones is available.
- Custom registration and heartbeat packet mechanisms ensure genuine and reliable connections, eliminating dead connections.
- DHCP functionality for automatic IP acquisition; configurable DNS server address for domain name resolution.
- 10/100Mbps adaptive Ethernet interface supports AUTO-MDIX for automatic switching between crossover and straight-through cables.
- Supports virtual serial ports, compatible with independently developed USR-VCOM software.
- Industrial-grade design with hardware watchdog for ultra-high reliability.

Dimensions

Unit: mm

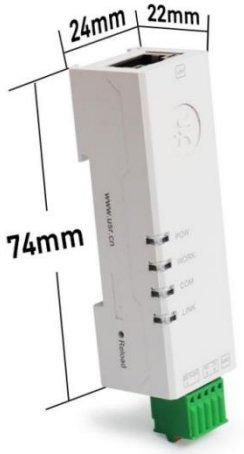


Figure 1 **Dimension of USR-DR132/134**

Specifications

Catalog	Parameters	Value
Power Supply	Power Input	5~24V DC

	Working Current	97mA@5V
	Power Interface	Push-type Connector
Hardware Interface	Ethernet Port	1*RJ45, 10/100Mbps, auto MDI/MDIX
	Serial Pors	USR-DR132: 1*RS232 USR-DR134: 1*RS485
	Baud Rate	600~230.4K
	Data bits	7, 8
	Stop bit	1, 2
	Parity bit	Odd, Even, Mark, Space supported when data bits are 7; None, Odd, Even supported when data bits are 7
	Reload Button	Reset to factory settings
	Indicators	POW, WORK, COM, LINK
Physical Parameters	EMC Protection	IEC 61000-4-2(ESD): Level 2 IEC 61000-4-4(EFT): Level 2 IEC 61000-4-5(Surge): Level 2
	Dimension	74*24*22 mm
	Installation	35mm DIN-Rail, Mounting Hole
	Operating Temperature	-40～85℃
	Storage Temperature	-40～105℃
	Operating Humidity	5%~95% RH(non-condensing)
	Storage Humidity	5%~95% RH(non-condensing)
Software	Network Protocols	TCP/UDP/HTTP/IPV4/ICMP/DHCP/ARP
	IP Address	DHCP, Static
	DNS	Configurable DNS
	Configuration	AT Command, Built-in webpage, Config Utility
	Work Mode	TCP Client, TCP Server, UDP Client, UDP Server, HTTP Client
	MQTT	Standard MQTT protocol,up to 4 publish/subscribe topics
	Edge computing	Light edge computing, up to 25 data points
	JSON	Data reporting/writing in JSON mode
	User defined webpage	√
	Modbus Gateway	Modbus RTU/TCP protocol conversion, Modbus Polling Modbus RTU to Json
	TCP Server	Up to 16 clients
	Packaging mechanism	Packaging Time: 4-byte data transmission time Packaging Length: 400 Bytes

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