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Communication Expert
of Industrial IOT

“Lipstick” Size LTE Modem

USR-DR154



Introduction

The USR-DR15X series device is the latest lipstick-sized 4G LTE modem introduced by PUSR. This product integrates a 4G module, providing a stable and reliable network connection for IoT applications. Additionally, this product integrates RS485 serial ports, enabling rapid transformation of on-site equipment into IoT devices, facilitating remote monitoring and control of the remote device.

Due to its compact size and support for DIN rail mounting, this product can be used in a wider range of scenarios, making it especially suitable for installation in small enclosures.This device has been widely applied in variety industries such as environmental monitoring, smart agriculture, smart cities, smart energy and etc.

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Product Features

- 4G Cat1 connectivity, low latency, broad coverage, and high network stability;
- Supports multiple work modes: TCP, UDP, HTTP, and MQTT, capable of interfacing with various protocol servers;
- Built-in hardware watchdog to ensure stable operation without crashes;
- Industrial-grade design with a wide operating temperature range: -20 to 75。C;
- Wide voltage supply: 5-24V;
- Modbus gateway: allowing seamless communication between on-site devices and SCADA software;
- Supports both DIN rail and mounting hole installations;
- Utilizes push-in terminals for easy wiring;
- High EMC protection level: Level 2;
- Remote management through the PUSR platform, enabling remote device management.

Dimensions

Unit: mm



Specifications

Power	Power Supply	5-24V DC, 12V/1A is commanded
	Consumption	Average:0.8W, Max:3.5W
Cellular	Frequency Band	B1/3/5/7/8/20/28
	Transmition Rate(Mbps)	10.3 DL/5.1 UL
	Modulation System	UP link: QPSK/16QAM Down link: QPSK/16QAM/64QAM
	Tx Power	23.5±2dBm

	Receive Sensitivity	Band 1 -98.5 10MHz Bandwidth
		Band 3 -98.0 10MHz Bandwidth
		Band 4 -97.5 10MHz Bandwidth
		Band 5 -98.0 10MHz Bandwidth
		Band 7 -97.5 10MHz Bandwidth
		Band 8 -98.0 10MHz Bandwidth
		Band 20 -98.5 10MHz Bandwidth
		Band 28 -98.0 10MHz Bandwidth
	SIM Slot	1*4FF, Nano SIM card
	Antenna Connector	1*SMA Female
Serial Port	Baud Rate	600bps~230400bps
	Data Bits	7,8
	Stop Bit	1,2
	Parity Bit	NONE,EVEN,ODD
Software Features	Protocols	TCP/UDP/HTTP/MQTT/DNS/NTP/FTP/SSL
	Work Mode	TCP Server, TCP client, UDP client, HTTP client, MQTT Client
	Registration Packet	√
	Heartbeat Packet	√
	Modbus Gateway	Modubs RTU to Modbus TCP conversion
	Remote Management	PUSR Cloud(Not available in Europe)
	Configuration	Config Tools, AT command
Environmental Characteristic	Operating Temprature	-25℃~+75℃
	Storage Temprature	-40℃~ +85℃
	Operating Humidity	5%~95%(Non-condensing)
	Weight	<50g
	Dimension	74*24*22mm(L* W* H)
Others	Certificate	CE, NBTC, RoHS*, WEEE*

*: The * feature is coming soon.

Ordering Guide

Model	USR-DR154-E	USR-DR154
Frequency	LTE FDD: B1/3/5/7/8/20/28	LTE FDD: Band1/3/5/8 LTE TDD: Band38/39/40/41
Region	Europe, Southeast Asia, Middle East	China, India
TCP Server	√	/
Modbus Gateway	√	/
SMS	/	√

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