

LTE Cat1 Cellular Modem USR-DR154



Introduction

The USR-DR15X series is an ultra-small Din-Rail DTU, including the USR-DR154 with RS485 interface and the USR-DR152 with 232 interface. This series of products features with high speed, low delay, small size, simple configuration, etc.

Wide voltage terminal power supply, RS232, RS485 two standard terminal interface, more convenient for customers to use, the applicability of stronger; The product comes with DIN-Rail buckle, easy to install.

Product Features

- Small size, easy to use.
- Wide input voltage range: DC 5~24V.
- LTE Cat 1, low latency, wide coverage.
- Support TCP/UDP, HTTP protocol.
- FTP Upgrade and FOTA self-upgrade.
- Industrial design, independent hardware watchdog.
- SMS, NET, Serial AT command configuration.
- Socket Distribution Protocol, multi-center.

Dimensions

Unit: mm



Fig.1 Dimension

Specifications

Items	Description	
Power Supply	DC: 9~24V, 12V/1A is commended.	
Working Current	Average: 67mA@12V, max: 289mA@12V	
Serial port		
No.	1 x RS485	
Baud rates	RS485: 1200 ~ 230400bps	
Data bits	8	
Stop bits	1, 2	
Parity	NONE, ODD, EVEN	
Cellular		
Frequency Bands	FDD Band1: 1920-1980 MHz(TX), 2110-2170 MHz(RX) FDD Band3: 1710-1785 MHz(TX), 1805-1880 MHz(RX)	

SPECIFICATION

FDD Band8: 880-915 MHz(TX), 925-960 MHz(RX) TDD Band40: 2300-2400 MHz(TX)(RX) TDD Band41: 2496-2690MHz(TX)(RX) Transmission Speed LTE FDD: 10Mbps DL/5Mbps UL LTE TDD: 7.5Mbps DL/1Mbps UL LTE FDD: +23dBm(Power Class 3) LTE TDD: +23dBm(Power Class 3) LTE TDD: +23dBm(Power Class 3) RX Sensitivity LTE FDD Band 1/3/8: -99.6 dBm@10MHz (Typical) LTE TDD Band 40/41: -98.6bBm@10MHz (Typical) LTE TDD Band 40/41: -98.6bBm@10MHz (Typical) LTE TDD Band 40/41: -98.6bBm@10MHz (Typical) Dimensions 22 x 24 x 74(mm) Installation Wall mounting, Din rail mounting Surge protection: level 3, IEC61000 ESD protection: level 3, IEC61000 EFT protection: level 3, IEC61000 EFT protection: level 3, IEC61000 Operating temperature -40°C~+85°C Operating humidity 5% ~95% RH, non-condensing Software Function Network protocols TCP, UDP, HTTP, MQTT, SSL/TLS Heartbeat Packet SN/IMEI/ICCID/Self-defined Others FTP, FOTA Update firmware, Others		SPECIFICATION
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Registration Packet SN/IMEI/ICCID/Self-defined Others FTP, FOTA Update firmware, Others	Network protocols	TCP, UDP, HTTP, MQTT, SSL/TLS
Others FTP, FOTA Update firmware, Others	Heartbeat Packet	SN/IMEI/ICCID/Self-defined
Others	Registration Packet	SN/IMEI/ICCID/Self-defined
	Others	FTP, FOTA Update firmware,
8:11	Others	
Reload Pinhole reset button	Reload	Pinhole reset button
Indicators 1 x LINK, 1x NET, 1 x WORK, 1 x PWR	Indicators	1 x LINK, 1x NET, 1 x WORK, 1 x PWR
APPROVALS	APPROVALS	
Regulatory CCC, CE/RED*	Regulatory	CCC, CE/RED*

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