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	LTE FDD: Band 1/3/8 LTE TDD: Band 40/41
Transmission Speed	LTE FDD:10Mbps DL/5Mbps UL

	LTE TDD:7.5Mbps DL/1Mbps UL
TX Power	LTE FDD: +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@10M**Hz (Typical)
Physical Property	
Casing material	ABS shell, IP30 protection
Dimensions	22 x 24 x 74(mm)
Installation	Wall mounting, Din rail mounting
EMC	Surge protection: level 3, IEC61000 ESD protection: level 3, IEC61000 EFT protection: level 3, IEC61000
Operating temperature	-25℃～ +75℃
Storage temperature	-40℃～+85℃
Operating humidity	5% ~ 95% RH, non-condensing
Storage humidity	5% ~ 95% RH, non-condensing
Software Function	
Network protocols	TCP, UDP, HTTP, MQTT, SSL/TLS
Heartbeat Packet	SN/IMEI/ICCID/Self-defined
Registration Packet	SN/IMEI/ICCID/Self-defined
Others	FTP, FOTA Update firmware,
Others	
Reload	Pinhole reset button
Indicators	1 x LINK, 1x NET, 1 x WORK, 1 x PWR
APPROVALS	
Regulatory	CCC, CE/RED*

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