



Communication Expert  
of Industrial IoT

# USR-DR15X

## LTE Cat 1 Modem



### Product Description

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.

### Features

- Small size, easy to use
- Wide input voltage range:DC 5~16V
- 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



## Product Parameters

### Frequency Bands

#### ■ USR-DR15X(Asia version)

LTE FDD: B1/B3/B5/B8/B38/B39/B40/B41

#### ■ TX Power

FDD:B1/B3/B5/B8: 23dBm±2dB

TDD:B38/B39/B40/B41: 23dBm±2dB

#### ■ Rx Sensitivity:

FDD:B1/B3/B5/B8: -98dBm

TDD:B38/B39/B40/B41: -98.5dBm

#### ■ Transmission Speed

LTE FDD: 10MbpsDL/5Mbps UL

LTE TDD: 7.5MbpsDL/1Mbps UL

#### ■ Physical Interfaces

UART: RS485 (USR-DR154)/RS232(USR-DR152)

USIM: 3.0V/1.8V Nano SIM 4FF

RF: SMA

Indicators: POW, WORK, NET, LINKA

Reload: Button

Installation: Din-Rail Mounting and ear mounting

#### ■ Software

TCP /UDP/IPV4/IPV6/HTTP/MQTT/DNS

FOTA/VoLTE/NTP/FTP

SMS:MO/MT Text and PDU modes

TCP/UDP/HTTPD/SMS transparent transmission

Socket Distribution Protocol

Base station geolocation

#### ■ Hardware Characteristics

POWER: 5~16V

Dimensions: 22mm ×24mm × 74mm

Operating temperature: -25℃~+75℃

Expansion temperature: -35℃~+85℃

Storage temperature: -40℃~+90℃

Relative Humidity: 5%~95%(non-condensing)

#### ■ Serial

Cache: 20 packets, maximum 4096 byte per packet

Baudrate: 1200~230400bps

Parity: NONE/ODD/EVEN

Data: 8

Stop: 1/2

#### ■ Certifications

CE/RoHS/CCC