

# USR-DR502-E

## LTE Cat 1 Module

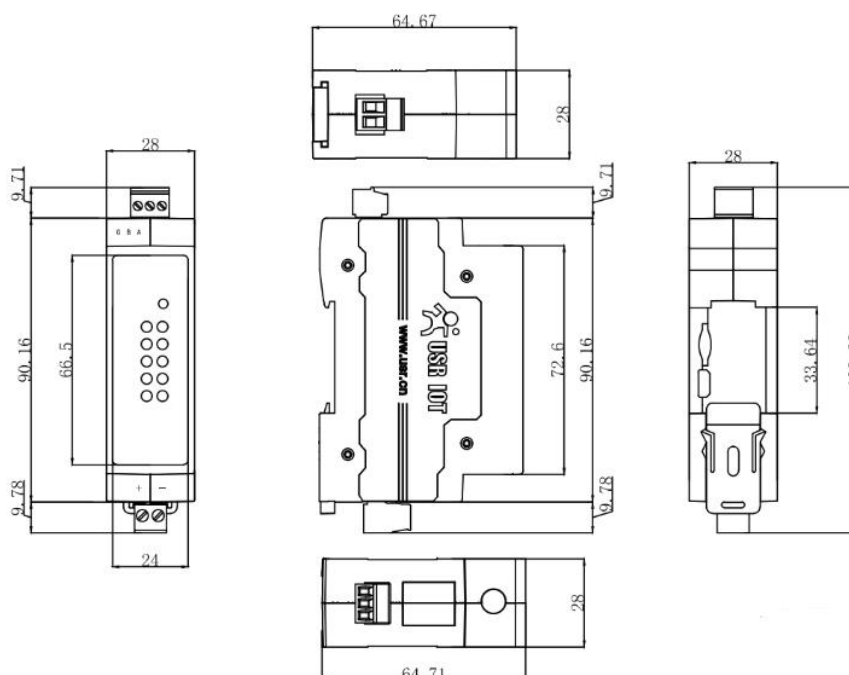


### Product Description

USR-DR502-E is a LTE CAT 1 communication modem, which supports LTE and GSM, covers the mainstream frequency bands of European operators. It has perfect software function, supports TCP/UDP transparent transmission, SMS transmission, HTTPD Client mode and AT command configuration. In addition, it is simple to configure, has high reliability and built-in hardware watchdog, supports FOTA upgrading. Din rail industrial modem USR-DR502-E adopts wide-voltage Power supply terminals, convenient for customers to use.

### Features

- 9-36V wide power supply range
- LTE Cat 1 & GSM
- Transparent transmission and AT command mode
- HTTP, MQTT, SMS
- SMS, NET, Serial AT command configuration
- FTP Upgrade and FOTA self upgrade
- Socket Distribution Protocol



## Product Parameters

### Frequency Bands

#### ■ Europe: USR-DR502-E

LTE FDD: B1/B3/B7/B8/B20/B28

GSM: 900/1800MHz

#### ■ TX Power

GSM:900MHz: 33dBm±2dB

GSM:1800MHz: 30dBm±2dB

FDD:B1/3/7/8/20/28: 23dBm±2dB

#### ■ Rx Sensitivity:

GSM:900MHz: -109.5dBm

GSM:1800MHz: -108dBm

FDD:B1/3/20: -98dBm

FDD:B7: -97.5dBm

FDD:B8/B28: -98.5dBm

#### ■ Transmission Speed

LTE FDD Rel.13: 10MbpsDL/5Mbps UL

GPRS: 85.6KbpsDL/85.6Kbps UL(multi-slot class 12)

#### ■ Physical Interfaces

UART: RS485 (3PIN)

USB: 2.0

USIM: 3.0V/1.8V, Micro SIM

RF: SMA

Indicators: POWER, WORK, NET, LINK, RSSI

Reload: Button

Installation: DIN-rail mounting

#### ■ Software

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

ECM/RNDIS/PPP

FOTA/VoLTE/NTP/FTP

SMS:MO/MT Text and PDU modes

TCP/UDP/HTTPD/SMS transparent transmission

CMD mode, AT command operation

Socket Distribution Protocol

Base station geolocation

#### ■ Hardware Characteristics

POWER: 9~36V

Dimensions:28mm x 64.7mm x 109.7mm

Operating temperature: -30℃~+75℃

Expansion temperature: -40℃~+85℃

Storage temperature: -40℃~+85℃

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

#### ■ UART

Cache: 20 packet, maximum 4096 byte per packet

Baudrate: 600~230400bps

Parity: NONE/ODD/EVEN

Data: 8

Stop: 1/2

#### ■ Certifications

CE/RoHS