

USR-DR502-E

LTE Cat 1 Modem



Product Description

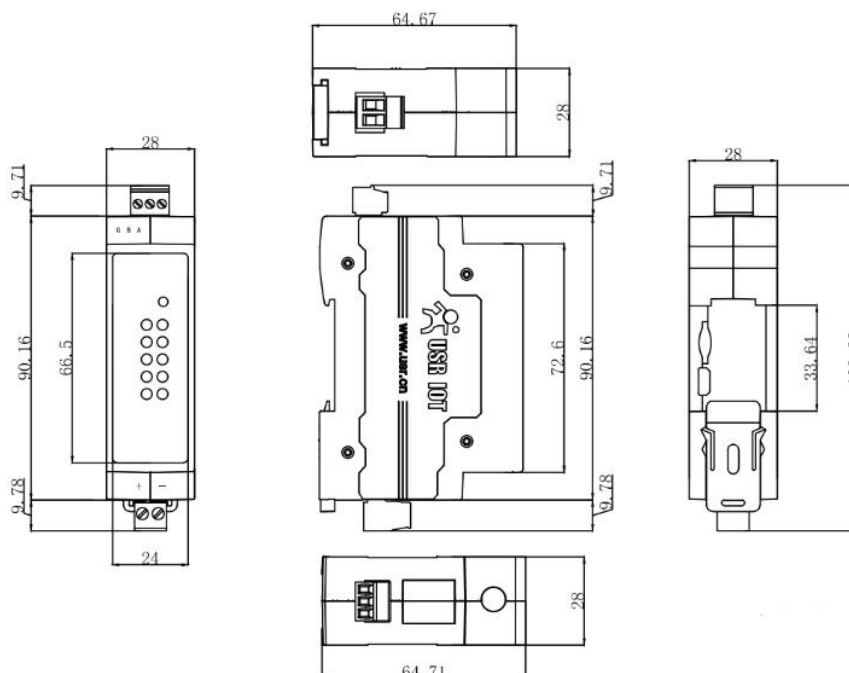
USR-DR502-E is a LTE CAT 1 secure cellular modem, which supports LTE and GSM, covers the mainstream frequency bands of European operators. It has perfect software function, supports TCP/UDP transparent transmission, TLS/SSL encryption transmission, SMS transmission, HTTPD Client mode and AT command configuration. 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.

Cloud support: MQTT via AWS IOT, Thingsboard, Alibaba Cloud, EMQX, Tuya, Cumulocity IoT and so on.

Features

- 9-36V wide power supply range
- LTE Cat 1 & GSM
- Transparent transmission and AT command mode
- HTTPS, MQTTS, 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 3FF

RF: SMA

Indicators: PWR,WORK,NET,LINK,Tx,Rx,RSSI

Reload: Button

Installation: DIN-rail mounting

■ Software

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

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

Power Consumption: <3W

Dimensions:28mm x 64.7mm x 109.7mm

Operating temperature: -30°C~+75°C

Expansion temperature: -40°C~+85°C

Storage temperature: -40°C~+85°C

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

■ Serial

Cache: 20 packets,maximum 4096 byte per packet

Baudrate: 600~230400bps

Parity: NONE/ODD/EVEN

Data: 8

Stop: 1/2

■ Certifications

CE/RoHS