USR IOT

Communication Expert
of Industrial IoT

USR-G771-E

LTE Cat 1 Modem



Product Description

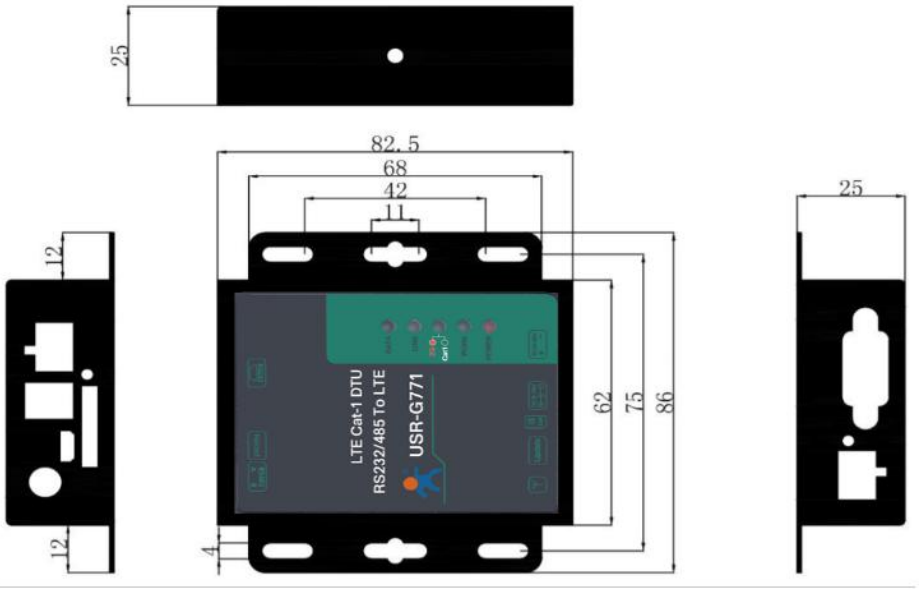
USR-G771-E is a LTE CAT 1 secure cellular modem, which supports LTE and GSM, covers the mainstream frequency bands of European operators. It has perfect software function, supports TCP/UDP transpar ent transmission, TLS/SSL encryption transmission, SMS transmission, HTTPD Client mode and AT command configuration. Also, it is simple to configure, has high reliability and built-in hardware watchdog, supports FOTA upgrading.

USR-G771-E has wide-voltage power supply terminals and DC interface, standard RS232 and RS485 interfaces, meets the needs of different application scenarios.

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



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Product Parameters

Frequency Bands

■ Europe: USR-G771-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 (2PIN)/RS232(DB9-F)
USB：2.0
USIM: 3.0V/1.8V MINI SIM 2FF
RF: SMA
Indicators: POWER,WORK,2G/CAT1,LINK,DATA
Reload：Button
Installation：Panel 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:＜2.8W
Dimensions：82.6mm × 86mm × 25mm
Operating temperature: -30℃~+75℃
Expansion temperature: -40℃~+85℃
Storage temperature: -40℃~+85℃
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

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