

USR-MB706

LTE Cat M Modem

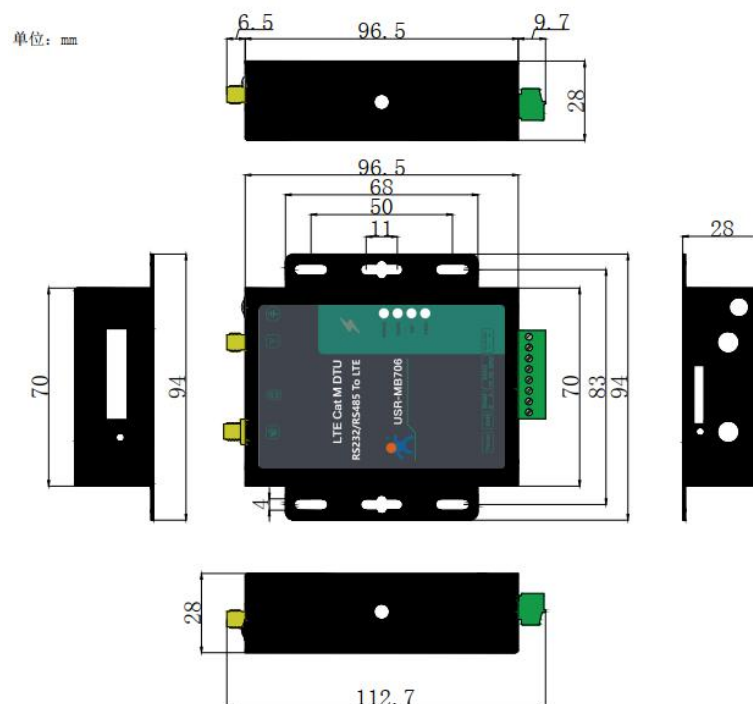


Product Description

USR-MB706 is a LTE Cat M serial modem which supports GNSS. It supports LTE Cat M1, NB-IoT, and EDGE/GPRS compatible, covers global frequency bands. It has perfect software function, supports transparent transmission, HTTPD Client, SMS mode and AT command configuration. Also, it is simple to configure, has high reliability and built-in hardware watchdog, supports FOTA upgrading. USR-MB706 adopts terminal interface design, RS232/RS485 interface easy to connect to serial port sensors, PLC, IPC, and controller, meets the needs of different application scenarios such as meter reading, security monitoring, vehicle positioning, alarms, asset tracking, etc.

Features

- 9~36V wide power supply range
- LTE Cat M1, Cat NB2, EGPRS
- Transparent transmission
- HTTP, SMS, FTP
- SMS, NET, Serial AT command configuration
- FTP Upgrade and FOTA self upgrade



Product Parameters

■ Frequency Bands

Cat M1:

B1/2/3/4/5/8/12/13/18/19/20/25/26/27/28/66/85

Cat NB2:

B1/2/3/4/5/8/12/13/18/19/20/25/28/66/71/85

GSM/EDGE:

850/900/1800/1900 MHz

■ Tx Power

GSM850/EGSM900:

33dBm±2dB

DCS1800/PCS1900:

30dBm±2dB

Cat M1:

B1/2/3/4/5/8/12/13/18/19/20/25/26/27/28/66/85:

21dBm+1.7/-3 dB

Cat NB2:

B1/2/3/4/5/8/12/13/18/19/20/25/28/66/71/85:

21dBm+1.7/-3 dB

■ Rx Sensitivity

GSM850/EGSM900 : -107dBm

DCS1800/PCS1900: -107dBm

Cat M1:

B1/2/3/4/5/8/12/13/18/19/20/25/26/27/28/66/85:

-106dBm

Cat NB2:

B1/2/3/4/5/8/12/13/18/19/20/25/28/66/71/85:

-114dBm

■ Transmission Speed

Cat M1:588Kbps DL/1119Kbps UL

Cat NB2:127Kbps DL/158.5Kbps UL

EDGE:296Kbps DL/236.8Kbps UL

GPRS:107Kbps DL/85.6Kbps UL

■ Software

DFOTA/VoLTE(Cat M1 only)/ FTP

SMS: PDU modes

Transparent (TCP Client/Server, UDP

Client/Server), COAP, DNS,modbus RTU/TCP

HTTP/SMS transparent transmission

CMD mode,AT command operation

Cell ID Positioning ,GNSS

■ Physical Interfaces

Serial:RS485 (2PIN)/RS232(3PIN)

USB:2.0

USIM:1.8V MINI SIM 2FF

Antenna:SMA * 2

Indicators:POWER,WORK,NET,LINKA

Reload:Button

Installation:Panel mounting

■ Hardware Characteristics

Power Supply:9~36V

Power Consumption < 1W (43mA@12VDC)

Dimensions:105mm × 94mm × 28mm

Operating temperature:-35°C~+75°C

Expansion temperature:-40°C~+85°C

Storage temperature:-40°C~+85°C

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

■ Serial

Cache:5 packets,maximum 1000 byte per packet

Connector:Terminal block, female socket

Baudrate:2400~230400bps

Parity:NONE/ODD/EVEN

Data:8

Stop:1/2

■ Certifications

CE/RoHS