USR-MB706

LTE Cat M Modem

PUSR®

USR-MB706

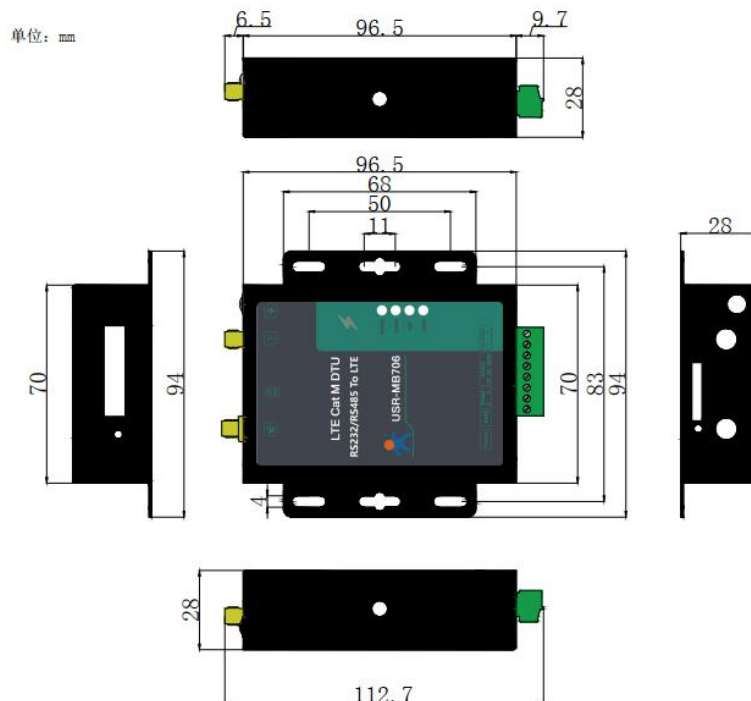LTE Cat M DTU

RS232/RS485 To LTE

POWER
WORK
NET
LINKA

Product Description

USR-MB706 is a LTE Cat M serial modem which supports GNSS. It supportsLTE 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

单位: mm

6.5 96.5 9.7

28

96.5
68
50
11

70 94

70 83 94

28

4

28

112.7

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℃~+75℃
Expansion temperature:-40℃~+85℃
Storage temperature:-40℃~+85℃
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