

LPWA Module MA510-GL-50



Cat M1/Cat NB2/EGPRS

eDRX

Power class 3

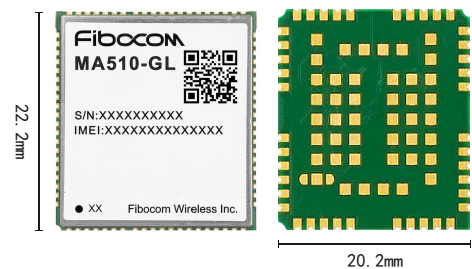
Support 450MHz

LCC+LGA: 22.2x20.2x2.1mm

Fibocom MA510-GL-50 is a high-performance IoT module, which is tailor-made for the global IoT market. It is developed based on the Qualcomm platform and is packaged in LCC+LGA. It supports LTE Cat-M1/Cat-NB2/EGPRS, covering power class 2 & power class 3.

Supporting global frequency band, Fibocom MA510-GL-50 integrated rich network protocol such as MQTT/CoAP/LWM2M, multiple standard industrial interfaces such as UART/USB/I2C/I2S. It also supports eDRX and PSM low power mode.

Fibocom MA510-GL-50 is suitable for IoT applications with low power consumption and ultra-small size, such as Smart meter, Smart parking, Wearable devices, Asset tracking, Smart city, etc.



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Basic Features

- Cat-M1 (Power Class 3) : B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B31/B66/B72/B73/B85/B87*/B88*
- Cat-NB2 (Power Class 3) : B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28/B31/B66/B72/B73/B85/B86*/B87*/B88*
- Cat-M1 (Power Class 2) : B31/B72
- EGPRS: 850/900/1800/1900MHz
- LCC+LGA: 22. 2x20. 2x2. 1mm
- Operating temperature: -40 °C~+85 °C
- Storage temperature: -40 °C~+90 °C
- Operating Voltage: 3. 3V~4. 5V (Typically: 3. 8V)

- TX Power: (Power Class 2 & Power Class 3)
- GSM850: 33dBm±1. 5dB
- EGSM900: 33dBm±1. 5dB
- DCS1800: 30dBm±1. 5dB
- PCS1900: 30dBm±1. 5dB
- Cat-M1 (Power Class 2 Bands): 27dBm±1. 5dB
- Cat-M1 (Power Class 3 Bands): 23dBm±1. 5dB
- Cat-NB2 (Power Class 3 Bands): 23dBm±1. 5dB

Data Transmission

- Cat-M1: Max 588Kbps (DL) / Max 1119Kbps (UL)
- Cat-NB2: Max 126. 8Kbps (DL) / Max 158. 5Kbps (UL)
- EGPRS: Max 296Kbps (DL) / Max 236. 8Kbps (UL)

Features

- PPP/TCP/UDP/SSL/TLS/FTP(S)/HTTP(S)/MQTT/ECM/DFOTA

Interfaces

- SIM1. 8V
- UART x3
- USB2. 0 x1
- I2C x1
- I2S x1
- ADC x2
- GPIO x4
- Antenna x1
- ANT TUNER x1
- System Indicator x1

OS Drivers

- Linux/Windows/Android

Certifications

- CE / GCF / HF / RoHS / REACH

Note: * = Planning/Developing

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