

LPWA Module MA510-GL-00



Cat M1/Cat NB2/EGPRS

3.2uA@PSM

LCC: 22.2x20.2x2.1mm

3.3V-4.5V

Fibocom MA510-GL-00 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 also supports LTE Cat-M1/Cat-NB2/EGPRS.

Supporting global frequency band, global certification, built-in GNSS, integrated MQTT/CoAP/LWM2M rich network protocol, UART/USB/I2C/I2S multiple standard industrial interfaces, support eDRX and PSM low power mode, PSM as low as 3.2uA. 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: B1/2/3/4/5/8/12/13/14/18/19/20/25/26/27/28/66/85
- Cat-NB2: B1/2/3/4/5/8/12/13/18/19/20/25/26/28/66/71/85
- EGPRS: 850/900/1800/1900MHz
- GNSS: GPS/GLONASS/BeiDou/Galileo/QZSS
- LCC+LGA: 22.2x20.2x2.1mm
- Operating temperature: -40 °C~+85 °C
- Storage temperature: -40 °C~+90 °C
- Operating Voltage: 3.3V~4.5V
- AT Command Set: 3GPP TS 27.007 and 27.005, proprietary FIBOCOMAT commands
- TX Power: (Power Class 5)
- GSM850/900: 32.5dBm±1dB
- DCS1800/PCS1900: 29.5dBm±1dB
- Cat-M1: 21dBm±1dB
- Cat-NB2: 21dBm±1dB

Data Transmission

- Cat-M1: Max 375Kbps (DL)/ Max 1119Kbps (UL)
- Cat-NB1: Max 32Kbps (DL)/ Max 70Kbps (UL)
- Cat-NB2: Max 136Kbps (DL)/ Max 150Kbps (UL)
- EGPRS: Max 296Kbps (DL)/ Max 236.8Kbps (UL)
- GPRS: Max 107Kbps (DL)/ Max 85.6Kbps (UL)

Features

- PPP/TCP/UDP/SSL/TLS/FTP(S)/HTTP(S)
- MQTT/CoAP/LWM2M
- VoLTE/NITZ/PING/Jamming Detection
- DFOTA

Interfaces

- SIM1.8V
- UART x3
- USB2.0 x1
- I2C x1
- SPI x1
- I2S x1
- ADC x2
- GPIO x4
- Antenna x2

OS Drivers

- Linux/Windows/Android

Certifications

- RoHS/HF/GCF/RCM/Telstra*/NCC
- FCC/IC/PTCRB/Sprint/AT&T/Verizon/ANATEL
- JATE/TELEC/Softbank*/DoCoMo*/KDDI
- CE/DT/VDF/Telefonica

Note: * = Planning ** = Developing

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