

MA510-GL-00 LPWA Module

Perfect Wireless Experience

V1.1

MA510-GL-00 LPWA Module Technical Specifications

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
- 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 FIBOCOM AT commands
- **TX Power:**
 - GSM850/900: 33dBm±2dB
 - DCS1800/PCS1900: 30dBm±2dB
 - Cat-M1: 20dBm±2dB
 - Cat-NB2: 20dBm±2dB

Data Transmission

- Cat-M1: Max 588Kbps (DL)/ Max 1119Kbps (UL)
- Cat-NB2: Max 127Kbps (DL)/ Max 158.5Kbps (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 x6
- Antenna x2

Certifications

- RoHS/HF/GCF/RCM/Telstra
- FCC/IC/PTCRB/Sprint/AT&T/VZW
- JATE/TELEC/SFB/DCM/KDDI
- CE/DT/VDF