

## MA510-GL-00 LPWA Module

Perfect Wireless Experience

V1.0

### MA510-GL-00 LPWA Module Technical Specifications

#### Basic Features

- CatM: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: 588Kbps DL/1119Kbps UL
- Cat-NB2: 127Kbps DL/158.5Kbps UL
- EGPRS: 296Kbps DL/236.8Kbps UL
- GPRS: 107Kbps DL/85.6Kbps UL

#### Features

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

#### Interfaces

- USIM1.8V
- 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