



# BL10

## Smart Bike-sharing GPS Lock



### GPS/LBS Positioning

Faster searching & locating speed  
realizes more accurate bike locating



### Geo-fence

Create virtual barrier to define  
geographical boundaries



### Long battery life

10000mAh battery and intelligent power  
management ensure 45 days work time



### Powered by solar energy

Mono-crystalline silicon solar panels  
provide solar-energy conversion



### Stable & durable hardware

100,000 locking and unlocking tests  
witness its stable performance



### IPX6 water proof

Able to withstand inclement  
weather conditions



### OTA

Easy to update the GPS lock remotely



### Efficient unlocking

GPRS & BLE technology ensures efficient  
and reliable unlocking

## Application



Public places



Campus



National park

## GSM Specification

|                     |  |
|---------------------|--|
| CPU                 | CPU MTK2503, dominant frequency 260MHz           |
| Communication mode  | GSM  |
| GSM frequency       | 850/900/1800/1900MHz                             |
| GPRS                | Class 12, TCP/IP                                 |
| Memory              | 64Mb   |
| Phrase error        | RMSPE<5, PPE<20                                  |
| Max output          | GSM850/GSM900: 33±3dBm, GSM1800/GSM1900: 30±3dBm |
| Max frequency error | ±0.1ppm  |
| Receive sensitivity | Class II RBER2% (-102dBm)                        |

## GPS Specification

|                         |   |
|-------------------------|---|
| Chip                    | MTK high sensitivity GPS chips                                  |
| Frequency               | GPS L1, 1575.42MHz  |
| channel                 | 66  |
| Location accuracy       | 5-10meters  |
| Tracking sensitivity    | -165dBm   |
| Acquisition sensitivity | -148dBm   |
| TTFF (open sky)         | Avg. hot start ≤ 1sec   Avg. cold start ≤ 32sec   GNSS: ≤ 10sec |

## Main Specification

|                           |  |
|---------------------------|--|
| Wi-Fi location accuracy   | 3-50meters   |
| Bluetooth                 | CSR BLE 4.0  |
| iBeacon location accuracy | 1-10meters   |
| G-Sensor                  | BMA 250E   |
| Antenna                   | Built-in quad band GSM antenna,<br>25 x 25 x 4mm GPS ceramic antenna |
| Battery                   | 10000mAh (Built-in 3.7V/2500mAh x 4 bytes 18650)                     |
| Charging                  | Solar energy (6V/5W)   |
| Avg working current       | About 60mA   |
| Avg standby current       | About 4mA  |
| Working condition         | Temperature: -20°C~60°C   Humidity: 5%-95% non-condensing            |
| Waterproof grade          | IPX6   |

## Contact

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