



JM-BL11

LTE Cat M1/NB2 GNSS Sharing Bike Lock

The JM-BL11 GPS bike sharing lock is an optimized hardware for bike sharing solution powered by Cat M1/NB2 low power consumption technology, reinforced structure, and enhanced data security protection, enabling faster projects implementation and easier bike maintenance, as well as better user experience.



Bicycle Retail and Manufacturing



Bike Rental Services



Sports and Fitness



GPS & LBS Positioning

A synergy of multiple positioning systems ensures that locations are accurately displayed on the cloud platform.



Quick & Simple Unlocking

You can unlock this device via Bluetooth, NFC or by scanning QR code on a designated app.



Solar Powered

A solar panel converts sunlight into electricity that can be used to power this device.



Large 10,000mAh Battery

High capacity along with solar-powered energy ensures the electricity never drains out.



Rugged and Durable Design

Rugged case and reliable fixing make it hard to damage this device without professional tools.



IP66 Dust and Water Resistance

Rugged design ensures continued optimal performance, even in the toughest conditions.



Vibrating Alert

You'll get notified if the vibration reaches threshold, such as drilling, hammering, or stealing bike.



TLS Data Encryption

Most widely deployed security protocol between two communicating applications.

Standard Configuration

Positioning & Location

Technology	GPS, BDS, LBS
Accuracy	<2.5m CEP
Tracking sensitivity	-165dBm
Acquisition sensitivity	-148dBm
TTF (open sky)	Avg. hot start < 1sec; Avg. cold start < 40sec

Cellular

Technology	LTE Cat M1 & NB2
Frequency	LTE Cat M1 & NB2: B1/B2/B3/B4/B5/B8/B12/ B13/B18/B19/B20/B25/B26/B27/B28/B66/B85

Power

Battery	10,000mAh/3.7V industrial-grade Li-polymer battery (rechargeable)
Solar power	6V/5W (under solar illumination) Recycling mode
Working modes	Timing mode Tracking mode (optional)
Battery life	10 to 60 days with solar panel

Operating environment

Operating temperature	-20°C to +60°C
Operating humidity	5% to 95%, non-condensing
IP rating	IP66

Interface

LED indication	Status (Green/Red)
SIM	Nano-SIM
Memory capacity	1000 GPS data entries
Tamper proof	Accelerometer
USB	N/A
GNSS antenna	Internal
Bluetooth antenna	Internal

Feature

Voice monitoring range	N/A
Sensors	Accelerometer, Buzzer, Motor, NTC Audible recovery, Low battery alert, Vibrating
Scenarios	Alert, Geo-fence entry & exit alert (optional), Fall detection (optional)
Bluetooth	BLE 4.2
NFC	RFID 13.56 MHz
Mount method	Rear wheel
Configuration support	APP, Tracksolid Pro, PC Tools, SMS
Certification	CE, RoHS

Physical specification

Dimensions	142,5 x 223,7 x 38,0 mm
Weight	1180g

Standard Packing

JM-BL11 unit	1
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Optional Configuration*

Solar panel

Extension cable

*Optional Configuration required to be customized or purchased separately.