Jimi IoT

JM-BL11
LTE Cat M1/NB2 GNSS Sharing Bike Lock

The JM-BL11 GPS sharing bike 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.

GPS & WiFi & LBS Positioning
A synergy of multiple positioning systems ensures that locations are accurately displayed on the cloud platform.

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

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

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

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

Large 10,000mAh Battery
High capacity along with solar-powered energy ensures the electricity never drains out.

IP66 Dust and Water Resistance
Rugged design ensures continued optimal performance, even in the toughest conditions.

TLS Data Encryption
Most widely deployed security protocol between two communicating applications.

Bike Sharing

GNSS

Positioning system	GPS+AGPS+WiFi+LBS
Frequency	L1
Positioning accuracy	<2.5m CEP
Tracking sensitivity	-165dBm
Acquisition sensitivity	-148dBm
TTFF (open sky)	Avg. hot start ≤1sec Avg. cold start ≤40sec

Cellular

Communication network	LTE + EGPRS
Frequency	**JM-BL11E:** eMTC: B1/B3/B5/B8/B18/B19/B20/B26 NB-IoT: B1/B3/B5/B8/B18/B19/B20 **JM-BL11A*:** LTE Cat-M1/NB: B1/B2/B3/B4/B5/B12/B13/B28/B66 EGPRS: 850/ 900/1800/1900 MHz

Power

Battery	10,000mAh/3.7V industrial-grade Li-polymer battery
Solar power	6V/5W (Under solar illumination)
Working modes	Tracking mode; Transport mode
Standby time	Up to 40 days in locked state (without solar energy)

Interface

LED indication	2 x Status indicators (Green/Red)
SIM	Nano-SIM
Data storage	32+32Mb

Physical specification

Dimensions	142.5 x 223.7 x 38.0 mm
Weight	1180g

Operating environment

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

Feature

Bluetooth	Bluetooth 4.2
Sensors	Accelerometer
Scenarios	Audible recovery, Low battery alert, Vibrating Alert, Geo-fence
NFC	RFID 13.56Mhz