Jimi IoT

BL10
GNSS Sharing Bike Lock

The all new BL10 GPS bike lock is a cost-effective solution for securing shared bicycles. Developed by experienced innovators, this discreet lock helps keep the bike secure, track the bike's location, and also allows the bike to be unlocked via Bluetooth. Alerts can be triggered and sent to the operator if the bike leaves designated areas that you set. Monthly usage reports can be sent via email, platform or app to the operator, giving you crucial insight into the usage history of the bicycle. This next-generation device has been improved to have lower power consumption and longer battery life.

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

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

Geo-fence
A virtual area set on platform by yourself, you'll be informed when the bike crossing its boundary.

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.

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

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

IPX5 Water Resistance
Water-resistant design ensures normal functioning in different weather conditions.

Bike Sharing

GNSS

Positioning system	GPS+WiFi+LBS
Frequency	L1
Positioning accuracy	＜2.5m CEP
Track sensitivity	-165dBm
Acquisition sensitivity	-148dBm
TTFF (open sky)	Avg. hot start ≤1sec Avg. cold start ≤32sec

Cellular

Communication network	GSM
Frequency	Quad-band 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	Regular-upload mode
Standby time	Up to 40 days in locked state (without solar energy)

Interface

LED indication	1 status indicator (Blue)
SIM	Micro-SIM
Data storage	64Mb

Physical specification

Dimensions	148.0 x 211.0 x 51.0 mm
Weight	1117g

Operating environment

Operating temperature	−20℃ to +60℃
Operating humidity	5%-95%, non-condensing
IP rating	IPX5

Feature

Wi-Fi positioning accuracy	3-50 meters
iBeacon positioning accuracy	1-10meters
Sensors	3-axis Accelerometer
Scenarios	Audible recovery, Vibration alert, Low battery alert