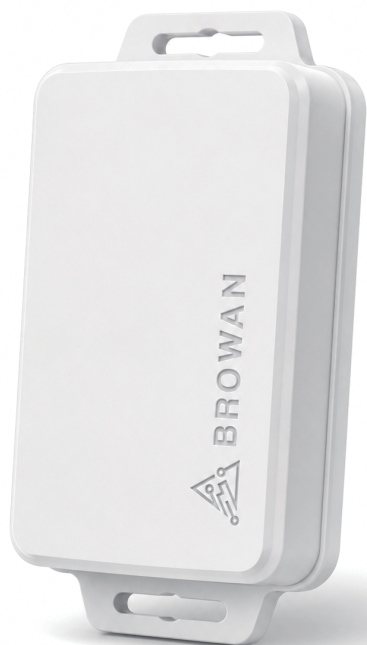




BR012 Datasheet

Version 1.0

Compact LoRaWAN® Asset Tracker

Long-Life, Low-Power, Lightweight

Introduction

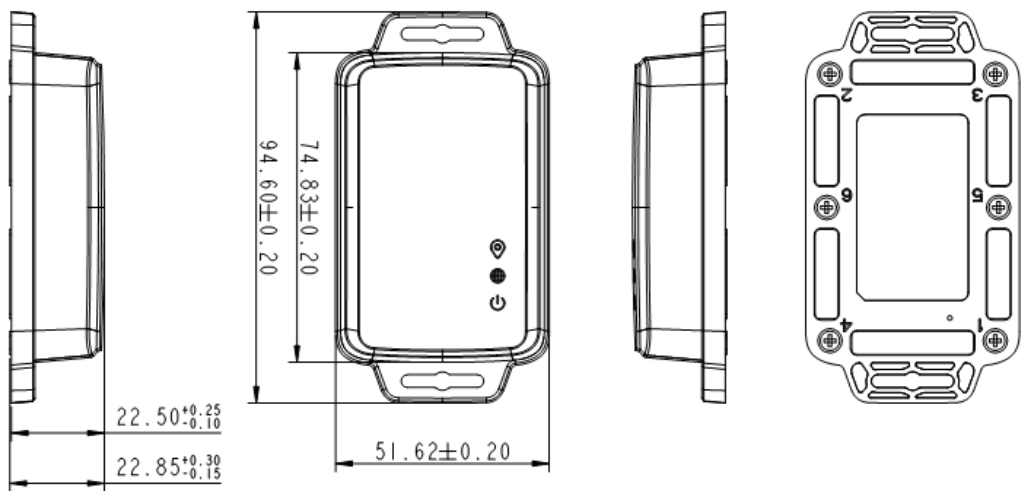
BR012 is a compact, low-power LoRaWAN® tracker designed for long-life asset monitoring. It features LoRaWAN connectivity, a 3-axis accelerometer for motion detection, and Bluetooth® Low Energy (BLE) for device configuration.

By leveraging the LoRaWAN network, BR012 enables zone-level location tracking based on gateway coverage rather than GPS, significantly reducing power consumption while extending battery life. This makes it ideal for large-scale deployments where long operating life and low total cost of ownership are essential. Typical applications include asset tracking, logistics, returnable transport items (RTIs), warehouse management, and light vehicle tracking.

Key Features

- Multiple installation options (screws, double-sided sticker, tape or magnetic)
- Long wireless transmission distance
- High durability and impact resistance
- Built-in accelerometer
- Multiple working mode
- IP67 rating

Mechanical Size Description



General Specifications

Categories	Parameter	Value
LoRa Wireless Specification	LoRa Protocol	LoRaWAN V1.0.3
	Lora Frequency	EU868/AU915/US915/AS923

	Tx Power	Max 22dBm
	Sensitivity	-137dBm@SF12
	LoRa Communication Distance	Up to 7 km (in urban open space)
	Bluetooth® (BLE)	4.2
BLE Wireless Specification	TX Power	Max 4 dBm
	BLE Broadcast Distance	Up to 50m in free space
	BLE Scan Distance (1M PHY)	Up to 150m in free space
Power Supply	Power Supply	2600 mAh battery
Physical Specification	Protection level	IP67
	Dimension	51.6mm×94.6mm×22.8mm
	Weight	84.5g
Application Specification	Power Switch	Hall Sensor
	Operation Temperature/ Storage Temperature	-20℃ ~ 65℃
	Operation Humidity	10%~90%
	Certification	CE/FCC/Reach/RoHS approved

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