



MOKO SMART

LW003 Ultra

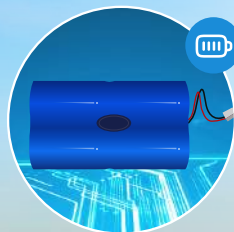
Solar Charging Outdoor Bluetooth Bridge



Impact-resistant shell, strong anti-interference ability



High-conversion solar panels, powering self-sufficiency



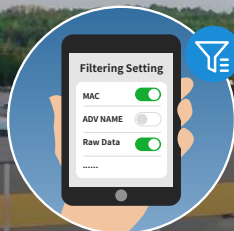
LiFePO4 battery pack, enhanced safety and lifecycle



Robust IP67 waterproof, withstands harsh environments



Long wireless transmission distance



Flexible filtering setting, satisfying various needs



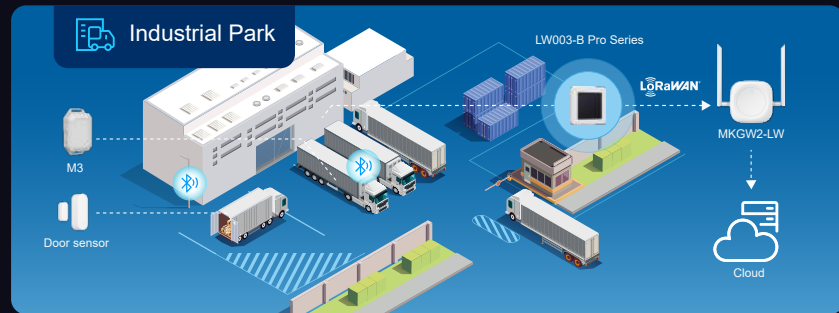
Smart Gateway

Outdoor Tough, Solar-powered Self-Sufficiency

The LW003 Ultra is a Bluetooth-LoRaWAN Bridge that seamlessly integrates Bluetooth and LoRaWAN wireless technologies. This device is capable of scanning BLE data and efficiently transmitting it to a server via LoRaWAN network.

Equipping industry-leading solar panels, our LW003 Ultra is able to achieve self-sufficiency. Additionally, its robust metal shell boasts IP67 waterproofing and strong anti-interference performance, making it an ideal choice for asset tracking, staff safety ensuring, environmental monitoring, and more.

Application Scenarios



Categories

Parameter

Value

LoRa Wireless Specification

LoRa Protocol	LoRaWAN V1.0.3
Lora Frequency	EU868/AU915/US915/AS923/IN865/KR920/RU864/AS923-1/AS923-2/AS923-3/AS923-4
Tx Power	Max 21dBm
LoRa Communication Distance	Up to 4.5 km (SF9 in urban open space with built-in antenna) Up to 6 km (SF9 in urban open space with external fiberglass antenna)

BLE Wireless Specification

Bluetooth® (BLE)	V5.0
TX Power	Max 8 dBm
BLE Scan Distance (Built-in antenna)	250m scan distance (In urban open space) (BLE 4.2 or BLE 5.0 1M PHY) 300m scan distance (In urban open space) (BLE 5.0 Coded PHY)

Physical Parameter

Dimension	195mm × 195mm × 70mm
Net Weight	1634g (solar charging version)
Shell Material	Upper Cover: PC+ASA+10% glass fiber Lower Cover: ADC12

Power supply Specification

Power Supply	12,000mAh rechargeable battery
DC charging voltage	9~12V
DC charging current	max 2A

Application Parameter

Operating Temperature	-20 ~ + 60°C
Operating Humidity	10%~90%
IP Rating	IP67 waterproof
Certification	FCC,CE under approval