

RFID RD-100C



RD-100C is a smart device used to make the sharing e-bikes are parked at fixed parking sides. The device adopts RFID technology, which can realize the function about precise parking.

The accuracy of parking has reached the centimeter level, it effectively solves the pain points of random parking and government management. As an accessory of smart IOT, the device needs to be used together with smart IOT to realize different kinds of functions of sharing e-bikes.

The product is stable and reliable, convenient for construction and after-sales management. Its recognition distance can be flexibly adjusted to meet the needs of different application scenarios.

Functions:

- Centimetre parking accuracy
- OTA upgrade

SPECIFICATIONS:

Device parameters		
RFID reader	Dimension	Length, width and height: 140mm × 100mm × 16mm
	Input voltage range	Supported wide voltage input: 4.5V-100V
	Interface Communication Mode	485 Communications
	Power dissipation	Normal work :<5mA@48V
	Level about waterproof and dust-proof	IP67
	Shell materials	ABS+PC, V0 fireproof level

RFID radio frequency performance	
Frequency	13.56MHz
Identification distance	0-27cm
Response rate	ms grade

Functional Description:

Function list	Features
Centimeter parking accuracy	The RFID identification distance can be set between 0 and 1 meters, and the identification distance can be set according to the RFID reader installed in different positions of the e-bike to meet the requirements of accurate parking.
OTA upgrade	The device can be upgraded remotely.

Installation instructions:

1. Installation instructions about the RFID reader:

The RFID reader needs to be installed on the e-bike. Each e-bike need to be equipped with an RFID reader. The RFID reader is connected to the smart IOT device. The installation location is generally under the e-bike's pedals. The antenna needs to be facing the ground, and there should be no metal shielding directly under it.

2. Installation instructions about the RFID label:

RFID labels can be determined according to the number of the e-bikes can be parked in the parking site, and each location of a e-bike only needs to install an RFID label on the ground directly below the e-bike.