

Product model: CB-CAN18

User's Guide

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

-UWB devices may not be employed for the operation of toys. Operation onboard an aircraft, a ship or a satellite is prohibited. The use of antennas mounted on outdoor structures, e.g., antennas mounted on the outside of a building or on a telephone pole, or any fixed outdoors infrastructure is prohibited.

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Preface

Thank you for choosing and using the UWB key system products produced by our company.

Please read this manual carefully before using this product, so as to clearly understand the use and operation methods for better enjoyment.

And save it for future use!

Special statement

1. The appearance of the product shown in this manual may differ from the actual product, please refer to the actual product.
2. The screen examples used in this manual may be different from the actual screen, please refer to the actual screen.
3. This manual is only used as a user operation guide, not as a basis for maintenance services. Due to product upgrades and updates or changes in related parameters, we will not notify you in advance, please understand!
4. This manual is the copyright of the company. Without permission, any unit or individual is not allowed to use part or all of the content of this manual for commercial purposes.
5. The company has the final interpretation right of this manual.

1. Before using the system

1.1 Important Safety Information

Before using the UWB key system, please read carefully and fully understand the following safety information:

Do not install or repair this system yourself. Installing or servicing this system by persons not trained in electrical equipment and automotive accessories could be dangerous and could expose you to electric shock or other hazards.

1.2 Safety statement

For the personal safety of you and others, please do not do related operations while driving a car. If an accident occurs, it has nothing to do with our company.

1.3 Precautions before using the system

1.This product is suitable for vehicle 12V power supply system (grounding wire is required). Do not install the machine directly on a 24V truck or bus, otherwise it will damage the machine. To prevent short circuit, be sure to turn off the car and disconnect the ACC connection before installation.

2.Do not place this product in a humid environment or in water to avoid electric shock, unnecessary damage and fire caused by short circuit.

When using this product, the vehicle speed is required to be less than

2km/h.

3. Please ensure that the battery power is above 40% when using this system.

4. To prevent accidents and to avoid violating applicable laws, do not operate this system while driving.

5. If the product does not work properly, please consult the customer service department of our company.

1.4 The following dangerous installation methods are prohibited

1. When the vehicle stops suddenly, the driver or passengers may be injured.
2. It may hinder the driver's operation of the vehicle, such as the floor in front of the driver's front seat or close to the steering wheel and gear lever.
3. When using screws, please ensure that they are not in contact with any live leads. Vibration has the potential to damage wires or insulation and cause a short circuit or other damage to the vehicle.
4. Please make sure that all lead wires will not be caught by the sliding mechanism of the door or seat, so as not to cause a short circuit.
5. It is forbidden to install this product in or near the position that affects the deployment of vehicle airbags. Refer to your vehicle owner's manual for the air bag deployment zones.
6. After the installation is completed, confirm whether other equipment of the vehicle is correct.

1.5 Prevent Electromagnetic Interference

To avoid electromagnetic interference, please keep the following components as far away as possible from this product, other cables or leads. Such as radio antenna, GPS, CMMB antenna and its leads. And you should also route each lead as far away from each other as possible. Do not bundle or cross leads. Otherwise, the above electromagnetic interference will increase the possibility of display errors.

2. Function description

The UWB key system is connected with the smart phone, realizes the relevant distance measurement and positioning functions through UWB, realizes the precise identification of the position of the smart phone, and opens the corresponding key function through the position, and the functions include: unlocking, locking, welcoming, starting and other functions

2.1 Basic Specifications

- 1) Normal working electrical range: 8V~18V
- 2) CAN bus working voltage: 6V~26V
- 3) Working temperature: -40℃~+85℃
- 4) Storage temperature: -40℃~+95℃
- 5) Standby current: <200μA (test voltage 15.6V)

2.2 Supported models

This Bluetooth key supports Xiaomi, vivo, oppo, Huawei, Apple and other current mainstream brand models.

2.3 Usage Scenarios

- 1.The car owner walks to the vehicle welcome area with the mobile phone key/physical key, and the whole vehicle realizes the welcome function; approaches the vehicle unlocking area, and realizes the unlocking of the whole vehicle; in the passive entry area, triggers the handle sensor to realize unlocking and atresia**

2. When the mobile phone/physical key is out of power, the owner walks to the side of the vehicle and uses the key to swipe the handle position, and the whole vehicle can be unlocked and locked.

2.4 Function list

Primary function	Secondary function	Functional description
Key unlock	UWB key activation	Meet CCC2.0/3.0, ICCE, ICCOA, custom process, support Xiaomi, vivo, oppo, Huawei, Apple and other mobile phones, support production line activation, and also support mobile APP online activation
Key use	Quick connection	UWB connects and authenticates within 1.5 seconds
	Close to welcome	Close to the welcome area of the vehicle (can be calibrated, the accuracy is within $\pm 50\text{cm}$), to realize the welcome function
	Close to unlock	Close to the automatic unlocking area of the vehicle (can be calibrated, the accuracy is within $\pm 30\text{cm}$), to realize the automatic unlocking function
	Passive unlock	Enter the PE area of the vehicle (can be calibrated) to realize the passive unlocking function
	Leave the lock	Leaving a certain area of the vehicle (can be calibrated, the accuracy is within $\pm 50\text{cm}$), to realize the automatic locking function
	Passive locking	Enter the PE area of the vehicle (can be calibrated) to realize the passive locking function
	Remote control function	Unlocking, locking, car search, tailgate, charging gun, alarm, remote start, etc.

2.5 OTA upgrade

The OTA upgrade of the module terminal itself can be performed remotely.