

Product Introduction:

LD220-KeyFOB-1 is a secure and intelligent physical key that enables smart vehicle control by interacting with the vehicle's sensors via wireless communication methods such as BLE, UWB, and NFC. Leveraging BLE's low-power long-range communication and UWB's centimeter-level high-precision ranging and positioning capabilities, KeyFOB delivers convenient features like keyless entry and start, remote vehicle control, and personalized vehicle settings for a comfortable driving experience. The key's passive NFC card functionality allows users to unlock doors and start the vehicle via NFC mode even when the key's battery is depleted. Built with a high-security, highly reliable automotive-grade Secure Element (SE) chip, KeyFOB ensures secure communication between the key and the vehicle.

KeyFOB pursues the ultimate seamless experience, automatically completing all authentication processes (including key unlocking) without the user even noticing, significantly enhancing convenience. This innovation securely ushers in a new era of intelligent mobility.

KeyFOB Product Features:

- ✓ High-precision UWB positioning
- ✓ Relay attack prevention
- ✓ Hardware SE-based encryption/decryption support
- ✓ Ultra-low power consumption
- ✓ Compliance with IATF 16949, APQP, PPAP, and other quality management process requirement
- ✓ Passive NFC card functionality
- ✓ BLE 5.2 standard support
- ✓ PEPS (Passive Entry Passive Start) support
- ✓ FOTA (Firmware Over-The-Air) software upgrade support

版本: V1.0

Product Parameters:

Processor	UWB: NCJ29D5D BLE: CC2642R2	Operating Voltage	3V
Communication	IEEE 802.14.4z UWB PHY BLE 5.2 NFC	Operating Humidity	5%~95%RH
Frequency Band	UWB: 6-8.5GHz BLE: 2.402-2.48GHz	Operating Temperature	-20~+60°C
Broadcast frequency	1000ms	Power Consumption	sleep current: <5uA

Application Scenarios:

- ✓ Remote control function
(Straight-In/Straight-Out, SISO)
- ✓ NFC
- ✓ Seamless unlock/lock
- ✓ Proactive welcome



版本: V1.0

EU Declaration of Conformity:

Hereby, [Hubei Linksci Technology Co., Ltd.] declares that the radio equipment type [LD220-KeyFOB-1] is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: www.xxx.com/xxx/cer/index.html

Radio	Frequency	Max. EIRP
BLE	2.402-2.48GHz	5.9dBm
UWB	6-8.5GHz	-1.34dBm/50MHz
NFC RX	13.56MHz	-

- Keep the device away from sources of heat and fire, such as a heater, microwave oven, stove, water heater, radiator, or candle.
- The approved key fob battery is Panasonic CR2450. Using an unapproved or incompatible battery may cause fire, explosion or other hazards.
- Keep the battery away from excessive heat and direct sunlight. Do not place it on or in heating devices, such as microwave ovens, stoves, or radiators. Batteries may explode if overheated.
- Dispose of used batteries in accordance with local regulations. Improper battery use may lead to fire, explosion, or other hazards.
- This product contains a coin / button cell battery. If the coin / button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
- Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
- Only for vehicle products.
- Operating temperature: -20~+60℃

FCC Statement:

The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device has also been tested against this SAR limit.

This device complies with part 15 of the FCC rules and RSS-247 of Industry Canada. 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.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.