



UHF Solution for RFID library management

For library management, can use UHF technical, it not only can check inventory, also can make books anti-theft management.

The whole management system include 6 steps as below:

- Step1: Use UHF USB writer to program book data to tags, and also make authorization for the tags to the library management system.
- Step2: Stick those tags on books, and put books on shelf.
- Step3: For inventory checking, can use UHF android handheld reader to scan.
- Step4: Put one UHF desktop reader on the "check in service table", when somebody need borrow books from library, take books there to remove tag EAS.
- Step5: Install uhf gate reader at the library gate, if somebody take away the books and forgot to remove tag EAS, when pass gate will alarm, if removed tag EAS, then can pass the gate without any response.
- Step6: When somebody return the books, also take to the "check in service table", use the reader to active tag EAS, then library staff will put the books back to relative shelf.



Follow are specific products list:



UHF USB desktop reader/writer

Frequency: 865~868MHz (EU)
902~928MHz (US)
Protocol: ISO18000-6B/6C (EPC GEN2)
Work mode: read only or read/write
Read distance: 1~20cm
Size: 104*68*10mm
Interface: USB



UHF library tag

Frequency: 860~960MHz
Protocol: ISO18000-6C
Chip type: Impinj R6/NXP U8
Material: PET
Size: 7*124mm



RFID Android handheld reader

Operating system: Android 7.0
Memory: RAM 2Gb/ROM 16Gb
Screen: 5.0 IPS, 720*1280
Battery: 8100mAh
Size: 170*85*23±2mm
RFID: UHF
Support: WIFI, Bluetooth/4G (or GPRS), GPS, Camera



UHF desktop reader/writer

Frequency: 865~868MHz (EU)
902~928MHz (US)
Protocol: ISO18000-6B/6C (EPC GEN2)
Work mode: read & write
Read distance: 0~3m
Size: 330*240*18mm
Interface: RS232/WG26/RS485 or USB



CF-RU5113 UHF High Performance Gate

Frequency: UHF
Protocol: ISO18000-6C
Read range: 1.2meter
Interface: RS232/TCP/IP
With anti-collision and EAS function



SCENE APPLICATION



RFID Unmanned Supermarket Management

This application features a central image of a supermarket aisle with produce. Surrounding it are icons for various RFID components: a yellow antenna, a black antenna, a roll of white tape, and a blue antenna.




RFID Vehicle Tracking Management

This application features a central image of a car at a toll booth. Surrounding it are icons for various RFID components: two white antennas, a black antenna with a logo, and a roll of white tape.



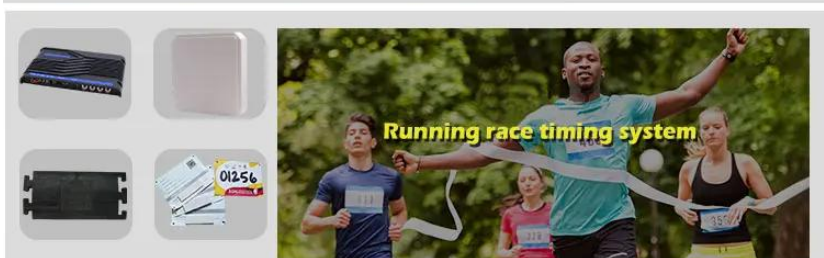
Trash Can management system

This application features a central image of a yellow autonomous refuse truck. Surrounding it are icons for various RFID components: a white antenna, a white antenna, a black antenna, and a green antenna.



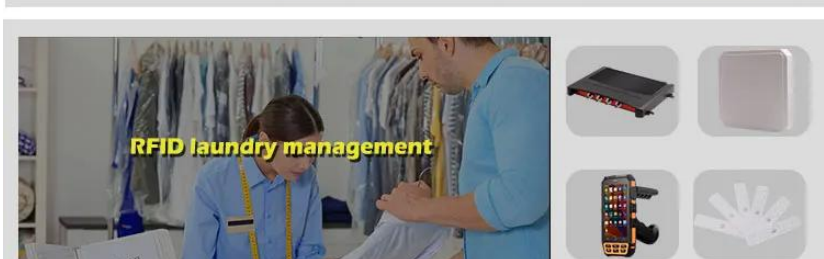
RFID books management

This application features a central image of a library. Surrounding it are icons for various RFID components: a black antenna, a handheld device, a white antenna, and a roll of white tape.



Running race timing system

This application features a central image of runners at a race. Surrounding it are icons for various RFID components: a black antenna, a white antenna, a handheld device, and a roll of white tape.



RFID laundry management

This application features a central image of a laundry worker. Surrounding it are icons for various RFID components: a black antenna, a white antenna, a handheld device, and a white antenna.



RFID Warehouse Inventory Management

This application features a central image of a warehouse with a forklift. Surrounding it are icons for various RFID components: a black antenna, a monitor displaying a grid, a white antenna, and a roll of white tape.

