

## C200 Wireless Contactless Reader



### 1. RFID Function

- This product utilizes a wireless reading method and supports electronic tags in formats like FDX-B and EMID (ISO11784/85).
- It features a storage capacity of 2M, with real-time data upload to a computer via USB.
- The device also supports Bluetooth functionality, allowing data transfer through connections with phones or other devices (Bluetooth HID keyboard emulation, Bluetooth SPP, and Bluetooth BLE serial communication available as options).

### 2. Bluetooth Wireless Connection

- **Bluetooth Version:** Bluetooth 4.2
- **Range:** Up to 30 meters, depending on environmental factors, with range limitations typically due to the host device (phone, tablet, etc.).
- **Modes:** Bluetooth HID, Bluetooth SPP, Bluetooth BLE
- **Carrier Frequency:** 134.2, 125KHz
- **Tag Formats:** FDX-B, EMID (ISO11784/85)
- **Reading Distance:**
  - 12\*12mm chip: > 8cm
  - 30mm diameter ear tag: > 20cm
  - EMID card: > 5cm
- **Standard:** ISO11784/85
- **Reading Time:** Less than 100ms

### 3. Operating Environment

- **Operating Temperature:** -20°C to 50°C (powered) / 0°C to 38°C (battery powered)
- **Storage Temperature:** -40°C to 70°C
- **Relative Humidity:** 95% at 60°C (non-condensing)

### 4. Power/Battery

- **Charging Time:** 4-6 hours
- **Battery Capacity:** 1200mAh
- **Battery Type:** Lithium-ion polymer
- **Battery Voltage:** 3.7V

### 5. Physical Characteristics

- **Dimensions:** 124mm x 25mm x 41mm
- **Charging/Data Interface:** Type-C

### 6. Reading Operation

- The default mode is button-activated. Press the button, and the green light turns on, starting the card search. When a card is successfully read or after a timeout (~3s), the green light turns off.

### 7. Data Transmission

- This scanner supports USB keyboard and Bluetooth HID/SPP/BLE transmission modes.
- **Transmission Modes:**
  - **USB Keyboard:** Connect via USB cable. Blue LED is off; red light indicates charging and turns off when fully charged.
  - **BT HID:** When USB is not connected, this is the default mode.
    - Not connected: Blue LED flashes, on for 0.64s in a 2.5s cycle
    - Connected: Blue LED is steady
  - **BT SPP + BLE:** When USB is not connected.
    - Not connected: Blue LED flashes, on for 0.16s in a 2.5s cycle
    - Connected: Blue LED is steady
- **Offline Mode:**
  - When neither USB nor Bluetooth is connected, the scanner reads RFID cards, storing the data in its internal memory. Upon successful USB/BT connection, holding the scan button for 5s uploads the stored data, which is then automatically cleared.

## 8. Status Indicators

- **Charging Indicators:**
  - Connected to USB, with switch OFF: No LED indicator, charges at max current.
  - Connected to USB, with switch ON:
    - Scanner is not in sleep mode;
    - Charging: Red light steady
    - Fully charged: Red light off

## 9. Settings Operation

- The scanner settings can be modified manually via button, through Bluetooth commands, or using a Windows tool.
- **Manual Button Operation:**
  - Limited to a few essential settings:
  - **Bluetooth Mode Switching:** Hold Trigger for 8s, after setup sound, release button to switch between BT HID and SPP+BLE.
  - **Bluetooth Re-Pairing:** Hold Trigger for 10s in BT HID mode.
  - **Factory Reset:** Hold Trigger for 15s to reset.
  - **Firmware Update Mode:** Hold Trigger for 10s when connected via USB to enter upgrade mode.
- **Bluetooth Command Operation:**
  - Common parameters can be set through Bluetooth SPP or BLE commands according to the command format.
- **Windows Tool Operation:**
  - Supports wired USB connection and allows for the modification of settings listed in the interface, including most commonly used settings.