

## CK-B1A

## INDUSTRIAL RFID BACKPACK FOR FIELD MAINTENANCE



The CK-B1A Industrial RFID Backpack represents a breakthrough in field maintenance tool management, combining advanced UHF RFID technology with ergonomic wearable design. This intelligent backpack system delivers real-time tool tracking capabilities with industry-leading <2-second inventory scanning performance. Featuring precision RF shielding that maintains accurate detection within a controlled 25cm range, the backpack ensures complete tool accountability while eliminating false readings. With its integrated Bluetooth connectivity for mobile app control and optional 4G/GPS tracking capabilities, this solution is engineered to meet the demanding requirements of field service operations across rail, aviation, and power industries..

- RFID technology 840~960MHz optional, support protocol extension
- One-Button Tool Lock/Unlock with <2s Response
- Exit Auto-Check and Real-Time Missing Tool Alert
- 7-Day Battery Life with 4G/GPS Optional Tracking

## ● Specification

|                                 |                                                                                                               |
|---------------------------------|---------------------------------------------------------------------------------------------------------------|
| Model                           | CK-B1A                                                                                                        |
| <b>  RF SPECIFICATION</b>       |                                                                                                               |
| Identification Method           | UHF                                                                                                           |
| RF Chip                         | Impinj R2000                                                                                                  |
| Frequency Range                 | 840MHz~960MHz adjustable                                                                                      |
| Protocol                        | EPC C1G2, ISO 18000-6B, ISO 18000-6C                                                                          |
| Product Capacity                | 100 pcs (according of item size)                                                                              |
| Communication                   | RS232                                                                                                         |
| Material                        | Multi-layer composite shielding material, waterproof and wear-resistant                                       |
| Function                        | RFID read function, Multiple label identification, Label data filtering, RSSI perception, Quantity statistics |
| <b>  HARDWARE SPECIFICATION</b> |                                                                                                               |
| Charging                        | Type-C, DC 5V/2A                                                                                              |
| Battery capacity                | 10000mAH                                                                                                      |
| Display                         | 0.96 OLED                                                                                                     |
| Communication                   | RJ45 10/100Mbps                                                                                               |
| <b>  BASIC SPECIFICATION</b>    |                                                                                                               |
| Power Supply                    | DC 5V/2A                                                                                                      |
| Working Humidity                | 10%RH~90%RH                                                                                                   |
| Operat Temperature              | 0 °C ~ 60 °C                                                                                                  |
| Size                            | 420mm*310mm*250mm                                                                                             |

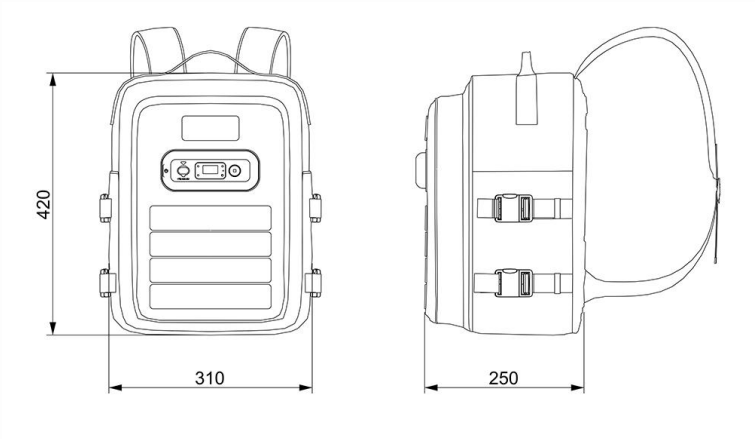
- **Related Model**

CK-B2

- **Common Solution**

Smart Library, Archival Room, Tool Room, Supermarket, etc.

- **Dimension**



Unit : mm (inch)  
Weight. : about 2850g

- **Accessory**

| serial number | name         | units | quantity |
|---------------|--------------|-------|----------|
| 1             | power supply | pcs   | 1        |
|               |              |       |          |
|               |              |       |          |



# RFID IoT Application



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### Headquarters

Cykeo Information Technology CO., LTD.  
16th floor, Building B2, Yunzhi Science Park, Guangming District,  
Shenzhen 518107, China

### Factory

Shenzhen, Dongguang, Hefei

### Subsidiary

Hefei Jianshen InformationTechnology Co.,  
LTD.  
Cykeo Information Technology(Shandong) Co., LTD.  
Cykeo Information Technology(Chengdu) Co., LTD.  
Cykeo Core Information Technology (Shanghai) Co., LTD.