



# iData 50 UHF Detachable High-performance RFID Terminal

## Flexible to meet needs of workers

iData 50 UHF is a detachable high-performance RFID terminal. By adding an RFID reading module, the equipment can obtain powerful RFID reading capabilities. The workers can either attach RFID grip, or just use the smart terminal flexibly based on different operation requirements.

### Powerful detachable RFID grip

With a detachable UHF RFID grip, and a high-sensitivity circularly polarized antenna, iData 50 can read up to 10m distance and the rate can reach up to 700tags/s. This enables iData 50 to work faster in either inventory of apparel store, or goods inbound and outbound management.

### Flexible power supply; Optimized battery life

The main unit comes with a 4000mAh battery, while the grip equipped with a 5200mAh battery. The grip battery can also support charging of main unit. In the case of apparel store management, the device may run out of battery after a whole day concentrating on customer service, however with the help of grip battery, the device can work on inventory non-stop immediately.

### Multiple network to meet different requirements

4G WAN and Wi-Fi network enable workers to enjoy the convenience of mobile operations in different scenarios, such as outdoor inspections, asset management, or indoor inventory, inbound and outbound management.



Inbound and  
outbound  
management



Production  
management



Fixed asset  
management



Public  
management

# 50 UHF Technical Specifications

## System Configuration

Processor	Octa-core 2.0GHz high-performance processor
Operating System	Android 9.0
Memory (ROM+RAM)	16GB + 2GB (standard), 64GB+4GB(optional)
SIM	Single SIM card
Expansion Slot	Micro SD card (up to 256 GB)
Display Screen	4.7-inch, resolution: 1280*720 pixels
Touch Screen	Industrial capacitive screen, support wet-hand operation/glove mode/multi-touch/gesture operation
Camera	8 megapixels rear camera (optional 13 MP), 5 megapixels front camera, support auto-focus (LED fill in light);
Flashlight	800mA flashlight
Keypad	9 keypads in total: front key*4, side scan key *2, power key *1, side custom key *2
Battery	Main unit : 3.85V lithium battery, with 4000mAh, detachable Pistol grip: 3.6V lithium battery, with 5200mAh, undetachable
Audio	Built-in microphone
Charging Method	Type-C and Pin-port charging, support 24W fast charging
Reminder	Vibration reminder/LED reminder/Audio reminder
Vibrating Motor	Built-in vibrating motor
Sensors	G-sensor/Proximity sensor/Light sensor
Intercom Function (optional)	Support one-button PTT calls

## Structure Parameter

Dimension (L*W*D)	PDA + Pistol grip: 175mm*89mm*165mm; Pistol grip is detachable
Weight	PDA (with battery)+ Pistol grip(with RFID): 710g PDA (with battery)+ Pistol grip(without RFID): 530g

## Environmental Parameter

Working Temperature	-20°C - 60°C *Do not charge under low temperature conditions for the safety concerns
Storage Temperature	-40°C - 70°C (without battery )
Humidity	0 - 95% (no moisture condensation)
Drop Specification	Multiple drops to concrete floor from the height of 1.5m
Ingress Protection	IP65
ESD Protection	±15KV (air discharge), ±8KV (contact discharge)

## Communication Interface

USB Interface	Type-C (with headset function) *1
OTG Interface	Support
PIN Interface	Pin port (on the back of main unit)*1

## Scanning Engine

Barcode Type	It can scan one-dimensional / two-dimensional barcodes
Scanning Accuracy	≥3.33mil
Scanning Angle	Pitch: ±60°; Skew: ±45°; Tilt: 360°
View Angle	Horizontal: 44.3°, Vertical: 28.4°, Diagonal: 51°
Motion Error Tolerance	8m/s

## Communication Transmission

WWAN (Network Frequency)	China & Eurasian version: 2G: B2/B3/B5/B8 3G: WCDMA: B1/B5/B8, CDMA&EVDO: BC0, TD-SCDMA: B34/B39 4G: FDD-LTE: B1/B3/B5/B7/B8/B20, TDD-LTE: B34/B38/B39/B40/B41 American version: 2G: B2/B3/B5 3G: B1/B2/B4/B5, CDMA&EVDO: BC0/BC1 (U.S.) 4G: B1/B2/B3/B4/B5/B7/B12/B17/B28A/B28B/B41
WWAN (Data Service)	GSM/GPRS/EDGE/CDMA/UMTS/HSPA/HSPA+/EVDO /WCDMA/TD-SCDMA/TDD-LTE/FDD-LTE
WLAN Function	Wi-Fi 802.11ac/a/b/g/n/r (2.4G + 5G dual-band Wi-Fi) support Wi-Fi 5G PA amplifier
Bluetooth	Bluetooth 5.0
GPS	GPS/AGPS/BDS/Galileo/GLONASS

## UHF RFID

Communication Protocol	ISO18000-6B/6C/6D
Frequency	920MHz~925MHz/902MHz~928MHz/865MHz~868MHz
Output Power	5~30dBm
Antenna	Circularly polarized antenna
Reading Distance	Up to 10m
Reading Rate	Up to 700tags/s

## NFC (Optional)

Working Frequency	13.56 MHz
Reading Distance	Within 30 mm
Communication Protocol	ISO14443A/14443B/15693

## Development Support

Programming Language	Java
Development API	iScan API (Scanning Development Kits), Device API (Device Management/Configuration Development Kits), Android Standard Interface
Development Tool	Eclipse/Android Studio

## Accessories

Standard Accessories	USB cable*1, power adapter*1, battery*1
Optional Accessories	3-in-1 charging cradle, protective film

Each product comes with a pack of practical and cost-effective accessories

## USB Cable

Type-C to USB cable, 1m in length, support charging and data transmission



CHA-USBC-GNR

## Battery

4000mAh, detachable design

ps: every product comes with 1 unit, you can purchase extra unit



CHA-BTRY-50 UHF-4000MA

## Power Adapter

Input voltage 100-240V, output 5V2A. Support plug types of China/Europe/UK/US/Australia, match with CHA-USBC-GNR

ps: you may have one of the power adapters



CHA-PWAD-GNR-5V2A-CN



CHA-PWAD-GNR-5V2A-EU



CHA-PWAD-GNR-5V2A-UK



CHA-PWAD-GNR-5V2A-US



CHA-PWAD-GNR-5V2A-AU

# 50 UHF Optional Accessories for Charging

Improve management efficiency of devices and operational level of enterprises

## 3-in-1 Charging Cradle

Support charging for 3 different ways: main unit, pistol grip, main unit + pistol grip



CHA-BTC31-50 UHF

### Improve device portability and comfort for users, boost working efficiency

#### Q5000

Detachable RFID pistol grip. Equipped with 5200mAh, it can support main unit charging, Execute barcode and RFID scanning by pressing the grip trigger. Only those main units with pin port on the back are compatible



MNT-PG-50 UHF

### Lower risks of malfunction during usage, extend lifespan of devices

#### Protective Film

Protective film for touchscreen. It can protect the screen from cracking or being scratched in case there's any accidental drops or impact during usage



PRT-PTF-50

The information of iData products and software service may be subject to change without notice. Please contact your iData sales representative for the latest details.



Official Website

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