



# iData T1 UHF

Professional RFID Terminal with Pistol Grip

## Meeting the Comprehensive Needs of Enterprise Operations and Costs

The iData T1 UHF is a professional RFID terminal with pistol grip that stands out for its lightweight design among similar models. It offers enterprise-level protection and durability, along with impressive overall configuration, fulfilling enterprise operational requirements while also providing a cost-effective procurement option. It is suitable for various scenarios and applications, including warehouse management, retail apparel stores, and fixed asset management, effectively meeting the comprehensive needs of businesses in terms of operations and costs.

### Powerful RFID Capability for Diverse Operational Requirements

With a tag reading rate exceeding 700 tags per second and a maximum reading distance of up to 25 meters, iData T1 UHF can easily handle large-scale inventory tasks in retail apparel stores or fixed asset positioning tasks.

### Enterprise-Level Protection and Durability for Stable Operation

The device boasts robust sealing and drop resistance, effectively preventing accidental shutdowns during operations. With a total battery capacity of up to 11,700mAh, the device can sustain two full work shifts. The hot-swappable design allows battery replacement without rebooting the device, ensuring continuous operation.

### Dynamic Duty Cycle Algorithm for Optimized Efficiency

The dynamic duty cycle algorithm periodically estimates the number of tags in the surrounding environment, dynamically adjusting the operation time of the RFID module to extend the device's battery life and prolong the module's lifespan.



Warehouse Management



Retail Apparel Store Management



Fixed Asset Management



Public Administration

# T1 UHF Technical Specifications

## System Configuration

Processor	Octa-core 2.0GHz high-performance processor
Operating System	Android 14.0 (GMS)
Memory (ROM+RAM)	64GB + 4GB (standard)
SIM	Select two out of three available SIM card slots, support dual SIM and dual standby * two cards can be inserted at the same time, Nano SIM card + Nano SIM card /Nano SIM card +TF card
Expansion Slot	Micro SD card (up to 256 GB)
Display Screen	5.5-inch, resolution: 1440*720 pixels
Touch Screen	Industrial capacitive screen, support wet-hand operation/glove mode/multi-touch/gesture operation
Camera	13MP top camera, support auto-focus/PDAF, 5MP front camera;
Flashlight	800mA flashlight
Keypad	7 keypads in total: scan key *2, power key *1, volume key*2, pistol trigger *1, custom key*1
Battery	Pistol grip: 3.7V lithium battery, with 6700mAh, detachable Host: 3.8V lithium battery, with 5000mAh (optional) Standard: GB31241-2022
Audio	Built-in microphone (noise-canceling mic)
Charging Method	Type-C and Pin-port charging, support 18W fast charging
Reminder	Vibration reminder/LED reminder/high power speaker/Audio reminder
Vibrating Motor	Built-in vibrating motor
Sensors	G-sensor/Proximity sensor/Light sensor/Geomagnetic sensor/Gyroscope
Intercom Function (optional)	Support one-button PTT calls

## Structure Parameter

Dimension (L*W*D)	157mm*74mm*15.6mm
Weight	505g (battery excluded)

## 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 (battery excluded)
Humidity	0 - 95% (no moisture condensation)
Drop Specification	Multiple drops to concrete floor from the height of 1.5m
Roller Drop Specification	1000 times of roller drops from a height of 0.5 meter
Ingress Protection	IP67
ESD Protection	±15KV (air discharge), ±8KV (contact discharge)

## Communication Interface

USB Interface	Type-C (with headset function) *1
OTG Interface	Support

## 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)	2G: B2/B3/B5/B8 3G: WCDMA: B1/B2/B4/B5/B8 4G: B1/B2/B3/B4/B5/B7/B8/B12/B17/B19/B20/B28A/B28B/B34/B38/B39/B40/B41
WWAN (Data Service)	GSM/GPRS/EDGE/UMTS/HSPA/HSPA+/WCDMA/TDD-LTE/FDD-LTE
WLAN Function	Wi-Fi 802.11a/b/g/n/r/ac (2.4G+5G dual-band Wi-Fi), support fast roaming, Wi-fi 5G PA amplifier
Bluetooth	Bluetooth 5.0 BLE
GPS	GPS/AGPS/BDS/Galileo/GLONASS

## UHF RFID

Communication Protocol	ISO18000-6C/EPC Class1 Gen2 V2
Frequency	920-925MHz / 902-928MHz / 865-868MHz
Output Power	1W (30dBm, +5dBm to +30dBm adjustable) 2W Optional (33dBm, for Latin America, etc.)
Antenna	5dBi circularly polarized antenna
Reading Distance	Up to 30m ((Size 85 x 54mm, NXP UCODE9 white label in an open environment, power 2W pull-distance test, specific details are subject to actual environment test))
Reading Rate	Up to 700tags/s

## NFC (optional)

Frequency	13.56MHz
Reading distance	Within 50mm
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
Optional Accessories	2-in-1 charging cradle, 2-slot battery charging cradle, multifunctional 5-slot cradle, hand strap

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

## WUXI IDATA TECHNOLOGY COMPANY LTD.

Address: Floor 11, Building B1, Wuxi (Binhu) National Sensing Information Center,  
No.999 Gaolang East Road, Wuxi City, Jiangsu Province, P.R.C.

E-mail: sales@idataglobal.com

Website: www.idataglobal.com

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

## Hand strap

Wear on your wrist to carry the device, avoid accidental drops, and assure the safety of equipment



MNT-HS-GNR

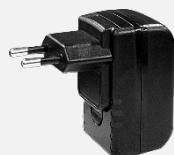
## Power Adapter

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

ps: select one out of the available 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

## Battery

6700mAh, detachable pistol grip battery, equipped with one unit.

ps: additional unit is available for purchase



CHA-BTRY-T2 UHF-6700MA

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## Improve management efficiency of devices and operational level of enterprises

### Battery

6700mAh, detachable pistol grip battery, equipped with one unit.

ps: additional unit is available for purchase



CHA-BTRY-T2 UHF-6700MA

### Multifunctional 5-slot cradle

support maximum connection for 5 units of 2-in-1 bottom chargers or 4-slot battery charging cradle, available power adapter types are: China/Europe/UK/US/Australia

PS: select one out of the available power adapters



CHA-MCRD5S-GNR

### 2-in-1 charging cradle

support maximum charging of 1 main units and 1 battery at the same time. Support connection to multifunctional 5-slot cradle.

Available power adapter types: China/Europe/UK/US/Australia

ps: select one out of the available power adapters



CHA-BTC21-T1 UHF

### 2-slot battery charging cradle

support maximum charging of 2 pistol batteries at the same time. Available power adapter types:

China/Europe/UK/US/Australia

ps: select one out of the available power adapters



CHA-CRD2B-T2 UHF

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