iData 50 UHF

High performance; durable & long-lasting

Ultra-long distance, super-fast group reading, powerful scanning

High-performance UHF read-write module, with high-sensitivityantenna, 10m maximum read-write distance, label reading rate ≥200tags/s;
Powerful barcode scanning enables 50% decoding speed increase; AI smart dimming & power saving mode;
Adaptive DOF(depth of field) + wider reading range.

Long-lasting battery

Rechargeable dual-batteries system, UHF maximum power output, continuous working time>3.5 hours. It could scan continuously for more than 12 hours with a scanner, which could ensure the device working for an entire day.

Upgraded configurations

Android 9.0 OS+Octa-core 2.0 GHz CPU+supports up to 6GB RAM+128GB ROM, quick responding to multi-task processing, remarkable operating experience;
Wi-Fi a/b/g/n/r/ac protocol + high-performance 5G PA amplifier. Wi-Fi is fast-roaming, stable connection, and high performance for anysituation;
Bluetooth 5.0 connection, faster and more stable, lower

Easier to use, lighter & flexible

4.7-inch screen, the perfect size for one-handed operation; Ultra HD screen of 1280*720 resolution;
The touch screen uses an industrial-grade ultra-sensitive capacitivescreen, which supports touch control with gloves, wet and dry hands;
Flexible knock-down and assemble structure. It's optional to purchase engines, scanner, or modules separately.

Main application areas

| Apparel | Retailing | Manufacturing | Transportation | Ticketing | Inspection | Jewelry |

FC (((CE RoHS

System configuration

Processor	Octa-core 2.0 GHz
Operating system	Android 9.0
Memory (ROM+RAM)	16 GB +2 GB（Standard）,64 GB +4 GB（optional）
SIM	Single SIM card
Expansion slot	Micro SD card, up to 256 GB
Display screen	4.7 inch, 1280 x 720 high resolution
Touch screen	Industrial capacitive screen, supporting wet hand operation /multi-touch + gesture operation
Camera	8 MP autofocus camera in the back side (13 MP optional), LED flash
Flashlight	800mA flashlight
Keyboard	9 keys in total, front key*4, side scan key*2, side custom key*2, side power key*1
Battery	Host: Lithium battery 3.85V power supply, 4000mAh, detachable Handle: Lithium battery 3.6V power supply, 5200mAh, non-removable *Executive standard: GB31241-2014
Audio	Built-in microphone
Charging	Type-C charging and pin port charging, support 24W fast charge
Prompts	Vibrator alerts/LED/Audio notification
Vibrating motor	Built-in programmable vibration motor
Sensor	G-Sensor/Proximity sensor/Light sensor

Structure parameters

Dimension (L*W*D)	PDA + pistol grip：175mm * 89mm * 165mm
Weight	PDA (include battery) + pistol grip (with RFID) 710g PDA (include battery) + pistol grip (without RFID) 530g

Communication transmission

Wireless wide area network (Network frequency)	Asia & Europe： 2G：B2/B3/B5/B8 3G：WCDMA：B1/B2/B5/B8 CDMA BC0 TD-SCDMA:B34/B39 4G：FDD-LTE：B1/B3/B7/B8/B20 TDD-LTE：B34/B38/B39/B40/B41 America： 2G: B2/B3/B5 3G: B1/B2/B4/B5; CDMA BC0/BC1 (U.S.A) 4G: B1/B2/B3/B4/B5/B7/B12/B17/B28A/B28B/B41
Wireless wide area network (Data service)	GSM/GPRS/EDGE/CDMA/UMTS/HSPA/HSPA+/EVDO/WCDMA /TD-SCDMA/TDD-LTE/FDD-LTE
WLAN	Wi-Fi 802.11a/b/g/n/ac/r/d/e/h/i/j/k/v (2.4G+5G dual-band Wi-Fi)，fast roaming ,Wi-Fi 5G PA
Bluetooth	Bluetooth 5.0
GPS	GPS/AGPS/Beidou Compass/Galileo/Glonass

Operating environment

Working temperature	-20°C~60°C *For your safety, please do not charge in a low temperature environment
Storage temperature	-40°C~60°C (Without battery)
Humidity	0%～95% (no condensation)
Drop specification	1.5m concrete floor drop
Protection level	IP65
Electrostatic protection	±15KV (air discharge), ±8KV (contact discharge)

NFC (Optional)

Frequency	13.56MHz
Reading distance	Within 30mm
Communication protocol	ISO14443A/14443B/15693

Scan engine

Barcode	Support 1D/2D scanning engine
Scanning accuracy	≥3.33mil
Scanning angle	Tilt ±60°; deflection ±60°; rotation 360°
Angular Field of View	Horizontal: 44.3°; Vertical: 28.4°; Diagonal: 51°
Motion tolerance	8m/s

UHF RFID

Protocol	ISO18000-6B/6C/6D
working frequency	920MHz~925MHz/902MHz~928MHz/865MHz~868MHz
Power output	5~30dBm
Antenna	Circular polarization antenna
Reading distance	Up to 10m
Reading rate	Up to 700tags/s

Input/output interface

USB interface	Type-C (with earphone function) *1
PIN interface	Pin interface (back of device) *1
OTG interface	Supporting

Development support

Development language	Java
API	iScan API (Scan Development Kit), Device API (Device Management/Configuration Development Kit), Android standard interface
Development tool	Eclipse/Android Studio

Accessories

Standard accessories	Battery*1, Power adapter*1, 3 in 1 cradle*1, USB cable*1
Optional accessories	Handle debug cable

RFID series——50 UHF