iData50P UHF Mobile Computer

Powerful and durable

➢ **Max reading distance≥10m, multi-tag reading≥200tags/s, powerful scanning**

• Equipped with high performance UHF read/write module and high sensitive antenna, read/write distance can be up to 10M, tag recognized ratio ≥200ags/s;

• Equipped with the most powerful barcode scanning engine in the industry: code scanning speed increased by 50%; AI intelligent dimming & power saving mode; far and near depth of field adaptation + wider reading range.

➢ **Large battery & long endurance**

• Chargeable dual battery system: UHF reading, maximum power output continuous working time> 3.5 hours, PDA internal battery with grip battery, can work for more than 12 hours with grip battery on, make sure all weather working normally.

➢ **Comprehensive upgrade**

• Android 9.0 OS + Octa-core CPU + (max)6GB RAM+128GB ROM, makes operation smoother and running speed faster;

• Wi-Fi a/b/g/n/r/ac + High-performance 5G PA amplifier, standard fast roaming, stable connection, Wi-Fi performance is maximized to meet the needs of faster transmission rates in complex environments.

- Upgrade to Bluetooth 5.0 connection, faster and more stable, lower power consumption; support to connect multiple Bluetooth devices at the same time.

➢ **More easily, more portable and more flexible**

- 4.7 inch—perfect size for single hand operation; super high resolution screen, 1280*720 resolution; The touch screen adopts an industrial super sensitive capacitor screen, support operating with gloves, wet/dry hands;

- Flexible dismount/assembly drawing structure. Device, pistol grip, components can be purchased separately.

System configuration

CPU	Octa-core 2.0 GHz
Operating System	Android 9.0
Memory(ROM+RAM)	16 GB +2 GB (optional 128GB+ 6GB/64GB+ 4GB/32GB + 3GB)
Expansion Slot	Micro SD card, up to 256 GB
Display	4.7 inch, 1280 x 720 high resolution
Touch Panel	Industrial-grade capacitive touch panel (supporting operation with gloves)
Camera	8 MP autofocus camera in the back side (13 MP optional), 5MP front camera optional
Exit Window	Corning® Gorilla® glass
Keypad	4 front keys, 4 side keys, Power key (can be set as customized key)
Battery	3600mAh rechargeable lithium polymer battery (PDA) + 3.7V 5200 mAh (pistol grip)
Audio	Built-in microphone /Micro USB/Headphone connector
Notification	Vibrator alerts/LED/Audio notification
Vibration Motor	Built-in programmable vibration motor
Sensor	G-Sensor/Proximity sensor/Light sensor

Structural parameter

Dimensions (LxWxD)	PDA: 150 mm x 73.5 mm x 16 mm (head 24mm thick)
	PDA + handle：175mm x 89mm x 165mm
Weight	PDA（include battery）+ pistol grip（with RFID）710g
	PDA（include battery）+ pistol grip（without RFID）530g

Communication Transmission

Wireless WAN (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 WAN (Data service)	GSM/GPRS/EDGE/CDMA/UMTS/HSPA/HSPA+/EVDO/WCDMA/TD-SCDMA/TDD-LTE/FDD-LTE
Wireless LAN	Wi-Fi 802.11ac/a/b/g/n/r 5G PA (Dual-band Wi-Fi:2.4G+5G)
Bluetooth	Bluetooth 5.0
GPS	GPS/AGPS/Beidou Compass/Galileo/Glonass

Operating environment

Development Tools	Android SDK+JDK+Eclipse
Programming Language	Java
Operating Temp.	-20℃ ~ 60℃ （-4℉ ~140℉）
Storage Temp.	-40℃ ~ 60℃ （-40℉ ~140℉） battery included -40℃ ~ 70℃ （-40℉ ~158℉） battery not included
Relative Humidity	0 ~ 95% （No condensation)
Sealing	IP65
Electrostatic Discharge	±15 kV air discharge, ±8 kV direct discharge

1D Laser Scanner

Scan Precision	5mil
Rotate Angle	±35°
Pitch Angle	±65°
Skew Tolerance	±50°
Ambient Light	Sunlight: 10,000ft. Candles (107,640Lux) Artificial: 450ft. Candles (4,844Lux)
Scan Frequency	104±12 times/second
Laser Safety Grade	Class II

Code Support	UPC/EAN, POST, Code 128, Code 39, Code 93, Code 11, Coda bar, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, MSI, RSSI etc.

1D / 2D Area Imager

Scan Precision	3mil c39/128
Rotate Angle	360°
Pitch Angle	±45°
Skew Tolerance	±65°
Scan Frequency	50ms
Laser Safety Grade	Class II
Image Resolution	844(H)×640(V)
Image Frame	60fps
Light Source System	White light, laser aiming
Minimum Printing Contrast	20%
Code Support	Aztec Code , Codabar , Codablock F , Code 11 , Code 128 , Code 2 of 5 , Code 39 , Code 93 , Data Matrix , EAN/JAN-13 , EAN/JAN 8 , EAN-UCC Composite Codes , EAN-UCC Emulation , IATA Code 2 of 5 , Interleaved 2 of 5 , Matrix 2 of 5 , MaxiCode , MicroPDF417 , MSI , PDF417 , Postal Codes (Australian Post , British Post , Canadian Post , China Post , Japanese Post , Korea Post , Netherlands Post , Planet Code , Postnet) , Plessey Code , PosiCode , QR Code , RSS Expanded , RSS Limited , RSS-14 , TCIF Linked Code 39 , Telepen , Trioptic Code , UPC-A , UPC-E etc

RFID (Optional)

Frequency	902MHz-928MHz，865MHz-868MHz（Customize according to required band）
Protocol	ISO18000-6B/6C/6D（According to required band）
Antenna	4dBi circularly polarized antenna
Output power	5-30dbm adjustable
Data Capture Range	10m（depends on labels）

Input/output Ports

USB Port	1 (Micro USB port)
Charger Port	1
OTG	Support

Accessories

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