



蓝畅科技
BLOVEDREAM



R501

UHF Handheld Terminal

5.5-inch HD Screen · UHF RFID Reader · Octa Core Processor



Android



4G



WiFi



Bluetooth



UHF



1D barcode



2D barcode



SIM



NFC



Camera



GPS



Product Specifications

Performance

Octa Core	
CPU	MT6765X Octa core 64-bit 2.3GHz high-performance processor
RAM+ROM	2GB+16GB / 4GB+64GB
Expand memory	Micro SD(TF) Supports up to 256GB
System	Android 10.0/ Android 13.0

Data Communication

WLAN	Dual-band 2.4GHz / 5GHz, Support IEEE 802.11ac/a/b/g/n/d/e/h/i/j/k/r/v protocol
WWAN	2G: GSM (850/900/1800/1900MHz)
	3G: WCDMA (850/900/1900/2100MHz)
	4G: FDD:B1/B3/B4/B7/B8/B12/B20 TDD:B38/B39/B40/B41
Bluetooth	Support Bluetooth 5.0+BLE Transmission distance 5-10 meters
GNSS	Support Gps, Galileo, Glonass, Beidou

Physical Specifications

Dimensions	179mm×74.5mm×150mm (Including the handle)
Weight	<750g (Depends on device function configuration)
Display	5.5 "color display with resolution 720×1440
Screen brightness	>500cd/m2
TP	support multi-touch
Battery capacity	Rechargeable polymer battery 7.6V 4000mAh (Equal to 3.8V 8000mAh) ,removable
	Standby time >350 hours
	Charging time <3H, using standard power adapter and data cable
Expansion Card slot	NANO SIM card x1、TF card x1 (Optional PSAMx2)、POGO Pinx1
Communication interface	Type-C 2.0 USB x 1, supporting OTG function
Speaker volume	>92db (test distance 10cm)
Audio	Speaker (mono), Microphone, Receiver
Main keys	Home key, Delete key, Back key,Confirm key
Side keys	Silicone keys: Power key, Volume +/- key, Handle scan key,Scan key ×2
Sensors	Gravity sensor, light sensor, distance sensor, vibration motor

Data Collection

Barcode Scanning (Optional)	
2D Scanning engine	Honeywell N6703 N5703 N6602-W2
1D Symbolgies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS,etc. Postal Codes:USPS Planet, USPS Postnet, China Post, Korea Post, Australian Postal, Japan Postal, Dutch Postal (KIX), Royal Mail, Canadian Customs,etc.
2D Symbolgies	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode, HanXi,etc.

Camera (Standard)	
Rear camera	13MP pixel HD camera Support auto focus, Flash, Anti-shake, Macro shooting
Front camera	2MP pixel color camera

NFC (Optional)	
Frequency	13.56MHz
Protocol	Support ISO14443A/B, 15693 agreement
Distance	2cm-5cm

UHF(Optional)	
Engine	Nation Rfid N611/Impinj E710 (Either-or)
Frequency(CHN)	920-925MHz
Frequency(USA)	902-928MHz
Frequency(EHR)	865-868MHz (ETSI EN 302 208)
Frequency(Other)	Other multinational frequency standards (can be customized)
Protocol	EPC C1 GEN2/ISO18000-6C
Antenna	Circularly polarized antenna (4.65dBi)
Distance	0-20m
Reading speed	>500 tags per second (circular polarization)

Language/Input Method

Input	English, Pinyin, Five strokes, Handwriting input, Support soft keypad
Language	Language packs in Simplified Chinese, Traditional Chinese, English, Korean, Japanese,Malaysian,etc.

User Environment

Operating temperature	-20℃ - 55℃
Storage temperature	-40℃ - 70℃
Environment humidity	5%RH--95%RH(no condensation)
Drop specification	6 sides supports 1.2 meters drops on the marble within the operating temperature
Rolling test	0.5m rolling for 6 sides, can still work steadily
Sealing	IP65

Accessories

Standard	Adapter, Data cable, Protective film, Instruction manual
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Special Note: Product data is for reference only and subject to change without notice. Model: R501 Update: 2024-12-07



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