万全 VANCH

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UHF RFID Long-distance handheld reader VH-C83

Product Introduction:

VH-C83 is a high-performance UHF smart handheld terminal that integrates powerful UHF RFID functions. It uses a self-developed UHF module based on the Impinj E710 chip and supports Impinj Gen2X, which makes data collection more accurate and faster, and has a wide reading range, with a reading distance of up to 30 meters in an open outdoor environment. It also supports optional barcode functions, uses an eight-core processor, has diverse functions, and is fully configured. In addition, it has a large-capacity battery of up to 8000mAh, which perfectly adapts to the needs of high-intensity data collection applications and is widely used in asset management, clothing inventory, vehicle management, highway toll collection, warehouse management, financial management and other fields.

Features:

- Best-selling classic UHF handheld terminal
- Octa-core 2.3GHz high performance CPU
- 8000mAh large capacity battery
- IP67/1.5m drop resistance, upgraded protection

Product Features:

- Adopts Impinj E710 chip and supports the latest Impinj Gen2X, which continues to bring superb UHF performance
- UHF group reading 1300+ pages/second, long-distance reading up to 30m
- Support optional barcode, NFC and other functional expansions

Specifications:

Purchase code (product model)	VH-C83
Physical parameters	
Overall dimensions	164.2X80X24.3mm
Overall weight	654 g
Display screen	5.2 inches, IPS LTPS 1920X1080 resolution
Touch screen	Corning Gorilla Glass, supports multi-touch, supports gloves or wet hands
Battery capacity	Rechargeable lithium polymer battery 8000 mAh Standby time > 500 hours Working time > 12 hours (depending on usage and network environment) Charging time 3-4 hours (using standard power adapter and data cable)
Expansion Socket	2, 1 Nano SIM card slot, 1 Nano SLM or TF card slot
Communication Interface	USB 2.0 Type-C, OTG, supports Type-C headphones
Audio	1 microphone, 1 speaker; earpiece
Keyboard	4 main keyboards, 1 power button, 2 scanners, 1 multi-function button
Sensor	Light sensor, distance sensor, gravity sensor
Notification	Sound, LED indicator
Performance Parameters	
CPU	Octa-core 2.3GHz
RAM-ROM	3GB+32GB/4GB+64GB/6GB+128GB
Extended memory	MicroSD (TF) card can be expanded to 256GB
Development Environment	
Operating system	Android 11/13
SDK	Terminal Software Development Kit
Voice development	Java

Development tools	Eclipse / Android Studio
Usage Environment	
Operating temperature	-20°C to 50°C
Storage environment	-40°C to 70°C
Ambient humidity	5%RH-95%RH (non-condensing)
Drop test	Within the operating temperature range, all 6 sides can withstand multiple drops from a height of 1.5 meters to the concrete floor
Rolling test	Rolling continuously for 1000 times 0.5 meters, 6 contact surfaces still run stably after rolling, meeting IEC rolling specifications
Protection level	IP67, meets IEC sealing standards
Electrostatic discharge	±15KV air discharge, ±6KV contact discharge
NFC (optional)	
Working frequency	13.56MHz
Protocol standard	ISO14443A/B,ISO15693,NFC-IP1, NFC-IP2, etc.
Tag standard	M1 card (S50, S70), CPU card, NFC tag, etc.
Read and write distance	2-4cm
Note	*This function is optional
Camera	
Camera	13-megapixel color camera with auto focus and flash
Data Communications	
WLAN	Support IEEE802.11 a/b/g/n/ac protocol (2.4G/5G dual-band); built-in antenna
WWAN	2G:GSM850/GSM900/DCS1800/PCS1900 3G:WCDMA: B1/B2/B4/B5/B8 CDMA2000 EVDO: BCO TD-SCDMA:A/F 4G:B1/B2/B3/B4/B5/B7/B8/B12/B17/B20/B28AB28B/B34/B38/B39/B40/B41
Bluetooth	Bluetooth 5.0
GNSS	Integrated GPS, Beidou, GLONASS, built-in antenna, support AGPS

RFID UHF (optional)	
Engine	Based on ImpinjE710 chip
China frequency	920-925MHz
US frequency	902-928MHz
European frequency	865-868MHZ (ETSI EN 302 208)
Other frequencies	Other multinational frequency standards (customizable)
Impinj Gen2X	Support
Protocol standard	EPC C1 GEN2/ISO18000-6C
Antenna parameters	Circularly polarized antenna (4dBi)
power	1W (30dBm, supports +5dBm~+30dBm adjustment) Optional 2W (33dBm, for Latin America, etc.)
Max card reading distance	26m (Impinj MR6 tag, size 70x15mm) 28m (Impinj M750 tag, size 70 x15mm) 30m (Alien H3 anti-metal tag, size 130x42mm)
Note	*The above card reading distance is measured in an open outdoor low-interference environment, and the group reading rate is measured in a laboratory low-interference environment. The actual use is related to the environment and tags.

Barcode Collection	
1D scanning engine	Honeywell N4313
2D scanning engine	Zebra:SE4710/SE4750SR/SE4750MR/SE4750DP;Honeywell: N6603;CM60: CB300
Supports 1D barcode types	UPC/EAN, Code128,Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar MSI.RSS,etc)
Support 2D barcode types	PDF417,MicroPDF417,Composite, RSS, TLC-39, Data matrix,QR code, Micro QR code, Aztec, Maxi Code; Postal Codes: US Post Net, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX)etc.
Note	*This function is optional