



SM-R2 UHF RFID Handheld Terminal

The SM-R2 is a comprehensive model, equipped with a new generation X3M1 chip, offering > 33dBm transmission power and < -86dBm high sensitivity reception. Its RFID performance is significantly enhanced, supporting various protocols such as EPC C1 GEN2/I-SO18000-6C, ISO18000 -6B, and GJB7371-2011(2018), providing broader compatibility.

With a reading distance of up to 25 meters and a batch reading speed of over 800 tags per second, combined with high-performance quad-spiral antennas, it improves reading accuracy and stability, suitable for high-density label identification scenarios. Equipped with a 4000mAh lithium polymer battery for long-lasting operation, meeting the needs of long-term field operations. The ergonomic design ensures comfortable handling for extended use without fatigue.

The SM-R2 Ultra is suitable for warehouse logistics, retail management, asset tracking, industrial manufacturing, and other fields, assisting enterprises in efficient operations.



Product Name	UHF RFID Handheld Terminal
Product Model	SM-R2
Performance	
Octa-core CPU	MT6765X Octa-core 64-bit 2.3GHz high-performance
RAM+ROM	4GB+64GB
Expandable	Micro SD (TF) card expandable up to 256GB
Operating SystemAndroid 13.0	
Data	
WLAN	Dual-band 2.4GHz/5GHz,supports IEEE 802.11 ac/a/b/g/n/d/e/h/i/j/k/r/v protocols
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	Supports Bluetooth 5.0+BLE, transmission distance 5-10
GNSS	Supports GPS, Galileo, Glonass, and Beidou
Physical	UHF RFID Handheld Terminal
Overall Size	179mm x74.5mm x150mm (including handle)
Overall Weight	<750g (depending on device configuration)
Display	5.5-inch, resolution 720×1440
Screen Brightness	500cd/m2
Touch Screen	Supports multi-touch
Battery Capacity	Rechargeable polymer battery 7.6V 4000mAh (equivalent 8000mAh), removable, standby time >350 hours, Charge time <3 hours using standard power adapter and
Expansion Card	NANO SIM card x1, TF card x1 (optional PSAMx2), POGO Pin POGO Pin x1
Communication Type-C 2.0 USB x 1, supports OTG function	
Speaker	>92db (tested at a distance of 10cm)
Audio	Speaker (monophonic), microphone, earpiece
Main Button	Home button, Delete button, Back button, Confirm button
Side Button	Silicone buttons: Power key, Volume +/- key, Scan key x2,
Sensor	Gravity sensor, light sensor, distance sensor, vibration motor
Language/Input	
Input Method	English, Pinyin, Wubi, handwriting input, supports soft
Language	Simplified Chinese, Traditional Chinese, English, Korean, Malaysian, Singaporean language packs, etc.

Data Collection	
Barcode Collection	
2D Scanning	N6602-W2
Support for 1D	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar,
Barcode Types	Postal barcodes: USPS Planet, USPS Postnet,China Post, Korea Post, Australian Postal, Japan Postal, Dutch Postal (KIX), Royal Mail, Canadian Customs, etc.
PDF417, MicroPDF417, Composite, RSS, TLC-39,Datamatrix, QR code, Micro QR code, Aztec, MaxiCode, HanXin, etc.	
Camera	
Rear Camera	13MP high-definition camera
Supports auto-focus, flash, anti-shake, macro photography	
Front Camera	2MP color camera
NFC	
Operating	13.56MHz
Protocol Standard	Supports ISO14443A/B, 15693 protocols, etc.
Read/Write	2cm-5cm
UHF	
Reader chip	3rd Generation UHF reader chip
Op. Frequency	920-925MHz China, 902-928MHz American, 865-868MHz (ETSI EN 302 208) European
Other Multi	Other multi-country frequency standards (customizable)
Protocol Standard Supports protocol: standard EPC C1 GEN2/ISO18000-6C	
Antenna	Circular polarization antenna (4.65dBi)
Operating	Up to 20 meters
Multi-tag Reading500 tags per second (circular polarization)	
Operating	
Working	-20°C to 55°C
Storage	-40°C to 70°C
Ambient Humidity5% to 95%RH (no condensation)	
Drop Specificationcan withstand a 1.2-meter drop to marble from all six sides	
Tumble Test	0.5m continuous rolling, after rolling on six contact surfaces,
Protection RatingIP65	
Accessories	
Standard	Adapter, data cable, protective film, instruction manual

