



HUGEROCK R50 Version:2021

RUGGED DATA COLLECTOR HANDHELD

4.5 Inch T9 Keyboard RFID, NFC, 1D/2D

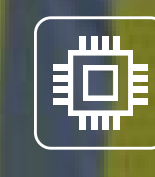
R50 Industrial Rugged Data Collector Handheld is from SOTEN TECH. The product has 4.5-inch QHD screen with 550nit, Sunlight readable, based on a MTK Helio P60 Octa-core processor and 4G communication technology, and 5000 mAh high-capacity replaceable battery. Use Android system with GMS certification and support Safeem EDM system. The product uses high-quality barcode modules, and can be equipped with RFID, NFC, and PDAM security modules. The products can be applied to many application scenarios including Outdoor work, patrol inspection, warehouse inventory, logistics and express delivery, manufacturing, new retail of stores, asset management and so on, which can help enterprises improve their management level.



Google GMS



Mobile Device Management Safeem



Helio P60 A73 12nm FinFET



MIL-810G Drop-proof 2m



T9 keyboard



5000mAh replaceable battery



Rugged and reliable



HUGEROCK-R50
Tools for M-IOT

Shenzhen SOTEN Technology Co., LTD
ADD: 10F, B#2, Pivon Research Building, No. 5158 Shahe West Road, Nanshan, Shenzhen, China 518055
Phone: +86(0755)-61885156 61827963 Fax: +86(0755)-61827963
Web: www.soten.com.cn FAE: fae@soten.com.cn Skype: sales.soten

APPEARANCE



1. Power button
2. Scan button
3. MIC
4. Barcode scanner(optional)
5. Earphone (Sealed Cover)
6. Light sensation
7. Handset
8. Charge lamp
9. Home and confirm Button
10. Arrow and confirm Button
11. Menu Button
12. Back Button
13. Number Button
14. Power ON/OFF
15. * Button
16. # Button
17. 2pin pogo pin
18. Type-C (Sealed Cover)
19. Volume up
20. Volume Down
21. Main camera (optional)
22. Function box(optional)
23. Nameplate
24. Speaker
25. Battery



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SPECIFICATION

Model: R50

Hardware		Communications & Networking	
CPU	ARM Cortex A73 Octa-core (2.0GHz)	Phone Call	GSM /WCDMA/CDMA 1X/VoLTE
GPU	ARM Mali-G72 MP3	2G	GSM/CDMA 1X/EDGE/GPRS/WAP
RAM	4G	2G Band	GSM (B2/3/5/8)
Internal Memory	32G	3G	WCDMA 3.75G (HSDPA+ 42.2Mbps, HSUPA+11.5Mbps), EVDO
External Memory	Micro SD card (T-FLASH card), max 256GB	3G Band	WCDMA (B1/2/5/8), Evdo: BC0/BC1 CDMA: BC0/BC1
Main Camera	13.0MP(AF) with flash led	4G	FDD: 150Mbps down, 50Mbps UP TDD: 150Mbps downlink, 50Mbps uplink
Sub Camera	N/A	4G Band	TD-LTE(B38/39/40/41); FDD LTE (B1/2/3/4/5/7/8/12/17/20/28)
Battery	5000mAh (Replaceable battery)	Wi-Fi	Dual-band WIFI (2.4GHz/5Ghz) single stream 802.11 a/b/g/n/ac
Display	4.5 inch IPS/AFS 540*960 QHD industrial 550nit Sunlight Readable	Bluetooth	5.0 Low Energy(LE)
Touch Panel	Capacitive/frosted tempered film supports glove touch/spray/active capacitive pen	Industrial & Reliability Design	
IO/Sensor/Navigation		Shake-proof	1-19Hz/1.0mm; 19-200Hz/1.0g
SIM Card	1.8/3.3V SIM card	Dropproof /IK	MIL-STD-810G/Method516.6/Procedure IV & Touch Panel IK05
TF Card	Micro SD card(T-FLASH card); max 256GB	Waterproof	Class 5 (IEC 60529)
Headphone	3.5mm (CTIA)	Dustproof	Class 6 (IEC 60529)
Charging interface	Type-C & 2pin pogo pin	Operating temperature	-20°C to 55°C
Data interface	USB Type-C(OTG)*1	Storage Temperature	-40°C to 80°C
Gravity sensor	support	Reliability	MTBF>5000h; MTTR<0.5h
Direction Sensor	support	RH	5%RH-95%
Magnetic Field Sensor	support	Operating Altitude	Max: 4,500m (15,000 feet)
Gyro sensor	support	Certification/OS/Software	
Rotation Vector	support	Certification	3C/FCC/CE/ROHS/IP65 (IEC 60529)
Light-sensor	support	Language	English, Spanish, Portuguese (Brazil), Portuguese (Portugal), Italian, German, Dutch, French, Polish, Romanian, Turkish, Russian, Arabic, Indonesian, Malay, Thai, Vietnamese, Hindi, Hebrew, Simplified, Chinese, Chinese Traditional, etc.
Acceleration sensor	support	OS	Android 10 / Android 11
Motion sensor	support	Package/Warranty terms	
Charger	5.0V 2A-10W	Warranty	24 months
Navigation	GPS+Beidou+Glonass+AGPS+SBAS (EPO 2.5m)	Package	USB cable/Charger 5V 2A/Introduction manual/Screen protector/Packing box/Aircraft box/Toolkit (optional)
Appearance			
Size	197*92*26.5mm (L*W*H)		
Weight	420g		
Color & Material	Black&Gray		



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FUNCTION MODULES

LF RFID data collection		Data Collection	
125K LF ID Module	LF RFID, 125K	Scanning engine	E20 Barcode Module
134 LF RFID Module	LF RFID, 134k Animal module	2D	QR Code, Micro QR, Data Matrix, PDF417, Micro PDF417, Aztec, Maxicode, Hanxin code, Dotcode, Composite.
HF RFID/NFC		1D	Code 128 (ISBT 128, AIM 128, GSI 128), EAN-13, EAN-8, UPC-E, UPC-A, ISBN, ISSN, Code11, Interleaved 2 of 5, Code39, Code93, Code32, Codabar, Matrix 2 of 5, Industrial 25, IATA25, MSI Plessey, GSI DataBar, Plessey, Febraban.
Frequency	13.56MHz		
Protocol standard	ISO14443A/B, ISO15693, NFC		
Label standard	M1(S50, S70), CPU, NFC		
Read-write distance	2-5cm		
UHF RFID			
Air interface protocol	EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C		
Operating spectrum range	902Mhz - 928Mhz 865MHz - 868MHz (Optional)		
Output range	0-26dbm		
Output accuracy	+/- 1dB		
Output power level	+/- 0.2dB ,The label is sensitive and stable.		
Reading distance	≥1.8m (E41 tag)		

PRODUCT CONFIGURATION

Order number	Module							recommend
	Barcode module	RFID module						
	E20 Barcode Module	125K LF	134K LF	HF&LF dual frequency ID/IC card read-only module	13.56M HF multi-protocol module	UHF module (M500+Ceramic antenna)	NFC module	
R5012	●		●					*
R5015	●					●		*
R5016	●						●	*
R5010	●							
R5014	●				●			
R5001		●						
R5002			●					
R5003				●				
R5004					●			
R5005						●		
R5006							●	
R5011	●	●						
R5013	●			●				



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