



HUGEROCK S50

RUGGED PDA

4.5 Inch T9 Keyboard Mobile Handheld

S50 intelligent terminal is ideal for highly mobile outdoor and field workers in markets like logistics, construction, mine, military, field sales and the public sector. It meets MIL-STD-810G and IP67 standards for durability and protection against dirt, dust, water, motion, vibration, temperature and other factors that would quickly damage an industrial-grade handheld device. It can withstand up to a 1.8m drop and 2 ton shock pressure test. It also comes with a suite of integrated features, including an UHF RFID, 1D/2D barcode scanner, NFC. Also it goes with a long-life 5000mAh/10000mAh battery sunlight-readable, and operating under extreme low temperature.



All-mode
Full Bands



5000mAh/10000mAh
Replaceable Battery



1.8m
Drop-proof



13MP
Camera



T9
keyboard



GNSS
GPS+Beidou+Glonass
+AGPS+SBAS



HUGEROCK-S50
tools for industrial

Shenzhen SOTEN Technology Co., LTD

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APPEARANCE



SPECIFICATION

Model : S50

Hardware		Communications & Networking	
CPU	ARM Cortex A73 octa-core (2.0GHz)	Phone Call	GSM /WCDMA/VoLTE
GPU	ARM Mali-G72 MP3	2G	GSM/EDGE/GPRS/WAP
RAM	6GB	2G Band	GSM (B2/3/5/8)
Internal Memory	64GB	3G	WCDMA 3.75G (HSDPA+42.2Mbps, HSUPA+11.5Mbps)
External Memory	Micro SD card (T-FLASH card), Max 1TB	3G Band	WCDMA(B1/2/5/8)
Main Camera	13.0MP(AF) with flash led	4G	FDD: 150Mbps down, 50Mbps UP TDD: 150Mbps , 50Mbps up
Sub Camera	N/A	4G Band	TD-LTE (B38/39/40/41); FDD LTE (B1,B2,B3,B4,B5,B7,B8,B12,B17,B20,B28)
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/AFFS 540*960 QHD industrial 500nits	BT	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 1TB	Waterproof	Class 7 (IEC 60529)
Headphone	3.5mm (CTIA)	Dustproof	Class 6 (IEC 60529)
Charging interface	Type-C & 2pin pogo pin	Reliability	MTBF>5000h; MTTR<0.5h
Data interface	USB Type-C (OTG)*1	Operating temperature	-20°C to 55°C
Gravity sensor	support	Storage Temperature	-40°C to 80°C
Magnetic Field Sensor	support	RH	5% to 95% (95%RH, non-condensing)
Motion sensor	support	Operating Altitude	Max: 4,500m (15,000 feet)
Gyroscope sensor	support	Certification/OS/Software	
Light-sensor	support	Certification	3C/FCC/CE/ROHS/IP67 (IEC 60529)
Acceleration 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
Charger	5.0V 2A-10W	OS	Android 9/10/11/13 (Continuous updates)
Navigation	GPS+Beidou+Glonass+AGPS+SBAS (EPO 2.5m)	Package/Warranty terms/OEM	
Appearance		Warranty	24 Months (12-month Battery Warranty)
Size	200*92*27mm (LxWxH)	OEM/ODM	Support
Weight	420g	Package	USB Cable/Charger/Introduction Manual/Screen protector/Packing box (Can be Customized Logo) /Precautions Card/ Hand strap/ Lanyard/ Toolkit (Option)
Color & Material	Black&yellow,Black&green,Black&Gray (PC+ABS+TPU)		

OPTIONAL MODULES & ACCESSORIES



Barcode reader
Optional 1D/2D barcode module



E20 Barcode Module

2D: QR Code, Micro QR, Data Matrix, PDF417, Micro PDF417, Aztec, Maxicode, Hanxin code, Dotcode, Composite.
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.



2D Barcode Module Honywell N3680

2D: PDF417, MicroPDF417, Data Matrix, Maxicode, QR Code, MicroQR, Aztec, Hanxin, etc.
1D: UPC, EAN, Code 128, Code 39, Code 93, Code 11, Matrix 2 of 5, Codabar Interleaved 2 of 5, Mis Plessey, GSI DataBar, China Postal, Korean Postal, etc. 640 pixels(H) x 480 pixels(V)High Resolution;6.88 mil(PDF417):0mm-50mm;)



HUBER+KOCK-SSD
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OPTIONAL MODULES & ACCESSORIES

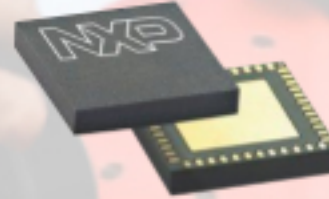


RFID Reader Optional LF HF UHF



125K LF RFID Module

support: ID card(8H-10D)EM4100, 4001, TK4100, EM4305
Read distance: 2-5cm(optional HID card support)



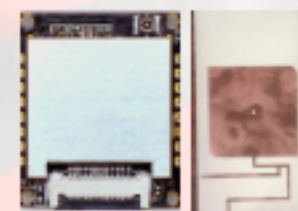
13.56M HF RFID or NFC Module

13.56M HF Support ISO14443A/B/ISO15693 Readable/Data Transmission/Card Emulation/Encryption
Authenticated
Read Distance: 2-5cm



134.2K LF RFID Module

Operation Frequency: 134.2kHz
Support Agreement: ISO11784/5
Read Distance: 2-5cm
Working mode: FDX-B (full-duplex communication)



UHF RFID Module/Antenna

Air interface protocol: EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C
Operating spectrum range: 902Mhz -928Mhz865MHz, - 868MHz(Optional)
Output Range: 0-26 dBm
Output Accuracy: +/- 1dB
Output Power level: +/- 0.2dB
Tag recognition is sensitive and stable.
Read Distance:2-3m (2dB Antenna Test Card E41)

**Only one RFID module can be selected

OPTIONAL MODULES



RFID Module



1D/2D barcode module

Extension 2



Extension 1



Extension 1	UHF module	(M500 ASTM)+ Antenna (M500 EN)+Antenna
	LF RFID module	125K LF ID card (8H-10D) 125K LF ID card (10D) 125K LF HID card module 134.2K LF animal tag module
	HF RFID module	13.56M HF module (single protocol) 13.56M HF module (multi-protocol)
	1D/2D barcode module	
	RS232 module	Optional RS232 serial port, using M8 5-pin aviation plug to 9-pin adapter
	NFC module	
	Other customer supply modules	Need to meet the interface conditions : Powered by 3.3V-1.5A/5V-1.5A, UART Interface, interface level 3.3V/5V, GPIO 1 /electrical level 3.3V/5V.
Extension 2 (When the RFID and NFC modules are selected at the same time, the NFC card swiping area moves to this position)	Battery	Optional 10000mAh (Replaceable Battery)
	NFC module	