

HUGEROCK S50EX

RUGGED ATEX PDA

4.5 Inch ATEX Resilient Mobile Handheld, T9 Keyboard

Ex-Marking: II 2G Ex ib IIB T4 Gb

Certificate NO. ECM 22 ATEX-B DU54

The HUGEROCK S50EX Ruggedized Explosion-Proof Handheld is ideal for personnel working in explosive gas environments such as petroleum, petrochemical, mining, military, and public safety departments. Compliant with MIL-STD-810G and IP67 standards, it is durable enough to effectively protect equipment from dust, water, motion, vibration, temperature, and other factors that can quickly damage equipment. It can withstand a drop of up to 1.8 meters and a shock pressure test of 2 tons. The S50EX can also easily integrate professional functions, including NFC. It also features a long-life 5000mAh intrinsically safe battery, the screen is readable in sunlight, and operates in extremely low temperatures.



ATEX
Explosion Proof



8GB RAM+
128GB ROM



Helio P60 A73
12nm FinFET



5000mAh
Removable Battery



T9
Keyboard



MIL-810G
Drop-proof 6ft



Google
GMS



Mobile Device
Management
by Safeuem

APPEARANCE



SPECIFICATION

Model: S50EX

Hardware		Communications & Networking	
CPU	ARM A73 2.0GHz Octa-core	Phone Call	GSM /WCDMA/VoLTE
GPU	ARM Mali-G72 MP3	2G	GSM/EDGE/GPRS/WAP
RAM	8GB	2G Band	GSM (B2/3/5/8)
Internal Memory	128GB	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 500nit 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 1TB	Waterproof	Class 7 (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
Magnetic Field Sensor	support	RH	5% to 95%
Motion Sensor	support	Operating Altitude	Max: 4,500m (15,000 feet)
Gyroscope sensor	support	Certification/OS/Software	
Light-sensor	support	Certification	MA/ATEX/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		
Navigation	GPS+Beidou+Glonass+AGPS+SBAS (EPO 2.5m)	OS	Android 11/13 (Continuous updates)
Appearance		Ex-Marking	II 2G Ex ib IIB T4 Gb
Size	200*92*27mm (L×W×H)	Certificate NO.	ECM 22 ATEX-B DU54
Weight	420g	Package/Warranty terms	
Color & Material	Black&yellow (PC+ABS+TPU)	Warranty	24 months (12-month Battery Warranty)
		Package	USB Cable/Charger/Introduction Manual/Screen protector/Packing box/Precautions Card/ Hand strap/ Lanyard/ Toolkit



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FUNCTION MODULES

NFC	
Protocol standard	ISO14443A/B, ISO15693, NFC
Label standard	M1 (S50, S70), CPU, NFC
Read-write distance	2-5cm

PRODUCT CONFIGURATION

Order number	NFC Module		Recommend	
				
05121021	NFC		*	



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