

HUGEROCK B81 Version:2023

RUGGED BIOMETRICS TABLET PC

8 Inch FAP10 Fingerprint Data Collection and Verification Platform

HUGEROCK B81 Rugged Biometrics Data Collection and Verification Tablet PC is from SOTEN TECH. It has 8 inch FHD screen with 1000nit, Sunlight readable, based on a MTK Helio P60 Octa-core processor and 4G communication technology, and 10000 mAh battery. B81 uses titanium aluminum alloy body frame, multiple shell protection design. Use Android system with GMS certification and support Safeuem EDM system. B81 equipped with a new type of compact and thin optical fingerprint sensor with back light in the module. The sensor can acquire a full fingerprint image at one touch. It also delivers superior quality image which has effectively more than 32768 grayscale resolutions in every pixel. The B81 is used in a wide range of applications such as government elections, public security, education, urban management, transportation, banks, hotels, post offices, securities, insurance, telecommunications, civil affairs, logistics and many other areas where biometric verification of personnel is required.

- 1000nit HD display
- 10000mAh Polymer battery
- MIL-810G Drop-proof 1.5m
- Helio P60 A73 12nm FinFET
- Google GMS
- Mobile Device Management by Safeuem
- FBI Certification
- ROHS Certification



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SPECIFICATION

Model:B81

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	8G	2G Band	GSM (B2/3/5/8)
Internal Memory	128G	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: BCO/BC1 CDMA: BCO/BC1
Main Camera	13.0MP(AF) with flash led	4G	FDD: 150Mbps down, 50Mbps UP TDD: 150Mbps downlink, 50Mbps uplink
Sub Camera	5.0MP	4G Band	TD-LTE (B38/39/40/4); FDD LTE (B1/2/3/4/5/7/8/12/17/20/28)
Battery	10000mAh	WI-FI	Dual-band WIFI (2.4GHz/5Ghz) single stream 802.11 a/b/g/n/ac
Display	8 inch IPS/AFFS FHD 1200*1920 industrial 1000nit 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	Nano sim card*2	Dropproof /IK	MIL-STD-810G/Method516.6/Procedure IV & Touch Panel IK05
TF Card	Micro SD card (T-FLASH card); max 256GB	Waterproof	Class 7 (IEC 60529)
Headphone	3.5mm (CTIA)	Dustproof	Class 6 (IEC 60529)
DC charging interface	DC5521 5.0V 2A-10W	Operating temperature	-20°C to 55°C
Data interface	USB Type-A(Host)*1, Type-C*1	Storage Temperature	-40°C to 80°C
Direction Sensor	support	Reliability	MTBF>5000h; MTTR<0.5h
Gravity sensor	support	RH	5% to 95%
Magnetic Field Sensor	support	Operating Altitude	Max: 4,500m (15,000 feet)
Motion sensor	support	OS/Software	
Rotation Vector	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.
Light-sensor	support	OS	Android 11
Acceleration 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)/SIM Card Ejector
Appearance			
Size	267*164.6*20.6mm (L×W×H)		
Weight	1015g		
Color & Material	Black (PC+ABS)		



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FUNCTION MODULES

NFC		Inspection and Acquisition	
Frequency	13.56MHz	SM-92M	
Protocol standard	ISO14443A/B, ISO15693, NFC	Thin film optical fingerprint sensor	Sensor Type: Optical CMOS
Label standard	M1(S50, S70), CPU, NFC		Live Detection: support
Read-write distance	2-5cm		Image Resolution: 500DPI
Data Collection			Image size: 300X400 pixel (W*H)
Scanning engine	Newland N1		Image grayscale level: 256
1D	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, ETC.		Compliant with ISO 19749: 2021 certification standard FBI-PIV&FAP20 standard
2D	Code39, Code128, PDF417, MicroPDF417, DataMatrix, Composite, RSS, TLC-39, QR code, Micro QR code, Aztec, MaxiCode, Postal Code; US PostNet, US Planet, UK Postal, AustralianPostal, Japan Postal, etc.	ISO7816 contact card reader module	
		Support card type	Common logic encryption IC card and T=0, 1 protocol CPU card
		Support Agreement	Support for 1 SAM card according to GSM 11.11 (optional)

PRODUCT CONFIGURATION

Order number	Module				Recommend
	The fingerprint module	RFID Module	Barcode module	ISO7816 contact card reader module	
B81	•	•	•	•	*



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