

# HUGEROCK B102 Version:2021

## RUGGED BIOMETRICS TABLET PC

10.1 Inch FAP10 Fingerprint Data Collection and Verification Platform

HUGEROCK B102 Rugged Biometrics Data Collection and Verification Tablet PC is from SOTEN TECH. It has 10.1 inch FHD screen, based on a MTK Helio P60 Octa-core processor and 4G communication technology, and 14600mAh battery. B102 uses multiple shell protection design. Use Android system with GMS certification and support Safeuem EDM system. B102 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. B102 equipped with NFC, RS232, Data link with professional equipment.

-   
**RUGGED**  
And reliable
-   
**POWERFUL**  
Full function
-   
**14600mAh**  
Polymer battery Drop-proof 1.2m
-   
**MIL-810G**  
Helio P60 A73 12nm FinFET
-   
**Google GMS**
-   
**Mobile Device Management**  
by Safeuem
-   
**FBI Certification**
-   
**RoHS Certification**



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## APPEARANCE



- 1. Type-A (Sealed Cover)
- 2. Type-C (Sealed Cover)
- 3. Handset Jack (Sealed Cover)
- 4. DC-type (Sealed Cover)
- 5. RS232 (Sealed Cover)
- 6. Speaker
- 7. Sub Camera
- 8. Ambient light sensor
- 9. Status indicator and charging indicator
- 10. Fingerpri
- 11. Menu button
- 12. Back button
- 13. HOME button
- 14. Search button
- 15. Defined button (Optional)
- 16. Defined button
- 17. Direction button
- 18. Confirm button
- 19. MIC
- 20. 8pin pogo pin (magnetic)
- 21. Power button
- 22. SIM card port (Sealed Cover)
- 23. TF card port (Sealed Cover)
- 24. Main camera
- 25. Temperature pressure sensor (Optional)
- 26. NFC



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## SPECIFICATION

Model:B102

| 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: 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           | 5.0MP   | 4G Band                         | TD-LTE (B38/39/40/41); FDD LTE (B1/2/3/4/5/7/8/12/17/20/28)   |
| Battery              | 14600mAh  | WI-FI                           | Dual-band WIFI (2.4GHz/5Ghz) single stream 802.11 a/b/g/n/ac  |
| Display              | 10.1 inch IPS/AFFS 1920*1200 FHD industrial 450nit Sunlight Readable              | Bluetooth                       | 4.2 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)   |
| Data interface       | USB Type-A(Host)*2, Type-C(OTG)*1   | Operating temperature           | -20°C to 55°C   |
| Charging interface   | Type-C+8pin pogo pin(magnetic); DC 5V (direct battery charging)                   | Storage Temperature             | -40°C to 80°C   |
| RS232                | RS232 (5pin micro GPIO) *1  | Reliability                     | MTBF>5000h; MTTR<0.5h   |
| Gravity sensor       | support   | RH                              | 5% to 95%   |
| Motion sensor        | support   | Operating Altitude              | Max: 4,500 m (15,000 feet)  |
| Direction Sensor     | support   | Certification/OS/Software       |   |
| Magnetic Field       | support   | Certification                   | 3C/FCC/CE/ROHS/IP65 (IEC 60529)   |
| Gyro 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. |
| Rotation Vector      | support   | OS                              | Android 10.0 / Android 11.0   |
| Light-sensor         | support   | Package/Warranty terms/OEM      |   |
| Acceleration sensor  | support   | Warranty                        | 24 months   |
| Charger              | 5.0V 2A-10W   | OEM/ODM                         | Support   |
| Navigation           | GPS+Beidou+Glonass+AGPS+SBAS (EPO 2.5m)   | Package                         | USB cable/Charger 5V 2A/Introduction manual/Screen protector/Packing box (Can be customized logo)/Aircraft box/Toolkit (optional)   |
| Appearance           |   |                                 |   |
| Size                 | 320*228*12mm (L×W×H)  |                                 |   |
| Weight               | 975g  |                                 |   |
| Color & Material     | Black (ABS+PC+TPU)  |                                 |   |





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## FUNCTION MODULES

| HF RFID/NFC         |                            | The fingerprint module               |                                    |
|---------------------|----------------------------|--------------------------------------|------------------------------------|
| Frequency           | 13.56MHz                   | Thin film optical fingerprint sensor | grayscale: 32768                   |
| Protocol standard   | ISO14443A/B, ISO15693, NFC |                                      | FAP10, 500 dpi, 8 bit, 256X360     |
| Label standard      | M1(S50, S70), CPU, NFC     |                                      | FBI MINEX III (NIST Certification) |
| Read-write distance | 2-5cm                      |                                      | RoHS Certification                 |

## PRODUCT CONFIGURATION

| Order number | Module  |   |  | recommend |
|--------------|---|---|--|-----------|
|              | The fingerprint module  | RFID Module   |  |           |
|              |  |  |  |           |
|              | Thin film optical fingerprint module  | NFC module  |  |           |
| B10211       | •   | •   |  | •         |



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