

# MBS UHF V11



Removable MBS battery 4420 mAh  
Removable gun battery 5200 mAh



RAM 3GB + ROM 32GB  
Option: 4GB + 64GB



IP65  
40°C ~+70°C  
5% RH ~95°RH non condensing  
Multiple 1.5m, 2.4m



NFC  
RFID UHF

V1.0  
Non-contractual datasheet

## General specifications

|                  |  |
|------------------|--|
| Operating System | Android 11.0   |
| CPU              | Qualcomm 2.0 GHz Octa-core   |
| Memory           | 3GB+32GB / option: 4GB+64GB  |
| Extended storage | Supports up to 128 GB Micro SD card  |
| Dimensions       | Height: 177mm, Width: 76mm, Length: 160mm  |
| Weight           | av. 800g   |
| Display          | 5.5-inch high definition full display (18:9), IPS LTPS 1440*720  |
| Battery          | 4420 mAh (typ) / 4300 mAh (min) removable MBS battery, 5200 mAh optional pistol battery, support QC3.0 and RTC<br>Standby: up to 490 hours (only main battery ; WiFi: up to 470h; 4G: up to 440h)<br>Continuous use: over 12 hours (depending on user environment)<br>Charging time: 2.5 hours by standard adaptor and USB cable |
| I/O Ports        | USB Type-C, USB 3.0, OTG, extended thimble   |
| Keys             | 1 power key, 2 scan keys , 2 volume keys , 1 PTT key   |
| Other - general  | 2 Microphones, 1 for noise reduction<br>Sensors: gravity sensor, proximity sensor, light sensor, accelerometer sensor, vibration motor<br>Indicator LED/ power, charging, status indicator   |

## Wireless communication

|           |   |
|-----------|---|
| Wifi      | 802.11 a/b/g/n/ac   |
| Bluetooth | Bluetooth 5.0/4.1+HS/4.0/3.0+HS/2.1+EDR   |
| 3G / 4G   | WWAN (Europe, Asie) : 2G: 850/900/1800/1900MHz, 3G: CDMA EVDO: BC0, WCDMA: 850/900/1900/2100MHz, TD-SCDMA: A/F(B34/B39), 4G: B1, B3, B5, B7, B8, B20, B38, B39, B40, B41<br>WWAN (Amérique) : 2G: 850/900/1800/1900MHz, 2G: 850/900/1800/1900MHz, 4G: B2, B4, B5, B7, B12, B17, B38 |
| GPS       | GPS/AGPS, GLONASS, BeiDou, internal antenna   |
| Vo-LTE    | Support Vo-LTE HD video voice call  |

## User Environment

|                       |  |
|-----------------------|--|
| Operating temperature | -20°C to +50°C   |
| Storage temperature   | -40°C to +70°C   |
| Humidity              | 5% RH ~95°RH non condensing  |
| Protection grade      | IP65   |
| Drop Specification    | Multiple 1.8 m / 5.91 ft. drops (at least 20 times) to the concrete across the operating temperature range |
| Tumble Specification  | 1000 x 0.5m / 1.6ft falls at room temperature  |
| ESD                   | ±15KV air discharge, ±8KV conductive discharge   |

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## Data collection

### UHF

|                    |   |
|--------------------|---|
| Engine             | Indy R2000                                |
| Frequency          | 865-868 MHz / 920-925 MHz / 902-928 MHz   |
| Protocol           | EPC C1 GEN2 / ISO18000-6C                 |
| Antenna            | Circular Polarized Antenna (4 dBi)        |
| Power              | 1W (30 dBm, +5 dBm to +30 dBm adjustable) |
| R/W range          | Up to 15 m (open outdoors)                |
| Reading rate       | 900 tags/s                                |
| Communication mode | Pin connector                             |

### HF/NFC

|           |  |
|-----------|--|
| Frequency | 13,56MHz                                     |
| Protocol  | ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc |
| Chips     | M1 card (S50, S70), CPU card, NFC tags, etc. |
| Range     | 2-4cm  |

### Barcode 1D/2D (option)

|                       |   |
|-----------------------|---|
| 1D/2D Barcode Scanner | SE4710  |
| 1D Symbologies        | UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.  |
| 2D Symbologies        | PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode; Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX),etc.. |

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