

MBS UHF V11/V13



Removable MBS battery 4420 mAh
Removable gun battery 5200 mAh



RAM 4GB + ROM 64GB



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



NFC
RAIN RFID (UHF)

V3.0
Non-contractual datasheet

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General specifications

Operating System	Android 11.0/ Android 13.0
CPU	Qualcomm 2.0 GHz Octa-core
Memory	RAM: 4GB + ROM: 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 Standby: up to 490 hours (only main battery ; WiFi: up to 470h; 4G: up to 440h) Continuous use: over 12 hours (depending on user environment) 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 Sensors: gravity sensor, proximity sensor, light sensor, accelerometer sensor, vibration motor 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 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

RFID 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

1D/2D Barcode Scanner	SE4710
1D Symbolologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
2D Symbolologies	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..

Accessories



MBS UHF charging cradle, with charger

Item code: A/MBSUHFRCR1834EU



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