

-40°C ~ 70°C Extreme Temperature Resistant

Build for the extreme, easily pass, the MIL-STD-810G -40°C ~ 70°C vibration test, MB 501R offers the capability to survive in the harshest terrain.



Survival Temperature
-40°C ~ 70°C

Working Temperature
-20°C ~ 50°C

CALKiN MB 501R

Rugged Mobile Phone with 1D/2D/NFC Scanner
GPS built-in

CALKiN MB 501R

CALKiN MB 501R is equipped with Mindeo ME5066 Scan Engine ,dual-engines and dual-cameras. Both engines work at the same time and the two cameras can scan barcode at long and short focal length separately, double speed, double efficiency, and accurately read all types of 1D/2D barcode.



Unmatched Battery Technology

Combination of 5000mAh battery and 18W fast charging makes the CALKiN MB 501R one of the most worry-free device in the market in terms of long operation hours; And with one-button ejection battery buckle design, battery replacement is as fast as lightning.

Powerful Performance

Designed for maximum productivity , powered with Octa-core 2.0GHz chip, 4+64GB memory , Android 11 OS, CALKiN MB 501R is extremely fast,stable and powerful.

Accessories



Snap-on Trigger



Single-Slot



4-Slot battery
Charger



RFID Trigger
Handle



Hand Strap



Hand Strap

Ultra Rugged

CALKiN MB 501R has IP68 Sealing and is 1.5 m drop to concrete. It performs well in a wide range of environment temperature with anti-collision ,anti-vibration and dust-proof design.

Professional Display

Adopting 5-inch high definition advanced touchscreen,CALKiN MB 501R s has a wide , clear and crisp view even in bright and backlight environment .It can work well with hand-in-gloves or wet fingers operations .

Enterprise-level Security OS

Hyatta OS, a security OS specially customized for enterprise-level scenarios, is fully upgraded in efficiency and experience; enterprise-level equipment cloud management platform HMS provides professional equipment management, application and monitoring, and supports privatized deployment.



CALKiN MB 501R

Physical Characteristics

Dimensions	156(H)×75 (W)×14.5(T)mm 6.14(H)×2.95(W)×0.57(T)inch
Weight	8.78 oz./249 g(Batteries required,Depends on Product Configuration)
Display	5.45 in. 1440(H)×720(W) HD+ industrial-grade IPS display
Imager Window	Corning® Gorilla® Glass
Touch Panel	Corning® Gorilla® Glass Capacitive touch panel,SupportWater&Gloves Touch Mode
Backlight	450 NITS, LED
Power	Removable&Rechargeable 3.85V 5000mAh Li-ion battery
Expansion Slot	Micro SD Card slot, 256GB
Expansion Ports	2 Pin Rear connection: Trigger key signal 4 Pin Bottom connection: Charging port 5V/3A,Support USB communication and OTG mode
SIM Slots	2x Nano SIM
Notification	Audible tone; Multi-color LEDs; Vibration
Network Connections	WWAN, Wi-Fi, Ethernet cradle
Voice and Audio	Speaker, Receiver, Dual Mic
Keypad	On-screen keypad and enterprise keyboard
Buttons	Programmable; Scan on each side; volume up/down; power; push-to-talk (PTT)
Interface Ports	Bottom USB 2.0 OTG- host/client (Type-C)

Performance Characteristics

CPU	Octa-core, 2.0GHz
Operating System	Android 11.0 (GMS Certified)
RAM	3GB LPDDR3 (4GB Optional)
Flash	32GB eMMC 5.1 (64GB Optional)

Interactive Sensor Technology

Sensor	Proximity Sensor, Light Sensor, Accelerometer, Magnetometer (OPT), Gyroscope (OPT), Fingerprint Sensor (OPT)
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Data Capture

Scanning	SE4710/N6703/ME5066: 2D Standard range omnidirectional imager
Camera	Front 2 MP fixed focus; f/2.4 aperture Rear 5 MP (opt 13w) auto focus; f/2.2 aperture; Flash LED
NFC	High RF output power; ISO15693, ISO14443A/B, MIFARE : Mifare S50,Mifare S70,Mifare UltraLight, Mifare Pro, Mifare Desfire , FeliCa Supported cards

Wireless WAN

WAN Radio Frequency	TDD-LTE(B34/B38/B39/B40/B41) FDD-LTE(B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B17/B19/B20/B25/B26/B28A/B28B/B30/B66) WCDMA(B1/B2/B4/B5/B6/B8/B19) TD-SCDMA(B34/B39) CDMA2000 1x EV-DO Rev.A BCO (800MHz) CDMA 1x GSM/EDGE/ GPRS(850/900/1800/1900)
Data Rate	GPRS : DL / UL171.2kbps EDGE : DL / UL384 kbps CDMA1x: DL 153.6kbps/ UL 153.6kbps EVDO: DL 3.1 Mbps / UL 1.8 Mbps DC-HSPA+: DL 42Mbps / UL 5.76 Mbps LTE : DL 150 Mbps (CAT4) / UL 75 Mbps(CAT5)

CALKiN MB 501R

Wireless LAN

Radio	IEEE 802.11 ac/a/b/g/n/d/e/h/i/j/k/r/v/w(2.4G/5G Dual band WIFI)
Data Rates	5 GHz: 802.11a/n/ac — up to 433 Mbps 2.4 GHz: 802.11b/g/n — up to 200 Mbps
Operating Channels	CH1-CH13,CH36-CH165
Security and Encryption	WEP,WPA/WPA2-PSK,WAPI,WAPI-PSK EAP: EAP-TLS,EAP-TTLS,PEAP-MSCHAPv2,PEAP-TLS,PEAP-GTC,PWD,SIM,AKA
Fast Roam	Supports 802.11r Fast Roam

User Environment

Operating Temp.	-20°C to +50°C
Storage Temp.	-40°C to +70°C
Humidity	5% to 95% non-condensing
Sealing	IP68
Drop Specification	1.5m(Concrete Surface)
Tumble Specification	1000 round 0.5 meter tumbles(2000 times impact)
Electrostatic Discharge (ESD)	+/-15 kV air discharge, +/-8 kV direct discharge

Wireless PAN

Bluetooth	Bluetooth5.0,Bluetooth Low Energy (BLE);secondary Bluetooth BLE beacon for finding lost (powered off) devices
Communication Distance	>10m

GPS

Positioning System	PS L1 with A-GPS: Glonass; BeiDou; Galileo, QZSS, SBAS
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Accessories

Standard Accessories	Adapter Charger ×1, USB Type-C cable ×1, Rechargeable Battery ×1, Hand Strap×1
Optional Accessories	4-Slot battery Charger, Single-Slot Charge+USB/Ethernet, 5-Slot Share-Cradle Charge+Ethernet, Snap on Trigger Handle, OTG Cable

FC CE CE Certified

ISO 9001



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