

**-40°C ~ 70°C Extreme Temperature Resistant**

Build for the extreme, easily pass, the MIL-STD-810G -40°C ~ 70°C vibration test, MB 601R offers the capability to survive in the harshest terrain.



Survival Temperature  
-40°C ~ 70°C

Working Temperature  
-20°C ~ 50°C

# CALKiN MB 601R

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

## CALKiN MB 601R

CALKiN MB 601R 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.



## Patented Battery Design

The patented design of battery replacement without shutting down, focusing on the ultimate productivity; one-button ejection battery buckle design, battery replacement is as fast as lightning; 18W QC3.0 ultra-fast flash charging, 5000mAh battery, battery-level intelligent battery management, no fear of power anxiety.

## Powerful Performance

Designed for maximum productivity , powered with Qualcomm Snapdragon Octa-core 2.0GHz chip, 4+64GB memory , Android 11 OS, CALKiN MB 601R is extremely fast,stable and powerful.

## Accessories



Snap-on Trigger



Single-Slot



4-Slot battery  
Charger



RFID Trigger  
Handle



Hand Strap



Hand Strap

## Industry-leading 6-inch Advanced Display

Adopting 6-inch screen with 3D micro surface, CALKiN MB 601R has a wide , clear and crisp view even in bright and backlight environ-ment .It can work well with hand-in-gloves or wet fingers operations.

## Ultra Rugged

CALKiN MB 601R has IP67 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.

## Enterprise-level Security OS

CALKiN 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 601R

## Physical Characteristics

<b>Dimensions</b>	163(H)×77.2(W)×13(T)mm 6.4(H)×3.0(W)×0.51(T)inch
<b>Weight</b>	259 g/9.14 oz. (Battery included)
<b>Display</b>	6.0 in. Full High Definition(2160 × 1080), industrial-grade IPS display
<b>Touch panel</b>	Corning® Gorilla® Glass Dual-mode capacitive touch, supports stylus, ungloved finger or gloved finger input, multi-touch and wet hand operation
<b>Backlight</b>	450 NITS, LED
<b>Power</b>	Rechargeable Lithium-ion 5000 mAh minimum (3.85V), QC3.0 fast charging (up to 2.8 A )
<b>Backup Power</b>	backup super capacitor
<b>Expansion Slot</b>	Micro SD Card slot, up to 512GB
<b>Expansion Ports</b>	10 Pin Rear connection: USB 2.0 signal ,UART signal, Trigger key signal, Charging port 5V/3A 4 Pin Bottom connection: Charging port 5V/3A, support USB communication and OTG mode
<b>SIM Slots</b>	2 × Nano SIM, 1 × e-SIM (Optional)
<b>Notification</b>	Audible tone; Multi-color LEDs; Vibration
<b>Voice and Audio</b>	Speaker (2W),, Telephone receiver, Dual microphones
<b>Keypad</b>	On-screen keypad and enterprise keyboard
<b>Buttons</b>	Programmable; Scan on each side; volume up/down; power; push-to-talk (PTT)

## Performance Characteristics

<b>CPU</b>	Qualcomm Octa-Core, 2.0GHz
<b>Operating System</b>	Android 11
<b>Memory</b>	4GB RAM(6GB optional) 64GB ROM(128GB optional)

## User Environment

<b>Operating Temperature</b>	-20°C to +50°C
<b>Storage Temperature</b>	-40°C to +70°C
<b>Humidity</b>	5% to 95%, non-condensing
<b>Sealing</b>	IP67
<b>Drop Specification</b>	Withstands multiple 1.5 meter drops to concrete
<b>Tumble Specification</b>	1000 round 0.5 meter tumbles
<b>Electrostatic Discharge</b>	+/-15 kV air discharge +/-8 kV direct discharge

## GPS

<b>Positioning system</b>	GPS L1 with A-GPS、Glonass、BeiDou、Galileo、QZSS、SBAS
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## Interactive Sensor Technology

<b>Standard Sensors option</b>	Proximity Sensor, Light Sensor, Accelerometer, Magnetometer, Gyroscope fingerprint sensor
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## Data Capture

<b>Scanning</b>	ME5066/SE4710/N6703/N6803etc. professional 1D/2D scanning engine
<b>Camera</b>	Front 5 MP fixed focus; f/2.4 aperture; Rear 16 MP auto focus; f/1.85 aperture; Flash LED generates balanced white light; supports Torch mod
<b>NFC</b>	High RF output power; ISO15693, ISO14443A/B, MIFARE: Mifare S50, Mifare S70, Mifare UltraLight, Mifare Pro, Mifare Desfire, FeliCa Supported cards

## Wireless WAN

<b>WAN Radio Frequency</b>	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)
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## Wireless PAN

<b>Bluetooth</b>	BT5.1+ BR/EDR + BLE
<b>Communication Distance</b>	>10m

## Wireless LAN

<b>Radio</b>	IEEE 802.11 ac/a/b/g/n/ax ready/d/ e/h/i/j/k/r/v/w (2.4G/5G Dual Band Wi-Fi)
<b>Data Rates</b>	5 GHz: 802.11a/n/ac — up to 433 Mbps 2.4 GHz: 802.11b/g/n — up to 200 Mbps
<b>Security and Encryption</b>	WEP,WPA/WPA2-PSK,WAPI,WAPI-PSK EAP: EAP-TLS,EAP-TTLS,PEAP-MSCHAPv2, PEAP-TLS, PEAP-GTC, PWD, SIM, AKA
<b>Fast Roam</b>	Supports 802.11r Fast Roaming

## Accessories

<b>Standard Accessories</b>	Adapter Charger ×1、 USB Type-C cable ×1、 Rechargeable Battery ×1
<b>Optional</b>	Glass Tempered Film、 Protective Case、 Hand Strap、 Single-Slot( Charge+USB/Etherne)、 Snap on Trigger Handle、 RFID Handle、 OTG Cable

FC CE CE Certified ISO 9001



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