



# GEN2WAVE Prime RS01 Android 13 Multi Mode 5G LTE Smart Module User Manual

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GEN2WAVE

## PRIME RS01 Quick Manual

### Android™ 13



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#### FCC Part 15 Information and Notices

This device complies with part 15 of the FCC Rules.

Operation is subject to conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



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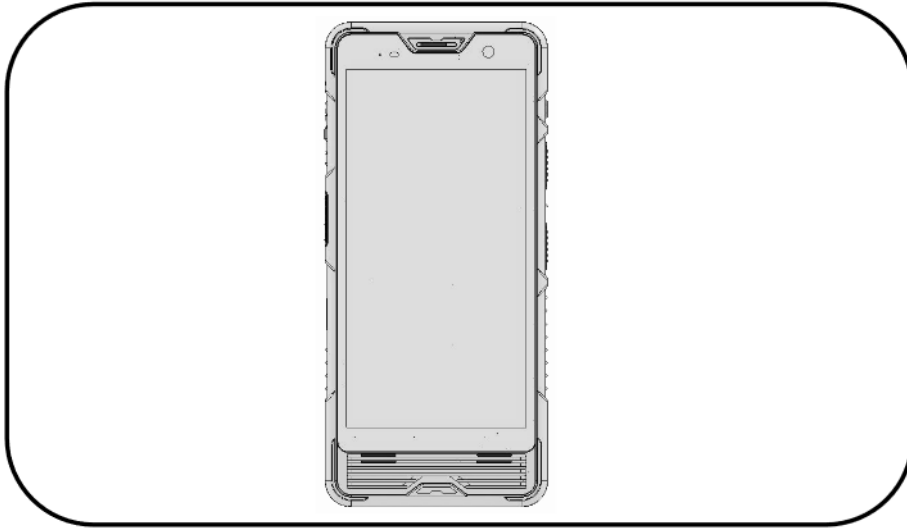
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## Specification

Part	Item	Details
Physical Characteristics	Dimensions	6.61(L) x 3.03(W) x 0.69(H) in. 168(L) x 77(W) x 17.4(H) mm
	Weight	10.57oz / 300g
	Display	5.5in. FHD+, 1080x2160, 650nits
	Touch Panel	Dual mode capacitive touch with stylus Corning Gorilla Glass 5
	Battery	All in one type battery, 4,900mAh Li-polymer
	Expansion Slot	MicroSD up to 512GB SDXC
	Notification	Full color LED, Vibrate and audible tone
	SIM Slot	2ea of Nano sim slots
	Voice and Audio	Dual speakers for loud and clear sound USB-C audio headset support 3.5 mm audio jack, 3 MIC
	Buttons	Left : Volume up, Volume down, PTT Right : Power, F1, F2 / TOP : SOS
	Interface Ports	USB 3.0 (Bottom Type C) : Host and Client Pogo 2pins for charging Pogo 2pins for Trigger Handle
Performance Characteristics	CPU	Qualcomm® QCM6490 Octa-Core 2.7GHz
	Memory	8GB RAM / 128GB UFS Flash
	Operating System	Android 13 with GMS Certified
User Environment	Operating Temperature	-4°F to 122°F/-20°C to 50°C
	Storage Temperature	-40°F to 158°F/-40°C to 70°C
	Humidity	5 to 95% non-condensing
	Drop	MIL STD 810H (Multiple 5ft, 1.5m drops)
	Tumble	500 1.6ft, 0.5m tumbles
	Sealing	IP68
	Vibration	MIL STD 810H (Vibration)
User Environment	Thermal Shock	MIL STD 810H (-40°F to 158°F/-40°C to 70°C rapid transition)
	Electrostatic Discharge (ESD)	+/- 15kv air discharge, +/- 8kv direct discharge, +/- 8kv indirect discharge
IST	Sensor	Light, Magnetometer, Motion, Pressure, Proximity
Data Capture	Barcode Scanning	Zebra SE4770
	Camera	Front Camera : 8MP Rear Camera : 50MP Auto Focus with LED Flash
Wireless WAN	Radio Frequency Bands	US : 5G-NR: N2 / N5 / N12 / N25 / N30 / N38 / N41 / N48 / N66 / N71 / N77 / N78 LTE-FDD: B2 / B4 / B5 / B7 / B12 / B13 / B14 / B17 / B25 / B29 / B30 / B46 / B66 / B71 LTE-TDD: B38 / B41 / B42 / B43 / B48 WCDMA: B2 / B4 / B5 GSM: B2 / B3 / B5 / B8
	GPS	GPS, GLONASS, Galileo, Beidou, QZSS Dual-Band
Wireless LAN	Radio	WIFI 6E, 802.11 a/b/g/n/ac/ax
	Operating Channels	Channel 1-13 (2401-2483 MHz):1,2,3,4,5,6,7,8,9,10,11,12,13; Channel 36-165 (5150-5850 MHz): 36,40, 44,48,52,56,60,64,100,104,108,112,116,120,124, 128, 132,136,140,144,149,153,157,161,165; Channel 1-233 (5925-7125 MHz); Channel Bandwidth: 20/40/80/160 MHz
	Security and Encryption	WEP (40 or 104 bit); WPA/WPA2 Personal (TKIP, and AES); WPA3 Personal (SAE); WPA/WPA2 Enterprise (TKIP and AES); WPA3 Enterprise (AES) — EAP-TTLS (PAP, MSCHAP, MSCHAPv2); EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC, LEAP, EAP-PWD)
Wireless PAN	Bluetooth	5.2

## Package



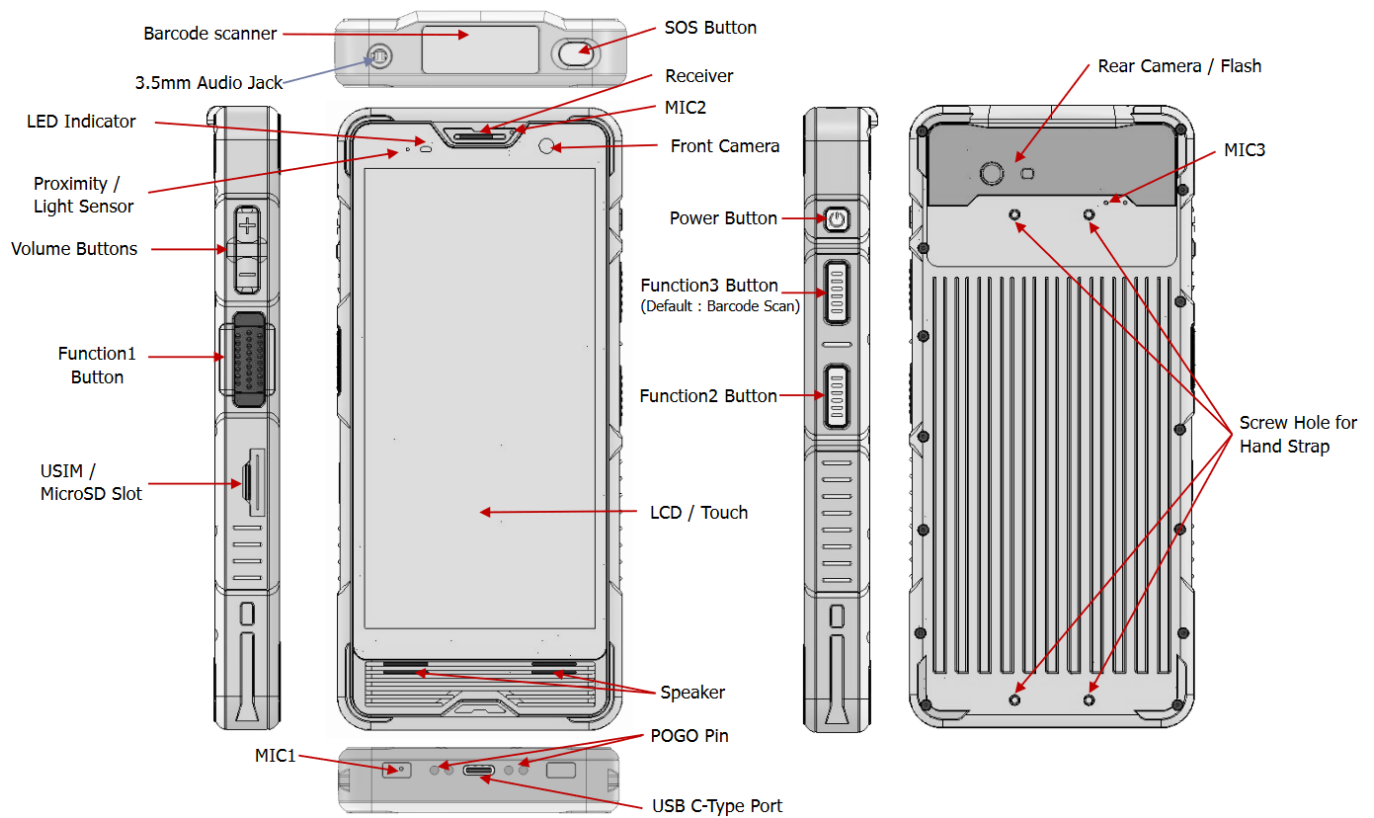
**PRIME RS01**



**Quick Manual**

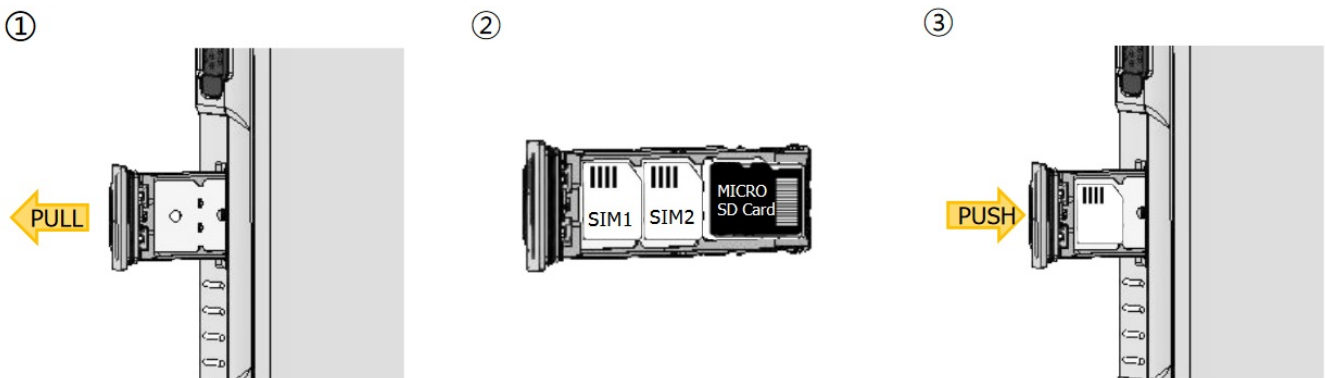
**NOTE.** Items in the box may be changed according to the purchase order.

## Device Features



## Card Installation

- How to Insert SIM cards and a MicroSD card
  - ① Pull out the cover of the USIM(nano) and MicroSD slots.
  - ② Insert USIM card and Micro SD card into the slot.
  - ③ Slide the slot into the device.
- USIM and MicroSD card can be removed in the reverse order



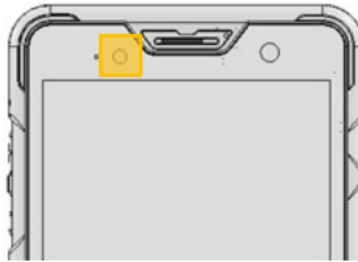
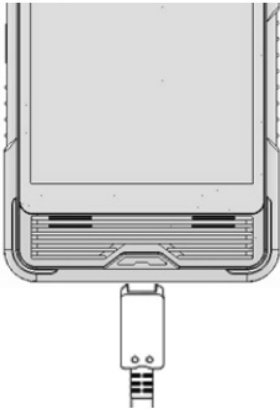
**Caution.** If the device is powered on and the SIM card is inserted, the device must be rebooted.

## Charging the Device

- Charging
  - ① The device battery can be charged by plugging in power cable to USB-C port.
  - ② When charging, the charging status LED of the device lights up, red when charging, and green when charging is complete.

③ Battery LED indicates as follows :

- OFF : Not Charging   Red LED : Charging   Green LED : Fully Charged



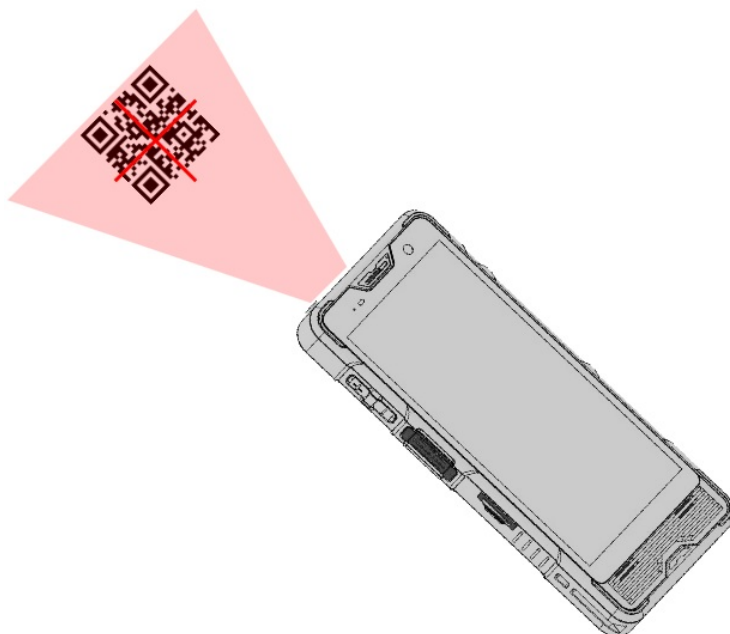
**Note.** Devices supports high-speed charging.  
Adapter voltage must be 5~9V and current is 2A or higher recommended.

**Caution.** Charging speed is slow when using a PC's USB port or adapter with less than 2A current.

## How to use functions

### Barcode Scanner

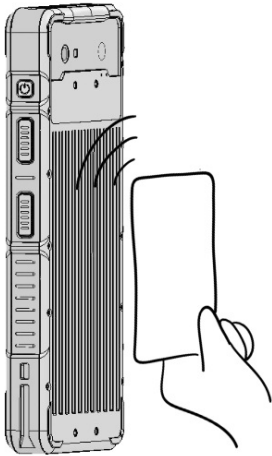
The laser aimer should be on the center of the barcode to get a successful read.



### NFC Reader

Since NFC antenna is integrated in the rear side of the device, read the contactless card as shown.

NFC reading distance depends on the NFC card type.




## How to use power

- Power On
  - Press the power button for 1 second to turn on the device.
  - The power LED briefly turns green on the screen, then turns off, and the GEN2WAVE logo appears.
- Power Off
  - Press the power button until the system menu appears and touch Power off icon.
- Soft Reset
  - Press the power button until the system menu appears and touch Restart icon.
- Hard Reset
  - Press and hold the power button for approximately 10 seconds to reboot the device..
- Factory Reset
  - Follow the below steps to Factory Reset.
  - Path : Settings → System → Reset options → Erase all data (factory reset) → Erase all data

**Caution.** Factory Reset : Erase all data and restore default setting

**SAR.** This device has been tested and meets the FCC RF exposure limit. FCC SAR has been tested with 0mm distance for head SAR, 15mm for Body SAR, 10mm for Hotspot SAR and 0mm for Extremity SAR.

## Documents / Resources

	<a href="#">GEN2WAVE Prime RS01 Android 13 Multi Mode 5G LTE Smart Module</a> [pdf] User Manual Prime RS01, Prime RS01 Android 13 Multi Mode 5G LTE Smart Module, Android 13 Multi Mode 5G LTE Smart Module, Multi Mode 5G LTE Smart Module, 5G LTE Smart Module, Smart Module, Module
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## References

- [Gen2Wave - manufacturer of rugged mobile terminals & Biometric tablet](#)

- [User Manual](#)

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