



RUGGED MOBILE IOT TERMINAL MG1064

Waterproof /Dustproof/Dropproof/Full function/Hi-Rel/Low-Power/Extensible
/UHF RFID/NFC/4G/GNSS



✧Introduction

MG1064 mobile OS terminal has tough appearance with 10.1" industrial-grade, 1000 cd/m2 full-view display, toughened glass TP and aero-grade titanium alloy material frame. Product meets MIL-STD- 810G/Method516.6/Procedure IV and military standard. Terminal can withstand up to a 1.2m drop and 2 ton shock pressure test. While it also comes with a suite of integrated features, which is highly integratable, high-performance , high-reliability, high-flexibility. MG1064 is equipped with a long-life 14600mAh battery, sunlight-readable, which can operate under extreme low temperatures.

✧Hardware

CPU: 2.5G Hz x10 Cortex A72 Deca-Core 64bit

RAM/ROM: TWO-IN-ONE:4G+64G EMCP

Display : 10.1 inch IPS/AFFS 1000*1920FHD
Industrial 1000 Nit Sunlight Readable

Touch Panel:5 point Multi-touch/Capacitive/Anti-salt
fog/support capacitance pen&gloves 9H

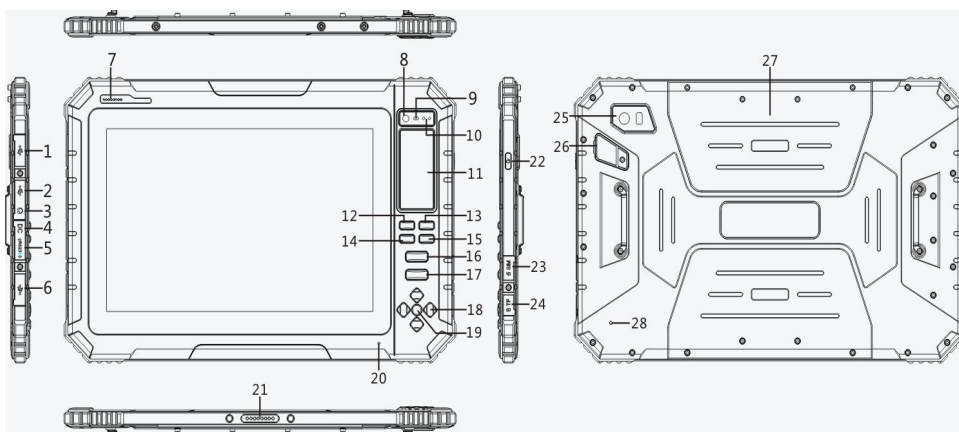
Basic Function:2G/3G/4G/BT/GPS/WIFI/FM/ Axis
Accelerometer Sensor/Orientation SensorGravity
Sensor/Linear Acceleration Sensor/Rotation Vector
Sensor/Magnetic Field Sensor/Gyroscope Sensor

Extensible Function:LF/UHF RFID/ NFC/GPS+GLONASS
Navigation/38K/Zigbee

Camera: 13.0MP(AF)with flash led/5.0MP sub Camera

2G/3G/4G Band: GSM (B2/3/5/8) , WCDMA
(B1/2/5/8) , TDSCDMA (B34/39) , TD-LTE
(B38/39/40/41) ; FDD LTE (B1/2/3/4/5/7/20) ;
EVDO,CDMA 1X

Wifi: Dual-band (2.4GHz/5Ghz) 802.11 a/b/g/n MAC/BB/RF
Bluetooth: v2.1+EDR/BT 3.0+HS compliance/ Bluetooth v4.0
Low Energy (LE)



- 1: USB HOST
- 2: USB Type-C data
- 3: earphone
- 4: DC port
- 5: RS232 port
- 6:USB HOST
- 7.Speaker

- 8: Sub camera
- 9: Ambient light sensor
- 10.Status and charging indicator
- 11.fingerprint optional
12. Menu button
13. Back button
- 14.Home button

15. Search button
16. Scan button
17. defined button
18. Direction button
- 19.Confirm button
20. MIC
21. Pogo pin

22. ON/OFF button
23. SIM card port
24. TF card port
25. Main camera
26. External GNSS antenna inter
27. module optional
28. Temperature pressure sens

Explanation of differences between product types									
Model No.	CPU	RAM	ROM	Android OS	Display				
MG1064	2.5Ghz, Deca-core A72 64bit	4G	64G	8.1	10.1 inch IPS/AFFS 1200*1920 FHD industrial	1000 nit	Sunlight Readable		

Detailed Specification



※Hardware

Chipset	ARM Cortex A72 2.5G Hz Deca-core		
Sim card	1.8/3.3V SIM card		
※Battery & IO			
Battery	14600mAh	Charger	USB Type-C/USB Type-A
Earphone	3.5mm	Data interface	USB Type-C/DC3.0/pogo

※Camera & Memory

Main Camera	13.0MP(AF) with flash led /5.0MP+13.0MP
Internal Memory	3GB RAM+32GB ROM EMCP or 4GB RAM+64GB ROM EMCP**
External Mem	Micro SD card(T-FLASH card),max 128GB
※Display & Input	

Main Display	10.1" AFFS/IPS LCD 1200x1920 FHD industrial 1000cd/m2 Sunlight Readable
Touch Panel	5 point Multi-touch/Capacitive/Anti-salt fog/support capacitance pen&gloves 9H

※Data collection & Option Module

GPS&GLONASS /support A-GPS/EPO	915M UHF RFID
fingerprint 256 x 360 pixels 508dpi	125K LF RFID
NFC support ISO14443A/B/ISO15693	RTD /RTK module
1D/2D Barcode scanner module	38K / ID card verification

※Industrial & Reliability Design

Shake-proof	1-19Hz/1.0mm; 19-200Hz/1.0g
Dropproof	MIL-STD-810G/Method516.6/Procedure IV
Waterproof	Class 7 (IEC 60529)
Dustproof	Class 6 (IEC 60529)
Reliability	MTBF>50000h; MTTR<0.5h
Operating temperature	-20° C to 55° C
Storage Temperature	-40° C to 80° C
RH	5% to 95%
Operating Altitude	Max: 4,500 m (15,000 feet)

※Network

Call	GSM /WCDMA/TD-SCDMA/CDMA 1X
2G/3G/4G Band	GSM (B2/3/5/8) , WCDMA (B1/2/5/8) , TDSCDMA (B34/39) , TD-LTE (B38/39/40/41) ; FDD LTE (B1/2/3/4/5/7/20);evdo: BC0/BC1 CDMA: BC0/BC1
3G data	WCDMA 3.75G (HSDPA+ 42.2Mbps, HSUPA+ 11.5Mbps),TD-SCDMA
4G data	FDD: Up to 150Mbps downlink, 50Mbps uplink - TDD: Up to 150Mbps downlink, 50Mbps uplink -
EDGE/GPRS/WAP	
WI-FI	Dual-band (2.4GHz/5Ghz) single stream 802.11 a/b/g/n MAC/BB/RF
Bluetooth	BT v2.1+EDR/BT 3.0+HS compliance/ Bluetooth v4.0 Low Energy (LE)

※GPS/Sensor/IOS

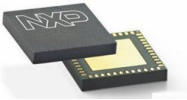
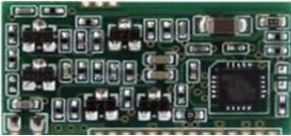
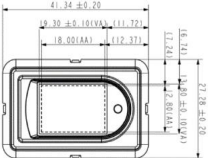
ISO	Andriod8.1		
GPS	GPS+Glonass+Beidou+AGPS		
Motion sensor	support	Gravity sensor	support
Magnetic field sensor	support	Gyro sensor	support
Acceleration sensor	support	opto-sensor	support
Proximity sensor	support	Rotation vector sensor	support

※Size/Package/Warranty terms/OEM

Size	320*228*12mm (L×W×H)
Weight	760g
Warranty&OEM	support OEM, warranty 24 months (non-human damages)
Package	USB cablex1, charger 5V 2.1Ax1,user guide x1,tool bag x1,screen protectorx1
※Certification support	

MA/3C /FCC/CE/ROHS



HF RFID/NFC module	13.56M HF support ISO14443A/B/ISO15693 readable/data transmission/ Card Emulation/encryption authenticated	
125K LF RFID module	LF RFID ID card readable; support EM4100, 4001, TK4100, EM4305	
134K LF RFID (support Animal tags)	Operation Frequency: 134.2kHz support agreement: ISO11784/5 Read distance >5cm Working mode: FDX-B (full-duplex communication)	
barcode module	M3296/M3096/E203/E3680 barcode scanner module	
fingerprint module	G2010 Capacitive fingerprint sensor, FAP10, 508 dpi, 8 bit, 256X360 size, FBI MINEX III (NIST Certification)	
UHF RFID	Air interface protocol: EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C Operating spectrum range: 902Mhz - 928Mhz 865MHz - 868MHz (Optional) Output range: 0-26 dBm Output accuracy: +/- 1dB Output power level: +/- 0.2dB The label is sensitive and stable. Line polarization ultra thin plate antenna 5050: 1-2m	