Android Rugged Handheld Terminal

MDT680 5G



Empowering Critical Field Productivity with Speed and Precision

OS
Android 14

Performance
Octa-Core Processor

Wireless
WiFi,Bluetooth

Battery
Long-lasting 4600mAh

Operating Temp
-20℃ to 60℃

Camera
40MP Autofocus with flash
8.0 MP Front camera

Display
5.7 inch
(720 × 1440)

Drop Resistance
Multiple 1.2m (4 ft)
(drops per MIL STD 810H)



NFC
Back access, easy for login

Network
2G / 3G / 4G/ 5G with voice; Proven reliable network connection

Extended Features
Barcode reader (Built-in)

MDM Remote Control Server
Topicon's device management server is developed to allow customer to update different firmware and make kiosk mode

Cradle Design

Cradle & Cable Options

Option 1



Power Input: 9-36VDC Vehicle Hardwire
Key Features: Ignition sensing (ACC), Rich I/O (GPIO, RS232/485, CAN, USB, opt. RJ45).

Option 2



Power Input: 9-36VVDC Vehicle Hardwire
Key Features: Ignition sensing (ACC), 1x RS232 port.

Option 3



Power Input: AC Adapter / 12V/24V Cigarette Lighter
Key Features: Standard home & in-vehicle charging.

MDM server function:

- BOOT ANIMATION
- INSTALL APK
- ADD APN
- DEFAULT SETTING
- CUSTOMIZED BUTTON

Topicon HK Ltd
Room2314-2316, Tower C,Huangdu Plaza, Yitian Road, Futian District, Shenzhen, China Tel:86-755-82549331
www.topicon.hk

Specification

PERFORMANCE CHARACTERISTICS	
CPU	2.2GHz Octa Core Processor
OS	Android 14 with GMS or without GMS
Memory	4GB LPDDR4X
	128GB UFS2.2
PHYSICAL CHARACTERISTICS	
Dimensions	161.5mm L x 77.5mm W x 18.9mm D
Weight	280g
Display	5.7-inch, IPS panel (720 x 1440 pixel)
Touch Panel	Capacitive multi-touch / Glove, Wet, Stylus
Backlight	LED Backlight
Power	Lithium-ion Battery 3.7V 4600mAh
SIM	1x Nano-SIM+eSIM
Interface	Docking Connector (18-pin)
	1 x USB Type C 2.0 OTG on the device
	2 x USB Type A 2.0 OTG on the cradle
	1 x M12 connector (Ethernet) on the cradle
	2 x CAN Bus on the cradle
	3 x GPIO (3 x Input) on the device
Notification	Audible tone
Voice / Audio	Speaker, Microphone, headphone
Keypad	On-screen keypad
WIRELESS WAN DATA AND VOICE COMMUNICATION	
Radio Frequency	**EUR:**
	2G: 850/950/1800/1900MHz
	3G: B1/2/4/5/6/8/19
	4G:B1/2/3/5/7/8/20/28AB/38/39/40/41(194MHz)
	5G: NR:N1/3/5/7/8/20/28/38/41/77/78
	NAR:
	2G: 850/900/1800/1900MHz
	3G: B1/2/4/5
	4G:B1/2/3/4/5/12/13/17/18/19/25/26/28/30/38/41/66/71
	5G: NR:N2/5/25/41/48/66/71/77/78
GNSS	GPS, GLONASS, GALILEO (Dual-band L1+L5)
WIRELESS LAN	
Radio	802.11 a/b/g/n/ac; 802.11 d/e/h/i/j/k/r/v/w
Data Rate	5GHz: 802.11a/n/ac — up to 500 Mbps;
	2.4GHz: 802.11b/g/n — up to 144Mbps
Security and Encryption	WFA WPA/WPA2 Personal, AES-CCMP,
	WPI-SMS4, GCMP, WPS2.0, WAPI (hardware)

WIRELESS PAN	
Bluetooth	V5.0
DATA CAPTURE	
Scanner Reader (Optional)	1D&2D Imagers (Built-in)
Camera	Rear: 40MP Autofocus
	Front: 8MP Fixed Focus
NFC	Supported TAG-ICs: MIFARE Classic 1k/4k/Plus, MIFARE UltraLight MIFARE UltraLight C, MIFARE DESFire MIFARE DESFire Ev1, ISO 14443 A & B ISO 15693
Serial Communication	RS232/RS485 (default with docking station is RS232)

SENSOR

- Ambient Light Sensor
- Proximity Sensor
- 3-axis Accelerometer
- 3-axis Gyroscope
- E-Compass (Magnetometer)

USER ENVIRONMENT	
Operating Temp	-20℃ to 60℃ / -4°F to 140°F
Storage Temp	-20℃ to 70℃ / -4°F to 158°F
Humidity	90% non-condensing
Drop Spec	1.2m / 4 ft. to drop per MIL STD 810H
Sealing	IP67
Electrostatic Discharge (ESD)	+/-8kVdc air discharge +/-4kVdc direct discharge

OPTIONAL ACCESSORIES

Vehicle docking station
Motorcycle docking station

OPTIONAL FEATURES

FM broadcasting

Fingerprint

* Specification is subject to change.

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