

529.00 EUR
incl. 19% VAT, plus shipping

- Rugged 5G Android handheld !
- IP67 and MIL-STD-810H !
- 5.7-inch glove-touch display !
- Optional 1D/2D barcode scanner !

- Preinstalled Android 14 with GMS or without GMS
- MediaTek MT6835 octa-core processor at 2.2 GHz, 4 GB LPDDR4X and 128 GB UFS 2.2
- 5.7-inch IPS display with 720 x 1440 pixels and capacitive multi-touch for glove, wet and stylus operation
- 2G/3G/4G/5G with voice, Wi-Fi, Bluetooth 5.0, NFC and dual-band GNSS
- Lithium-ion battery with 3.7 V and 4600 mAh
- IP67, 1.2 m drop resistance per MIL-STD-810H and -20 °C to 60 °C operating temperature

The MDT680 is a rugged 5.7-inch Android handheld for mobile data capture, logistics, transportation and field service. It combines a MediaTek MT6835 octa-core processor, 4 GB LPDDR4X memory, 128 GB UFS 2.2 storage, and 2G, 3G, 4G and 5G cellular connectivity with Wi-Fi, Bluetooth and dual-band GNSS in a durable industrial housing.

With its 720 x 1440 IPS display, Android 14, IP67 protection, 4600 mAh battery and docking concept, the MDT680 is suitable for data capture, communication and navigation in everyday work. NFC, a 40 MP autofocus rear camera with flash, an 8 MP front camera, sensors and an optional MOD-680-BAR 1D/2D barcode scanner module further extend the application range. Vehicle and motorcycle docking stations as well as charging accessories support integration into mobile workflows.

With a vehicle cradle, the MDT680 becomes a fixed in-vehicle terminal: the CRD680-REG provides 9 to 36 V DC, ignition input, 2x CAN bus, 2x RS232, 3x GPIO, 2x USB-A and Ethernet via M12. The CRD665-REG provides 9 to 36 V DC, ignition input and 1x RS232. A USB cable is included; cradle, power adapter and mount are available separately. Topicon's MDM server supports, among other functions, firmware updates, kiosk mode, boot animation, APK installation, APN configuration, default settings and customized button mapping.

| PERFORMANCE CHARACTERISTICS | |
|---|---|
| CPU | MediaTek MT6835 platform, 2.2 GHz Octa Core Processor |
| OS | Android 14 with GMS or without GMS |
| Memory | 4 GB LPDDR4X<br>128 GB UFS2.2 |
| PHYSICAL CHARACTERISTICS | |
| Dimensions | 161.5 mm L x 77.5 mm W x 18.9 mm D |

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|---|---|
| Weight | 280 g |
| 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 3.7 V 4600 mAh |
| Expansion Slot | MicroSD (TF) card slot |
| SIM | 1x Nano-SIM + eSIM |
| Interface | Docking Connector (18-pin)<br>1x USB Type C 2.0 OTG on the device<br>2x USB Type A 2.0 OTG on the cradle<br>1x M12 connector (Ethernet) on the cradle<br>2x CAN Bus on the cradle<br>3x GPIO (3x 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:<br>2G: 850/900/1800/1900 MHz<br>3G: B1/2/4/5/6/8/19<br>4G: B1/2/3/5/7/8/20/28AB/38/39/40/41 (194 MHz)<br>5G: NR N1/3/5/7/8/20/28/38/41/77/78<br>NAR:<br>2G: 850/900/1800/1900 MHz<br>3G: B1/2/4/5<br>4G: B1/2/3/4/5/12/13/17/18/19/25/26/28/30/38/41/66/71<br>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 | 5 GHz: 802.11a/n/ac - up to 500 Mbps<br>2.4 GHz: 802.11b/g/n - up to 144 Mbps |
| Security and Encryption | WFA WPA/WPA2 Personal, AES-CCMP,<br>WPI-SMS4, GCMP, WPS2.0, WAPI (hardware) |
| WIRELESS PAN | |
| Bluetooth | V5.0 |
| DATA CAPTURE | |
| Scanning (Optional) | 1D&2D Imager (MOD-680-BAR) |
| Camera | Rear: 40MP Autofocus with flash<br>Front: 8MP Fixed Focus |
| NFC | Supported TAG-ICs: MIFARE Classic 1k/4k/Plus, MIFARE UltraLight<br>MIFARE UltraLight C, MIFARE DESFire, MIFARE DESFire Ev1,<br>ISO 14443 A & B<br>ISO 15693 |
| Serial Communication | RS232/RS485 (default with docking station is RS232) |
| SENSOR | |
| Ambient | Ambient Light Sensor, Proximity Sensor |
| Motion | 3-axis Accelerometer, 3-axis Gyroscope, E-Compass (Magnetometer) |
| USER ENVIRONMENT | |
| Operating Temp | -20°C to 60°C / -4°F to 140°F |
| Storage Temp | -20°C to 70°C / -4°F to 158°F |
| Humidity | 90% non-condensing |
| Drop Spec | 1.2 m / 4 ft. to drop per MIL STD 810H |

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|---|---|
| Sealing | IP67 |
| Electrostatic Discharge (ESD) | +/-8kVdc air discharge<br>+/-4kVdc direct discharge |
| OPTIONAL ACCESSORIES | |
| Vehicle docking station | Vehicle docking station |
| Motorcycle docking station | Motorcycle docking station |
| OPTIONAL FEATURES | |
| FM broadcasting | FM broadcasting |
| Fingerprint | Fingerprint |