



# MDT10 MOBILE DATA TERMINAL



## Overview

The MDT10 is a robust touchscreen Android device specifically designed to deliver reliable performance in demanding operational environments and is rated for ingress protection to IP65, with an impact rating of IK8, an operating temperature of -20 °C to +60 °C and wide input voltage range of 9-57VDC.

### Enhanced Communication

The MDT can be utilised as a component within a modular ticketing solution, as well as a key component providing real-time information to the driver as part of an ITS system, capable of providing VOIP communications to the driver, by utilising the integrated audio connections giving mic, line out and speakers removing the need for additional devices to be used to add VOIP functionality

### Efficient AVL Functionality

Utilise the global frequency 4G-LTE modem, or if on board networking is available, the device can be connected via either the integrated 1Gbps ethernet connection, or connecting to vehicle WiFi using the dual-band 2.4 GHz/5 GHz connections.

### Precise Location Tracking

Integrated GNSS processing chip, supporting GPS, GLONASS, QZSS, SBAS, Galileo systems for accurate location information. An external SMA GPS connection allows mounting of an GNSS antenna for precise vehicle tracking, next stop passenger announcements and automatic stage updates for ticketing.

### Versatile Connectivity Options

Maximise functionality, and minimise the requirement for external devices, the MDT also has serial capabilities available with an RS232 & RS485 port available to communicate with external hardware such as destination displays allowing for a single sign in by the driver. There are also 3 dedicated digital inputs, and a digital output which can be used to connect to peripherals such as driver call request / emergency call request buttons for VOIP functionality.



## Key features

- Robust: Built to deliver reliable performance in demanding operational environments
- User-friendly: Features an Intuitive Android touch display for easy navigation
- Integrated: Seamlessly integrates with existing systems for efficient operation
- Reliable: Ensures reliable connections with 4G-LTE, WiFi, and Bluetooth options
- Flexible: Able to support both AFC & ITS user scenarios

## About Vix

Vix Technology is the global leader in intelligent transportation systems, automated fare collection, and transit analytics.

With customers in 200 cities around the world, Vix embraces the complexities of modern public transit to create best-in-class solutions for transit agencies and operators.

Vix is passionate about connecting people and communities, combining an open, collaborative mindset with cutting-edge technology to make public transport more accessible and more cost effective for all.

<b>Electrical</b>	OS: Android 12 CPU: Quad-core ARM Quad-core Cortex-A55, 2.0 GHz RAM: 2GB LPDDR4 Flash: 16GB eMMC Expansion: MicroSD card slot up to 512GB Power supply: 9V dc to 56V DC or POE
<b>Display</b>	10.1-inch 1280×800, Full Color IPS Display, High brightness 800 cd/m2 Capacitive multi point touch panel, IK08 impact resistance Anti-glare
<b>Audio</b>	High quality digital audio Internal speaker Line out connector Mic in connector
<b>Ports and Inputs Outputs</b>	RS232 x1 RS485 x1 CAN x1 1x USB 2.0 Host; 1 x USB Device 1x Gbps Ethernet 3 x Isolated Digital Input; 1 x Isolated Digital Output
<b>Connectivity</b>	Cellular: 4G-LTE, Global frequency (PTCRB certified) WiFi: Dual-band Wi-Fi, 2.4 GHz/5 GHz Bluetooth: BLE, Bluetooth 5 GNSS: multi-GNSS, GPS, GLONASS, QZSS, SBAS, Galileo
<b>Dimensions</b>	265 x 185 x 35mm
<b>Environmental</b>	Ingress: IP65 Impact: IK08 Operating Temperature: -20 °C to +60 °C
<b>Compliance</b>	Vix supplies products to meet many local and globally recognised standards such as CE, CA, RoHS, FCC, various Smart Card standards and many others. For more details on how Vix meets your local requirements please contact Vix directly

Stringent reliability testing is performed on all equipment. To ensure the highest quality, specifications may change without notice.

