

MOBILE TERMINAL

## Compatible with SAE J1939 and OBDII

Ruggon (Taiwan) has announced the MT7010 device, which provides antennas. The Android-based terminal is suitable for platoon and fleet management.



*The CAN connectivity supports the OBDII protocols as well as SAE J1939 communication (Photo: Ruggon)*

The Taiwanese company has launched the MT7010 rugged mobile terminal with a touchscreen display. The product is suitable for a diverse range of applications, including in-cab vehicle navigation, electronic logging, trip and route management, critical event reporting, and trailer and vehicle monitoring. It is designed for platoon and fleet applications. The device can monitor the vehicle status by means of connectivity to the OBDII interface and the J1939-based in-vehicle networks.

While the product is designed for rugged on-road fleet applications, at its heart is a 1,1-GHz Cortex-A7 micro-controller running Android 5.1. The device provides a 2-GiB memory, a built-in 16-GiB eMMC, and a Micro SD slot.

The 7-inch touchscreen is based on projected capacitive (PCT) technology, allowing use by operators wearing gloves. Five programmable function buttons around the screen can allow instant access to application-specific features. Users also have access to a wide range of configuration settings and vehicle systems status information via Ruggon's Dash-on management interface.

Several wireless and wired communication technologies are supported as well as navigation options. Internal and external antennas are available including for mobile/cellular, local, and short-range sensors. The device complies with LTE Band Cat 4, WCDMA, and HSPA+, when the appropriate function is equipped by means of the dual micro SIM slot. To support autonomous border crossing or fast stopping at mandatory checkpoints, the devices offers a variety of wireless connectivity with 802.11 a/b/g/n Wi-Fi, Bluetooth 4.1, and NFC (Near Field Communication).

For the various sorts of demands of vehicle wired connectivity, the terminal comes with Gigabit-Ethernet networking. Additionally it comes with four discrete I/O ports, two USB sockets (one USB 3.0, plus one USB 2.0), one powered EIA-232 interface plus a separate EIA-232/422/485 socket. GNSS (GPS, GLONASS and BeiDou) is available for location services and navigation. The device includes dead reckoning support and a 3-axis G-sensor.

The MT7010 is specified for an operating temperature from -30 °C to +60 °C while meeting MIL-STD-810G specification for vibration and shock. The housing is IP65-rated.

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