# Rugged tablet features J1939 interface

**The X7R from Waysion Technology (China) is a 7-inch tablet PC designed to operate within truck in-cab and other applications with harsh environments.**

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The X7R tablet PC (Source: Waysion Technology)

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The CANMonitor software (Source: Waysion Technology)

A CAN interface is provided for data communications via an extension cable. It supports the 29-bit CAN-identifier. If required, the J1939 higher-layer protocol can be implemented using additional converter. The device can receive data from the CAN-based (in-vehicle) network(s), process it internally, display the data, and provide the data on the other tablet's interfaces. Bit-rates from 50 kbit/s to 1 Mbit/s are possible. As standard, the bit-rates 250 kbit/s and 500 kbit/s are used. The physical CAN port is realized by a 9-pin male D-Sub connector. Product's range of interfaces includes EIA-232, EIA-422, Gigabit Ethernet (RJ45), USB host (type A), and GPIOs (general purpose IOs). For wireless communication such modules as Wifi, Bluetooth, 4G cellular, NFC, and GPS are available. The company provides the CANMonitor test and integration software used for debugging and development of a customized application. According to the manufacturer, this device model has been widely deployed by clients working on in-vehicle systems such as fleet management, mining proximity detection, precision farming and other general applications for industrial or IoT (Internet of Things) use.

Another 7-inch portable IP65-protected rugged tablet PC is the Q7S. It integrates the SOC (system on chip) by Qualcomm and Android 7.1 operating system. The unit is also available with the J1939 extension.

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