

RTD Embedded Technologies, Inc.

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**RTD Wireless**

RTD designs and manufactures a broad line of wireless telematics modules including cellular modems, GPS systems, and short range wireless networking. Fully integrated quad-band and tri-band GSM/GPRS/EDGE modems are suitable for worldwide cellular applications. RTD uses the latest technologies for fast GPS fixes, centimeter accuracy, and reliable tracking in difficult moving environments, and offers simple, low cost GPS receivers for general purpose location data. Wireless Ethernet provides economical and reliable short range communications. Automotive and fleet management systems are just one example of the many industries served by RTD Wireless Telematics modules.

The modular IDAN, HiDAN, and HiDANplus Intelligent Data Acquisition Nodes with environmental sealing and EMI suppression are ideal for wireless telematic industrial and military applications. Mobile data acquisition is placed at your fingertips when you select an industrial or tactical FieldPad computer.

GSM/GPRS/EDGE Modems and GPS Receivers:

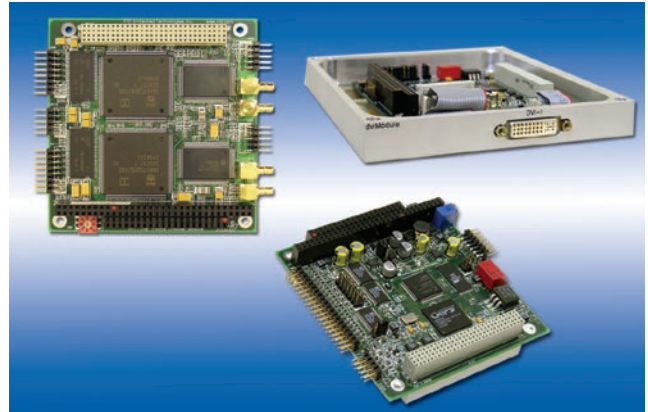
These modules use either the Siemens MC75 quad-band 850/900/1800/1900 MHz or the MC55 tri-band 900/1800/1900 MHz GSM engines. For railway system applications, a Triorail TRM:2 tri-band GSM-R/900/1800 MHz engine is used. A SIM card socket is available onboard (standard) or mounted externally (optional). Selected models have a fully integrated GPS receiver.

GPS Receivers:

RTD offers GPS receiver modules with fully integrated 12-channel, low-power GPS receivers using the Fastrax iTrax03/02 engine or the high-end, 34- or 72-channel Novatel OEMV-2 GPS engine, if accuracy down to 1 cm (CEP) is required. Modules can be configured to support True NMEA-0183 or binary data protocols.

Wireless Ethernet:

RTD offers an 802.11 a/b/g WLAN module that can operate in Infrastructure or ad hoc modes. The high bandwidth can support streaming and file sharing of up to 108 Mb/s. The module is based on the 4G Atheros AR5004 chipset and has two MCX connector for dual antennas.

**FEATURES**

- › EDGE/GPRS/GSM
- › Siemens MC75 and MC55 GSM engines
- › Triorail TRM:2 GSM engine for railway systems modules
- › SMS text message and standard AT modem command
- › 12-channel low-power Fastrax iTrax03 GPS engine
- › 34- or 72-channel Novatel OEMV-2 GPS down to 1 cm (CEP) accuracy
- › Highly accurate time and position and Differential GPS ready
- › 4G Atheros AR5004 WLAN
- › WLAN 802.11 a/b/g and Super AG
- › Hardware-based WPA/WEP encryption
- › 8 digital inputs, 8 digital outputs
- › Operating temperatures: -40 °C to +85 °C GPS modules, -25 °C to +70 °C GSM/GPRS/EDGE modules, 0 °C to +70 °C WLAN