Overview

Tri-M's FlexCom104-GPS is a PC/104 communication board that can support two Multi-Tech Universal Socket Modems while providing GPS capabilities and I/O through an isolated RS232 serial port. This multi-function design provides users with a single board solution to location and communication needs.

The FlexCom104-GPS, as with all Tri-M products, is engineered for rugged environments. A soldered on GPS receiver and RS232 port isolation are some of the design elements that make this solution right for harsh environments where exposure to dust, airborne particles, shock and vibration can take its toll on embedded systems.

For ITS, Railway, Off-Highway Vehicles, M2M and Telematics applications where you need location information as well as wired and wireless communications the FlexCom104-GPS is a product that will meet your needs.

Key Specifications

- 1 GPS receiver
  - 50 channels
- 1 Isolated RS232 port
  - 50V protection, 250Kbp/s
- 2 Universal Socket Ports

Applications

- Off-Highway Vehicles
- ITS (Intelligent Transportation Systems)
- Railway
- M2M / Telematics

Advantages

- Integrated Functionality
  - One board with multiple services
- Soldered on GPS
  - Ruggedized Solution
- Dual Socket Modem Ports
  - Variety of Communication Options
- Isolated System
  - Protection from transients, spikes and surges
Specifications

General
- RS-232 Serial Ports: 1
- Duplex RS-232: Full
- FIFOs: 16 bytes
- Ports: 4
- Supplied Oscillator Freq.: 14.7456MHz

Communication Modules
- Manufacturer: Multi-Tech Systems, Inc.
- Sockets: 2 Universal Sockets
- Voltage: 5V
- Types: GSM/GPRS, CDMA, EDGE, CELL, Wi-Fi (802.11b), Bluetooth

GPS
- Receiver: FV-5H
- Channels: 50 channel
- Connector: SMA, Female
- Status: LED GPS 1 PPS (pulse per second)

Mechanical / Environment
- Power: +5V supplied over PC/104 bus
- Dimensions: 3.55” x 3.75” x 0.60”
- Mounting: PC/104
- Weight: 43.5 grams
- Operating Temperature*: -20°C to +60°C (-4°F to 140°F)
- Relative Humidity: 5% to 95% (non-condensing)

Certifications

MODELS

FlexCom104-GPS-PBF
- Flexible communications platform with 50-channel GPS receiver, RoHS compliant

OPTIONS
- Conformal Coating

Note
For detailed dimension and connector information, please see the User Guide.

* Operating temperature for Multi-Tech modules may vary.