FlexCom104-GPS Communication Solution GPS Receiver, Socket Modems & Serial Port



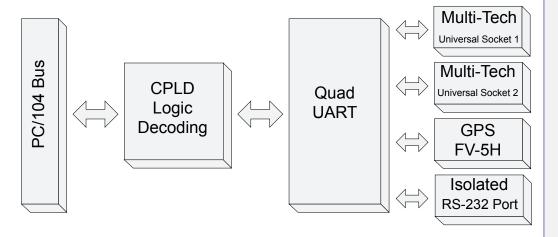


The FlexCom104-GPS is a PC/104 communication board that can support two Multi-Tech® Universal Socket Modems while providing GPS capabilities and I/O through an isolated RS-232 serial port. This multi-function design provides a single board solution for location and communication needs.

As with all Tri-M products, the FlexCom104-GPS, is engineered for rugged environments. A soldered-on GPS receiver and RS-232 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 a toll on embedded systems.

For applications where you need location information, as well as wired and wireless communications, the FlexCom104-GPS is a product that will meet your needs.

Block Diagram



Key Specifications

- 1 GPS Receiver
 50 channels
- 2 Universal Socket Ports Wireless communication
- 1 Isolated RS-232 Port 50V protection, 250Kbp/s
- Input Voltage
 +5VDC
- Extended Temperature
 -20°C to +60°C (-4°F to +140°F)

Advantages

- Integrated Functionality Single board with multiple services
- Soldered-on GPS Ruggedized solution
- Dual Socket Modem Ports
 Variety of communication options
- Isolated RS-232 Port
 Protection from transients, spikes and surges
- Configuration
 GPS module speed 9600 N81 baud

Our Capabilities

- Application Engineering
- Rapid Development
- Engineered Systems
- Custom Software
- Industry Standards & Certification
- Exceptional Customer Experience



FlexCom104-GPS Communication Solution **GPS Receiver, Socket Modems & Serial Port**



Specifications

Module

RS-232 Serial Port

RS-232 RX, TX, CTS, RTS, COM **Power** +5V supplied over PC/104 bus

Supplied Oscillator Frequency 14.7456MHz

UART Specifications

STC16C554DIQ64 Model

FIFOs 16 bytes **Ports**

Communication Modules

Universal Sockets

Manufacturer Multi-Tech Systems, Inc.

Voltage

GSM/GPRS, CDMA, EDGE, **Types**

CELL, Wi-Fi (802.11b), Bluetooth®

GPS

Receiver Module FV-5H Channels 50 channels Connector SMA Female

Configuration

GPS Module Speed 9600 N81 baud

Configurable in the operating system GPS 1 Pulse-Per-Second LED **Status**

Mechanical / Environmental

Dimensions PC/104 form factor compliant1

90 × 96 × 15mm (3.55 × 3.75 × 0.60")

Weight 43.5q / 1.53oz

Operating Temperature²³ -20°C to +60°C (-4°F to +140°F) 5% to 95% (non-condensing)

Relative Humidity

Certifications

RoHS

Manufactured in ISO 9001:2008, ISO 14001:2004 & **ANSI/ESD S20.20** Environments

1) The height is measured without the Universal Socket module installed. Some Universal Socket modules may be large enough to violate the PC/104 form factor.

Limited by the rechargeable backup battery for GPS.

3) The operating temperature for the Multi-Tech modules may vary.

Top View



Back View



Ordering Information

Models

FlexCom104-GPS-PBF Flexible communications platform with 50-channel **GPS** reciever

Options

Conformal Coating

For detailed dimensions, connector and pin spacing information, please see the FlexCom104-GPS User Guide



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