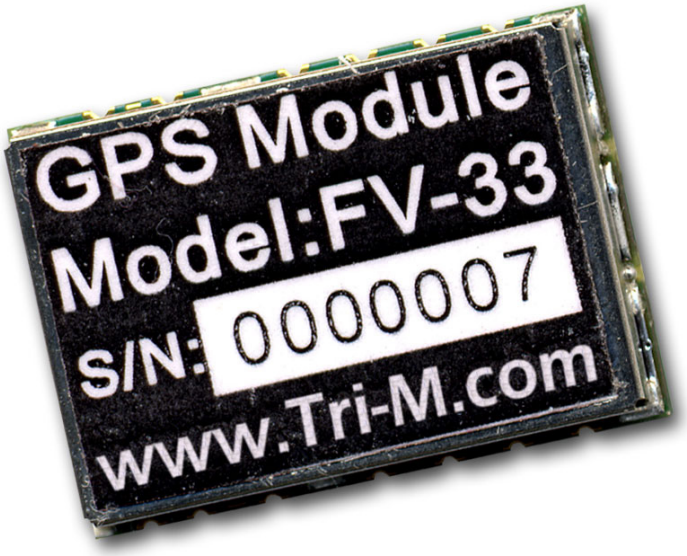
FV-33

GPS Engine Board (GPS Module)



features

- SiRF StarIII GPS Chipset
- Extremely fast TTFF at low signal level
- Compact size and suitable for space-sensitive application
- Support NMEA 0183 and SiRF binary protocol

specifications

General
· Chipset: SiRF Star Frequency, L1, 1575.42 MHz
· C/A code: 1.023 MHz chip rate
· Channels: 20 channel all-in-view tracking
· Sensitivity: -159 dBm

Accuracy
· Position: 10 meters, 2D RMS, 5 meters, 2D RMS, WAAS enabled
· Velocity: 0.1 m/s
· Time: 1us synchronized to GPS time

Datum
· Default: WGS-84

Acquisition Time
· Reacquisition: 0.1 sec., average
· Hot start: 1 sec., average
· Warm start: 38 sec., average
· Cold start: 42 sec., average

Dynamic Conditions
· Altitude: 18,000 meters (60,000 feet) max
· Velocity: 515 meters /second (1000 knots) max
· Acceleration: Less than 4g
· Jerk: 20m/sec **3

Power
· Main power input: 3.3V +- 5% DC input
· Power consumption: 70mA (Continuous mode), 35mA (Trickle power mode)

Interface
· Dimension: 27.9mm * 20mm * 2.9mm
· Baud rate: 4,800 to 57,600 bps adjustable
· Output message: SiRF binary or NMEA 0183 GGA, GSA, GSV, RMC, VTG, GLL
· Antenna: Active or passive antenna

Environmental
· Operating Temp
· -40°C to +85°C

Ordering Information

Part Number	Description
FV-33	GPS Engine Board (GPS Module)

this product is manufactured by:

TRI-M SYSTEMS

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