

FV-25

Multifunctional GPS Engine Board



Features

- ➔ Highly Sensitive:
 - Acquisition -139dbm
 - Tracking -149dbm
- ➔ Selectible baud rates from 2400 to 115200 bps
- ➔ SMA Connector
- ➔ Optional on-board antenna

The FV-25 was designed with versatility in mind. The FV-25 features USB and RS-232 signal output levels while supporting carrier phase, A-GPS and WAAS with a high update rate of 4Hz. The FV-25 is easily integrated with a broad spectrum of OEM system applications.

Specifications

General

- Receiver Type: L1 frequency, C/A code, 16 Channels
- Position Accuracy:
 - Without aid: 3.3m CEP
 - DGPS (WAAS, EGNOS, RTCM): 2.6m
- Start-up Time:
 - Hot start: < 2s
 - Warm start: 35s
 - Cold start: 41s
- Reacquisition Time: < 1s
- Acceleration: < 4g
- Update Rate: Up to 4Hz
- Timing Accuracy: 50ns RMS
- Sensitivity:
 - Acquisition: -139dBm
 - Tracking: -149dBm
- GPS supported
- Dead Reckoning
- Almanac Navigation
- Binary Code
- Available Baud Rates: 2400/4800/9600/38400/57600/115200bps

Power

- Input Voltage
 - V IN: DC 5.0 ~ 12.0V
 - V 33: DC 3.3V
- Backup Voltage: DC 1.95 ~ 3.6V
- Power Consumption @ 5.0V:
 - Acquisition: 101mA (RS-232)
 - Tracking: 84mA (RS-232)
 - Sleep mode: 20mA (RS-232)

I/O

- Protocols: NMEA, UBX binary, RTCM
- 1 PPS: @ 1.8V
- Signal Output: RS-232

Physical

- Operating Temperature: -40°C ~ 85°C
- Storage Temperature: -40°C ~ 125°C
- Size: 37.1mm x 25.6mm x 6.5mm (LxWxH)
- Weight: 9.5g

External Antenna Option

- Type: External Active or Passive Antenna
- Connector On Board: SMA/MCX/BNC Jack
- Input Voltage (V ANT): 1.8 ~ 8.0V DC

Ordering Information

Part Number	Description
➔ FV-25	➔ Multifunctional GPS Engine Board



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