

FV-M11 “GPS Receiver Module”

Overview:

The FV-M11 is used as integrated system, which can be a simple Position Velocity Time system for instance a G-Mouse, Personal navigation Device or a complex wireless system, such as a system with GSM function, systems with Bluetooth function and GPRS function.

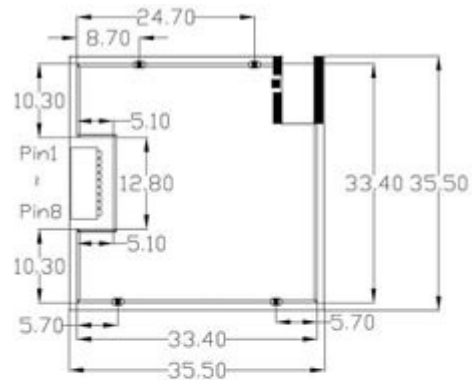
The module is best in systems that need good performance, sensitivity, low power consumption and a small in size

The FV-M11 has a MMCX RF connector



Features:

- MTK-3301 GPS Chipset
- 32 parallel channels
- High sensitive -158dbm
- 5Hz Update Rate
- Power supply 3.3V +-5%
- Low power consumption



Pin Number	Name	Description	Type
1	1PPS	1PPS TimeMark Output	Output
2	GND	Ground	
3	RX1	Serial Data Input(Command)	Input
4	TX1	Serial Data Output(Command)	Output
5	Vin	3.3-5V DC Power Input	Input
6	Vbat	Backup Battery	Input
7	RX2	RTCM IN	Input
8	TX2	Reserve	

Application:

Perfect match for any GPS mobile device, such as PND, GPS, PDA, personal Tracker and any portable devices, which need GPS features

Specification FV-M11 GPS Receiver Module:

PHYSICAL CONSTRUCTION :		PERFORMANCE :	
Dimension	L 35.4 mm W 35.4 mm H 8.6 mm	Sensitivity	-158dbm 1 channel (Support WAAS, SBAS EGNOS, MSAS) DGBS RTCM Protocol
Weight	15 gram	Receiver architecture	32 parallel channels
Receiving frequency	1575.42MHZ; C/A code	Position Accuracy	-Without aid 3.3m CEP -With SBAS 2.6m
RF connector	MMCX Jack	Start-up time	Hot start 1 sec typ.
Connector	Soldering		Warm start 35 sec typ.
Construction	Full EMI shielding		Cold start 41 sec typ.
Mounting	8 pin connector with 1.0mm pitch	Position accuracy	Without aid 3.35 m CEP With SBAS 2.60 m
ENVIRONMENTAL CONDITIONS :		Velocity	0.1 Knot RMS steady state
Temperature	Operating: -30° ~ + 80° Storage: -40° ~ + 85°	Update Rate	1 ~ 5Hz
COMMUNICATION :		External Antenna	GPS antenna with 2.8V power pin
Protocol	NMEA 0183 V3.01	Power Supply	3,3V +- 5%
Signal level	UART @ 2.8V*2	Current Consumption	Acquisition: 63mA
INTERFACE CAPABILITY :			Tracking
Output Sentences	Standard Option	Baud Rate	9600 bps (default) & 4800/9600/38400/57600/115200 bps are adjustable
	GGA, RMC, GSV*5, GSA*5, VTG GLL,ZDA		

This specification is subject to change without prior notice...