

# FV-M8 “GPS Receiver Module”

**Overview:**

The FV-M8 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.

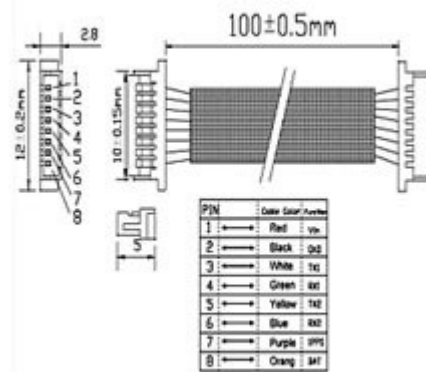


The module is best in systems that need good performance, sensitivity, low power consumption and a small in size

The FV-M8 features a high sensitive GPS receiver and GPS antenna

**Features:**

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



**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-M8 GPS Receiver Module:

PHYSICAL CONSTRUCTION :		PERFORMANCE :	
Dimension	L 30.0 mm W 30.0 mm H 8.6 mm	Sensitivity	-158dbm
Weight	15 gram	SBAS DGBS	1 channel ( Support WAAS, EGNOS, MSAS) RTCM Protocol
Receiving frequency	1575.42MHZ; C/A code	Receiver architecture	32 parallel channels
		Position Accuracy	-Without aid 3.3m CEP -With SBAS 2.6m
Connector	Soldering	Start-up time	Hot start 1 sec typ.
Construction	Full EMI shielding		Warm start 35 sec typ.
Mounting	Soldering		Cold start 41 sec typ.
ENVIRONMENTAL CONDITIONS :		Position accuracy	Without aid 3.35 m CEP With SBAS 2.60 m
Temperature	Operating: -30° ~ + 80°	Velocity	0.1 Knot RMS steady state
	Storage: -40° ~ + 85°	Update Rate	1 ~ 5Hz
COMMUNICATION :		Power Supply	3,3V 5V +- 5%
Protocol	NMEA 0183 V3.01	Current Consumption	Acquisition: 63mA
Signal level	UART @ 2.8V*2		Tracking 59mA first 5min 42mA after 5 min 33mA after 20 min
INTERFACE CAPABILITY :		Baud Rate	9600 bps (default) & 4800/9600/38400/57600/115200 bps are adjustable
Output Sentences	Standard Option	GGA, RMC, GSV*5, GSA*5, VTG GLL,ZDA	

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