



# GPS Engine Board

## Model: FV-M11



### Specifications:

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PHYSICAL CONSTRUCTION			PERFORMANCE			
Dimension	L35.4mm*W35.4mm*H8.6mm		Built-in Antenna	Highly-reliable ceramic patch		
Weight	15 grams		Sensitivity	-158dBm		
RF Connector	MMCX Jack		SBAS	1 channel (Support WAAS, EGNOS, MSAS)		
Receiving frequency	1575.42MHZ; C/A code		DGPS	RTCM Protocol		
Connector	8pin connector with 1mm pitch		Receiver architecture	32 parallel channels		
Construction	Full EMI Shielding		Start-up time	Hot start	1 sec. typical	
ENVIRONMENTAL CONDITIONS				Warm start	35 sec. typical	
Temperature	Operating: -30 ~ +80 °C Storage: -40 ~ +85 °C			Cold start	41 sec. typical	
Position accuracy			Without aid	3.3 m CEP		
			DGPS (RTCM)	2.6 m		
Velocity accuracy			0.1 Knot RMS steady state			
COMMUNICATION			Update Rate	1 ~ 5Hz		
Protocol	NMEA V3.01		Power Supply	3.3~5V +- 5%		
Signal level	UART @ 2.8V * 2		Power	Acquisition	63mA	
INTERFACE CAPABILITY			Consumption	Tracking	59mA (first 5 minutes)	
					42mA (after 5 minutes)	
					33mA (after 20 minutes)	
Standard Output Sentences	Default	RMC, GGA, GSV*5, VTG, GSA*5	External Antenna	GPS antenna with 2.8V power input		
	Optional	GLL, ZDA	Baud Rate	4800 bps (default) & 4800/9600/38400/57600/115200 bps are adjustable		