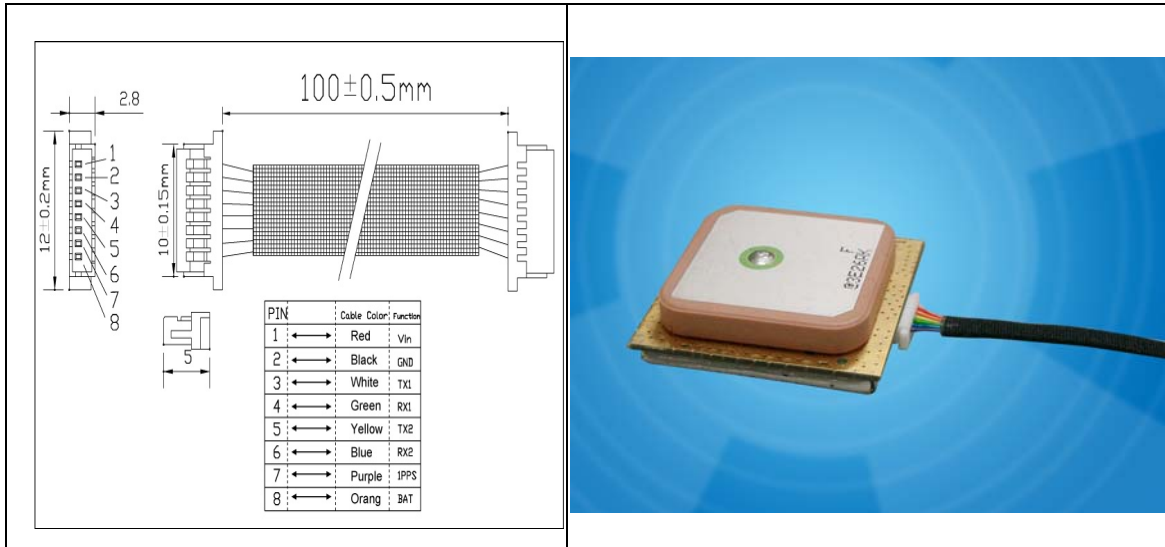




# GPS Engine Board

## Model: FV-M8



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### Specifications:

PHYSICAL CONSTRUCTION		PERFORMANCE		
Dimension	L30mm*W30mm*H8.6mm	Built-in Antenna	Highly-reliable ceramic patch	
Weight	15 grams	Sensitivity	-158dBm	
		SBAS	1 channel (Support WAAS, EGNOS, MSAS)	
		DGPS	RTCM Protocol	
Receiving frequency	1575.42MHZ; C/A code	Receiver architecture	32 parallel channels	
Connector	8pin connector with 1.0mm pitch	Start-up time	Hot start	1 sec. typical
			Warm start	35 sec. typical
			Cold start	41sec. typical
Mounting	Soldering	Position accuracy	Without aid	3.3 m CEP
			DGPS (RTCM)	2.6 m

Construction	Full EMI Shielding		Velocity accuracy	0.1 Knot RMS steady state				
<b>ENVIRONMENTAL CONDITIONS</b>			Update Rate	1 ~ 5Hz				
Temperature	Operating: -30 ~ +80 °C		Power Supply	3.3~5V +- 5%				
	Storage: -40 ~ +85 °C			Current Consumption	Acquisition	63mA		
<b>COMMUNICATION</b>			Tracking		59mA (first 5 minutes)			
					42mA (after 5 minutes)			
Protocol	NMEA V3.01				33mA (after 20minutes)			
Signal level	UART @ 2.8V * 2		<b>INTERFACE CAPABILITY</b>					
Standard Output Sentences						Baud Rate	4800 bps (default) & 4800/9600/38400/57600/11520 0 bps are adjustable	
Default	RMC, GGA, GSV*5, VTG, GSA*5							
Optional	GLL, ZDA							

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