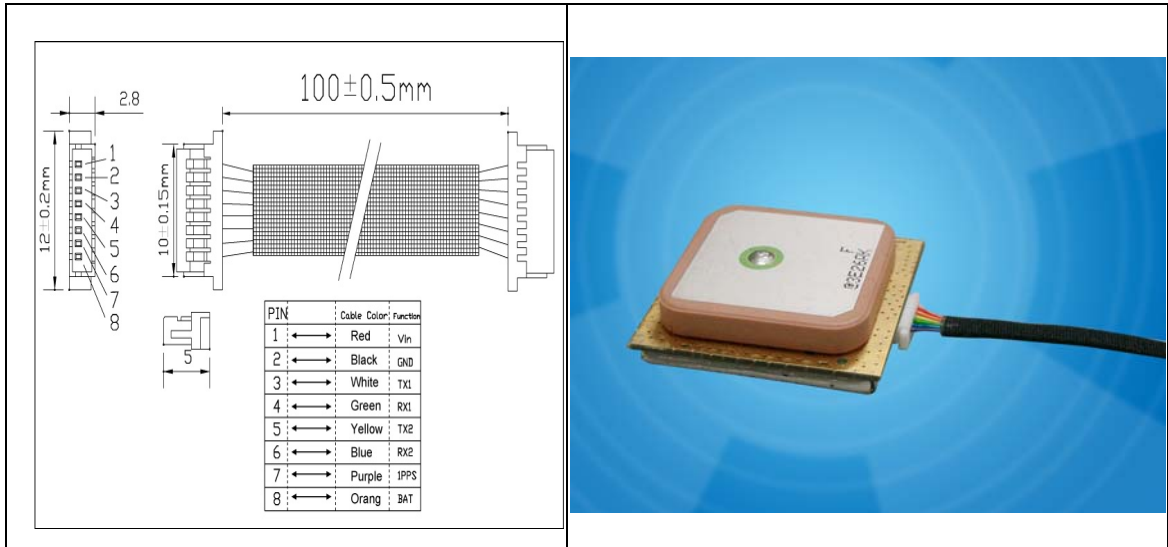




GPS Engine Board

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

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