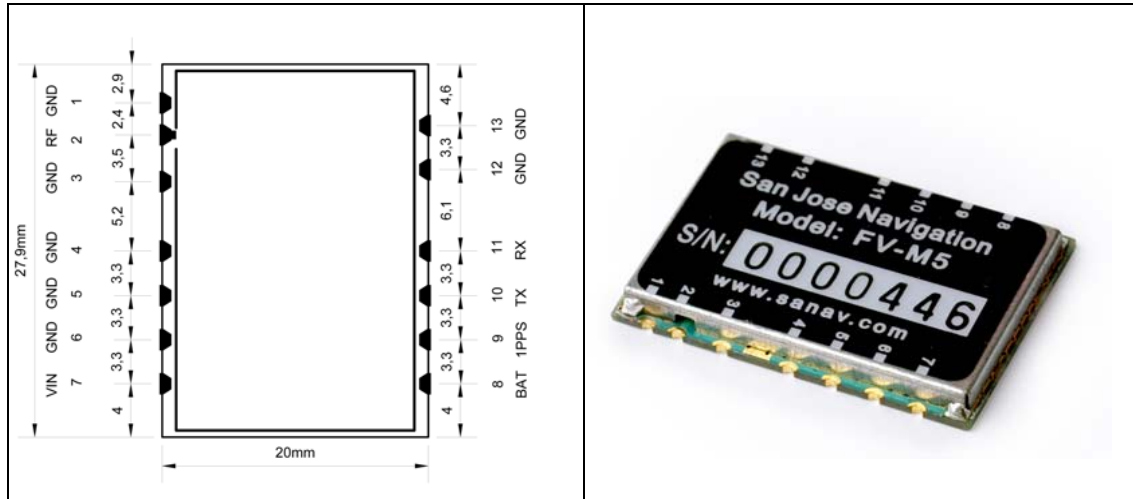




# GPS Engine Board

Model: FV-M5



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## Specifications:

PHYSICAL CONSTRUCTION		PERFORMANCE	
Dimension	L27.9mm*W20mm*H2.9mm	Sensitivity	-158dBm
Weight	3 gram	SBAS	1 channel (Support WAAS, EGNOS, MSAS)
Receiving frequency	1575.42MHZ; C/A code	Receiver architecture	32 parallel channels
Mounting	SMD	Start-up time	Hot start 1 sec. typical
Construction	Full EMI shielding		Warm start 35 sec. typical
			Cold start 41sec. typical
<b>ENVIRONMENTAL CONDITIONS</b>		Position accuracy	Without aid 3.3 m CEP
Temperature	Operating: -30 ~ +80 °C	With SBAS	2.6 m
	Storage: -40 ~ +85 °C	Velocity accuracy	0.1 Knot RMS steady state
<b>COMMUNICATION</b>		Update Rate	1 ~ 5 Hz
Protocol	NMEA V3.01, RTCM	Power Supply	3.3~5V +- 5%

Signal level	UART @ 2.8V		Current Consumption	Acquisition: 57mA	
<b>INTERFACE CAPABILITY</b>				Tracking	55mA (first 5 minutes)
					38mA (after 5 minutes)
				30mA(after 20 minutes)	
Output Sentences	Standard	GGA, RMC, VTG, GSV*5, GSA*5	Baud Rate	4800 bps (default) & 4800/9600/38400/57600/115200 bps are adjustable	
	Option	GLL, ZDA			

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