



ftech Corporation

16 Nan-ke 9th Rd Science-based Industrial Park, Tainan 741, Taiwan, R.O.C.

Tel: +886-6-6008999 Fax: +886-6-5050826

<http://www.f-tech.com.tw>



Part Number FGPXMO162

Technical Specification

	Min.	Typ.	Max.
Receiver		L1, C/A code	
Correlators/Channels		32/8	
Update Rate	1/minute	1/second	1/second
Satellite Reacquisition Time		1 second	
HotStart		12 seconds (50%)	
Warm Start		32 seconds (50%)	
Cold Start		120 seconds (50%)	
Tracking Sensitivity		-143dBm	
Power Consumption (VCC) @ 3.3 V Active mode, searching & tracking (v 2.2)		19 mA (avg.)	
Voltage Supply VCC	3 V	3.3 V	3.65 V
Back Up Voltage Supply VRTC BK	1.9 V		3.65 V
Output Protocol		NMEA 0183, v3.0	
Position Accuracy - Horizontal, SA off - DGPS corrected		5 meters CEP (50%) 1 meter	
Timing output accuracy	- 100 nanosec.		100 nanosec.

FGPXMO162 has a solder active antenna.



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Antenna Specification

Voltage	2.7V	3.3V	5V
Current Consumption	4mA	5~6mA	9mA
Fo		1575.42MHz	
Bandwidth		2.046MHz	
Operation Temperature (centigrade)		-40~80°C	
Output VSWR		2	
Impedance		50W	

Patch Antenna

Polarization		R.H.C.P.	
Gain to Fo		3dBi	
Impedance		50W	

Pre Amplifier (dB)

Gain to Fo	19dB	21dB	23dB
Noise Figure		2.5dB	
Impedance		50W	

Dimensions



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		TITLE		KIT/GPS		TREATMENT		DWG. NAME	
		MATERIAL							
		UNIT		SCALE		DATE		PART NO.	
		mm		1:1					
		DESIGN BY		CHECK BY		APPROVAL BY		QTY/SET	
		Jiun-Shin							
		ftech		ftech Corporation		DRAWING NO.		REV	
		TOLERANCES		BY		DATE		REV	
		尺寸公差 (±0.2)							
		X ±0.1							
		.XX ±0.03							
		.XXX ±0.01							
		ANGLES ±2°							