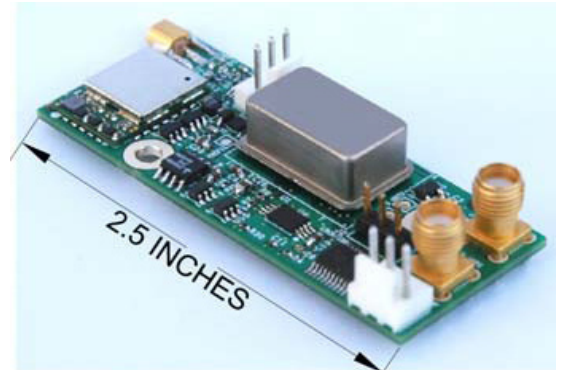


M9100 Series

1 x 2.5 x 0.5 inch GPSDO

- 1 x 2.5 x 0.5 Inch Package
- < 1 Minute OCXO Warm Up
- 50 Channel WAAS GPS Receiver
- Very low power (1.35 W typ.)
- Applications: Fixed/Mobile Communications, Man-Pack Radios, Smart Weapons



Module Specification:	M9100	
1 PPS Accuracy	±50ns to UTC RMS (1-Sigma) GPS Locked	
Holdover Stability	<±11us over 3 Hour Period @+25°C (No Motion)	
1 PPS Output (OCXO Flywheel Generated)	3.3VDC CMOS	
RS-232 Control	SCPI-99 Control Commands 1PPS Level Output for Linux SNTP Server Software (with D Sub RTS pin)	
GPS Frequency	L1, C/A 1574MHz (Galileo supported when available)	
GPS Antenna	Active and Passive	
GPS Receiver	50 Channels, Mobile, WAAS, EGNOS, MSAS capable	
Sensitivity	Acquisition -144 dBm, Tracking -160 dBm	
TTFF	Cold Start - <45 sec, Warm Start - 1 sec, Hot Start - 1 sec	
ADEV	2 E-011/1s	
TTL Alarm Output	GPS Unlock and Hardware Failure, and LOCK indicators	
Warm Up Time / Stabilization Time	<5 min at +25°C to 1E-08 Accuracy	
Supply Voltage (Vdd)	+7.5 to 14.0 VDC±5% (12 VDC Nominal)	
Power Consumption	<1.8W Max, 1.35W Typ.	
Operating Temperature	-25°C to +85°C	
Storage Temperature	-45°C to +85°C	
Oscillator Specification:		
Frequency Output	10MHz	
10MHz Retrace	±2E-08 After 1 Hour	
Frequency Stability Over Temperature (Unlock Condition)	±2.5E-08	
Output Amplitude	+13dBm ± 3dBm	
OCXO Warm Up Time	< 1 min	
Phase Noise	1Hz	-80dBc/Hz
	10Hz	-110dBc/Hz
	100Hz	-135dBc/Hz
	1kHz	-145dBc/Hz
	10kHz	<-145dBc/Hz
Connections:	Connector Type:	
1PPS Output, 10MHz Output	SMB	
RS-232	3 Pin	