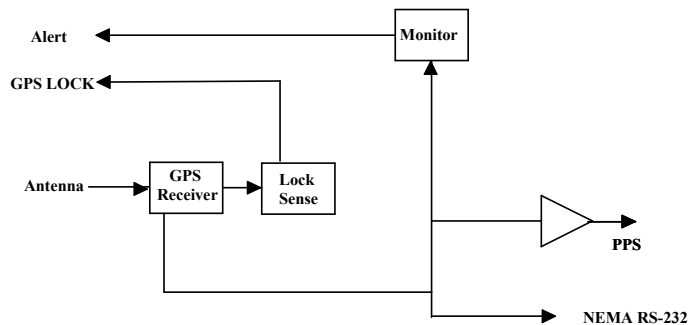


NR3620-LT

NMEA- PPS Source

KEY FEATURES



The NR3620-LT is for those applications not requiring a 10 MHz sine but rather require access to the PPS signal and/or RS232 NEMA data. The NEMA data allows time stamping, location and other uses. The PPS signal can be used for testing, timing where a high accuracy timing signal is required. Eliminating the Sine output and lowers cost for those applications not needing the output. There is extensive built-in test that drives an LED and relay contacts for system integration. There is also a GPS lock status signal (and LED). There are options that extend the power operating range from -60 vdc to +60 vdc.

Product Highlights



High Sensitivity GPS Receiver

The 26 channel GNSS receiver is a high correlator design that can perform very rapid sky searches for satellite signals even under very poor signal conditions.

Features

- Cost effective source-NEMA and Timing
- Built in test alarms
- GPS lock indicator and signal

Technical Specifications

PPS		
Amplitude for 1PPS	3.3 Vdc CMOS (5 Vdc option)	
Pulse width for 1PPS	Programmable 1 to 500ms in 1 ms steps (default 200ms)	
Rise time for 1PPS	<10 ns (faster edge available)	
Connector	sma	
Load Impedance	50 Ohm	
Location	rear	
Remote interface & control		
Protocol	RS232 NMEA-0183	
Connector	DB-9	
Location	Rear panel	
Protocol	Bit plus stop	
Standard Baud Rates	Selectable 4800, 9600, 19200, 38400, 57600 or 115200 bps	
GNSS receiver		
	GPS L1 C/A, GLONASS L1OF, QZSS L1 C/A, SBAS L1 C/A (Ready): Galileo E1B/E1C, QZSS L1S	
Channels	26 channels (GPS, GLONASS, QZSS, SBAS)	
Sensitivity		
GPS	Tracking: -161 dBm	
	Hot Start: -161 dBm	
	Warm Start: -147 dBm	
	Cold Start: -147 dBm	
	Reacquisition: -161 dBm	
GLONASS		
	Tracking: -157 dBm	
	Hot Start: -157 dBm	
	Warm Start: -143 dBm	
	Cold Start: -143 dBm	
	Reacquisition: -157 dBm	
	With Novus recommended antenna	
Antenna with LNA		
Antenna power	3.5 Vdc, < 35 ma (on center conductor) (factory configurable to 5 Vdc)	
Frequency	1574-1607 MHz	
Nominal Gain	2 dBic	
Amplifier gain	26 dB	
Noise Figure	< 2.0 dB	
Out of Band rejection	Fo±50MHz=60 dBc, Fo±60 MHz	
DC current	<25 ma@3.5 Vdc	

Options:		

Environmental and Mechanical

Operating temperature	0 to 50C non-condensing (extended temperature range available)	
Storage temperature	-40 to 70C	
Width	4 inch (exclusive of connectors)	
Depth	5 inch	
Height	1.5 in	
Weight	~16 oz	

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