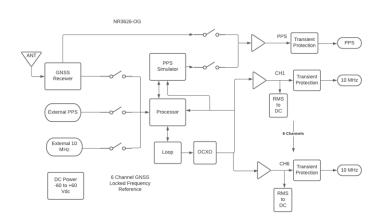


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# NR3626-O/G

# 10 MHz Frequency Reference, OCXO, GNSS-Locked, 6- Channel With External Synchronization capability to PPS or 10 MHz

#### **KEY FEATURES**



The NR3626-O/G is a high performance 10 MHz GNSS locked, OCXO based frequency reference.

The 10 MHz outputs are 13 dBm while the PPS outputs can be 5 or 3.3 Volt logic levels with the capability of driving a 50 Ohm load. The unit may be optionally synced to an external 10 MHz or PPS signal. The priority for each timing source is user settable.

## **Product Highlights**



#### **Six Channels**

Six transient and fault protected channels.

#### **Versatile Power**

-60 to +60 Vdc in three ranges

### **Low Phase Noise**

- 155 dBc/Hz @ 10kHz

## **External Synchronization**

Locks to GNSS or an external 10 MHz or PPS. User selectable priorities.



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# **Technical Specifications**

10MHz sine	13 ±2 dBm,50 Ohm BNC
Harmonics	Less than -30 dBc
First year frequency	±50 ppb (unlocked)
stability	
Temperature stability	±10 ppb (unlocked)
Phase noise	
1 Hz	-100
10 Hz	-130
100 Hz	-145
1000 Hz	-150
10k Hz	-155
Typical Allan Deviation	
0.1 secs	1.5 E-12
1 sec	7.5E-12
10 sec	2.0E-11
100 sec	7.0 E-11
500 sec	2.5 E-11
PPS	
Amplitude for 1PPS	3.3 Vdc CMOS (5 Vdc option) ±100 mA
Pulse width for 1PPS	Programmable 1 to 500ms in 1 ms steps
Rise time for 1PPS	<5 ns (faster edge available)
Jitter	GNSS-PPS < 10ns
Jillei	
Connector	SYTH-PPS <250 psec
Load impedance Location	50 Ohm
Location	rear

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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	26 channel receiver
Antenna power	3.5 Vdc, < 20 mA (on center conductor) (factory configurable to 5 Vdc)
Frequency	1574-1607 MHz
Nominal gain	2 dBic
Amplifier gain	26 dB
<u> </u>	< 2.0 dB
Noise figure Out-of-Band rejection	Fo±50MHz=60 dBc, Fo±60 MHz
DC current	<25 mA@3.5 Vdc
Power requirements	Standard configuration is 12Vdc (9 to 15Vdc)
Power requirements	Options- ±24Vdc (20 to 30Vdc), ±48Vdc (40 to 60Vdc)
	AC adapter available 100 to 240Vac, 50/60Hz
Connectors	BNC 10 MHz output
Connectors	BNC 10 MHz input (5 to 15 dBm)
	BNC PPS (3.3 Vdc CMOS)
DCCCC	, ,
RS232	DB9 female standard (male option available)
Power connector	4-pin power connector - power in. Mates with On-Shore Tech OSTTJ0411530.



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#### **Environmental and Mechanical**

Operating temperature	0 to 50°C non-condensing (extended temperature range available)
Storage temperature	-40 to 70°C
Width	6.0"
Depth	6.0" (exclusive of connectors)
Height	1.58 "
Weight	~16 oz.

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