

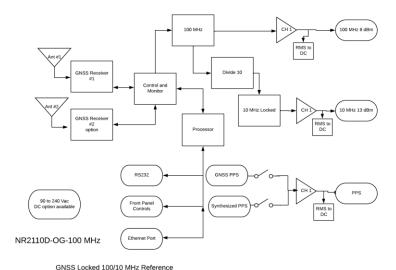
Company Datasheet #	NR2110D-O-G- 100	
Revision #:	Α	
Date:	080824	

### NR2110D-O-G

# 100MHz GNSS Locked Reference with Networking/options







#### Networking

**SNMP** 

#### Phase Noise

Three Performance levels

All channels are monitored for a fault condition and built in test monitors critical circuits which drives panel indicators as well as alarm relay that can be wired into an alarm panel. Dual time base option independently monitors frequency.

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## Technical Specifications Environmental and Mechanical

100 MHz Sine	8 dBm 50	ohm- BN	C-		
Harmonics	Less than				
First Year Frequency Stability	± 50 ppb (	unlocked)			
Temp Stability	±10 ppb				
Daily Aging OCXO	±5 ppb/da	v (unlocke	ed)		
Yearly aging	±30ppb (u		,		
Phase Noise	11	,			
Three different options for	Phase Noise dBc/Hz				
phase performance is	Offset	Α	В	С	
available.	10	-95	-90	-85	]
	100	-122	-120	-115	
	1k	-150	-140	-135	
	10k	-160	-155	-145	-
	100k	-162	-155	-145	-
Accuracy		- 102	-130	- 140	
Accuracy PPS	±5E-10				
	2 2 V/do C	MOS /F \	do option'	\	
Amplitude for 1PPS Pulse width for 1PPS	3.3 Vdc CMOS (5 Vdc option)  Programmable 1 to 500ms in 1 ms steps				
Rise time for 1PPS	<2 ns (fas			1 1113 SICP	95
Connector	SMA	sier euge	avaliable)		
Load Impedance	50 Ohm				
Location	rear				
Location	rour				
Remote interface & control					
Protocol	RS232 NI	ИEA-0183	}		
Connector	DB-9				
Location	Rear panel				
Protocol	Bit plus stop				
Standard Baud Rates	Selectable 4800, 9600, 19200, 38400, 57600 or 115200 bps				
Connectivity	Ethernet: 10/100M RJ-45				
SNMP	v2				
GNSS receiver		,		,	L1 C/A, SBAS L1 C/A
	(Ready): Galileo E1B/E1C, QZSS L1S				
Channels	26 channels (GPS, GLONASS, QZSS, SBAS)				
Sensitivity					

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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
Recommended 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
Accuracy-Auto cal (24 hrs)	<2E-11
Alert	Status indicator and relay contacts via rear panel BNC
Power Requirements	90 to 264 VAC, 50/60hz

Operating temperature	0 to 50C non-condensing
Storage temperature	-40 to 70C
Height	1RU (~1.73)
Width	19 inch
Depth	12 inch
AC input	90 to 250 VAC, 50/60hz, less than 10 watts
Weight	≈5.5lbs

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