

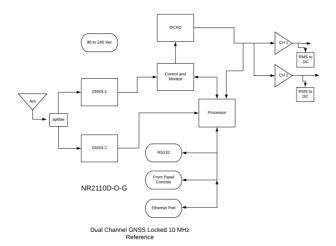
Company Datasheet #	NR2110D-O-G	
Revision #:	С	
Date:	012722	

NR2110D-O-G

10MHz Dual Channel GNSS Locked Reference with Networking







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.

Networking

SNMP

Phase Noise

Offset Frequency (Hz)
Typical (dBc / Hz)
10 -125
100 -148
1K -150
10k -152

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Technical Specifications Environmental and Mechanical

10MHz Sine	2- 1.0 Vrms, 50 ohm- BNC-
Harmonics	Less than -30dB
First Year Frequency Stability	± 50 ppb (unlocked)
Temp Stability	±10 ppb (unlocked)
Daily Aging OCXO	±5 ppb/day (unlocked)
Yearly aging	±30ppb (unlocked)
PPS	
Amplitude for 1PPS	3.3 Vdc CMOS (5 Vdc option)
Pulse width for 1PPS	Programmable 1 to 500ms in 1 ms steps
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
Connectivity	Ethernet: 10/100M RJ-45
SNMP	v2
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
Recommended Antenna with LNA	
Antenna power	3.5 Vdc, < 35 ma (on center conductor) (factory configurable to 5 Vdc)
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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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