

Company Datasheet #	NR2310D-O-G
Revision #:	A
Date:	050420

NR2310D-O-G

10MHz 10 Channel GNSS Locked Reference with Networking







Networking

SNMP

Phase Noise

Offset Frequency (Hz) Typical (dBc / Hz) 10 -120 100 -145 1K -145 10k -150

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.

Page #:	1 of 3	www.novuspower.com	



Company Datasheet #	NR2310D-O-G
Revision #:	А
Date:	050420

Technical Specifications

Output	10 MHz,1.0 Vrms ±0.2, into 50 Ohms, 10 channels, Sine
Harmonic Distortion	< -30 dBc
First Year Freq Stability	± 50 ppb (unlocked)
Temperature Stability	± 10ppb unlocked
Daily Aging OCXO	± 5 ppb/day unlocked
Yearly Aging	± 50 ppb unlocked
Allan Deviation	< 1E-11 @300 seconds
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)
Jitter	GNSS-PPS < 10ns
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
SNMD (option)	
Demote maniforing & control	Internet
Remote monitoring & control	Output emplitude, all power supplies. CNSS look status, pumber of
	output amplitude, all power supplies, GNSS lock status, humber of
interface for monitoring	Salemies, Duni-III lest status,
Transaction/decodable	English format
commands	Lightionnat
Single monitoring command	Lindated every second
Connector	RJ-11

Page #:

2 of 3



Company Datasheet #	NR2310D-O-G
Revision #:	А
Date:	050420

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

Environmental and Mechanical

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

This document is copyright © May 4, 2020 Novus Power Products LLC. All rights reserved. This document is provided for information purposes only; contents are subject to change without notice. It is not warranted to be error-free, nor subject to any other warranties or conditions including implied warranties and conditions of merchantability or fitness for a particular purpose.