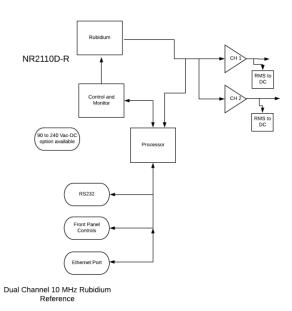


Company Datasheet #	NR2110DR
Revision #:	Α
Date:	07012020

NR2110D-R

10MHz, Dual Channel, Rubidium Reference with Networking Capability





Networking

SNMP option

Phase Noise

Offset Frequency (Hz) Typical (dBc / Hz)

10	-85
100	-115
1K	-135
10k	-140

High Performance reference featuring the low phase noise of an OCXO, holdover performance of Rubidium and long-term stability of GNSS locking. Networking affords remote control and monitoring via SNMP.

Technical Specifications

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Output	10 MHz,0.5 Vrms ±0.1, into 50 Ohms, 10 channels, Sine	
Harmonic Distortion	< -30 dBc	\top
Yearly Aging	<± 1 ppb	
Connectors	BNC	
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	+
Standard Dadd Nates	Selectable 4000, 9000, 19200, 30400, 37000 01 113200 bps	
SNMP (option)		+
Remote monitoring & control	Internet	+
Parameters monitored	Output amplitude, all power supplies, GNSS lock status, number of	+
Locally – present on remote	satellites, Built-In test status,	
interface for monitoring	,	
Transaction/decodable	English format	
commands		
Single monitoring command	Updated every second	
Connector	RJ-45	
Rubidium Atomic		
Accuracy at shipment	+/-5.0E-11	士
Warm-up time	<15 minutes	
Time of lock	<5 min -130 dBm	
Time to achieve accuracy	<±1E-9<20 minutes	
Aging - monthly	<±5E-11	
Aging - yearly	<±1.0E-9	
Stability: Allan Deviation		
1s	<3E-10	
10s	<1E-10	
100s	<3E-11	
SSB Phase noise for 10Mhz		\perp
	Standard	\perp
10Hz	<-85dBc	_
100Hz	<115dBc	_
1000Hz	<-135dBc	4
10000Hz	<-140dBc	_
		\perp
		\perp
		_
		\bot



Company Datasheet #	NR2110DR
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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 (DC power options available)	
Weight	≈5.5lbs	

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