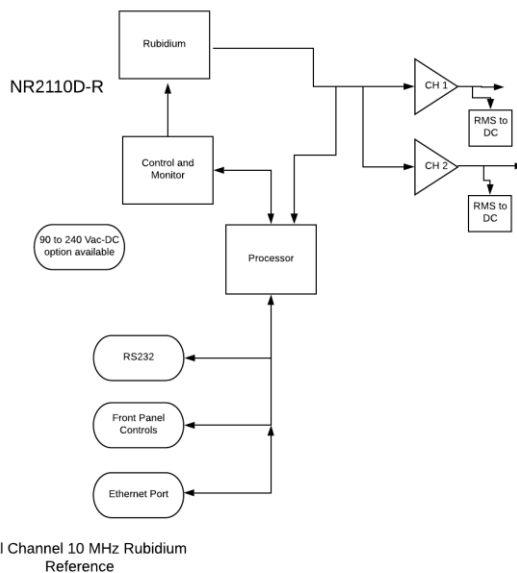


Company Datasheet #	NR2110DR
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NR2110D-R

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 10 MHz frequency reference featuring holdover performance of Rubidium. Networking affords remote control and monitoring via SNMP.

Technical Specifications

Company Datasheet #	NR2110DR
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Output	10 MHz, 0.5 Vrms ± 0.1 , into 50 Ohms, 10 channels, Sine
Harmonic Distortion	< -30 dBc
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
SNMP (option)	
Remote monitoring & control	Internet
Parameters monitored Locally – present on remote interface for monitoring	Output amplitude, all power supplies, GNSS lock status, number of satellites, Built-In test status,
Transaction/decodable commands	English format
Single monitoring command	Updated every second
Connector	RJ-45
Rubidium Atomic	
Accuracy at shipment	$\pm 1.0E-10$
Warm-up time	<15 minutes
Time of lock	<5 min -130 dBm
Time to achieve accuracy	$\pm 1E-9$ <20 minutes
Aging - monthly	$\pm 5E-11$
Retrace	$\pm 1.0E-10$ after 1 Hour
Stability: Allan Deviation	
1s	$< 3E-10$
10s	$< 1E-10$
100s	$< 3E-11$
SSB Phase noise for 10Mhz	
	Standard
10Hz	<-85dBc
100Hz	<115dBc
1000Hz	<-135dBc
10000Hz	<-140dBc



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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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