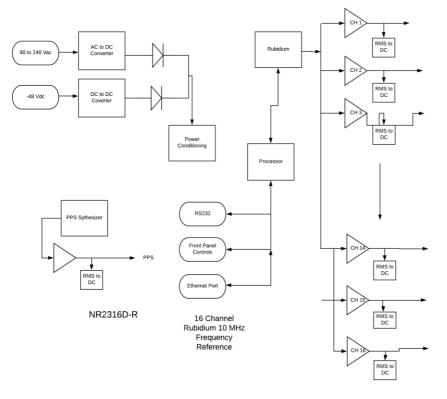


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NR2316D R

10 MHz, 16 Channel, Low Cost Rubidium Reference





Rubidium

Holdover < 1 ppb/year

Control

Local and remote control options (RS232- SNMP)

Sixteen channels meet the needs of most applications without requiring a distribution amplifier. Continuous channel monitoring available locally or via RS232/Ethernet/SNMP. Dual power source options for AC and DC power driven systems. Auto-calibration minimizes long-term drift.

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Specifications:

10 MHz Sine	0.5 ±0.1 Vrms, 16 channel, 50 Ohm - BNC
Remote interface & control	
Protocol	RS232
Connector	DB-9
Location	Rear panel
Protocol	Bit plus stop
Standard Baud Rates	Selectable 4800, 9600, 19200, 38400, 57600 or 115200 bps
Parameters monitored	Output amplitude, all power supplies, Built-In test status,
Locally – present on remote	
interface for monitoring	
Transaction/decodable	English format
commands	
Single monitoring command	Updated every second
Connector	DB-9
SNMP (optional)	RJ45
SSB Phase noise for 10Mhz	
	Standard
10Hz	<-85dBc
100Hz	<115dBc
1000Hz	<-135dBc
10000Hz	<-140dBc
Rubidium Atomic	
Accuracy at shipment	+/-1.0E-10
Warm-up time	<15 minutes
Time of lock	<5 min -130 dBm
Time to achieve accuracy	<±1E-9<20 minutes
Aging - monthly	<±5E-11(unlocked)
Aging - yearly	<±1.0E-9 (unlocked)
Stability: Allan Deviation	
1s	<3E-10
10s	<1E-10
100s	<3E-11
PPS (synthesized)	
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	< 1ns

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Connector	SMA
Load Impedance	50 Ohm
Location	rear
RS232 Serial Status Port	Status-channel voltages

Environmental and Mechanical

Operating Temperature	0 to 50C non-condensing	
Storage Temperature	-40 to 70C	
Height	1RU (~1.73)	
Width	19.0 inch	
Depth	13.0 inch	
AC input	90 to 250 VAC, 50/60Hz, less than 10 watts (DC power options)	
Weight	≈5.5lbs	

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