

DATA SHEET	NR7000-NP
REVISION	A
DATE	040522

# NR7000-NP picoPOD

# NMEA and PPS source



The NR7000-NP *pico*POD is a high-performance source for NMEA and PPS when a reference is not required in an ultra-compact package that affords simple system integration.

The *pico*POD is just 2"x2"x0.9" and requires only a 5 Vdc source. Outputs are PPS at 3.3 Vdc, and NMEA at LVCMOS or RS232 levels.

## Low Power Consumption

Steady state power < 0.6W. With a single 5V input,

#### **Programmable PPS**

Pulse width of the PPS is field programmable via the rs232 port in 1 ms increments.

## **26 Channel GNSS Receiver**

26 channels (GPS, GLONASS, QZSS, SBAS)



DATA SHEET	NR7000-NP
REVISION	A
DATE	040522

# **Technical Specifications**

PPS			
Amplitud	e for 1PPS	3.3 Vdc CMOS (5 Vdc option)	
Pulse wi	dth for 1PPS	Programmable 1 to 500ms in 1 ms steps	
Rise time	e for 1PPS	<5ns	
Connect	or	sma	
Load Im	pedance	500 Ohm	
Location		Side Connector	
Remote	interface & con	trol	
Protocol		RS232 NMEA-0183	
Connect	or	sma	
Location		side panel	
Protocol		Bit plus stop	
Standard	Baud Rates	Selectable: 9600, 19200, 38400, 57600 or 115200 bps	
GNSS re	eceiver	GPS L1 C/A, GLONASS L1OF, QZSS L1 C/A, SBAS L1 C/A	
		(Ready): Galileo E1B/E1C, QZSS L1S	
Channel	S	26 channels (GPS, GLONASS, QZSS, SBAS)	
Sensitivi	ty		
GPS		Tracking: -161 dBm	
		Hot Start: -161 dBm	
		Warm Start: -147 dBm	
		Cold Start: -147 dBm	
		Reacquisition: -161 dBm	
GLONAS	SS		
		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		
	Daga #		
	гауе #:	2 UI 3 www.novuspower.com	



 DATA SHEET
 NR7000-NP

 REVISION
 A

 DATE
 040522

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
	5 to 6 VDC Peak power < 3 watts, steady state < 2 watts
Power	
Power connector	On ten pin connector
Mounting	4 -#2-56 threaded mounting holes
Chassis	Aluminum

# **Environmental and Mechanical**

-20 to 50°C non-condensing (extended temperature range available)
-40 to 70°C
2"
2" (exclusive of connectors)
0.9"
<3 oz

This document is copyright © April 5, 2022 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.