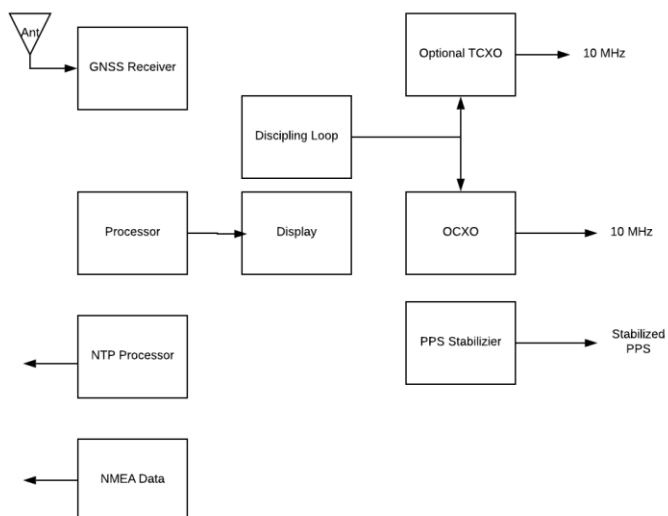


NTP0100

NTP Time Server with 10 MHz and PPS

KEY FEATURES



The NTP0100 is a precision GNSS/GPS-locked NTP Time Server with optional PPS and 10 MHz frequency reference. OCXO or TXCO holdover. Stabilized PPS reduces PPS to less than 5 ns.

Product Highlights



High Sensitivity GNSS Receiver

The 26 channel high-sensitivity, high-accuracy Multi-GNSS receiver. Supports TRAIM, GPS, GLONASS, QZSS, SBAS, Active Anti-Jamming and Advanced Multipath Mitigation Functions.

Outputs

10 MHz and PPS outputs

Company Datasheet #	NTP0100
Revision #:	A
Date:	07162020

Technical specifications

10MHz Sine	1 Vrms, 1 channel, 50 Ohm- BNC
Harmonics	Less than -30dB
First year freq stability	± 50 ppb (long-term stability effectively cancelled by auto-cal)
Temperature stability	± 10ppb
Daily aging OCXO	± 5 ppb/day
Yearly aging	± 30ppb
Accuracy: Auto-Cal (24 hrs.)	10 MHz <10ppb (does not include crystal drift if not GPS locked)
Receiver sensitivity	-155dBm
PPS	15ns RMS accuracy, 3.3 volt logic
Antenna	SMA female – internal 3.3V supply, 45mA max. Novus NA103A or Novus NA106
Power	Standard configuration is 12Vdc (9 to 15Vdc) Options- ±24Vdc (20 to 30Vdc), ±48Vdc (40 to 60Vdc) AC adapter available 100 to 240Vac, 50/60Hz
Alert	20Vdc/Vac, 0.5 Amp relay contacts: relay closed for normal condition, BNC
NTP	V03
Holdover	<1 ms/Day OCXO
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

