

NTS-4000 OCXO

NTP/PTP IEEE1588 Network Time Server

- UTC from GNSS & DCF77*
- SERVER NTP STRATUM-1
- GRANDMASTER PTP/IEEE1588



- 2x LAN w/ PoE (RJ45)
- 1PPS in, 1PPS out (BNC)
- IRIG-B in, IRIG-B out (BNC)
- NTP rfc5905-5909 (rfc1305)
- PTP IEEE1588 (software PTPd)
- 2x (redundant) ANT inputs
- Local & TAI Time support
- RS232/485 & USB interface
- SNMP v2,v3 & MIB2 agent
- RADIUS client*
- MD5, RSA, DSA, SSL security
- NTP authentication
- remote configuration:
HTTP, HTTPS, TELNET, SSH
- -55C/-67F antenna available*
- Dual* (redundant) PWR supply
- OCXO holdover w/ 10MHz out

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NTS-4000 delivers time directly to LAN network using NTP PTPv2 IEEE1588 protocols. It is equipped with 2 independent Ethernet 10/100Mbps. The GNSS is a standard UTC reference time. Server is equipped with 2 independent GNSS receiver inputs ANT1 & 2. Therefore it can support independent satellite receivers too. Built-in OCXO oscillator guarantees time for limited medium period of missing GNSS signals. Both ANT1/ANT2 interfaces can be switched to output mode emulating GNSS NMEA signals with PPSout. Server can be synchronized to external clocks using 1PPS, IRIG-B inputs, rs232 (ToD). It also provides ref. output time via 1PPS, IRIG-B, rs232, 10MHz, rs232(SYSPLEX,IRIG).

NTS-4000 is STRATUM-1, PTP/IEEE1588 GRANDMASTER supporting software stamps. It offers accuracy of μ s on LAN. Server supports leap second, synchronizes UTC time monotonously (jump-free) and can simultaneously serve up to 100,000 NTP clients.

Firmware basis on FreeBSD UNIX. It includes best stable IP stack. Unit has natural air cooling system without fans. This fact makes unit long life. Server uptime is counted in years of continuous working 24/7. It is manufactured since 2007 and it is regularly hardware & software updated to keep state of the art functionality and cyber-security.

Redundant Synchronization

- 2x RJ45 (ANT1, ANT2) rs485 w/1PPS:

- GPS L1 (1575,42MHz)
 - GLONASS L1 (1598,06-1605,38MHz)
 - GALILEO L1 (1575,42MHz)
 - BEIDOU L1 (1561,09-1575,42MHz)

- 2 x PPS BNC (50 Ohm) 2x IRIG-B AM (50 Ohm) 1x 10MHz (50 Ohm)

Network Time Protocol (NTP v2,v3,v4 & SNTP) supported

- RFC1305 RFC1119 RFC5905 RFC5906 RFC5907 RFC1769 RFC2030

I/O

- 2x LAN Ethernet 10/100 Base-T (RJ45)
- 2x Antenna INPUT or OUTPUT (RJ45)
- 5 x BNC (50 Ohm): PPS, IRIG, 10MHz
- 1x RS232C (D-SUB9)
- 2x USB 2.0 (for firmware upload)

Remote configuration

- SNMP (v1,2,3) • MIB 2 • RADIUS • HTTP • HTTPS • SSH • TELNET • NTPC/NTPDC • IEC*61850(networking)

Antenna & MultiSAT receiver

- 32-170 channel MultiSAT receiver w/ built-in FQ converter
- 700m [2300ft] UTP cat. 5 or 1.4km [4500ft] STP cat 5 (no need to use amplifiers)
- RS485 (std) or Fiber Optic*

Time Accuracy

- MultisAT GNSS receiver: better than 15ns
- LAN (NTP & PTP/IEEE1588): better than 10us
- VLAN (NTP & PTP/IEEE1588): better than 100us
- Internet NTP: better then 100ms

Mechanical/environmental

- Size: 484 x 300 x 44,4 mm (rack 19 1U)
- Power: 110/230 VAC (max 1A) w/ 2x PoE - redundant power supply option is available
- Operating temperature: 0 °C to +50 °C
- Storage temperature: -40 °C to +80 °C
- Humidity: up to 95%

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