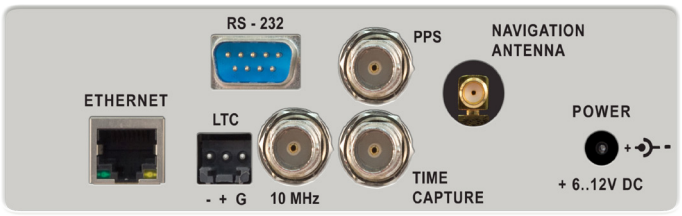
TIME & FREQUENCY REFERENCE SYSTEM

PTP NTP OCXO

Network Time Protocol server **PNTP-5021** is a network frequency-time synchronization equipment and it can be used as **Stratum 1** source.



Accurate timing accross your network.

High stability **OCXO** for increased accuracy when unsynchronised.

1-pulse-per-second and 10 MHz outputs.

Recieve time information from **GNSS satellites** anywhere on the surface of the Earth. Ideal for closed networks.

Support for NTP and SNTP compatible clients. Web-based status and configuration interface. SNMP monitoring interface.

Single board computer with **Linux** operating system.

- **TRUE STRATUM 1 NTP TIME SERVER**
- **PTP SERVER TIME PRECISION**
- **10 MHz, 1 PPS**

TECH SPECIFICATIONS

Internal receiver: GLONASS, GPS

Internal generator: oven-controlled Crystal Oscillator (OCXO)

Sync outputs: NTP server, PTP master, 1PPS, 10 MHz

Power supply: 6..12V DC

Physical dimensions: 145 x 153 x 43 mm

10 MHz Output

Form: Square Wave

Signal level: 1V into 50 Ohm

Allan variance per 1 s: less than $\pm 1 \cdot 10^{-11}$

Time instability per day without external synchronization: less than $\pm 1 \cdot 10^{-9}$

1 PPS Output

Accuracy, time locked: 110 ns reference to UTC

Deviation per hour without external synchronization: less than 300 ns

Signal level: 1V into 50 Ohm

APPLICATIONS

- Automated information-measuring systems
- Synchronizing computers and other devices connected to network via NTP
- Time reference in spatially distributed measuring systems
- Security systems, industrial control systems and other areas requiring time synchronization
- LAN/WAN/MAN time reference

PROVIDES

- Generating **10 MHz** reference signal
- Generating **1 PPS** reference signal
- Generating linear timecode (LTC) signal according to EBU/SMPTE309M
- Functioning as NTP 1st level server **Stratum 1** time stamp over Ethernet
- Functioning as **PTP** (precision time protocol) MASTER including for distributing clock reference signals in IP networks
- Autonomous operation driving by internal generator