

NTP SERVER - TELECLOCK

T-GPS-300-TL



OVERVIEW:

Network of computers are omnipresent. Synchronization of these computers is highly recommended at all enterprises. This integrates various diversified systems to work in unison.

Internetworking has become the backbone for communication and transportation of data and has paved way for advancement in the future.

The common time protocol deployed in these networks is the Network Time Protocol (NTP). A less complex implementation of this is the Simple Network Time Protocol (SNTP).

SERTEL manufactures NTP Server Teleclock which generates precise time stamp signals that synchronizes network of computer devices over an entire network of LANs and WANs.

Our NTP Server Teleclock refers to standard timeservers for the time data. NTP provides highly accurate performance depending on the network path.

Equipped with high precision and stable OCXO, T-GPS-300-TL generates accurate and reliable time signal.

OPERATION:

NTP Teleclock operates at Stratum 2 by acquiring the time data from any standard timeservers available as per the user's requirement.

The Receiver unit generates time base pulses which is an accurate copy as that of the timeservers. This is imbibed into the networking protocol NTP that are available at the output ports.

NTP Time Sync Server is connected with Redundant Power Supply and the system runs with high precision OCXO for frequency maintaining micro second level.

The front panel shows the Time / Date with provision for manual setup through simple user-interface keys "ENTER", "NEXT", "INC".

The RS232 outputs are also available from the output ports. The status of input mode: GPS, Master Clock, is too indicated.

GPS Time Sync Server also provides time and date in SERTEL format through serial communication port of RS232.

NTP Teleclock performance with high-capacity ensures integrating into existing and future networks.

KEY FEATURES:

- Dedicated NTP ports supporting 3000+ Clients
- 2x16 characters LC display to show the Time, Date, Latitude, Longitude and Time Zone.
- Equipped with high precision and stable OCXO crystal.
- Accuracy better than 1 micro second.
- Supports NTPv4/v3/v2, SNTP, NTP Unicast/Broadcast/Multicast.
- Supports HTTP/SSL/HTTPS, SHS, SCP, IPv4, IPv6 network security protocols.
- All types of Operating Systems are supported
- Packed in 3U of compact size (customizable) with redundant Power Supply unit.
- Universal Power supply: 90 to 230V AC/DC
- Necessary proprietary software is provided.
- Status updates through e-mail.
- Supports network devices such as Routers, switches, Checkpoint firewalls.
- Low cost maintenance with durable performance.

TECHNICAL SPECIFICATION:

OVEN-CONTROLLED CRYSTRAL OSCILLATOR OCXO:

- High Stability OCXO suitable for synchrophasor equipments accuracy
- Output signal : Sine wave
- Harmonics : -10 dBc * Spurious: -70 dBc * OUTPUT IMPEDANCE: 50 Ω
- Level / Load: ≤ 20 MHz ≥ 4 dBm / 50 > 20 MHz ≥ 0 dBm /50
- Temperature Range : -40 to +85 °C
- Stability * ±0.25 ppm (0.5ppm peak-to-peak)
- Timing Accuracy better than 1 μs without GPS signal.
- Timing Accuracy of T-GPS-300: 14 ns (NPL certificate).

ELECTRICAL CHARECTRESTICS:

- Power Supply : 90V to 260V AC/DC
- Ambient temperature : 0 - 50°C
- Relative Humidity : 95% at 45°C

STANDARD INPUT/OUTPUT SIGNALS

INPUTS:

- RS485 serial input from the standard time source through 9 pin 'D' connector (M).
- Redundant Power supply with ON/OFF switch.

OUTPUTS:

- NTP outputs for NTP Client access (Default IP: 192.168.1.254) (3 nos.) through RJ-45. (Customizable)
- RS232 serial port output in SERTEL format through 9 pin 'D' connector (M). (Customizable)

MECHANICAL SPECIFICATIONS:

- Dimensions : 3U(H)× 485 (W) × 325 (D) mm, 1U=44.5mm (1U or 2U)
- Mounting : 19" rack Panel mounting



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