

NTS-9000

Network Time Synchronization & document time stamping




- Time Server NTP/SNTP
- TSP Time Stamping*

- Cesium Beam
- 1PPS in/out
- 10MHz out
- IRIG-B in/out
- IBM Sysplex in/out

- PLL/FLL technology
- RS232/USB interface

- max. 10,000 clients
- 2xLAN (IPv6)
- SNMP MIB2 agent
- RADIUS client*
- MD5, RSA, DSA, SSL security
- NTP authentication

 **ELPROMA**



NTS-9000 delivers time directly to LAN network using NTP protocol. It is equipped with two independent Ethernet ports working with TCP/IP protocol (IPv4, IPv6). Built-in Cesium Beam guarantee correct time keeping up 10 years work when GPS antenna is missing. A true novelty is an option to create cascade NTS servers where one can simulate an antenna for the other. This functionality enables time synchronization of secured LANs with official time NTP servers available publicly online in Internet and the development of secured LAN systems for remote time auditing and control. NTS-9000 synchronizes time monotonously (jump-free) and can simultaneously serve up to 10,000 NTP/SNTP customers.

Redundant Input Synchronization Sources:

Buil-in Real Cesium Beam

Redundant Output Synchronization Sources:

2x Antenna (GPS) NMEA emulation, 1PPS, 10MHz, IRIG-B, IBM Sysplex

Supported OS (NTP/SNTP Clients):

all UNIX systems including: IBM® AIX®, HP/UX®, Linux®, Free BSD®, CISCO® routers, Novell® Netware® (incl. version 3, 4, 5, 6), Microsoft Windows 95/98/Me/NT/2k/XP/Vista (both Server and Workstation versions)

Remote configuration:

ntpq/ntpd, SNMP (v2, v3*) Enterprise MIB 2, RADIUS
HTTP, HTTPS, SSH, TELNET

Time Protocol supported::

NTP (RFC 1305), SNTP (RFC 2030), TSP (RFC 3161), IBM SYSPLEX

Long life:

NTS-4000 unit has natural cooling system (no fan or ventilators)

I/O:

2x LAN Ethernet 10/100 (RJ45), 1x RS232C*, 1PPS (BNC),
IRIG-B (BNC), IBM Mainfarama SYSPLEX (via RS232C/DSUB9)

Mechanical/environmental:

Size: 484 x 300 x 355,2 mm

Power: 110/230 VAC (max 3A)

Operating temperature: 0° C to +50° C

Storage temperature: -40° C to +85° C

Humidity: up to 95%

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* extra feature requiring additional hardware