


NTS-dialup

Network Time Synchronization & document time stamping



- Time Server NTP
- Server SNTP
- TSP Time Stamping*
- Official Time Support via
PSTN/ISDN modem
GSM GPRS/EDGE modem
- 2x Antenna Emulation Output
- PLL/FLL technology
1PPS driven
TCXO*/ OCXO*
- RS232/USB interface
- max. 10,000 clients
- 2xLAN (IPv6)
- SNMP MIB2 agent
- RADIUS client
- MD5, RSA, DSA, SSL security
- NTP authentication
- remote configuration:
HTTP, HTTPS, TELNET, SSH

 ELPROMA



NTS-dialup can be used as 1) independent NTP server, or 2) as a support for another NTS server, delivering time into a secured LAN isolated from the Internet (this solution requires 2 NTS servers working together). In the latter instance, NTS-dialup works as an antenna emulator (STRATUM-0) for another NTS server located inside the secured LAN, enabling safe time synchronization (no TCP/IP communication) of protected LANs with official, publicly available UTC time patterns. The technology is used also to audit internal LAN time by external independent controllers.

NTS-dialup server collects reference UTC time from public telephone services or official time NTP servers available on the Internet. For such purposes, NTS-dialup can be equipped with analogue PSTN, digital ISDN and GSM/GPRS/EDGE modems. Optionally, NTS-dialup can be delivered with its own single satellite GPS or Galileo** receiver or DCF77* radio long wave receiver.

Redundant Input Synchronization Sources:

official time call service via PSTN, ISDN, GSM modems
or other official UTC time source available on the Internet.
all with time accuracy better than 10ms on LAN

Redundant Output Synchronization Sources:

2x Antenna GPS NMEA emulation (STRATUM-0)
for another NTS server (NTS-3000, NTS-4000, NTS-5000) antenna input

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

I/O:

2x LAN Ethernet 10/100 (RJ45), PSTN/ISDN (RJ45), GSM (SIM, SMA)

Special features are available (requiring additional hardware):

GPS*/RF AM* receivers (DCF77*), TCXO*/OCXO*, 1PPS*/IRIG-B, IBM Sysplex*

Mechanical/environmental:

Size: 484 x 300 x 44,4 mm

Power: 110/230 VAC (max 1A)

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