

LOCK X NETWORK SERVICES

GPS NTP TIME SERVER

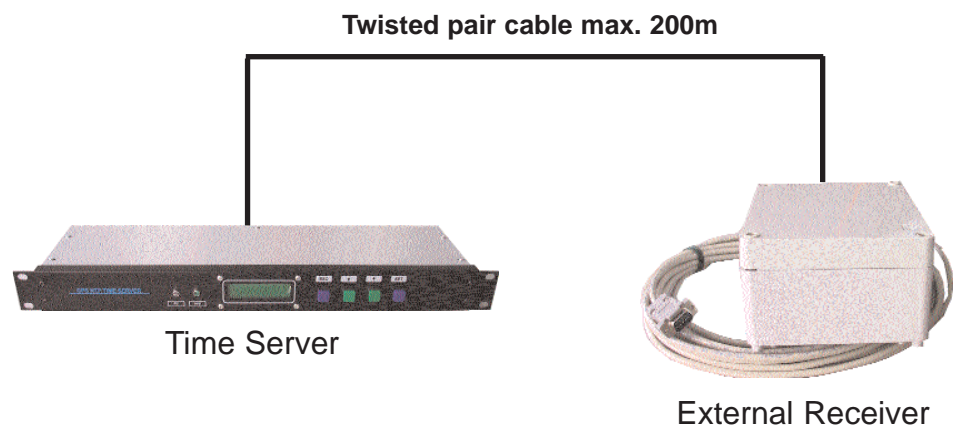


Highlights

- ▶ Server is dedicated to synchronize network devices local time/date to Universal Time (UTC).
- ▶ Devices synchronizing own local time through the NTP protocol (Network Time Protocol) or Devices being synchronized through NTP Broadcast protocol (suitable for most industrial network devices and Cisco Routers).
- ▶ Time Server is joined to atomic cesium etalon nist.datum.com over the GPS satellite system.
- ▶ The main electronics are placed in the Rack 19" case / 1U, suitable to mount in server room.
- ▶ GPS receiver and antenna are placed outdoor in waterproof case IP-65.
- ▶ Connection between GPS receiver and server is realized through the twisted pair cable up to 200m.

System Topology: Time server is delivered as two components:

Time server rack case and IP65 external receiver.



Technische Daten

Ethernet — 10 Base T, RJ 45 connector
10 MBit
RX polarity: automatic
ICMP: implemented
Gateway: implemented, user configurable
DHCP: not allowed
MAC address: configurable
Ethernet mask: configurable

GPS — External receiver with active antenna, powered from server
Output protocol: ZODIAC Connexant
Baudrate: 9600Bps
PPS pulse: 1sec
Cable:
- 1 twisted pair for zodiac data
- 1 twisted pair for PPS pulse
- 2 wire for power
Power: 9..12V DC
Current consumption: 300mA
max cable length: 200m

NTP protocols — NTP3, SNTP and NTP Broadcast with Firmware V2.10
security: not implemented in standard

version
Time stamp resolution: 13usec

Time Accuracy — UTC max error: 300 nsec
- due to NTP time stamp resolution
13usec
device completed accuracy = 13usec

SNMP protocol — Built in only SNMP traps, server produce and send SNMP traps to dedicated device IP,
- on every changes the number of satellites,
- UTC fix changes
- GPS receiver failures

Main processor — RISC UBICOM IP2022
120 MHz / for Ethernet connectivity
10BaseT

GPS processor — Microchip RISC processor 20 Mhz for GPS messages, PPS

pulses, LCD, buttons serving

RTC — Real Time Clock
PHILIPS I2C,
powered from lithium CELL CR2430,
User Replaceable
Max Error: 10 ppm

Reliability — Two processors watchdog-
ing state every 1sec
- BOR Brown Out Reset
- POR power on reset
- two internal watchdog independent
watchdog timers

Security — User password to setup IP address, SNMP strings- community name...

WEB interface — Built in WEB server for dynamic CGI WEB pages
- monitoring server status
- setup time server
- 4MBit dataflash

Temperature ranges — -25 .. 55 °C

Power — 100 .. 250 V AC / 50Hz

Display — LCD 2x 16 chars
Green BackLight

Buttons — 4x buttons on front panel
- SET,ESC,UP,DN
for setup IP addresses

Server Case — 19" rack / 1U
Depth: 110mm

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Bestellinformation

Artikel

Artikelnummer

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