TMS1000

Desktop NTP server synchronized by GNSS

The TMS1000 is desktop equipment providing a high stability time source to any Ethernet TCP/IP network.

The TMS1000 uses NTP (Network Time Protocol) to synchronize all the computers connected to the network.

The TMS1000 is synchronized by a GNSS source using its internal GNSS receptor.

NTP Server

The TMS3700 server is NTP-Primary server type with the following functions:

- Level 1 server, compliant with NTP protocol release 3.0 or 4.0
- Mode : server (question/answer)

The client's computers could be synchronized with a precision of 1 to 10 ms, depending on network load. Each client shall use a NTP client software to connect to the server.

GNSS

GNSS receiver is dedicated to time applications; it is able to acquire 12 satellites or more (depending of receptor type) simultaneously. It delivers a high precision top second.

Remote control

Remote monitoring of the equipment is made by the network link (port 10/100 Mbs) using the integrated web server.

Configuration

The entire configuration of the equipment is contained in a removable Micro SD memory SDCARD.
This approach allows a fast and safe reconfiguration in case of replacement of the unit.

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Features

NTP/SNTP

Network Time Protocol:
NTP (RFC 1305) SNTP (RFC 1361) port UDP 123.
Server configuration: V3, V4 or V3/V4 automatic
Mode: server (question/answer)

Network: RJ45 10/100 Base T
NTP service: Port UDP 123.

HTTP-SSH

Web pages for remote control.
SSH TCP Port 22
HTTP TCP Port 80
Configurable remote control using UDP protocol.

1 PPS accuracy

±100 ns relative to UTC when the equipment is disciplined with GPS.

1 PPS

TTL level – 50 ohm
Female connector identified « 1PPS OUT »
Duration: 1ms – Period : 1Hz – Rising edge active

SD Card

"push-push" connector. Identification "SD-Card"

Connector

TNC for GNSS antenna
SUB'D 9 pins female for the console serial link (115200 bauds, 8 bits, 1 stop bit) .
RJ45 for the network links.

Network interface:

Ethernet IEEE 802.3.
10/100 Base T.

Dimensions

Width 105mm – Height 33mm – Depth 167mm
Weight: 418 g

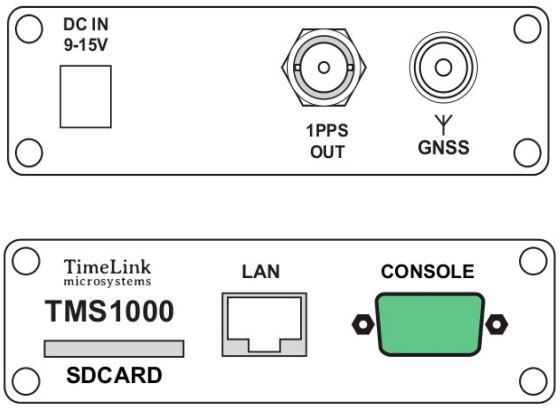
Power supply:

12VDC connector (provided)
Consumption: 3W

Accessories:

To be specifies at time of order regarding the receiver type:

- Antenna GNSS (GPS, GPS+GLONASS…)
  lightning arrester



TMS1000 rear face

Ordering

TMS1000