

## TMS 1000

### 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.



## 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

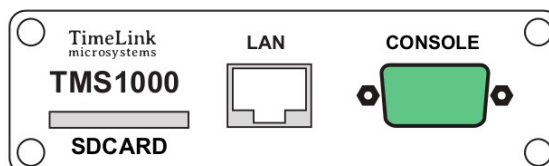
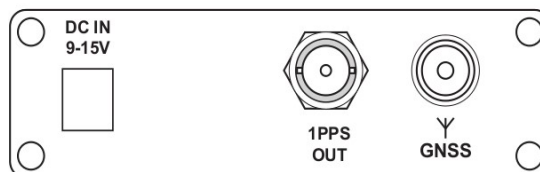
### Power supply:

12VDC connector (provided)  
Consumption: 3W

### Accessories:

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

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



### Ordering

TMS1000

TMS1000 rear face

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