

# Multi-port **IRIGB** Network time server

The TMS3400 is rack unit equipment able to provide a high stability time source to any Ethernet TCP/IP network. This timeserver uses the NTP (Network Time Protocol) and TP (Time Protocol) to synchronize all the computers connected to the network.

## **NTP Server**

The TMS3400 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) or broadcast

The client's computers could be synchronized with a precision of 1 to 10 ms, depending on network load.

## **Multiports**

The NTP service is available on 3 ports:

- two ports 10/100/1000 Mbps dedicated to the NTP service

## Irig-B

The IRIGB input uses the standard 1 KHz amplitude modulated signal compliant with IRIGB STANDARDS 200-

#### Remote control

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

## Oscillator

An internal OCXO type oscillator allows a time stability of 1x10-9/day when disciplined by the external IRIGB input signal.

## 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..

• 10/100 Mbps Ethernet port shared with supervisory functions



TMS3400 front face of the equipment













# **Features**

## NTP/SNTP

(Network Time Protocol): NTP (RFC 1305) SNTP (RFC 1361) port UDP 123.

Server configuration: V3, V4 or V3/V4 automatic.

# **TP (Time Protocol) DAY TIME**

Time (RFC 868) using port UDP37

## HTTP:

Web pages for remote control.

## Connectors:

BNC isolated: IRIGB input BNC for 1PPS output. SUB'D 9 pins female for the console serial link. RJ45 for the network links.

### **Network interface:**

Ethernet IEEE 802.3. 10/100 Base TX.

### 1 PPS accuracy:

± 200 ns relative to the beginning of the IRIGB frame when disciplined with IRIGB.

## IRIGB code:

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IRIG-B, signal amplitude modulated 1/3, 1/1 – isolated by transformer. Code input are compliant with the "year" information.

#### Internal reference:

20 MHz oscillator. 0.1 ppm Stability when disciplined by IRIGB reference <1.10-9 / day

### **Dimensions**:

Rack 1U, 19", depth: 350 mm Weight: 3 kg Consumption: 20 W

#### MTBF:

TMS3400 : 100 000 h

## Power supply:

Power supply 230V AC: Female CEE 2P+T with filter & swith On/Off Voltage: 85-264VAC / 47-440Hz Consumption: < 20W at 230VAC/50

# **Ordering:**

TMS3400: standard unit