

## TMS3350

### NTP Server with IRIGB synchronization

*NTP server stratum 1*

*IRIG-B synchronisation*

*HTTPS Monitoring and Control  
through a web based interface*

*Secure access to the server by  
SSH*

*Monitoring with SNMP V2c, V3*

*On-site equipment update*

*Protected configuration on  
SDCARD*

*Unlimited number of client*

*Number of transactions  
> 800 / second*

The TMS3350 is rack mount equipment able to provide a high stable time source on an Ethernet TCP / IP network.

The TMS3350 is a time server that uses the Network Time Protocol (NTP) to synchronize all connected computers on the network.

#### NTP Server

The equipment provides an NTP service in request / response mode in stratum1 when it is synchronized to one of the two possible time sources. The server manages frame authentication.

The client computers can be synchronized with a precision better than 5 ms.

The server has the following main interfaces:

- Network connection IEEE802.3 100/1000 Mbps
- Synchronous UTC pulse top pulse (1 PPS)

#### IRIGB synchronization

The equipment synchronizes on its analog IRIG-B input.

#### Remote monitoring

The remote control of the equipment is done via the network, using:

- The SNMP standard protocol (MIB provided)
- The standard SSH protocol

An UDP frame containing the time and status of the equipment is emitted every second.

#### Oscillator

An internal basic TCXO type oscillator provides a 10 MHz frequency used to maintain time in case of loss of external time source

#### Configuration

The entire configuration of the equipment is contained in a removable SDCARD memory for easy system configuration and equipment update. In case of equipment replacement, the current configuration can be simply transferred by plugging the SDCARD in the new equipment minimizing the MTTR.



TMS3350 Front panel

## Specifications

### NETWORK PROTOCOLS

#### NTP (Network Time Protocol)

NTP (RFC 1305) SNTP (RFC 1361) using UDP 123 port  
Server configuration V3, V4 or automatic V3/V4

#### HTTPS

Advanced web interface for control and monitoring based on Events..

#### SNMP (Simple Network Management Protocol)

(RFC 1155, 1157, 1213) V2c, V3  
SNMP provides to the network administrator the equipment status. For security reasons no configuration changes can be made with this protocol.

#### SSH (Secure Shell Protocol)

SSH allows accessing securely the equipment.  
It's especially used to update the internal software of the equipment.

### Connectors

1 x BNC for the IRIGB input  
1 x BNC output for 1PPS  
2 x RJ45 network connection

### Network Interface

IEEE 802.3. 10/100/1000 Ethernet

### Console

A console link for equipment maintenance is available on the front panel. To compensate for the rarefaction of RS232 serial interfaces on PCs, the equipment allows a direct connection in USB, a USB / serial converter is integrated. This USB connection is dedicated to a serial link and cannot accommodate any other type of device.

On request, the Console link can be RS232-type on a 9-pin SubD connector or removed.

### Power Supply

The equipment is powered by the main 230V via two redundant power supplies for better reliability  
Power supply range 85 to 260VAC at 40-60 Hz  
Power consumption: 30 W

### MTBF

100 000 h

### Temperature

Operating temperature: -20 ° to 60 ° C  
Storage temperature: -20 ° to 70 ° C  
Operating relative humidity: 10% to 90% (non-condensing)  
Storage relative humidity: 5% to 95% (non-condensing)

### Dimensions

Rack 1U 19 "Depth 13.8 in

### Weight

< 6.61 lb including the power cable

### Certification

Certified CE, ROHS and ITAR Free

### Option

Ruggedized rack  
Redundant Power Supply  
OCXO stability



TMS3350 Back panel

### Ordering code

TMS3350: standard model