

LEDI® NETWORK TS



**High accuracy time server,
delivering multiple time codes
Supporting NTP V4 / IPV6 / SNMP**

Internal Time Base

LEDI® NETWORK Time Server (TS) is equipped with internal time base allowing timekeeping in case of loss of synchronization.

Two quartz oscillators at choice :

- **TCXO** (with GPS option):

Frequency stability 1.10^{-7} (0°C to 60°C)

Ageing 2.10^{-9} / day.

- **XO** :

Frequency stability 2.10^{-6} (20°C to 30°C)

Ageing $1,5.10^{-8}$ / day.

Security

Back up power is included by default. Possibility of extended back up power capacity with Option J.

The duration of power reserve will depend on the configuration of the time server, please contact our sales team for more details.

Backup configuration settings in flash memory.

Supervision via SNMP V3 or supervision software GT Supervision.

Remote configuration via a Secure Website.

Specification

Power supply	230VAC/50-60Hz 115VAC/50-60Hz 18-72 VDC
Certifications	CE, EN 60950 (safety), EN 55022 (EMC transmission), EN 55024 (EMC immunity), ROHS
Maximal consumption	20 VA
IP	31
MTBF	120 000 h.
MTTR	Mother board: 10 min. Display board: 5 min. Output board : 5 min.
Weight	2,3 Kg (standard configuration)
Dimension	Rack 19" 1U 482x44x266 mm (LxHxD)
Display	4 x 20 character LCD display with blue backlight
Operating temperature	-10° to 50°C
Storage temperature	-20° to 70°C

Key features

- **Plug and Play.**
- **1 NTP/SNTP output is included in the basic configuration.**
- **Multiple synchronization outputs** of different time code types.
- **Threshold setting for security.**
- **Alarm management via SNMP TRAP (V1, V2C and V3),**
- **Alarm management** via static relays and screw terminal for synchronization and power supply, as option.
- Time base and algorithm to ensure **output accuracy up to 100 ns in GPS synchronization.**

Configuration

Remote configuration and time setting via a built in web interface.

Automatic choice of time zone and daylight saving time.

Supervision via HTTP et HTTP(s), SNMP, Telnet. "GT Supervision" software Windows® NT/XP/2000/2003/Vista/ Windows 7.

Firmware update via FTP.

Compatible IP v4/v6 (compatible DHCP v4/v6).

IP Configuration by keyboard on front panel.

Synchronization inputs

- **Standalone quartz time base synchronized by :**
 - DCF (Europe).
 - NTP Ethernet 10/100 base T
 - GPS : Accuracy 100 ns.
 - AFNOR NFS 87500 / IRIG B.

Synchronization outputs

- AFNOR NFS 87500/IRIG B modulated. Accuracy: 20µs.
- AFNOR NFS 87500 and IRIG B DCLS (TTL/RS 422) accuracy: 10µs.
- NTP (V2, V3, V4) (accuracy up to 50µs): Unicast, Multicast, Broadcast
- ASCII RS485 + pulse.
- ASCII RS232 + pulse.
- Pulses 1000 Hz.
- Alarm.
- SMPTE/EBU.



Fabriqué en France

LEDI® NETWORK TS

ITEM CODE				
9220	<input type="checkbox"/>	/	<input type="checkbox"/>	<input type="checkbox"/>
	↑		↑	↑

SYNCHRONIZATION INPUT								
DCF	■	8	D					
AFNOR NFS 87500/IRIG B (1Kz modulated)	■	8	8					
AFNOR NFS 87500/IRIG B DCLS (TTL or RS 422)	■	8	T					
NTP Ethernet 10/100 base T input – with XO oscillator	✗	8	N					
GPS - compatible with "GPS ANTENNA OPTION" with XO oscillator : Option 0, D	✗	8	G					
GPS - compatible with "GPS ANTENNE OPTION" with TCXO oscillator : Option 0, Q, R, S, V, T	✗	9	N					
POWER SUPPLY								
230 VAC/50-60Hz	■			0				
115 VAC/50-60Hz	■			1				
18-72 VDC	✗			9				
GPS ANTENNA OPTION								
none	■			0				
Antenna with 50m of cable	✗		With XO oscillator	D				
none	✗			0				
Hardmount antenna with 25m of cable RF240 + binding kit	✗			Q				
Hardmount antenna with 50m of cable WBC 400(LMR / RF) + binding kit	✗		With TCXO oscillator	R				
Hardmount antenna with 50m of cable WBC 400(LMR / RF) + surge protection + binding kit	✗			S				
Bullet III antenna with 80m of cable WBC 400(LMR / RF) + binding kit	✗			V				
Bullet III antenna with 80m of cable WBC 400(LMR / RF) + surge protection + binding kit	✗			T				
SYNCHRONIZATION OUTPUT OPTION								
1 x NTP V4/SNTP server output on RJ45	■					K		
ASCII RS232 output + 1 contact alarm output (synchronization or power supply defect)	■					G		
Pulses 1000 Hz output	■					H		
AFNOR NFS 87500/IRIG B (1Kz modulated) output	■					B		
ASCII RS 485 + pulse output	■					R		
ASCII RS 232 + pulse output	■					A		
DCLS AFNOR & IRIG B (TTL / RS 422) outputs	■					T		
Tropicalization of electronic boards	■					U		
SMPTE / EBU output module SMPTE LTC12M size –1999 and EBU/ UER LTC 3097	■					S		
Blackburst / Glenlock input synchronization	■							
Power reserve extension of 2 hours	■					J		