

## LEDI® NETWORK TDS



High accuracy time server  
Delivering multiple time codes  
NTP / AFNOR - IRIG B / Impulse  
DCF24v



MASTER CLOCKS / TIME SERVERS / SOFTWARES / GNSS ELEMENTS

### Internal Time Base

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

- **TCXO**  
Frequency stability:  $2 \cdot 10^{-8}$  (0°C to 55°C)  
Ageing:  $1,5 \cdot 10^{-9}$  / day

### Security and network protocols

- **Backup of configuration setting** in flash memory
- **Supervision via SNMP V3** or supervision software GT SCADA or Syslog
- **Remote configuration** via secured web page
- Configuration setting command prompt via **SSH**
- Firmware update via FTP or SCP
- **Compatible IP v4/v6** (compatible DHCP v4/v6)
- Configuration on Web interface via HTTP et HTTP(s)
- Secure access to web interface by identifier and password
- Authentication protocol and MD5 encryption
- Network communication ports can be disabled

### Specifications

<b>Power supply</b>	90-300VAC – 50/60Hz type IEC 60320 defined C14
<b>Power Cable</b>	IEC 60320 defined C13 / MALE SCHUKO 2 (EUROPE) & (Type E)*
<b>Certifications</b>	CE, EN 62368 (Safety), EN 55032 (EMC transmission), EN 55034 (EMC immunity), ROHS
<b>Maximal Consumption</b>	20 VA
<b>IP</b>	31
<b>MTBF</b>	120 000 h
<b>MTTR</b>	Mother board: 10 min Display board: 5 min Output board: 5 min
<b>Weight</b>	2,3 Kg (standard configuration)
<b>Dimensions</b>	Rack 19" 1U 482x44x266 mm (LxHxD)
<b>Display</b>	4 x 20 characters blue LCD screen backlight 3 LED Indicators: power / sync / alarm
<b>Operating Temperature / hygrometry</b>	-20 to 50°C / 0 to 90% HR (without condensing)
<b>Storage temperature / hygrometry</b>	-20 to 70°C / 10 to 85% HR

\*For other types of power cables, refer to the power cable reference table

### Key features

- **NTP/SNTP server output** included by default on RJ45
- **Plug and Play**
- **Multiple synchronization outputs** with different types of time codes
- **Alarm management via SNMP TRAP (V1, V2C and V3)**
- **Time base and algorithm to ensure output accuracy**
- **Status information by LEDs** in front panel
- **Local or UTC time display** on front panel

### Configuration

- Remote Configuration and time setting via embedded web interface
- Automatic Time offset and DST on outputs
- IP Configuration by front panel keyboard
- Configuration file can be retrieved and uploaded via secured web interface
- Activating and deactivating configurations
- Auto-IP v4

### Synchronization inputs

- **1 synchronization input (to be specified):**  
- GPS (by 3Gxx antenna) – 2 points screw terminal block  
- DCF 77kHz Europe (by 3Dxx antenna) – 2 points screw terminal block  
- NTP 10/100 base T – RJ45 port

### Synchronization outputs

- AFNOR NFS 87-500/IRIG B (about max. 250 clocks on 2 lines – 4 points screw terminal block)
- NTP (V2, V3, V4) 10/100 Base T - RJ45 port
- Pulse minutes (or demi-minutes) 24V // or DCF24V (1A max. on 2 lines – 4 points screw terminal block)

### Storage Conditions

Conditions	Temperature	Hygrometry	maximum cumulated duration
Extreme	-20°C to 0°C	10 to 85% HR	48h
Extreme	40°C to 70°C	10 to 85% HR	48h
Normal	10°C to 40°C	10 to 85% HR	6 months

The product must be lit for 4 hours every 3 months to keep its characteristics. see the user manual for more information



VERSION	ITEM CODE	
(1)LEDI® NETWORK TDS (2)NTP or (2)GPS	<b>94000057-V1</b>	
GPS Antenna (converter unit) with 25m cable	<b>3G25-V4</b>	
GPS Antenna (converter unit) with 50m cable	<b>3G50-V4</b>	
GPS Antenna (converter unit) with 100m cable	<b>3G100-V4</b>	
(1)LEDI® NETWORK TDS (2)NTP or (2)DCF 77kHz	<b>94000058-V1</b>	
DCF 77kHz Antenna with 10m cable	<b>3D10</b>	
DCF 77kHz Antenna with 25m cable	<b>3D25</b>	

- (1) Antenna and cable to be ordered separately  
(2) To be specified in the order