



LEDI® NETWORK TDS

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

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: 2.10^{-8} (0°C to 55°C)
 - Ageing: $1.5.10^{-8}$ / day

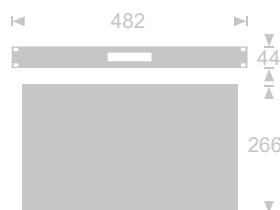
Security and network protocols

- **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

Power supply	90-250VAC – 50/60Hz type IEC 60320 defined C14
Power Cable	IEC 60320 defined C13 / MALE SCHUKO 2 (EUROPE) & (Type E)*
Certifications	CE, EN 62368 (Safety), EN 55032 (EMC transmission), EN 55034 (EMC immunity), ROHS
Maximal Consumption	20 VA
IP	31
MTBF/ MTTR	Mother board: 139 000 h / 10 min Display board: 151 000 h / 5min Output board: 128 000 h / 5min
Weight	2,3 kg (standard configuration)
Dimensions	Rack 19" 1U 482x44x266 mm (LxHxD)
Display	4 x 20 characters blue LCD screen backlight 3 LED Indicators: power / sync / alarm
Operating Temperature / hygrometry	-20 to 50°C / max 90% HR (without condensing)
Storage temperature / hygrometry	-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.

LEDI® NETWORK TDS

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

¹⁾ Antenna and cable to be ordered separately

²⁾ To be specified in the order