

# LEDI® NETWORK ITS

## v2m 2U



**High Accuracy secure time Server with triple synchronization redundant inputs and with multiple synchronization outputs**

### Key features

- NTP/SNTP server output included by default on RJ45
- Power Supply Redundancy 18-36 or 36-72 VDC or 110-250 VAC
- Configurable priorities of synchronization inputs.
- Compensation of input delay due to transmission distance and threshold setting for security
- Time Base and algorithm ensuring output accuracy up to 50ns when synchronized to GPS/GNSS
- Independence and modularity of output boards
- PPS and 10Mhz output (available with OCXO oscillator only) via BNC connectors.
- Alarm management via SNMP TRAP (V1, V2C, V3) and two static relay outputs on screw terminal for synchronization and power supply alarms
- Manual or automatic adjustment for transmission delay
- Local or UTC time display on front panel

### Configuration

- Remote Configuration and time setting via embedded web interface
- 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<sup>st</sup> time reference input (at choice):

- Multi-constellation GNSS Receiver: (GPS, GLONASS, BEIDOU, GALILEO) or GPS; Cold start, accuracy 10 to 50 ns
- ASCII (NMEA 0183 RMC or ZDA by auto-detection) + TOP
- PPS input

#### 2<sup>nd</sup> time reference input (at choice):

- AFNOR NFS 87-500/IRIG B/ IEEE1344
- NTPv4 Ethernet 10/100BaseT

#### 3<sup>rd</sup> reference input (backup) :

- Frequency input (between 1kHz and 10MHz)

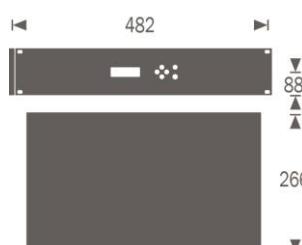
### Antennas

- For more information on our GNSS antennas, refer to the technical specifications (see reference table 92225/ )

### 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



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		CODE ARTICLE							
92197		/	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>1<sup>st</sup> SYNCHRONIZATION INPUT</b>									
(1)GNSS multiconstellations (GPS, GLONASS, BEIDOU, GALILEO) – SMA connector	<input type="checkbox"/>		B						
(1)GPS Receiver – SMA connector	<input type="checkbox"/>		P						
ASCII (auto-detection NMEA 0183 RMC or ZDA) – DB9 port + TOP – BNC connector	<input type="checkbox"/>		T						
TOP (PPS) – BNC connector	<input type="checkbox"/>		M						
Without	<input type="checkbox"/>		O						
(1) Antenna and cable to be ordered separately, see table 92225/									
<b>2<sup>nd</sup> SYNCHRONIZATION INPUT</b>									
AFNOR NFS 87-500/IRIG B (Modulated 1KHz – 12x) – 2 points screw terminal block	<input type="checkbox"/>		8						
IRIG B DCLS (No modulation 00x) – 2 points screw terminal block	<input type="checkbox"/>		T						
NTP 10/100 Base T – port RJ45	<input type="checkbox"/>		N						
Without	<input type="checkbox"/>		O						
<b>3<sup>rd</sup> SYNCHRONIZATION INPUT</b>									
Without	<input type="checkbox"/>		0						
(2) External frequency input 1 kHz - 10MHz – BNC connector	<input checked="" type="checkbox"/>		H						
(2) Frequency Input: only available with OCXO oscillator, 1 other required input									
<b>POWER SUPPLY</b>									
110-250 VAC 50/60Hz and 18-36 VDC	<input type="checkbox"/>		5						
110-250 VAC 50/60Hz and 36-72 VDC	<input type="checkbox"/>		8						
2 x 110-250 VAC 50/60Hz C14	<input type="checkbox"/>		3						
<b>OSCILLATOR</b>									
TCXO, 1PPS output – BNC connector	<input type="checkbox"/>		T						
OCXO, 1PPS and 10 MHz outputs – BNC connectors	<input type="checkbox"/>		X						
OCXO LN, 1PPS and 10 MHz outputs – BNC connectors	<input type="checkbox"/>		Y						
<b>BACKUP BATTERY POWER</b>									
Without	<input type="checkbox"/>		0						
Backup battery power NiMh (in average max. 30min)	<input type="checkbox"/>		1						
Extended Backup battery power NiMh (in average max.1h)	<input type="checkbox"/>		2						
<b>(3) SYNCHRONIZATION OUTPUTS</b>					<b>(3) max. 8 output boards</b>				
4 x AFNOR NFS 87-500/IRIG IEEE1344 (12x version) AC 2,2V – 8 points screw terminal block	<input type="checkbox"/>								B
2 x AFNOR NFS 87-500/IRIG IEEE1344 (12x version) AC 2,2V – BNC connectors	<input type="checkbox"/>								G
1 x ASCII RS232 output – DB9 port + TOP – 2 points screw terminal block (Protocols selectable)	<input type="checkbox"/>								E
1 x ASCII RS485 output – DB9 port + TOP – 2 points screw terminal block (Protocols selectable)	<input type="checkbox"/>								F
1 x PTPv2 IEEE 1588 output - 8 clients for 128 req/sec. - 1x RJ45 port 1Gbit/s and 1x SFP connector optical fibre 1x management interface – RJ45 port (10/100Mbit/s)	<input type="checkbox"/>								C
1x NTP V4/SNTP - RJ45 port	<input type="checkbox"/>								K
2x NTP V4/SNTP - RJ45 ports	<input type="checkbox"/>								L
4x IRIG B AC 8,8V outputs (12x version) – 8 points screw terminal block	<input type="checkbox"/>								H
4x PPS, PPM, PPH, PP2S, DCF (TTL, phototransistor, DTTL) – 8 points screw terminal block	<input type="checkbox"/>								P
4x PPS, PPM, PPH, PP2S, DCF (TTL, static relay, DTTL) – 8 points screw terminal block	<input type="checkbox"/>								Q
4x AFNOR NFS 87-500/IRIG B/IEEE1344 DCLS (00x version) (TTL, phototransistor, DTTL) – 8 points screw terminal block	<input type="checkbox"/>								T
4x AFNOR NFS 87-500/IRIG/IEEE1344 DCLS (00x version) (TTL, static relay, DTTL – 8 points screw terminal block	<input type="checkbox"/>								V
4x ASCII RS 232 unidirectional – DB9 port (unique GT Protocole)	<input type="checkbox"/>								A
4x ASCII RS 485/RS 422 unidirectional – DB9 port (unique GT Protocole)	<input type="checkbox"/>								R
1x SMPTE / EBU module output format SMPTE LTC12M -1999 and EBU/ UER LTC 3097 – 3 points XLR connector Blackburst / Glenlock synchronization input – BNC Connector	<input type="checkbox"/>								S
Tropicalization	<input type="checkbox"/>								U

NTP/SNTP client software Windows®. 10 licenses.

This option is required for a secure synchronization of PC under Windows.

NTP/SNTP client software Compatibles OS Windows® 10 licenses 

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