Katech NTP toLTC1-POE LTC Timecode Generator

Katech NTPtoLTC1-POE outputs time information in LTC (Lognitidunal Time Code) format by receiving time information from local or Internet NTP server with Ethernet network connection. By taking energy over Ethernet Cable, it provides both the energy required for its own operation and the energy of the LTC Clock to be connected to the device.

Module Description

1 - Power Indicator- LED indicator lights when the Module is connected to a power source.
Unit can be powered from POE, Mini USB or Header connectors (2)

2- 10/100Mbps Ethernet connector
Via ethernet connector module can get energy fron POE switch and connect to local network.

3- Mini USB connector
The module can be powerd over Mini USB connector. İt is also used for debugging purpuse.

4- Network Connection Indicator LEDs
Lights up or blinks when network connection is active.

5- INIT Button -Keep pressing 15-20 seconds at power up or RESET to initialize to factory defaults.
Intialize the password, IP adress and Time difference to default values.
Factory Defaults

Password	IP	Time Difference
123456	192.168.137.100	0hour 00min

6 - 5 & 4 pin output connectors ; Balance LTC output and DC output

5 & 4 pin JST Connector pinout

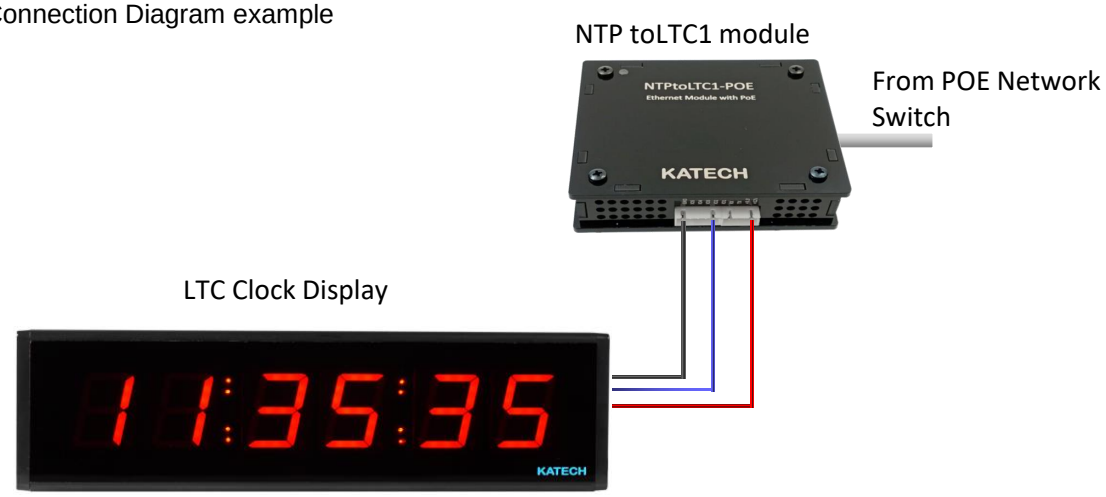
Pin No	Mark	Description
1	GND	**Negative Terminal**
2	IO5	**not used**
3	IO4	**not used**
4	IO3	**not used**
5	IO2	**LTC out**
	IO1	
1	RX	**not used**
2	TX	**not used**
3	+3.3V	**not used- Internal regulator output**
4	+12V	**POE- output or Input for external DC**

7- RESET Button
Hardware reset , restarts the module

Technical Specification

Parameters	***Values***
Dimensions	89 x 78 x 27 mm
DC input	5V-12V DC (to pin5)
POE Voltage	44-57V DC
Power consumption	1W without load, 12W max. With external load.
DC Out Voltage/Current	12V 900mA for external LTC Clock Display. (From pin4 +12V)
LTC Out	Unbalance 3Vpp , 25fps (from pin5 IO2)

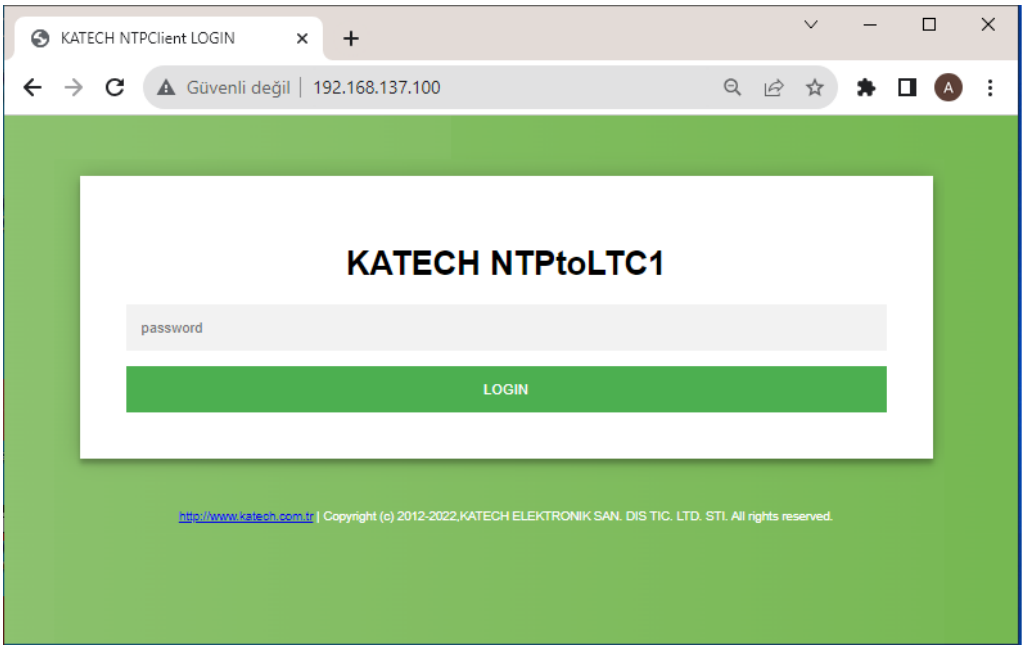
Connection Diagram example



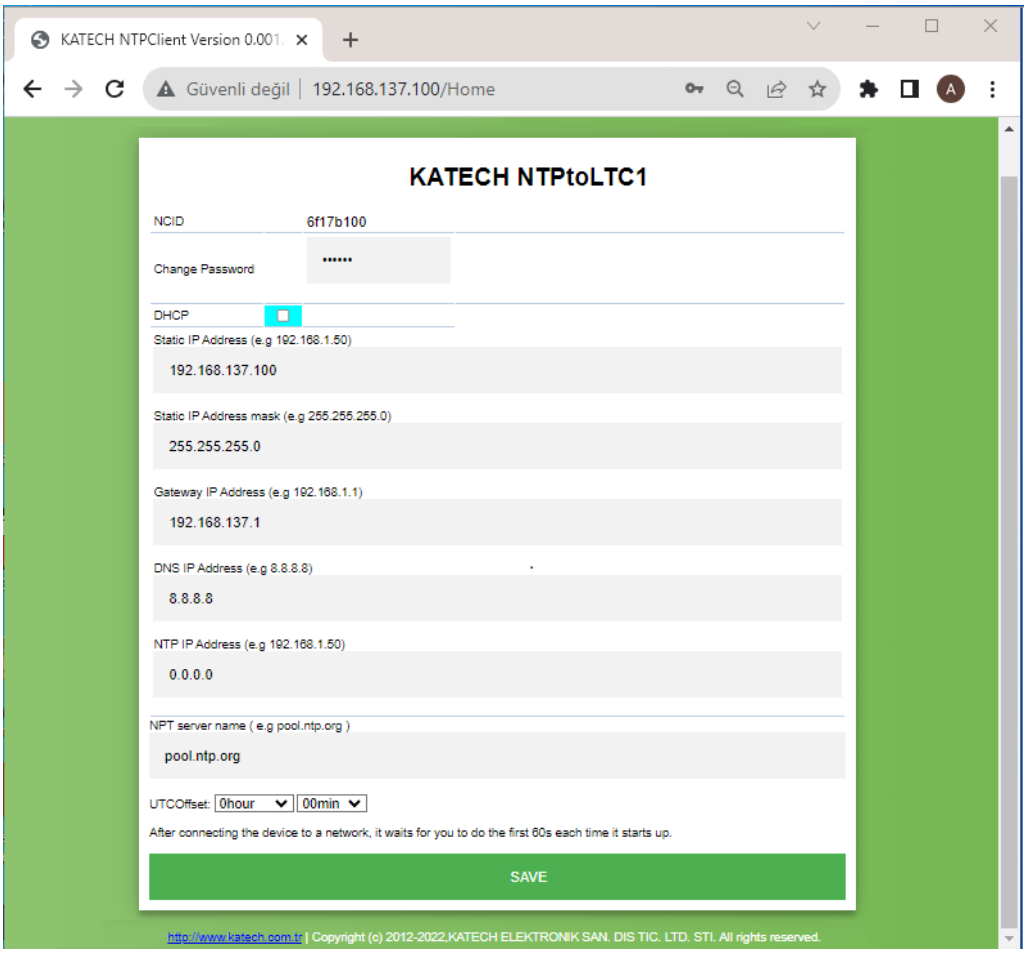
Connection Settings

Katech NTPtoLTC1 contains an HTTP server for module connection settings.
Connect to the Module to a computer over ethernet. Power the module via POE, Mini USB or DC in (Pin 4 +12V).

Enter the module IP address (default ip " 192.168.137.100 ") to address bar of any web browser. You will see the login page of the module.



Enter the module password (default pasword " 123456 ") and press LOGIN button to enter Home page of the module.



Cange Password

You can enter the new password to change login password of NTPtoLTC module.

DHCP check box

Module gets IP automaticaly from DHCP server

Static IP Address

If DHCP is not checked, module use this IP address.

Gateway IP Address

If DHCP is not checked, module use this Gateway address to reach internet.

NTP IP Address

Enter NTP server ip to be used.

NTP Server Name

NTP server name from which you want to get time information

UTC Offset

NTP servers provide UTC time information. To get your local time information, you can set your local time zone here.

When the **"SAVE"** button is clicked, the values you have entered are saved to the Module. In 1-2 minutes, the module will reset itself and reboot again. The module will output LTC clock signal if it can establish network connection with the NTP server you saved, and then you can see it on the LTC clock displays.