

## HASSEB POWER OVER ETHERNET LED DRIVER

*hasseb Power over Ethernet LED driver* is an easy-to-use device to control and power LEDs over Ethernet. The device can power different types of LEDs in a voltage range of 12 – 28 volts and provide power up to 10 watts.

### INSTALLATION

The device is powered through the Ethernet cable and a Power over Ethernet switch is required to power the device.

The device has a screw terminal to connect the led. The polarity of the terminal connector is marked to the front panel.

DHCP (Dynamic Host Configuration Protocol) support is enabled by default, so the device will assign an IP address automatically. Devices and their names and IP addresses connected to the network can be found using any software, capable of searching the network for mDNS supported devices such as *Bonjour Browser*. If you have normal domestic network router, the web user interface of your router can also be used to find the IP addresses of the connected devices.

## WEB USER INTERFACE

The device can be configured and the LED brightness controlled using any web browser. Writing the IP address of the device to the address field of your web browser, the configuration page will be opened.

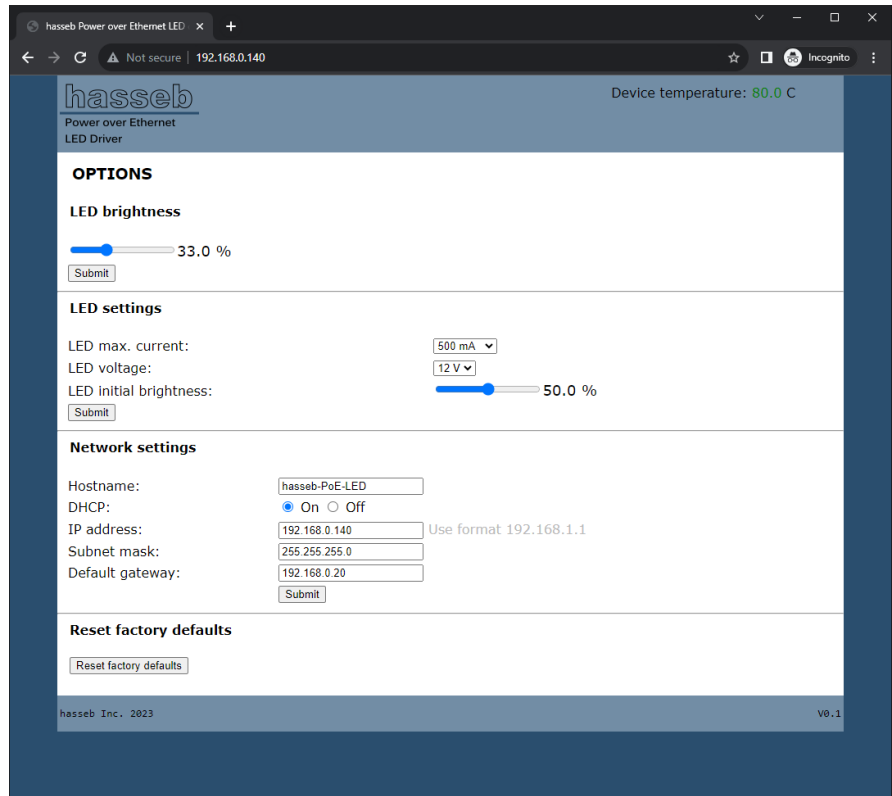


Figure 1: A web browser is used to configure the device.

## LED BRIGHTNESS

The brightness of the LED can be changed with the slider between 0.0 and 100.0 % in 0.1 % steps. The brightness selected using the LED brightness setting is not stored to volatile memory but the brightness will be set back to initial brightness after reboot. The initial brightness is configured in LED settings.

## LED SETTINGS

The LED voltage and maximum driving current can be configured in LED settings. The initial startup brightness can be configured as well.

## NETWORK SETTINGS

The hostname, IP address, subnet mask, and default gateway can be set using the web interface. The DHCP can also be enabled or disabled. By default, the device uses DHCP to assign the network settings. The default hostname for the

device is *hasseb-PoE-LED*. After configuration of new network settings, the device will reboot automatically.

## STATUS LED

There is an LED inside the device to indicate the status of the device. The LED will blink once a second when the device is operating properly. In case of over heating the LED will blink every 200 ms.

## RESET FACTORY DEFAULTS

If something goes wrong with the network settings and you cannot access the device anymore through the network, you can reset the factory defaults using the push button on the circuit board. To access the button you need to open the enclosure.

To reset the factory default settings, press the push button and power up the device. Keep the push button pressed for 5 seconds. This will reset the setting to factory defaults. The default network configuration is DHCP on.

## SYSTEM INTEGRATION

The device can be also configured and the LED brightness adjusted by using standard HTTP *POST* requests.

The led brightness can be changed with a request *POST /led\_intensity*. The LED brightness between 0.0 and 100.0 % is sent as a parameter *led\_intensity*. For example, to set the brightness to 46.7 % use parameter *led\_intensity=46.7*.

The LED settings can be changes with a request *POST /led\_settings* with the following parameters:

```
led_max_current=[200...1000]
led_voltage=[10,12,14,16,18,20,22,24,28,32,36,40,48,56,64,72]
led_initial_intensity=[0.0...100.0]
```

Specifications	
Output voltage	12 - 28 VDC
Output power	10 W
Operating temperature	0 – 25 °C
Dimensions	65 mm x 65 mm x 30 mm
Weight	100 g