



Edrive manual for use with the EBOX

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January 2015

1 Introduction

This manual will guide you to use the USB drive *Edrive* that has been made for using with the EBOX. The EBOX drive contains a Linux OS distribution (Lubuntu) and programs that are used to be able to work with the EBOX. Please read the manual carefully.

Please note that Matlab licenses are bound to your hardware, for you will not be able to use an Edrive from someone else. If you want to reactivate the license, check the troubleshooting section in this document.

2 First Steps: booting from the USB drive

When you normally power up your computer it boots into Windows. To use the Edrive we must boot into its preinstalled Linux OS. In order to do so slight changes have to be made in the BIOS (Basic Input Output System) of your computer. Computer brands have different BIOS layouts but they basically do the same. The procedure will be explained for HP computers first and afterwards for some other popular brands.

2.1 HP computers setup

2.1.1 BIOS setup

There are two ways to boot an OS: in UEFI and in Legacy mode. The ZBook computers are able to start up in either *or* both modes. In order to have full compatibility with

both Windows as the Edrive set it to boot in both modes (Windows boots in UEFI mode and the Edrive boots in Legacy mode). The procedure is as follows:

- power on the computer
- as soon as the HP logo appears press the **F2** key
- the BIOS is loaded
- select **Yes** when asked if you want to log in as a guest user.
- with either the arrow keys or the mouse pad go to the **Advanced** tab and select **Boot Options**.
- scroll down to **Boot Mode** and select **UEFI Hybrid**
- save and exit the BIOS, your computer will restart as usual.

2.1.2 Booting from the Edrive

The HP ZBook from the TU/e comes with both USB 2.0 and USB 3.0 ports.

- plug the Edrive in a USB 3.0 port
- power on the computer
- as soon as the HP logo appears press the **F9** key
- a menu appears in which you can choose to boot from the Edrive (*Sandisk*), select it with the arrow keys and press enter

You can now proceed to section 3.

3 Working with Lubuntu

3.1 Login

When booted into Lubuntu log in with the following username and password:

username: **ebox**
password: **ebox123**

3.2 Configuring the WiFi network

- On the lower right corner of the screen click on the WiFi icon.
- select **tue-wpa2**
- in user name type your s-number as: **tue\s.....**
- enter your password

3.3 Activating your Matlab licence

This procedure has to be done once only.

- press **Ctrl** + **Alt** + **T** to open a Terminal.
- type: **sudo su**
- enter the password: **ebox123**
- type: **matlab**

The Matlab licence activation will be prompted. You have to enter your personal account information (user name and password). If you don't have one yet, go to mathworks.nl to create an account.

***Note 1:** You can have an active Matlab on both a Windows, Mac or Linux computer and an Edrive.*

***Note 2:** You cannot use an Edrive from someone else on your computer as the Matlab license is bound to your hardware.*

3.4 Running Matlab

- press **Ctrl** + **Alt** + **T** to open a Terminal.
- type: **sudo su**
- enter the password: **ebox123**
- type: **matlab**

Important for first time use: close Matlab and start it up again. This has to be done only once.

3.5 Setting up Qadscope

This procedure has to be done once only.

Within the Matlab command window:

- change your path by typing: `cd /home/ebox/svn`
- type: `make_all_clean`
- type: `make_all_install`
- type: 1 when asked if you want to install the TU/e toolboxes

Congratulations, your Edrive is fully set up now!

3.6 Running Qadscope

Within the Matlab command window:

- type: `qs`

Qadscope will launch and you can start with the experiments.

4 Troubleshooting

4.1 Reactivate Matlab licence

If you want to use your Edrive on another computer you have to reactivate your Matlab licence.

- press `Ctrl` + `Alt` + `T` to open a Terminal.
- type `sudo su`
- enter the password: `ebox123`
- type: `matlab`
- an error message indicating that your license is not valid will be prompted.

- within the error message the path to the license file is prompted. This file ends with `.lic`
e.g.: /home/ebox/MATLAB/licenses/license.lic
- copy the whole path together with the licence file and `.lic` extension.
- type: `rm path_that_you_copied,`
e.g.: rm /home/ebox/MATLAB/licenses/license.lic
- you have removed the license file and can reactivate Matlab as exposed in **Section 3.2**.