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Native PC

Basic installation finished?

Please read first the → Basic Installation!

UEFI or BIOS?

First, you have to find out whether your PC contains UEFI (Unified Extensible Firmware Interface) or BIOS (Basic Input/Output System):

In case of an UEFI based PC see the "UEFI Installer image" tab. In case of a BIOS based PC see the "BIOS Installer image" tab or "BIOS direct write image" tab. "BIOS Installer image" or "BIOS direct write image"?

"BIOS Installer image" or "BIOS direct write image"?

The "BIOS installer image" is used to boot from and install the DietPi system on a different target boot drive (storage medium). In contrary to that the "BIOS direct write image" is used to be write the image directly to the target DietPi boot drive.

UEFI Installer Image / BIOS installer image

Download Rufus and run the application. There is a portable version of Rufus available which doesn't require any local installation.

Be careful if you run alternative applications!

While Balena Etcher is recommended for installing DietPi on SBCs, it does not provide good results for UEFI images. The same also with win32diskimager, which does not work as an alternative.

Write image to USB drive

Start Rufus application and make sure you have your USB drive inserted into your computer. Follow the next steps:

- 1. Select the USB device
- 2. Select the downloaded **DietPi** image
- 3. Select GPT as partition scheme
- 4. Select **UEFI** as target system
- 5. Click on Start button

Ensure that the selected USB medium is the correct one.

All data on the USB medium and later on the target PCs harddisk will be erased!

Before starting the installation first make a backup of the data available on the target PC and USB drive if you need it later again!

🖋 Rufus 3.13.1730 (Portable)				×
Drive Properties				
DIETRI INISTALLER (E.) 19 (P1				
				~
Boot selection	· · · · · · · ·			2
DietPi_NativePC-UEFI-x80_04-Buster_Installe	er.iso 🗸	\odot	SELECT	▼
Persistent partition size		0.01		
		0 (No pe	ersistence)	
Partition scheme 3 Target sy		item 4		
GPT ~	UEFI (non C	5M)		~ ?
 Show advanced drive properties 				
Format Options				
Format Options —				
Volume label				
DietPi_NativePC-UEFI-x86_64-Buster				
File system	Cluster size			
FAT32 (Default) \lor	4096 bytes (Default) $\qquad \sim$			
 Show advanced format options 				
Chattan				
status —				
READ	(
nero.				
Ø (i) ⇒ ■	STADT	5	0.05	
₩ ₩ ₩ ₩	START		CLUSE	•
Ileing image DietPi NativePC-IIEEL-V96-64-Ru	ster Installer is	0	0	0.03.03
Jsing image: Dieter_ivativeeC+OEFI-X80_04-Buster_installer.iso 00:03:0.				

Boot the target PC and install the image on the local disk

Boot the **target PC** from the USB image and install the image on the local disk / harddisk. Put the USB stick into the target PC and boot from this USB stick.

BIOS settings

It may be necessary to change BIOS settings to enable the UEFI boot or USB stick boot. This action is not described here.

During the initial boot, the following dialog may appear to boot from the USB stick:

Please select boot device:		
UEFI: Built-in EFI Shell P1: TOSHIBA MK2555GSX General USB Flash Disk 1100 UEFI: General USB Flash Disk 1100, Partition 1 Enter Setup		
↑ and ↓ to move selection ENTER to select boot device ESC to boot using defaults		

After booting the graphics selection dialog appears:



You can select the default settings. In case of problems, please select "Safe graphic settings".

Once this step is completed, you will able to select a different keyboard. If necessary, change your keyboard settings and go through the appropriate dialogues.

Then the installation process begins with the help of the wonderful Clonezilla tool.

Select the image file to be installed on the target PCs harddisk. Normally you should only see one single option:

Clonezilla – Opensource Clone System (OCS) Mode: restoredisk Choose the image file to restore:	
DietPi_NativePC-UEFI-x86_64-Buster2020-0601-1838_loop0_1178MB <ok> <cancel></cancel></ok>	

After this, you have to select the target PCs harddisk where your DietPi shall be installed. In this example there is only one harddisk present:

Clonezilla - Opensource Clone System (OCS) Mode: restoredisk Choose the target disk(s) to be overwritten (ALL DATA ON THE ENTIRE DISK WILL BE LOST AND REPLACED!!) The disk name is the device name in GNU/Linux. The first disk in the system is "hda" or "sda", the 2nd disk is "hdb" or "sdb" Press space key to mark your selection. An asterisk (*) will be shown when the selection is done sda 8590MB_VBOX_HARDDISKVBOX_HARDDISK_VBE3654da6=23e3f789			
<0k>	<cancel></cancel>		

After this, the installation process starts with several steps, e.g. showing the process of the image copying:

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Native PC



These steps take some time, be patient! Otherwise buy an SSD. ::-)At the end the system executes a shutdown.

WiFi connection

To setup the WiFi, you have to change the network settings matching to your environment:

- 1. Open the file dietpi-wifi.txt and set aWIFI_SSID[0] to the name of your WiFi network.
- In the same file dietpi-wifi.txt, set aWIFI_KEY[0] to the password of your WiFi network.
- 3. Save and close the files

You need to set these values before you boot up the PC for the first time (initial boot).

For the first boot up of your PC disconnect your USB stick from the target PC and power on the PC to login and execute the first boot procedure.

Bios direct write Image

Download Rufus and run the application. There is a portable version of Rufus available which doesn't require any local installation.



Be careful if you run alternative applications!



While Balena Etcher is recommended for installing DietPi on SBCs, it does not provide good results for UEFI images. The same also with win32diskimager, which does not work as an alternative.

Write image to disc drive

Start Rufus application and make sure you have your disc drive connected into your computer. This may e.g. be done using an USB to SATA controller if you use a SATA disc drive. Follow the next steps:

- 1. Show advanced drive properties and select **List USB hard drives** (in case that you have connected your disc drive via a USB adapter)
- 2. Select the disc drive device
- 3. Select the downloaded DietPi image
- 4. Click on Start button

Ensure that the selected disc drive is the correct one.



Before starting the installation first make a backup of the data available on the disc drive if you need it later again!



1 device found

WiFi connection

To setup the WiFi, you have to change the network settings matching to your environment:

- 1. Open the file dietpi-wifi.txt and set aWIFI SSID[0] to the name of your WiFi network.
- 2. In the same file dietpi-wifi.txt, set aWIFI_KEY[0] to the password of your WiFi network.
- 3. Save and close the files

You need to set these values before you boot up the PC for the first time (initial boot).

For the first boot up of your PC disconnect your disc drive from your working PC and connect it to the

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target PC. Then power on the target PC to login and execute the first boot procedure.

Continue with LoxBerry Installation

 \rightarrow Now please continue with the LoxBerry Installation.

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