# Benodigheden

|  |  |  |
| --- | --- | --- |
| Hardware | Extra informatie | In bezit |
| Micro controller | [STM32MP157D-DK1](https://nl.mouser.com/ProductDetail/STMicroelectronics/STM32MP157D-DK1?qs=zW32dvEIR3uOFdeAsko4%252BA%3D%3D&mgh=1&utm_marketing_tactic=emeacorp)A close up of a circuit board  AI-generated content may be incorrect. |  |
| RFID Lezer | RC522 |  |
| RFID Pas | 13.56 MHZ | In bezit: 2 |
| Button |  |  |
| LED (Groen,Rood) |  |  |
| Buzzer (Piezo) |  |  |
| Power Supply |  |  |
| Chassis | 3D printen |  |
| display |  |  |

## Optional

* Cables
* Connectors
* Resistors
* SD card for flashing

## Display

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Hardware | Beeld | Touch | Pros | Cons | Price |
| [Waveshare touch display](https://www.amazon.nl/Waveshare-4-3inch-LCD-Capacitive-DSI/dp/B083Q8YLVP?mcid=76a8456dfb6d35c6addec9e2094480ae&sr=8-1&th=1) | MIPI DSI | I2C / SPI | -Clean voor embedded systems | -Drivers waarschijnlijk niet ondersteund  - Drivers porten in de linux kernel wat heel moeilijk is | € 44,99 |
| [LCD Display 800\*480 pixels met Touchscreen](https://www.tinytronics.nl/nl/displays/tft/5-inch-lcd-display-800*480-pixels-met-touchscreen-raspberry-pi-compatible) | HDMI | USB | -Makkelijker op te zetten | - eventueel te simpel | € 33 |

## Software Benodigheden

[**STM32CubeIDE**](https://www.st.com/en/development-tools/stm32cubeide.html#get-software)

[**Linux Flasher**](https://www.st.com/en/development-tools/stm32cubeprog.html#get-software)