

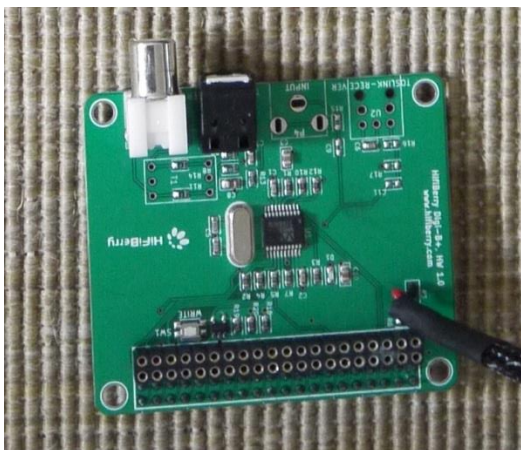
Tutorial Raspberry Pi + Hifiberry + HD44780

Hardware

- Raspberry pi 2 or Raspberry pi b+



- Hifiberry
 - o <https://www.hifiberry.com/product/hifiberry-digiplus-standard-version/>



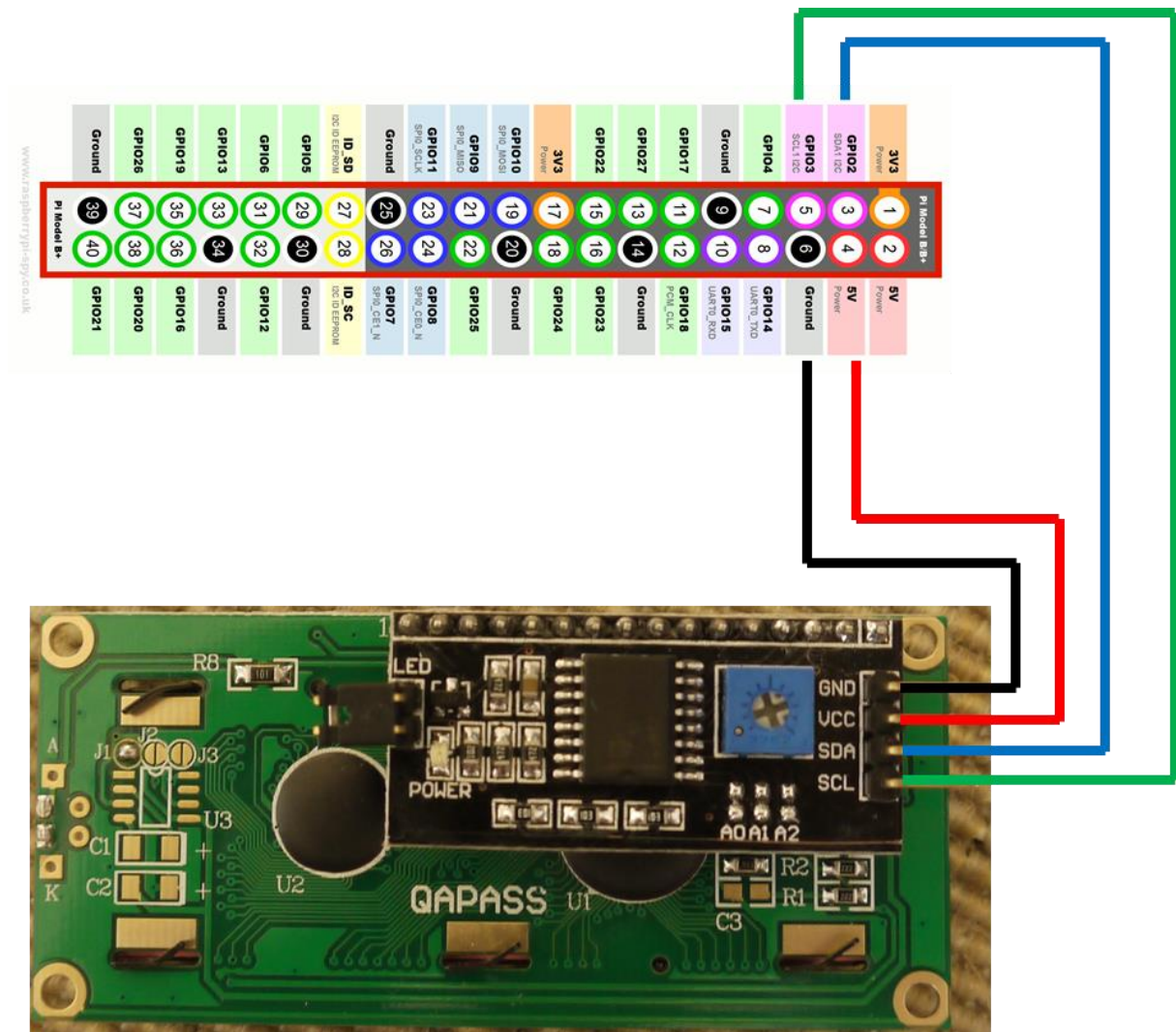
Plug the Hifiberry on the Raspberry Pi

- HD44780 (OLED or LCD) (20x4 or 16x2) + PCF8574
 - o <http://shop.ulrichradig.de/Bausaetze/Kits-Boards/I2C-LCD-Controller-PCF8574.html>

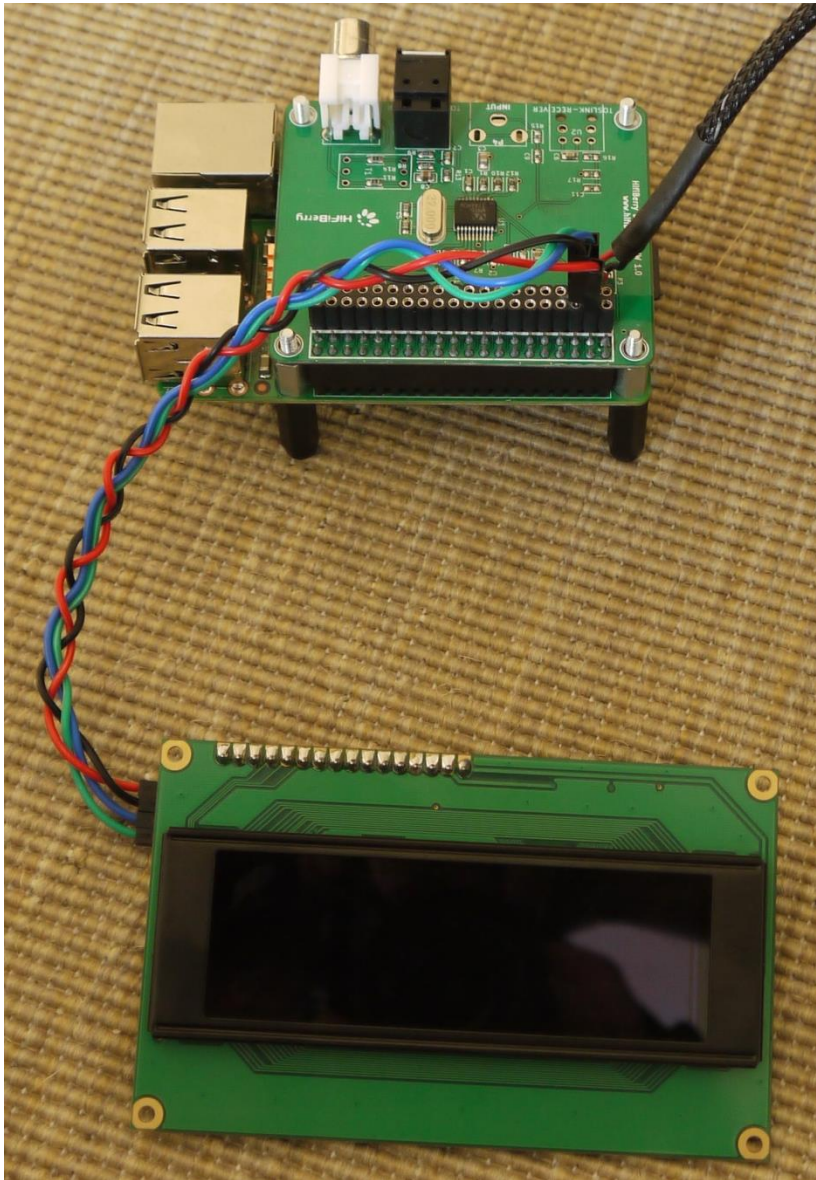


Plug the PCF8574 Controller one the HD44780.

Wiring Raspberry pi GPIO i2c to the PCF8574 Controller



So this is how it looks like if you have it done right:



Software

Install in KODI the service add-on “XBMC LCDproc”

For other distributions: “sudo apt-get install lcdproc”

Start putty and SSH into your PI

I create a directory: mkdir /storage/downloads

I placed there the Driver for the HD44780 for the PCF8574 Controller

HD44780.so =>

<http://sourceforge.net/p/lcdproc/discussion/312/thread/00298b2f/>

<https://github.com/wilberforce/lcdproc>

Now edit your LCDd.conf. it must be in /storage/.config/

Add to LCDd.conf “DriverPath=/storage/downloads/”

Add to LCDd.conf “Driver=hd44780”

Go to the section: ## Hitachi HD44780 driver ## [hd44780]

Add to LCDd.conf “ConnectionType=i2c”

Add to LCDd.conf “Port=0x27”

Add to LCDd.conf “Device=/dev/i2c-1”

Add to LCDd.conf “Size=20x4” for the 20x4 or “Size=16x2” for the 16x2

Save the change

Now close LCDd.conf

Reboot the Raspberry pi