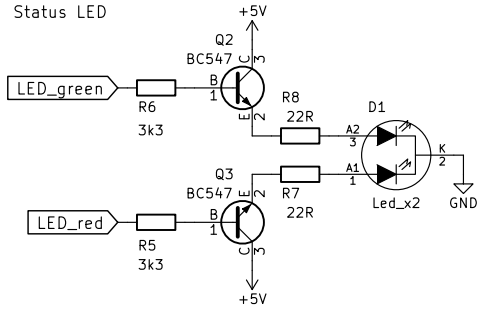
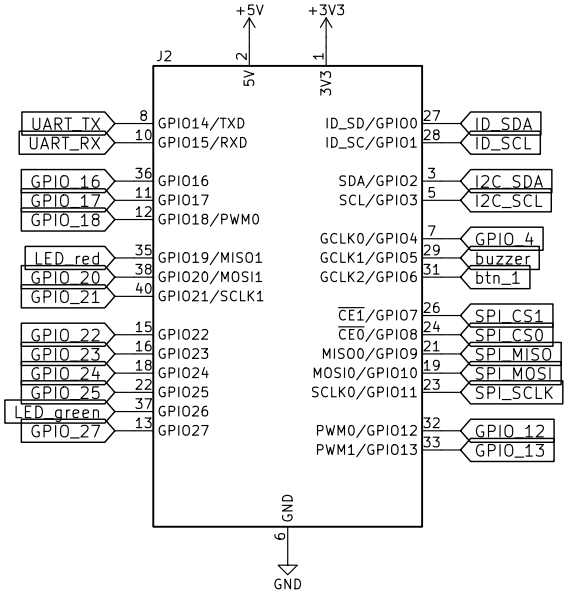
User interface



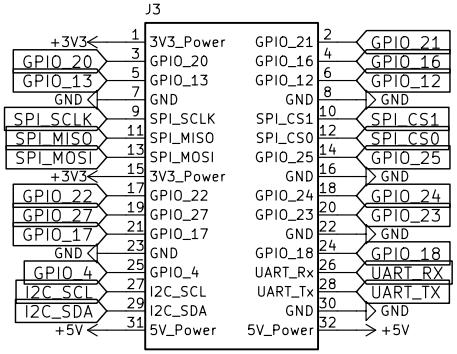
Raspberry Pi GPIO

Compatible with the 40-pin Raspberry PI GPIO header.
Tested with RPi models 3B, 3B+, 4B, 5B



Edgeberry Cartridge connector

Expansion slot for application-specific hardware.



Edgeberry Cartridge Connector

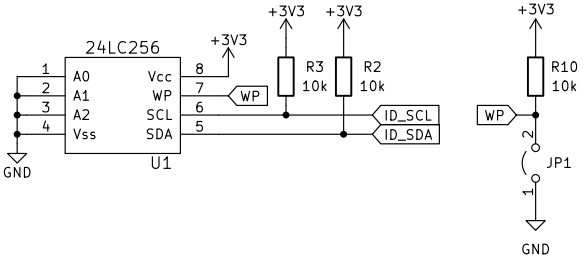
RPi HAT ID EEPROM

EEPROM I2C address

EEPROM I2C address must be set to 0x50 to be used as a Raspberry Pi 'hat' ID. With the 24LC256 this means pulling all Address pins low.

EEPROM Write protection

Only for programming the EEPROM with the 'hat' information the WP pin (Write Protection) must be pulled low by the manufacturer. For normal use, write protection is enabled by pulling the pull-up resistor

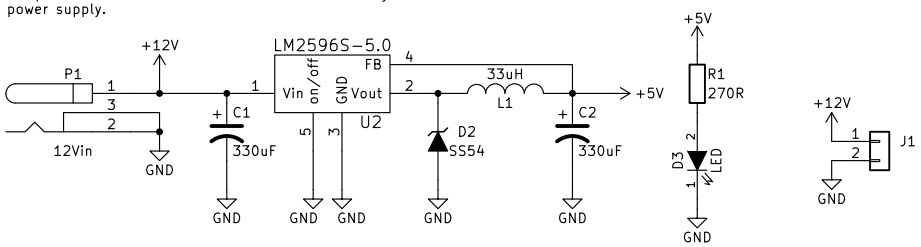


The settings file for the Edgeberry Hat EEPROM configuration is included in this repository.

More info on the Raspberry Pi Hat and using the Hat ID EEPROM:
https://github.com/raspberrypi/hats

12V – 24V Power to 5V

The LM2596 buck convertor circuit is capable of delivering a 3A output current. Its input could be powered with up to 40VDC, but is optimized for 12VDC, delivered with a standard jack connector power supply.



EDGEBERRY

Base Board Rev. 1.7, late 2024

Sheet: /
File: Edgeberry.kicad_sch

Title: Edgeberry Hardware

Size: A4	Date: 2024-05-15	**Rev: 1.5**
KiCad E.D.A. 8.0.7		Id: 1/1