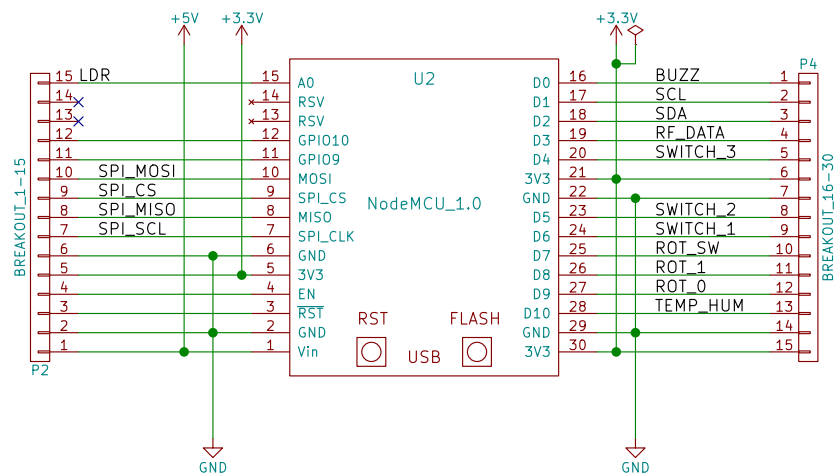
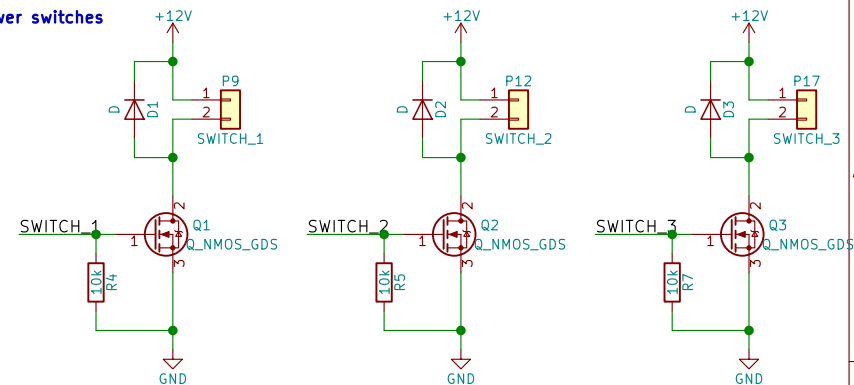


Design is based on "8.2 Typical Application" from the data sheet.  
Input power is 12 V nominal, but the design supports 8–28 V inputs.  
Output is 5V, 2A.  
EN has internal pull up.

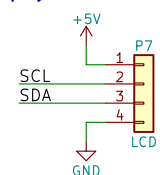


#### Power switches

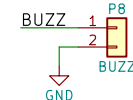


12 V switches. Can switch high-current loads.  
Make sure your power supply can supply enough current.

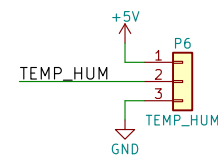
#### LCD Display



#### Buzzer

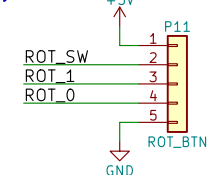


#### Temperature and humidity



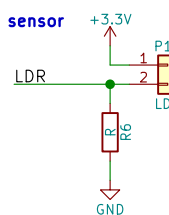
Compatible with DHT-11 and DHT-22 one-wire sensors.

#### Rotary encoder



Supports rotary encoders with a push button.

#### Light sensor

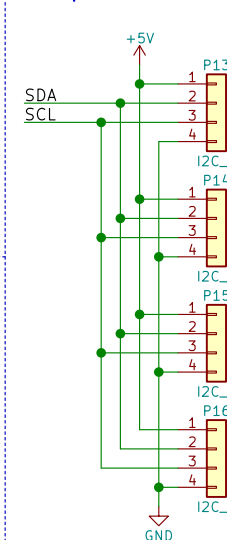


The LDR resistor has to match the LDR used so the resistor has a through hole footprint.

Suitable LDR:  
Digi-Key PDV-P8103-ND

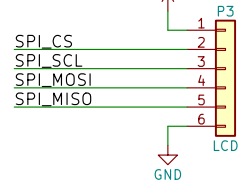
It can also work as a generic analog input.

#### I2C Expansion

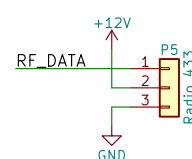


Generic I2C expansion ports.

#### SPI



#### Temperature and humidity



Sheet: /  
File: bitraf\_hydroponics.sch

**Title: Bitraf Hydroponics**

Size: A4 Date: 2017-01-05

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