

| | | | | | |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| A | | | | | A |
| B | | | | | B |
| C | | | | | C |
| D | | | | | D |
| 1 | 2 | 3 | 4 | 5 | 6 |

Sheet: Processor

File: processor.sch

Sheet: Ethernet Controller

File: ethernet.sch

Sheet: POE power suply

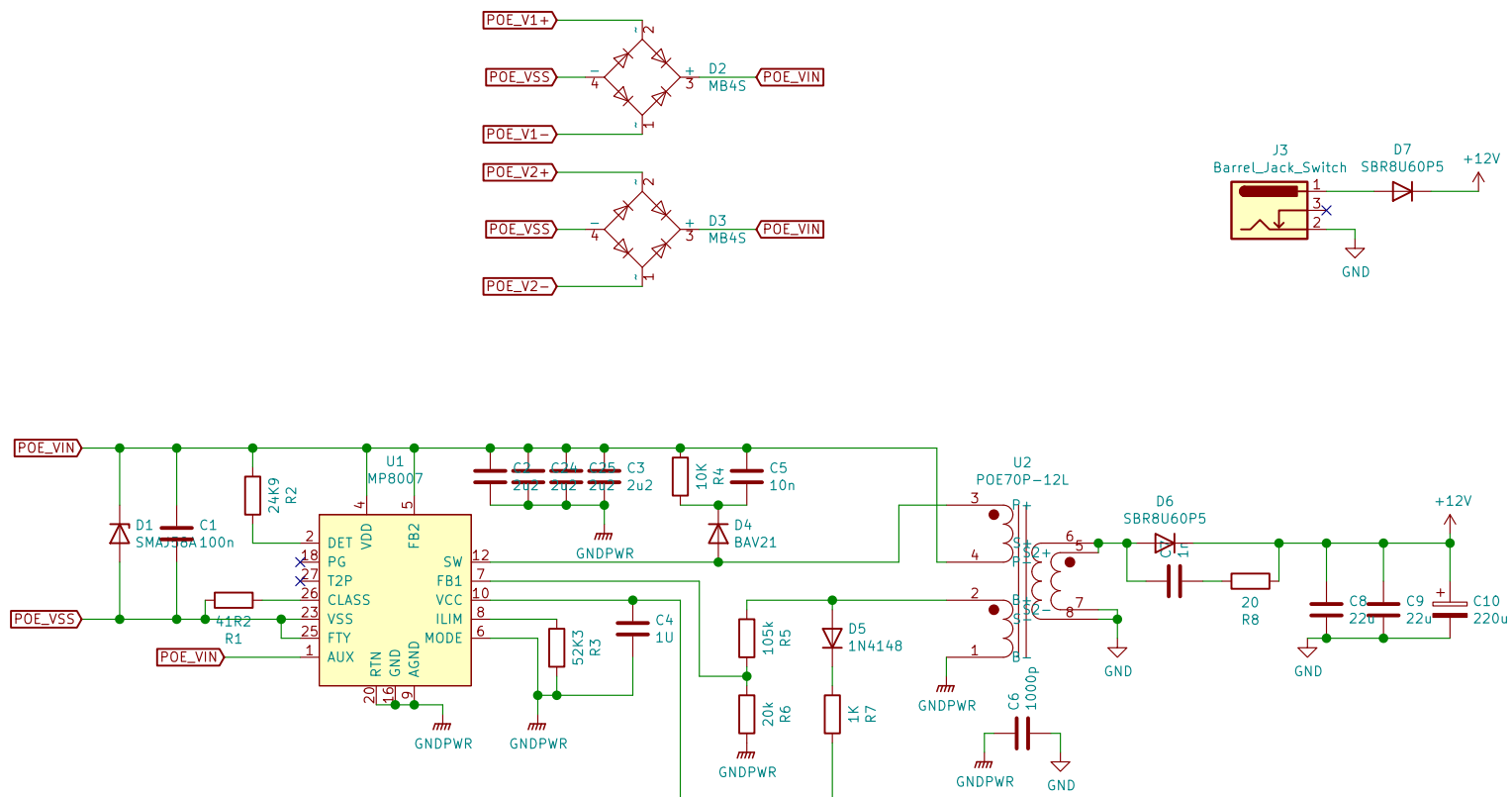
File: poe-supply.sch

Sheet: Output

File: output.sch

-  H1
MountingHole
-  H2
MountingHole
-  H3
MountingHole
-  H4
MountingHole

| | | |
|------------------------------|-------|---------|
| | | |
| Sheet: / | | |
| File: stack-light.sch | | |
| Title: | | |
| Size: A4 | Date: | Rev: |
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Check these resistor values against datasheet and transformer

Sheet: /POE power supply/
File: poe-supply.sch

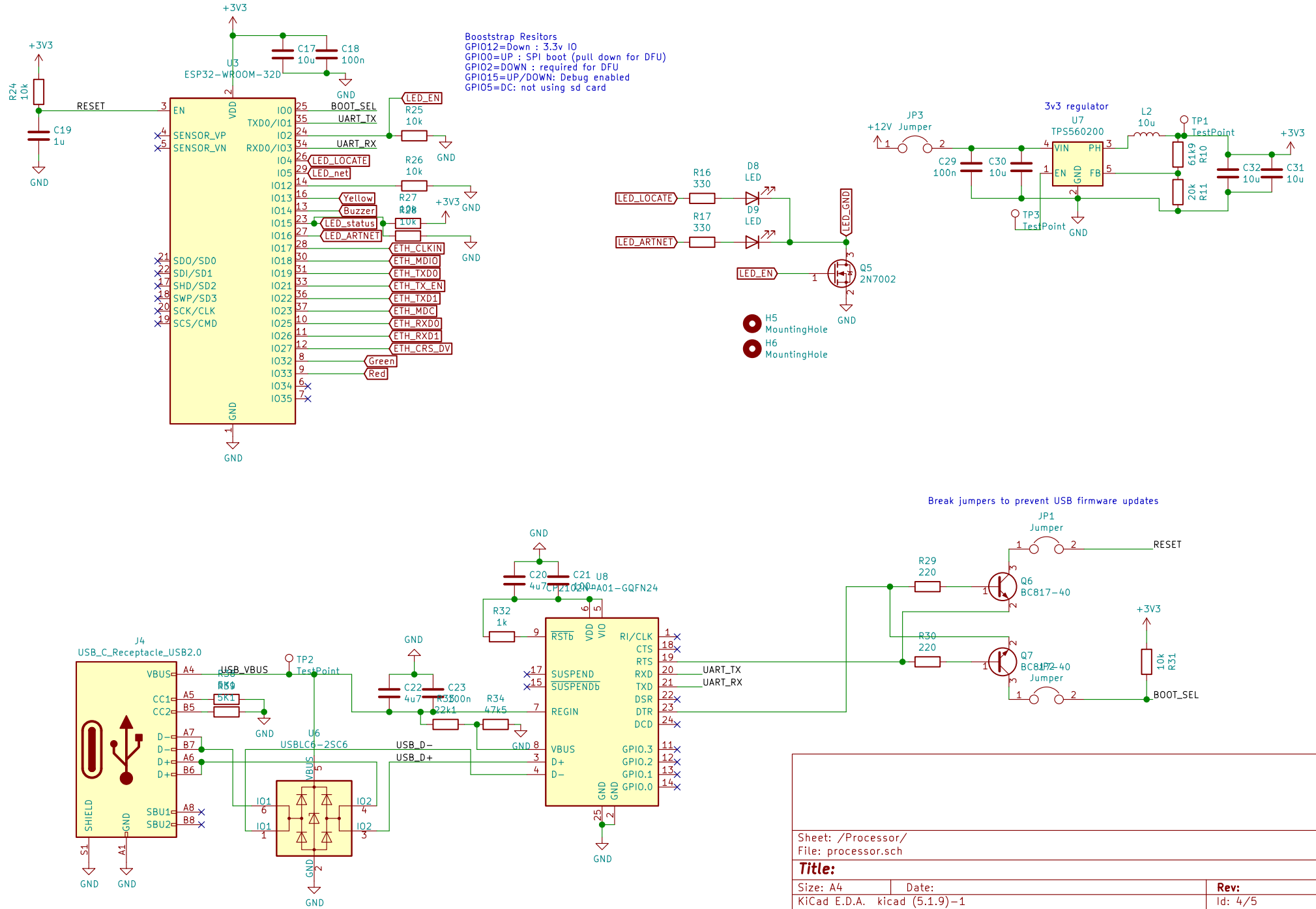
Title: POE Power Supply

Size: A4
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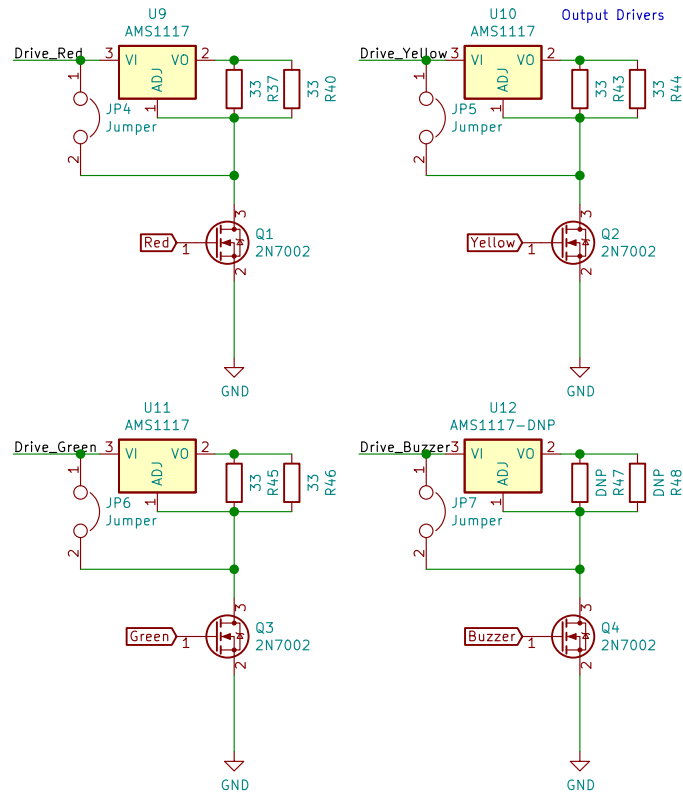
Date:

Rev:
Id: 2/5

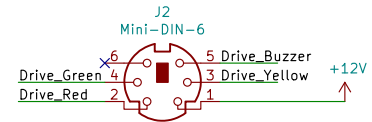
Bootstrap Resistors
 GPIO12=Down : 3.3v IO
 GPIO0=UP : SPI boot (pull down for DFU)
 GPIO2=DOWN : required for DFU
 GPIO15=UP/DOWN: Debug enabled
 GPIO5=DC: not using sd card



Each channel contains a copy of the 76ma Current limiter found inside the stack light.
The Light is then modified to bypass the internal limit and allow multiple channels to be lit simultaneously
Only the red channel reaches the full limit however the other leds expect the voltage drop so also need the limiter.



Connect Adafruit Tower light 2293
Would also work with the red only 2294
Other 12v led units could also be connected



Sheet: /Output/
File: output.sch

Title: Output Drivers

Size: A4
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Date:
Rev: 1.0
Id: 5/5