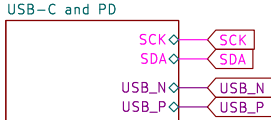
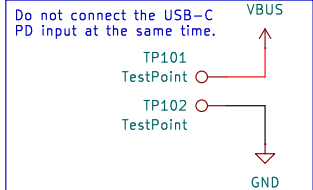


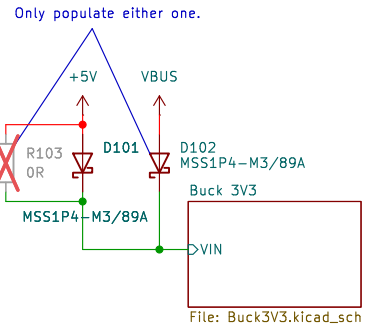
USB-C and PD



Power Injection Pads

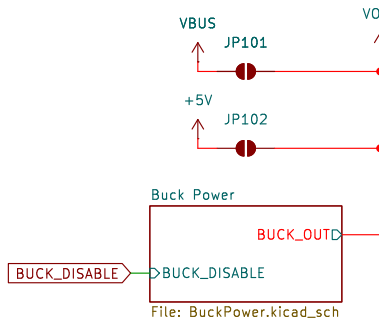


Buck 3,3 V 1 A

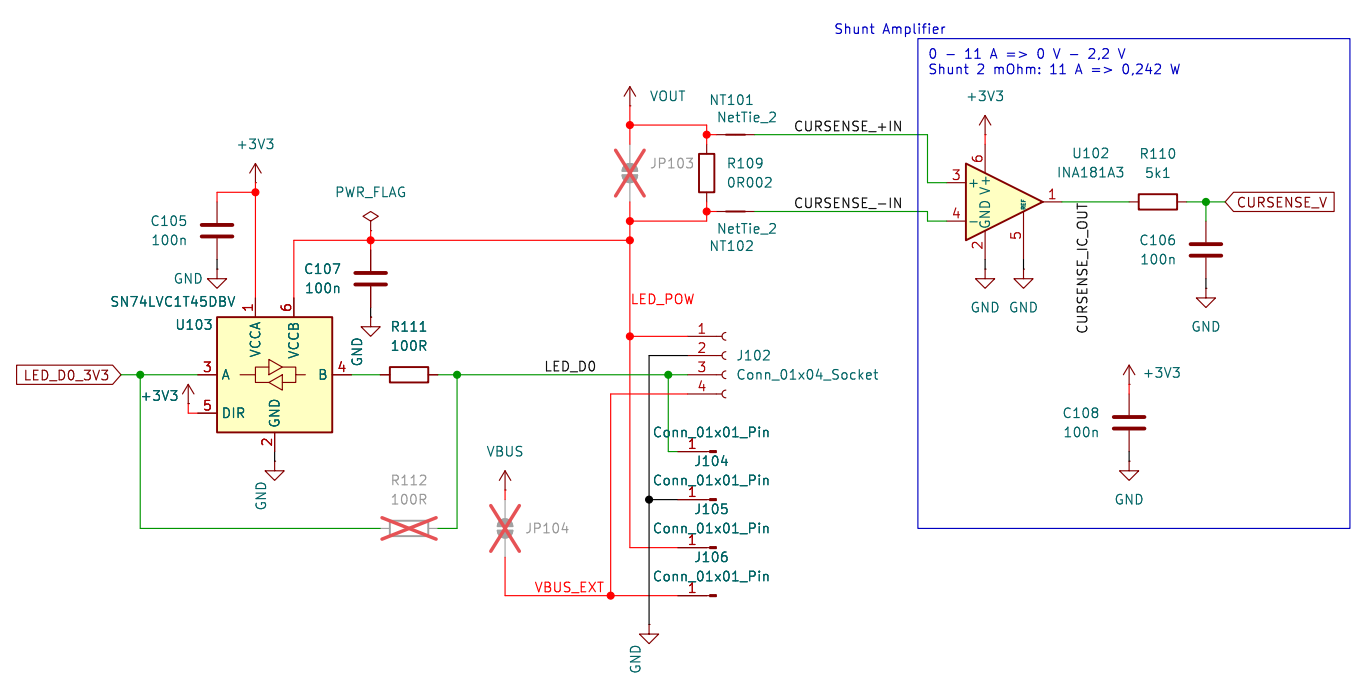


High Current Buck for LEDs

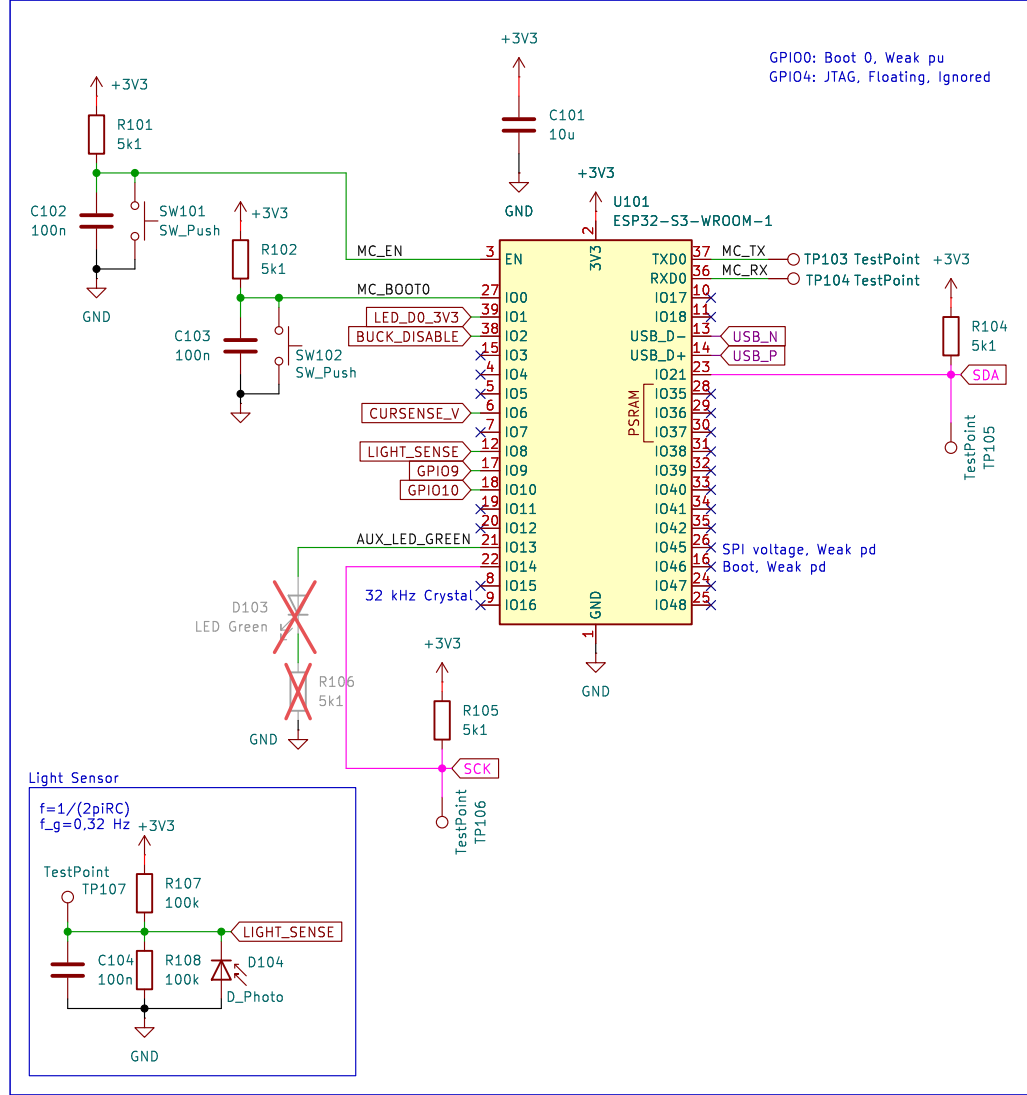
The solder bridges allow you to bypass the buck converter. The buck converter is not needed when less than 3 A are required for the LEDs. If the +5V jumper is bridged, leave the USB-C PD connector unpopulated.



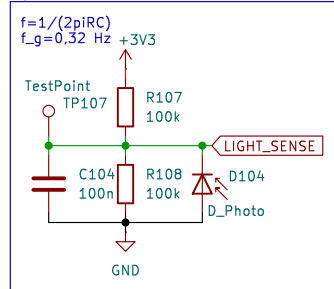
LED Strip Connection



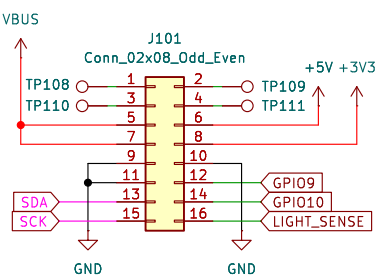
Mikrocontroller



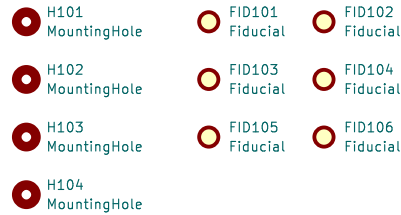
Light Sensor



Extension Connector



Mounting and Fiducial



Sheet: /
File: glowbuck.kicad_sch

Title: Glowbuck

Size: A3

Date:

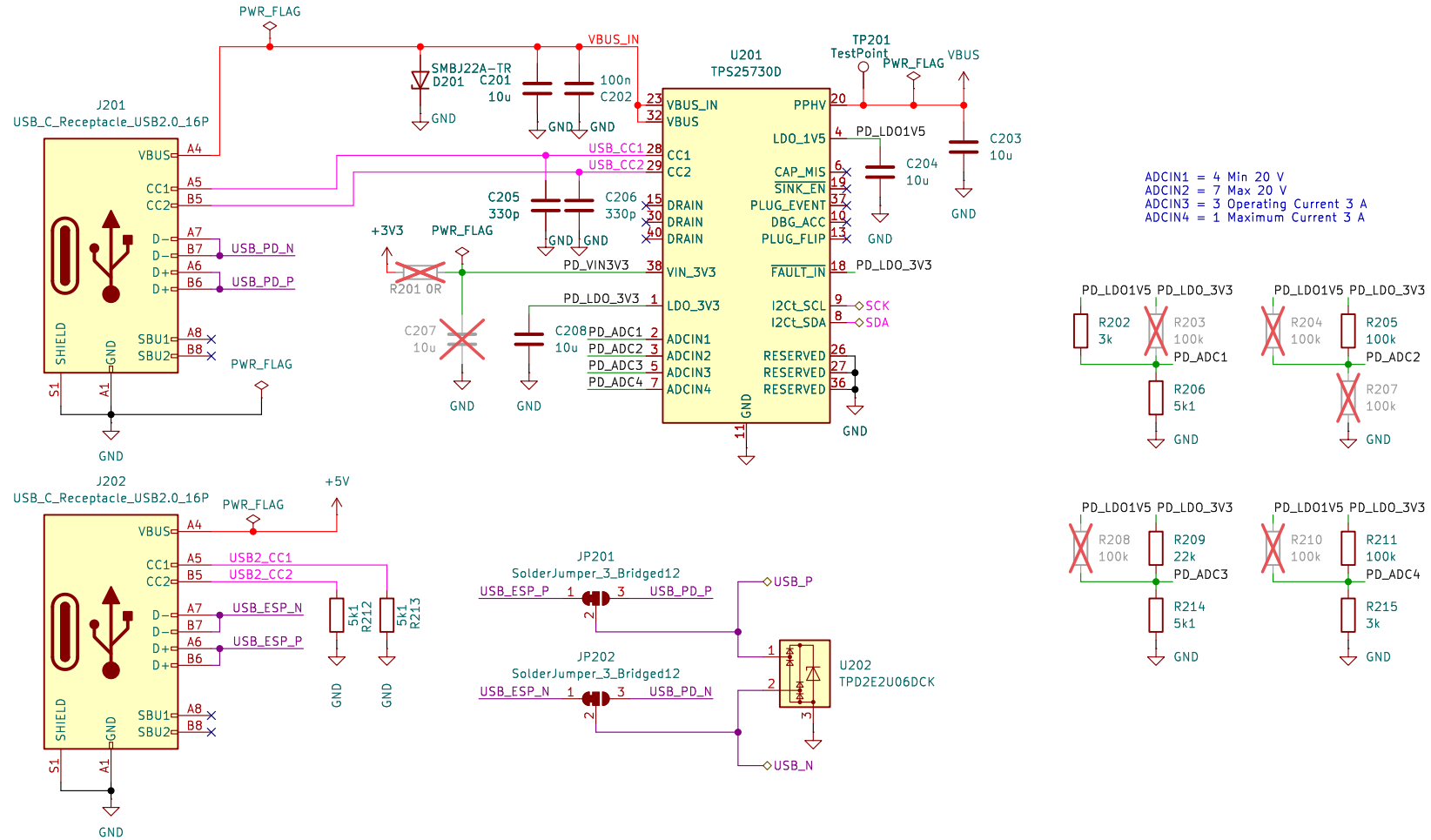
Rev:

KiCad E.D.A. 9.0.7

Id: 1/4

VBUS = 20 V @ 3 A

The TPS25730D limits the slew rate of the internal power MOSFET and allows for more than 100 uF at the output.



Sheet: /USB-C and PD/
File: USB-CAndPD.kicad_sch

Title: Glowbuck

Size: A4
KiCad E.D.A. 9.0.7

Date:

Rev:
Id: 2/4

+3V3 can deliver up to 1 A.
The IC can deliver up to 2 A with all components on this sheet.

VIND

TP301 TestPoint

C302 10u

GND

C303 10u

GND

PWR_FLAG

U301 AP63203WU

IN 3

EN 2

GND 4

SW 5

BST 6

FB 1

C301 100n

L301 3u9

NetTie_2 NT301

C304 10u

GND

C305 10u

GND

C306 10u

GND

C307 10u

GND

+3V3

TP302 TestPoint

PWR_FLAG

Sheet: /Buck 3V3/		Date:	
File: Buck3V3.kicad_sch		Rev:	
Size: A4	KiCad E.D.A. 9.0.7		Id: 3/4

Title: Glowbuck

Title: Glowbuck

Title: Glowbuck

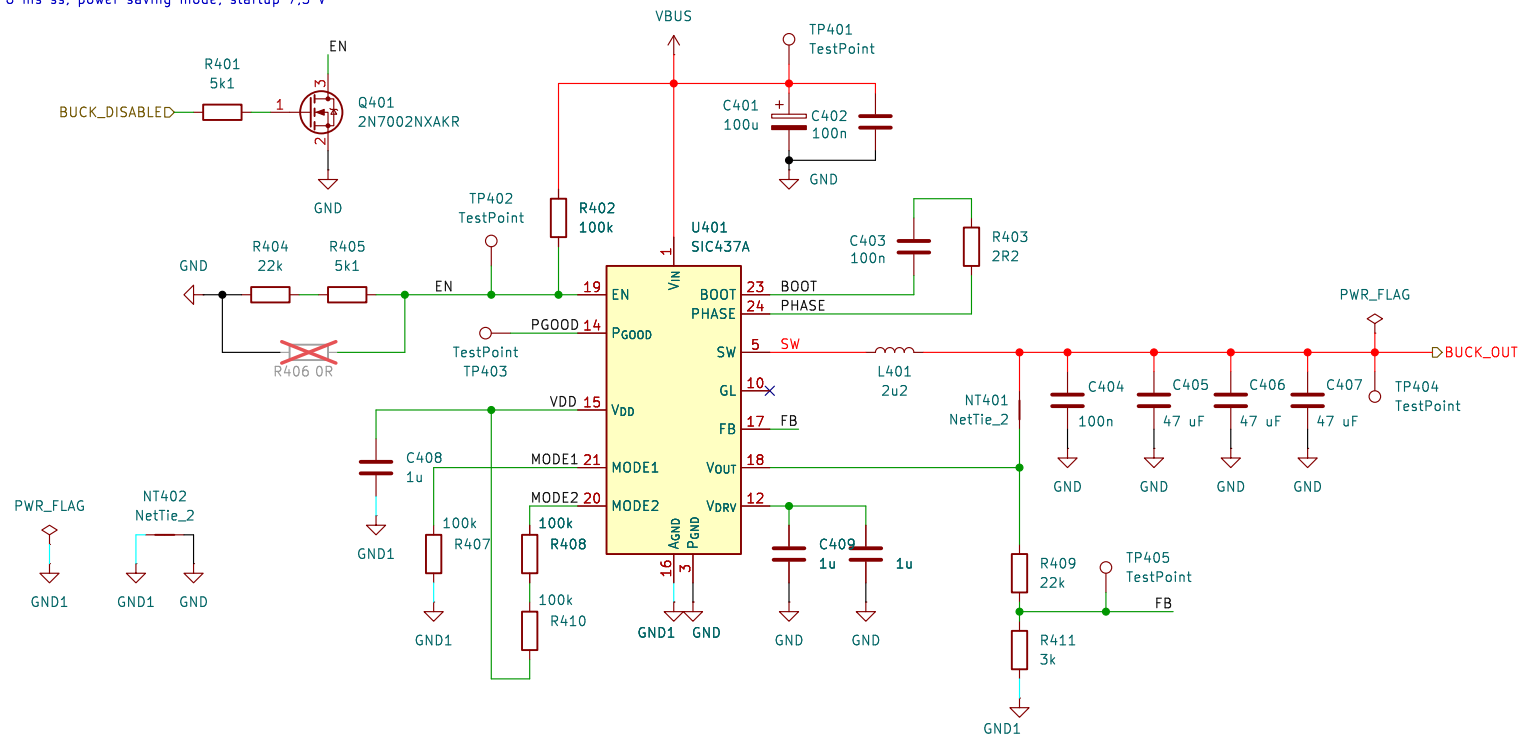
Size: A4	D
----------	---

Date:

Rev:

Id: 3/4

Output: 5 V @ 11 A
Input: 11 V, 20 V, 28 V
500 kHz, 6 ms ss, power saving mode, startup 7,5 V



Sheet: /Buck Power/
File: BuckPower.kicad_sch

Title: Glowbuck

Size: A4
KiCad E.D.A. 9.0.7

Date:

Rev:

Id: 4/4