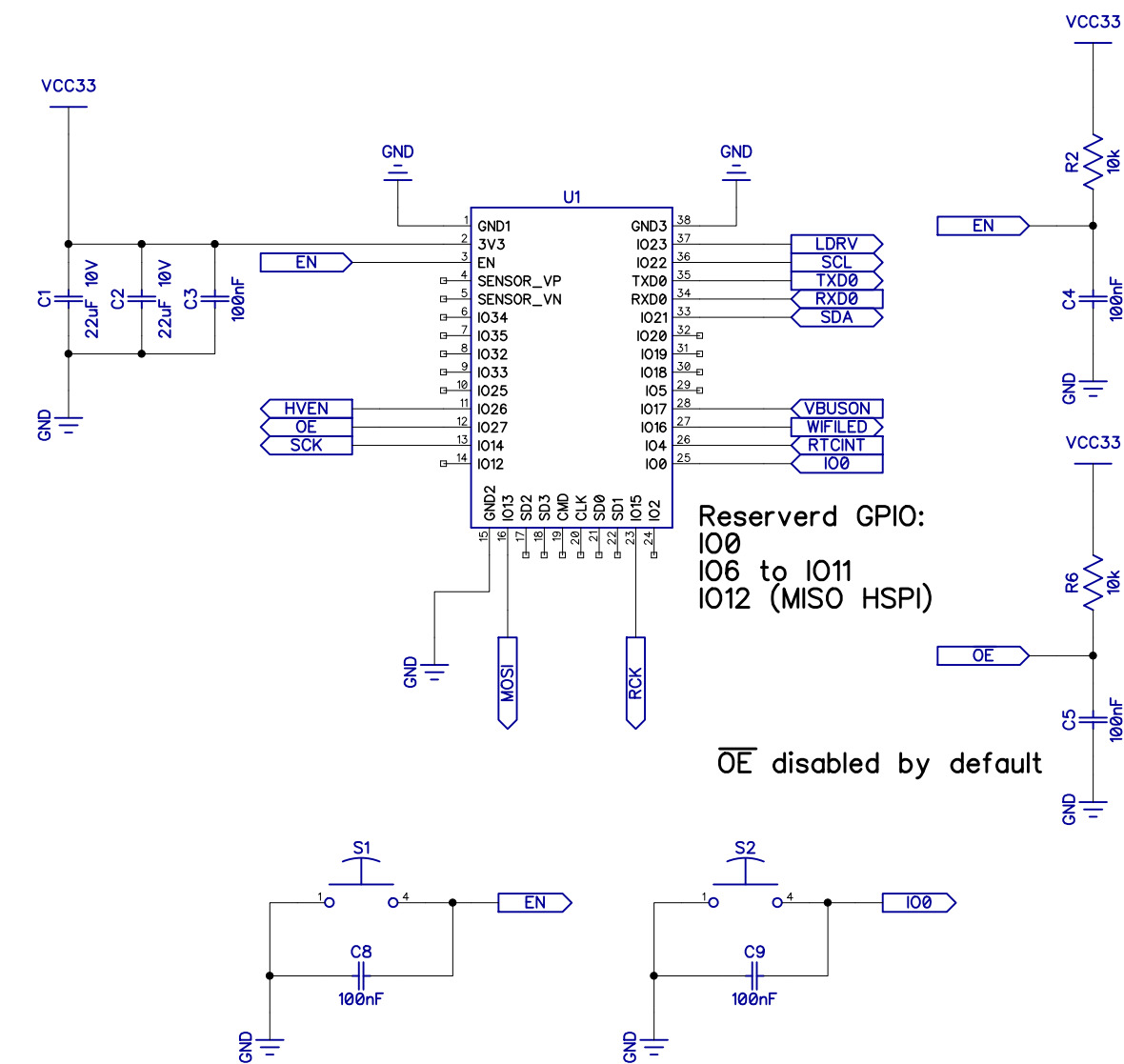


ESP32 Module



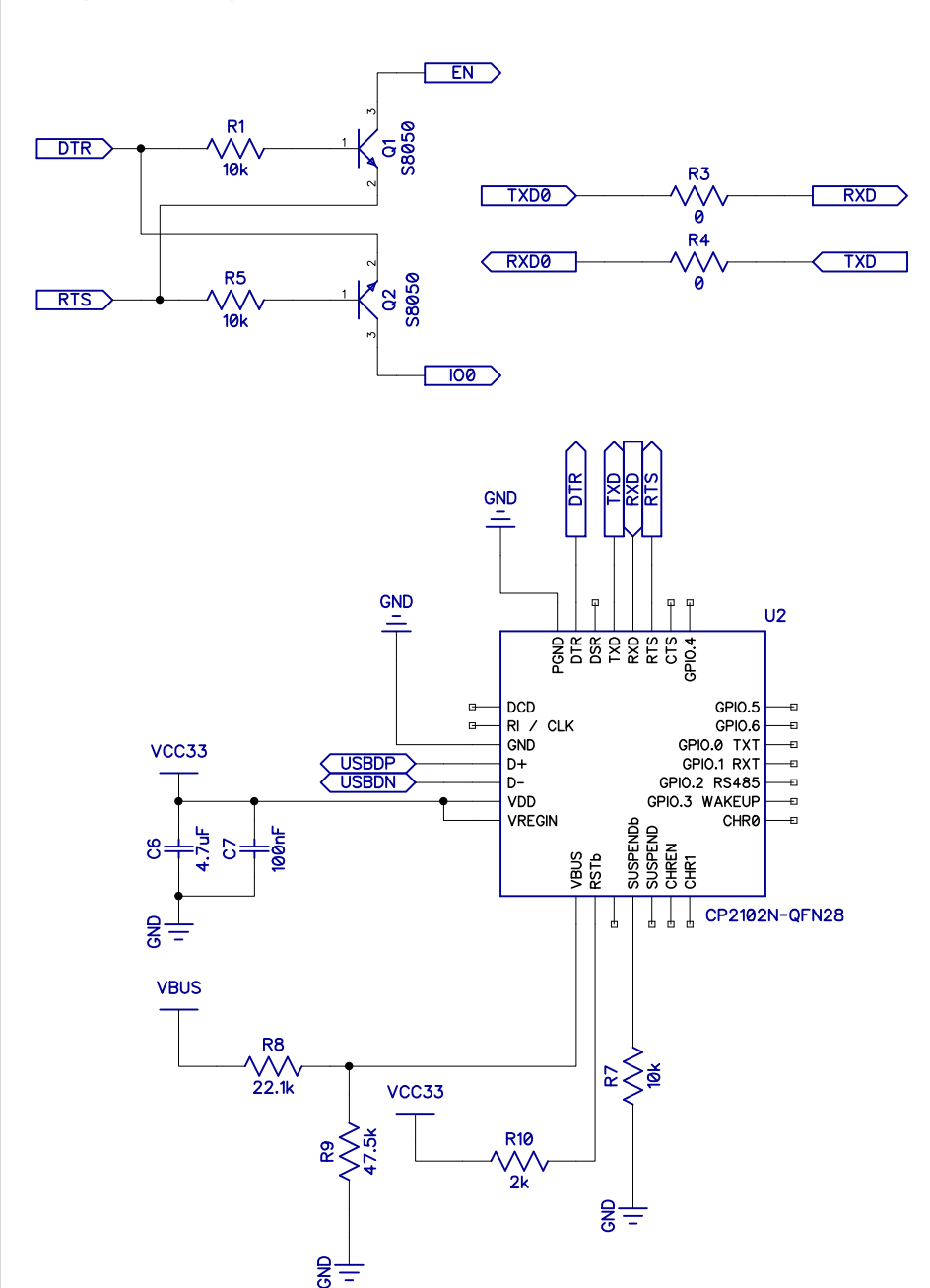
Reserverd GPIO:
IO0
IO6 to IO11
IO12 (MISO HSPI)

OE disabled by default

Auto Program

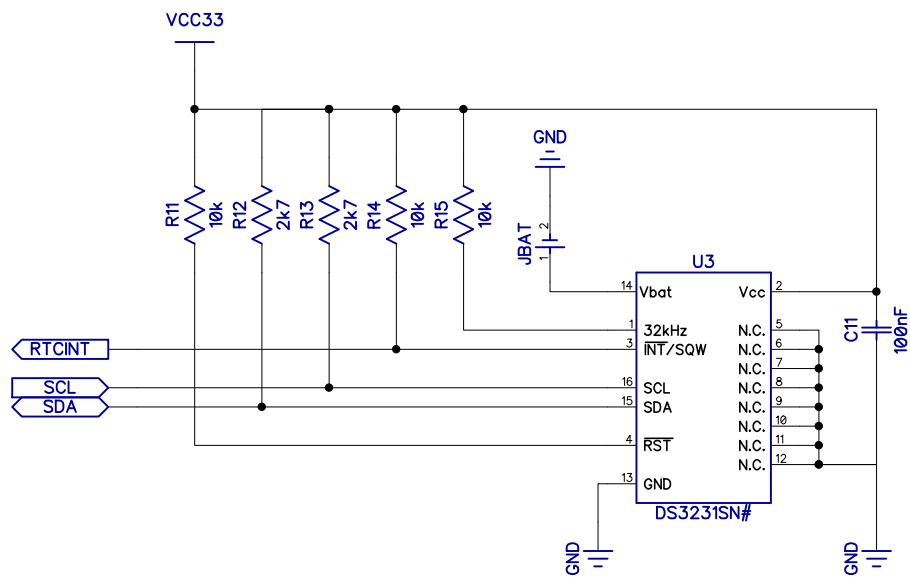
DTR	RTS	EN	IO0
1	1	1	1
0	0	1	1
1	0	0	1
0	1	1	0

Programming Circuitry

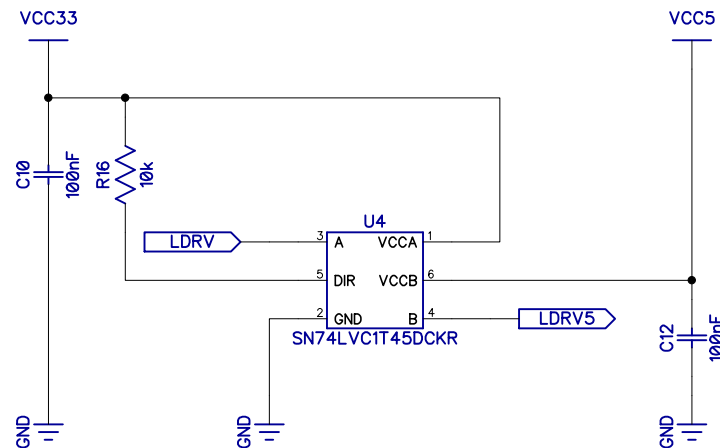


IN-12 Nixie Clock

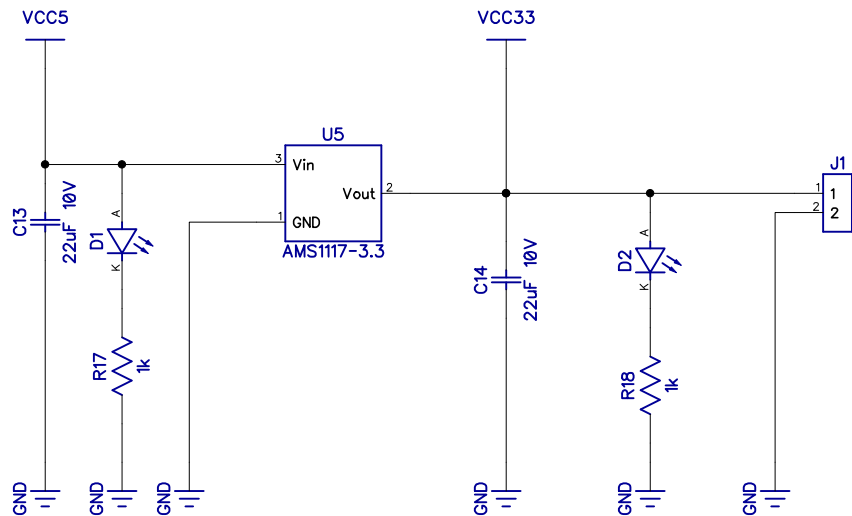
Real Time Clock



LED Driver Voltage Converter



3V3 Linear Regulator



IN-12 Nixie Clock

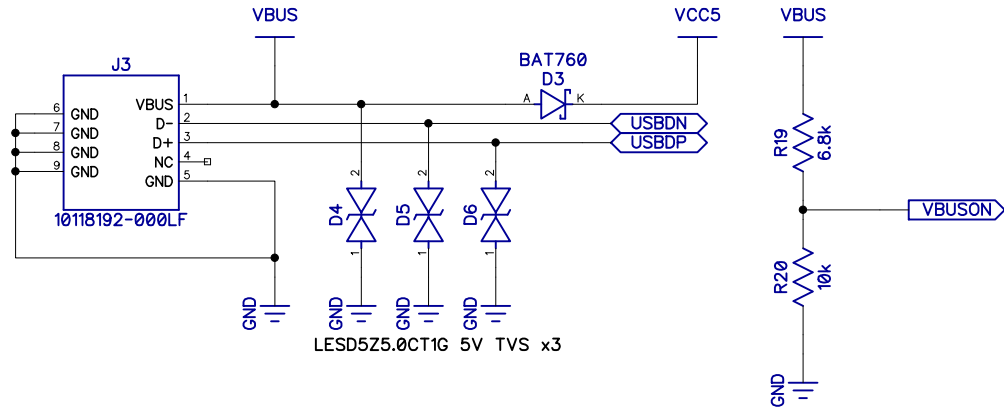
Author: Tony Pottier

Rev: B

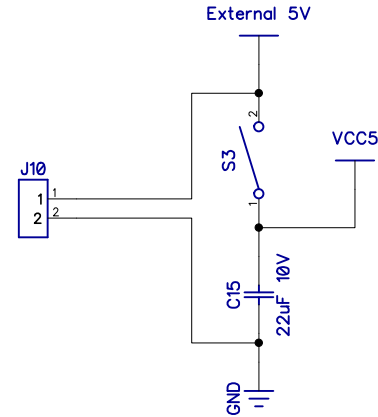
Date: 14-Jan-2019

Sheet: 2/4

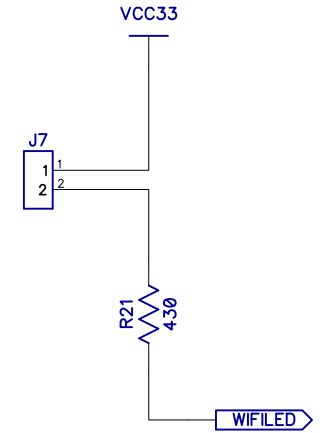
Micro USB Connector



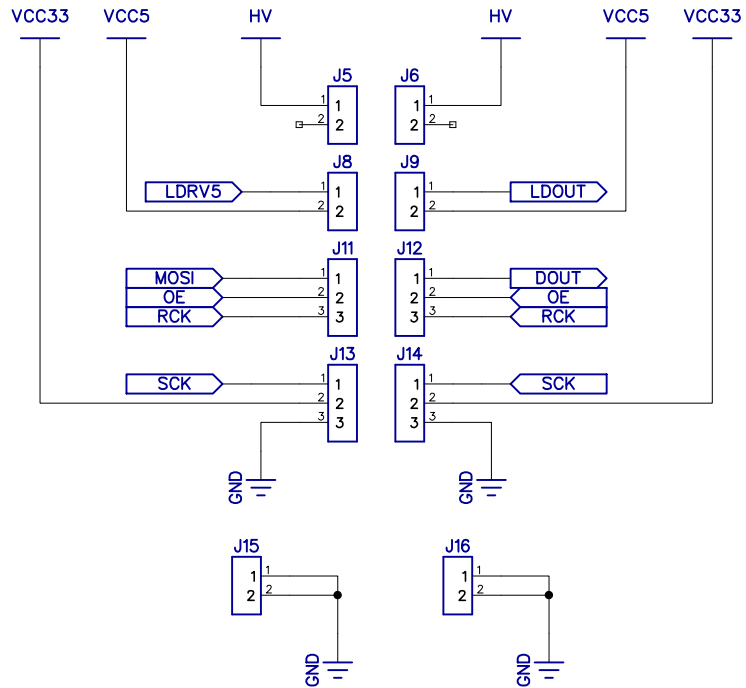
External 5V PSU



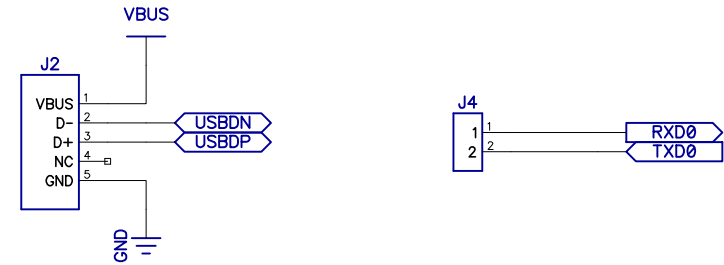
External LED



Header pins



USB & Serial Header pins



IN-12 Nixie Clock

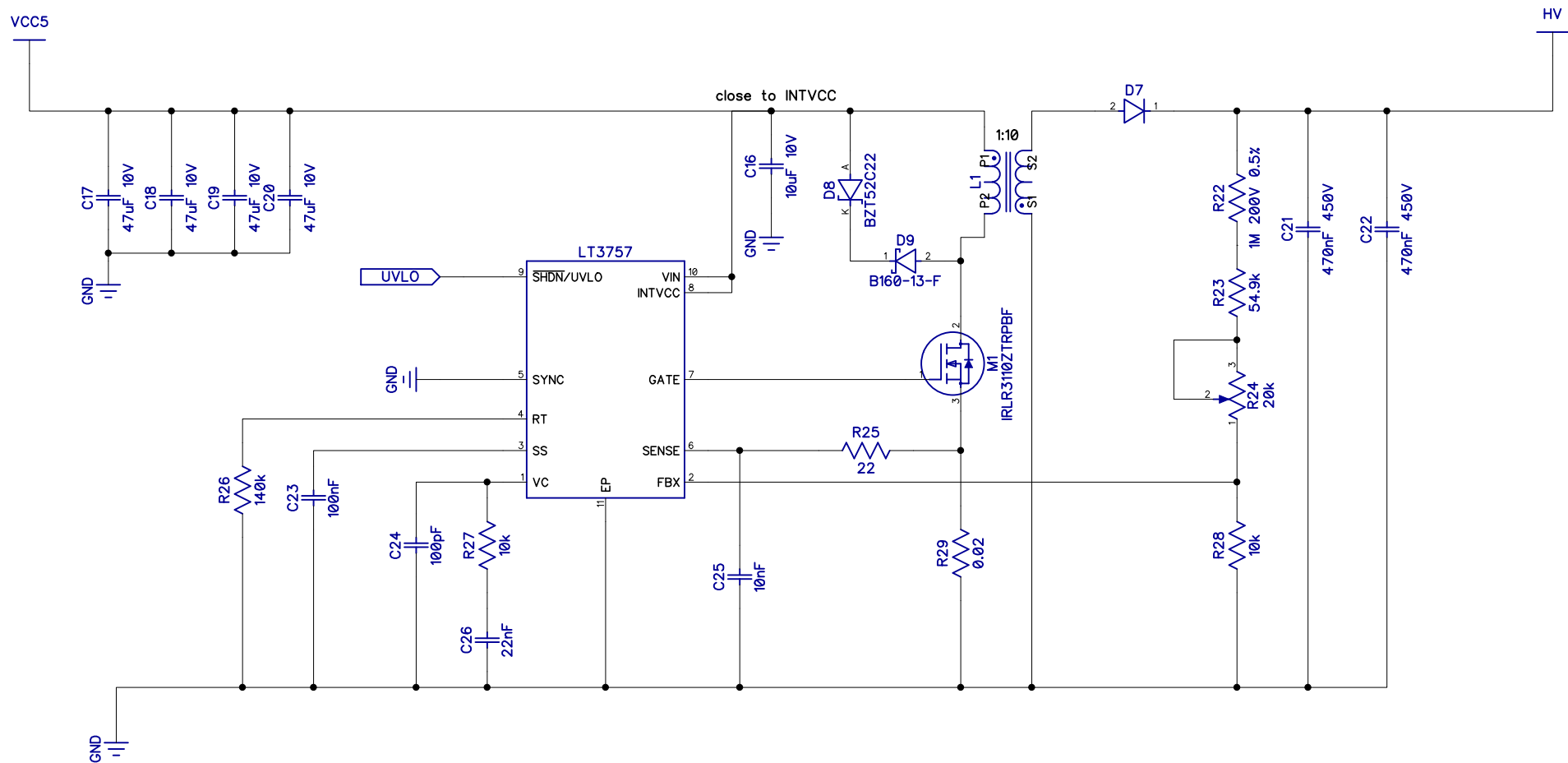
Author: Tony Pottier

Rev: B

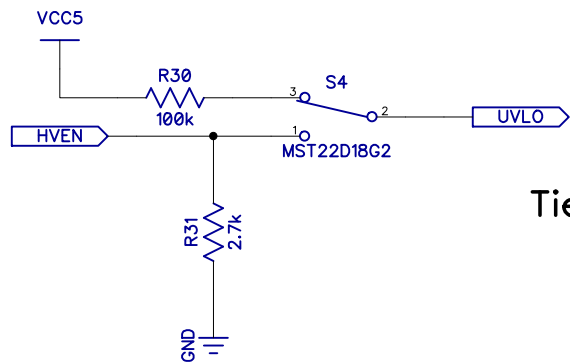
Date: 14-Jan-2019

Sheet: 3/4

High Voltage Power Supply



HV Mode Select



Tie to 5V or ESP32

IN-12 Nixie Clock

Author: Tony Pottier

Rev: B

Date: 14-Jan-2019

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