

**Table 6: Chip Boot Mode Control**

Boot Mode	GPIO2 <sup>2</sup>	GPIO6	GPIO9
<b>SPI Boot</b>	1	Any value	1
Joint Download Boot <sup>3</sup>	1	1	0

<sup>1</sup> **Bold** marks the default value and configuration.

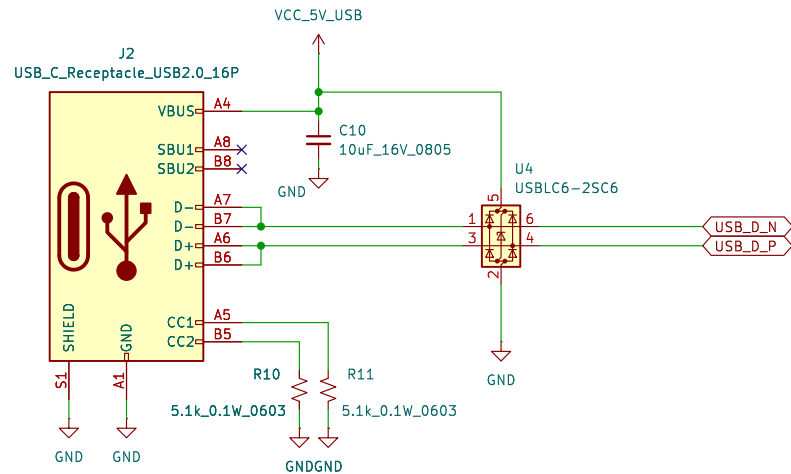
<sup>2</sup> GPIO2 actually does not determine SPI Boot and Joint Download Boot mode, but it is recommended to pull this pin up due to glitches.

<sup>3</sup> Joint Download Boot mode supports the following download methods:

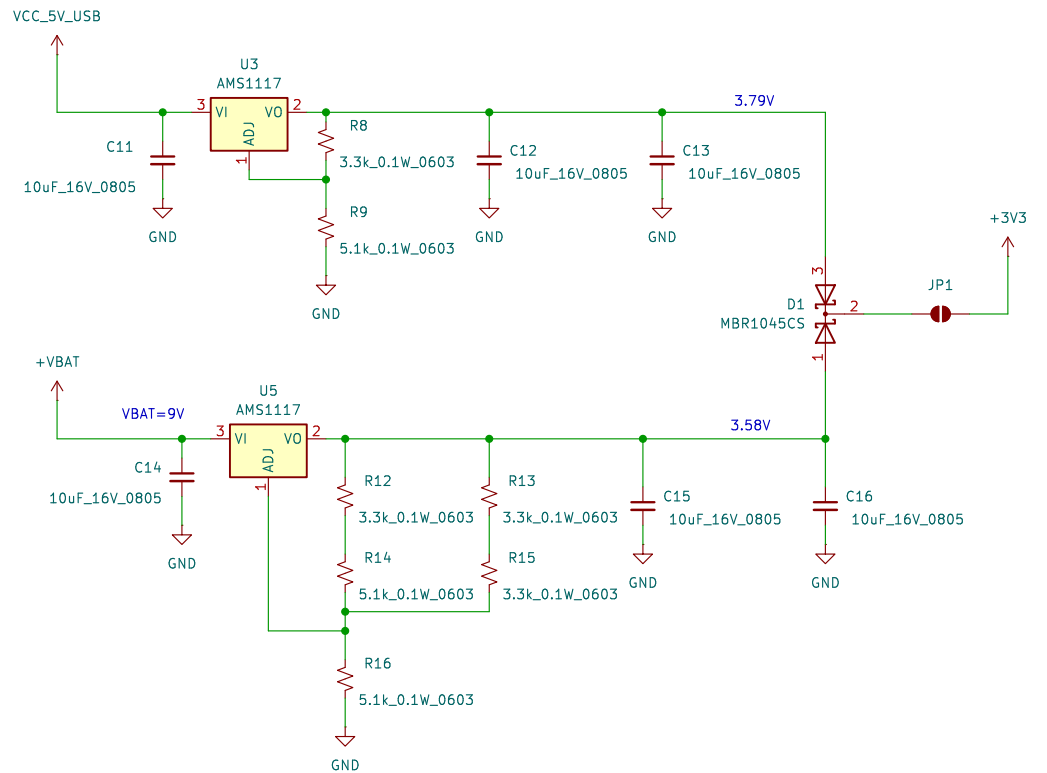
- USB-Serial-JTAG Download Boot
- UART Download Boot

Id: 1/6

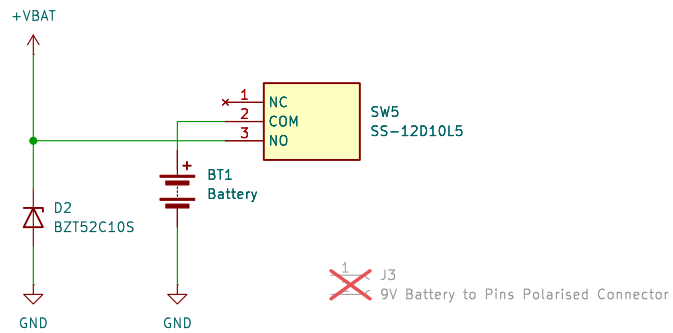
## USB Connector



## DC-DC Conversion



## Battery & ON/OFF Switch



Here's to many more tinkerers....

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Sheet: /Power Section/

File: Power\_Section.kicad\_sch

**Title: Power Section**

Size: A4

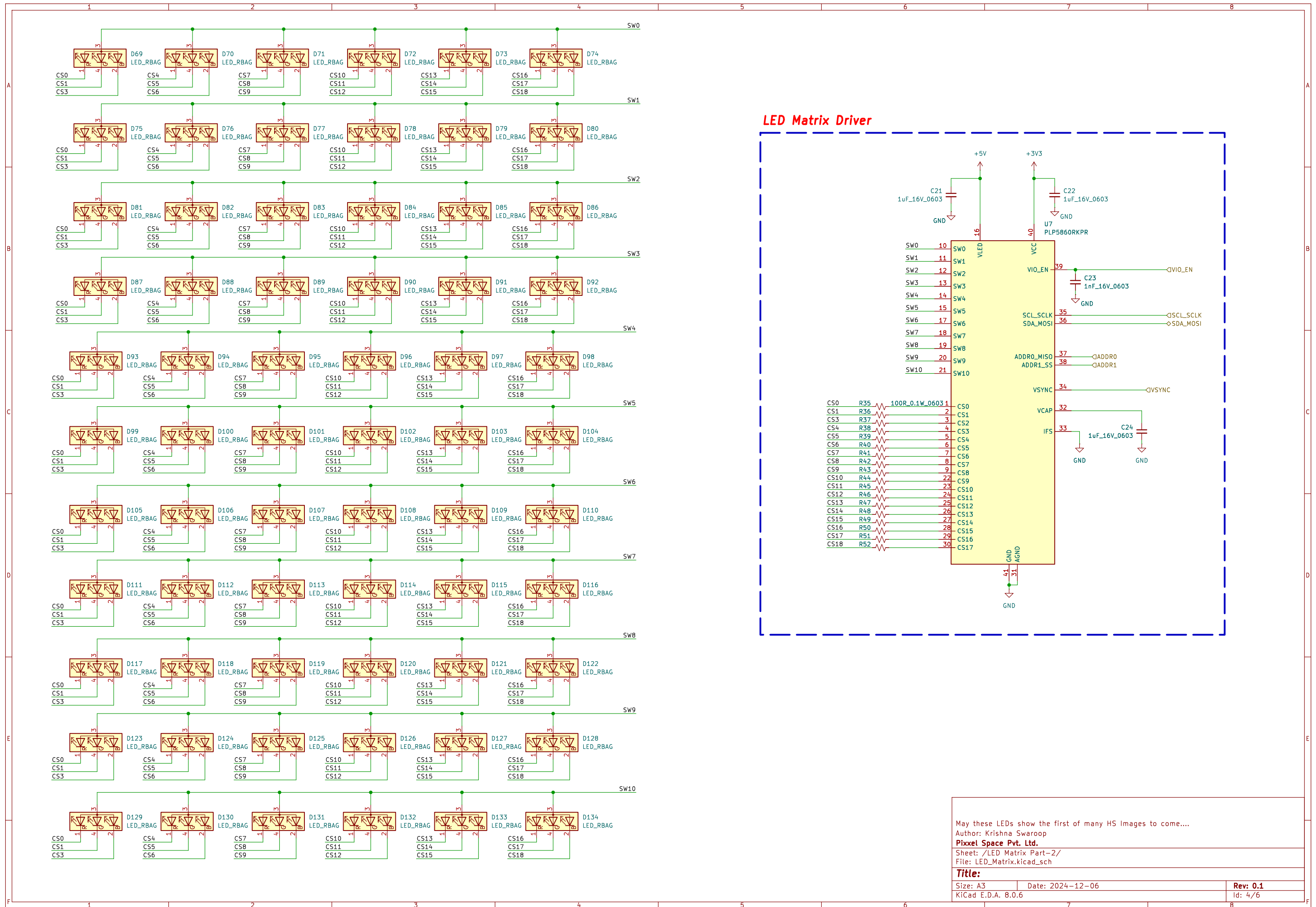
Date: 2024-12-06

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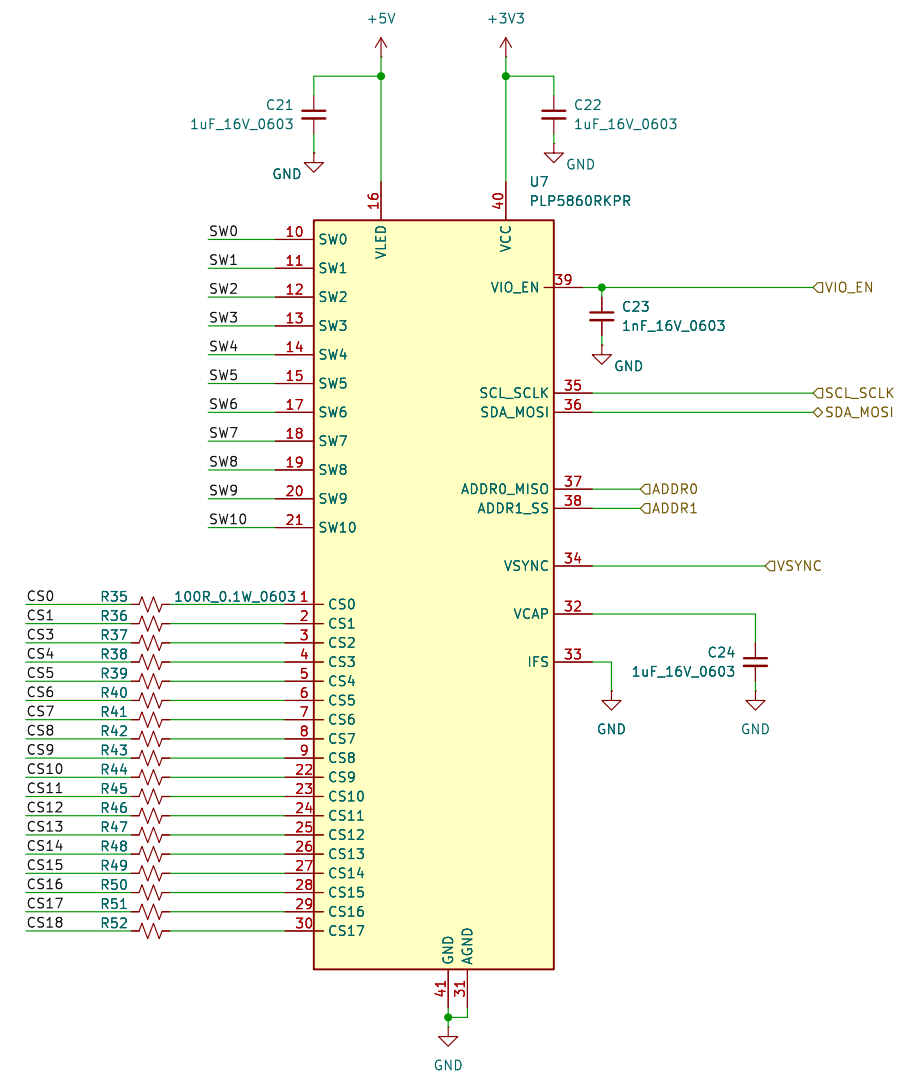
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LED Matrix Driver



May these LEDs show the first of many HS Images to come....  
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Title:		
Size: A3	Date: 2024-12-06	Rev: 0.1
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