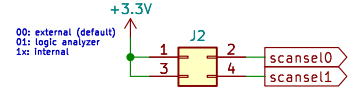


# TinyTapeout Motherboard

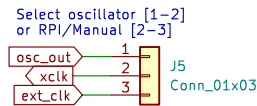
Version 2.1 Preview

## User Input + Config

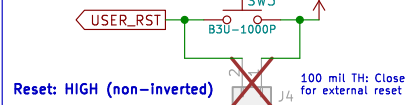
### Scan Chain Driver Select



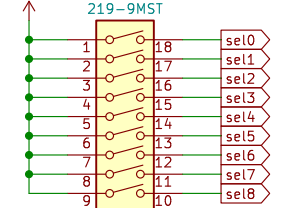
### Clock Source



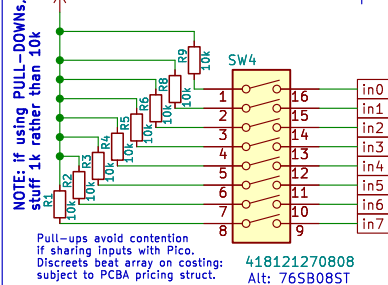
### Reset



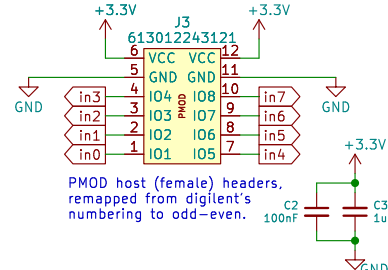
### Active Select



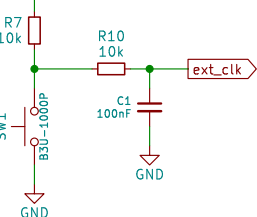
### Input DIP



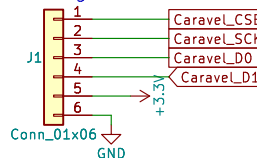
### Input PMOD



### Manual Clock

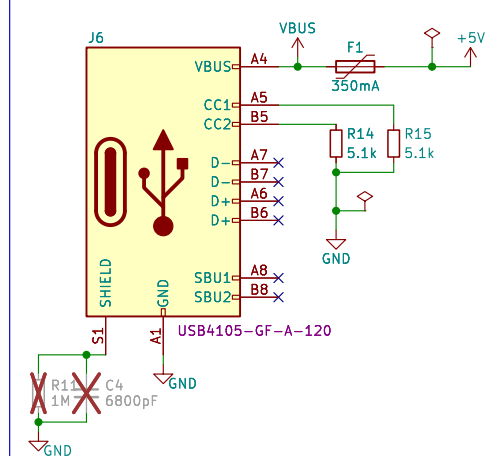


### Memory flashing connector

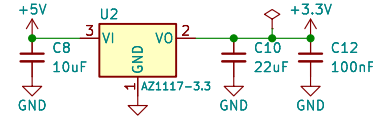


## Power

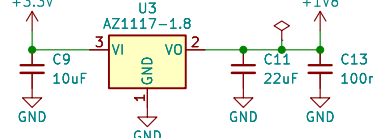
### USB connector



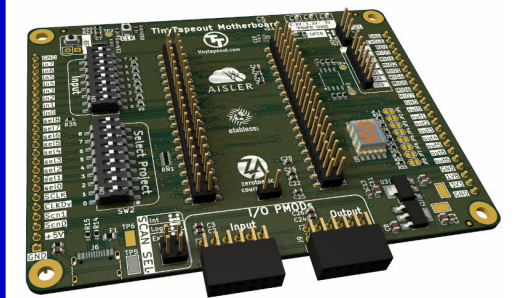
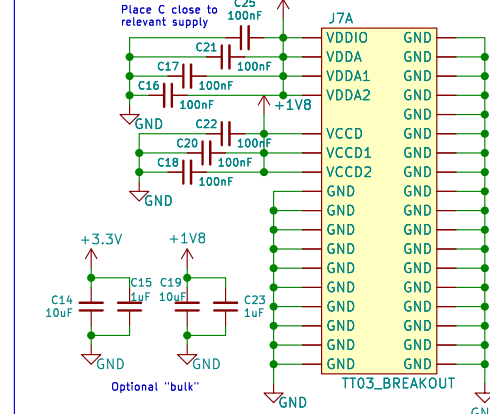
### 3.3V LDO



### 1.8V LDO



## TT Carrier Power

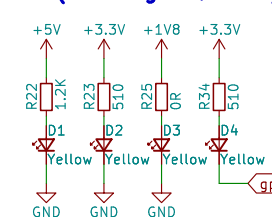


Extensive labelling, jumpers to set scan selection and clock source (on-board oscillator or manual/pico), DIP switches for inputs and selection, 7-segment display (remappable with jumpers) on outputs, full access to 8 in and out via PMODs, all pins broken out in breadboardable headers. Optional Raspberry Pi Pico, pads on underside.

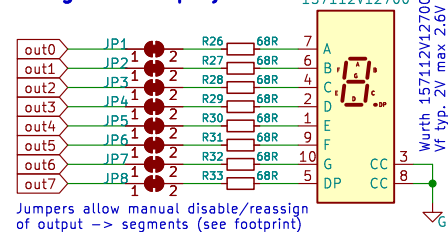
Power via +5V USB, or 5V breakout pin. On-board regulation to 3v3 and 1v8. VDDIO is 3v3, including on PMODs.

## Outputs

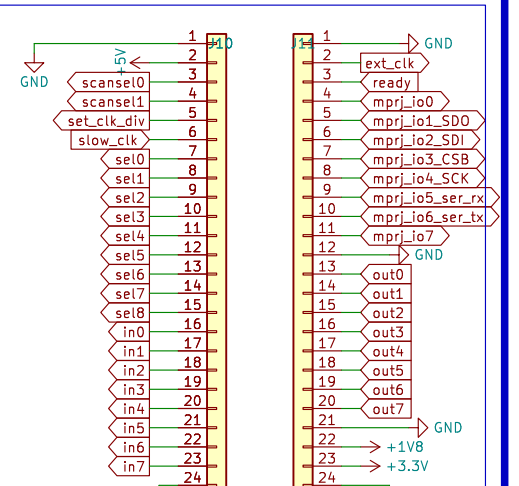
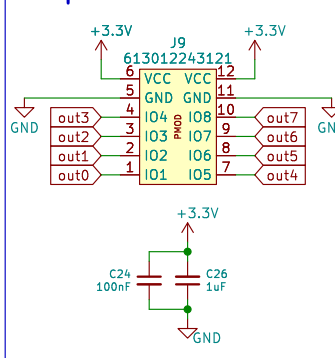
### LEDs (Power good, GPIO)



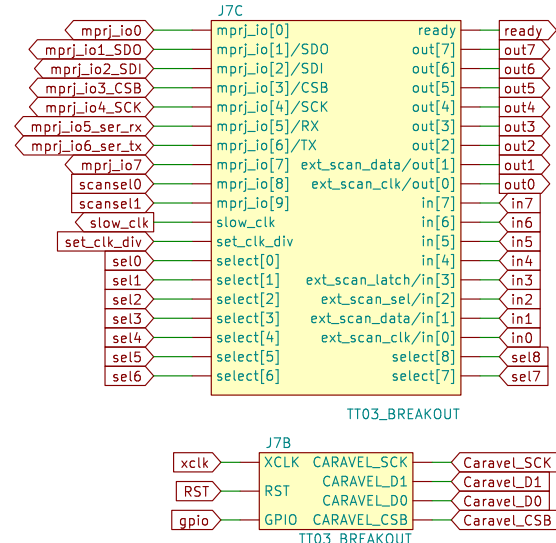
### 7-segment Display



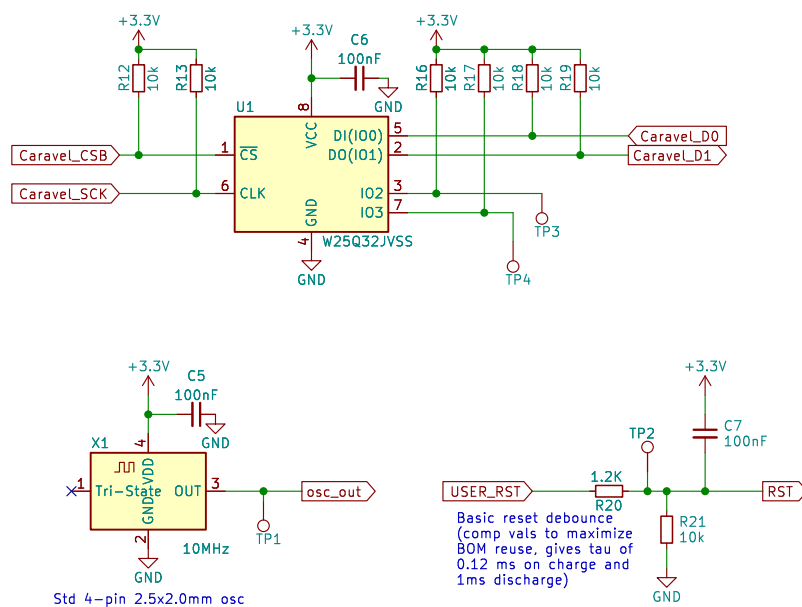
### Output PMOD



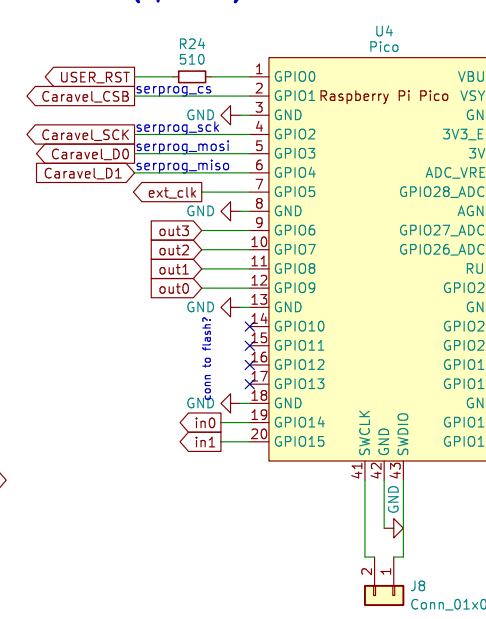
## TT Carrier Logic



## Peripherals

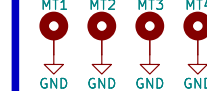


### RPI Pico (optional)

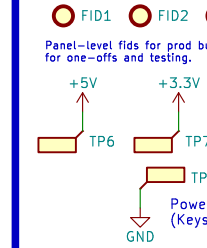


## Misc Support

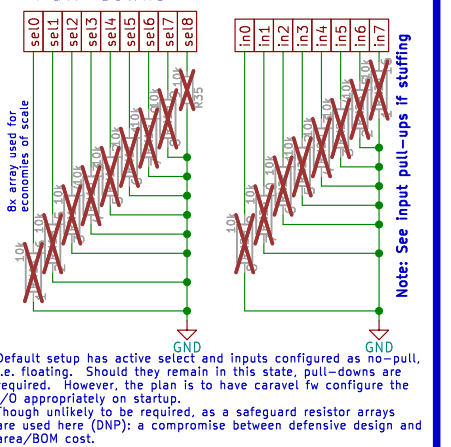
### Mounting holes



### Fiducials



### Pull-downs



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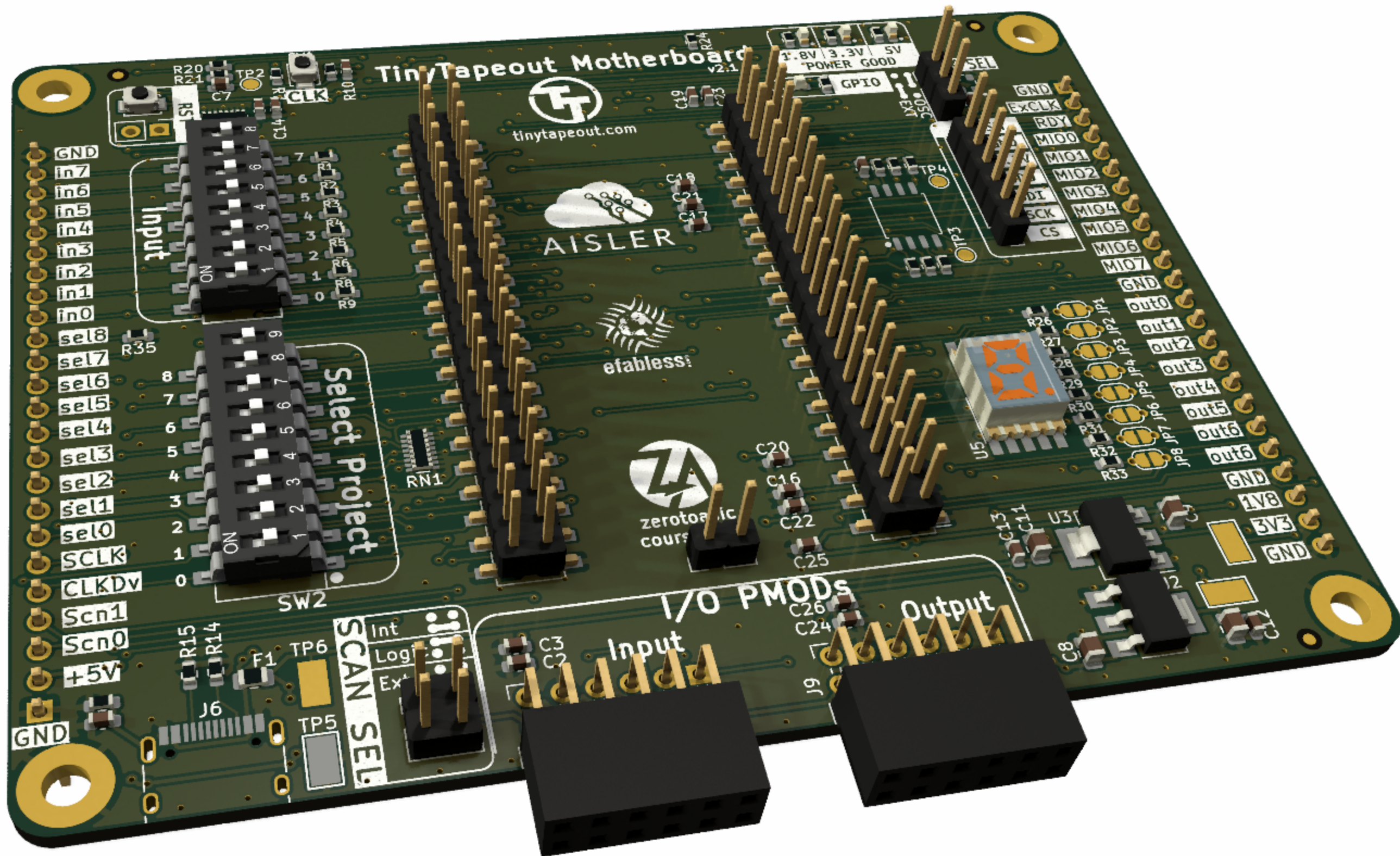
Sheet: /  
File: mpw-mb1.kicad\_sch

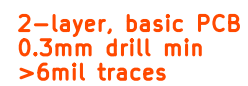
Title: TinyTapeout Motherboard

Size: A3 Date: 2023-07-19  
KiCad E.D.A. kicad 7.0.7-7.0.7-ubuntu22.04.1

Rev: 2.1  
Id: 1/1







Rev: 2.1  
Id: 1/1