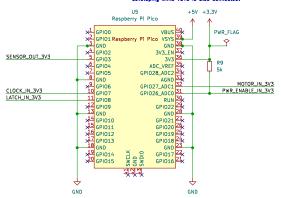
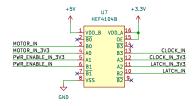




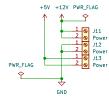
GND

CHECK: Can the PICO be safely powered by USB when developing while VSYS is also connected?

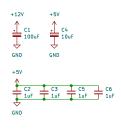


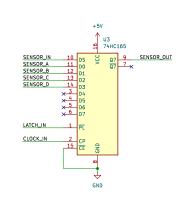


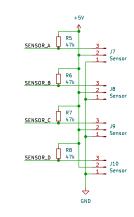








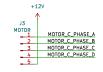


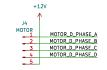




CHECK: Resistor values after LEDs picked





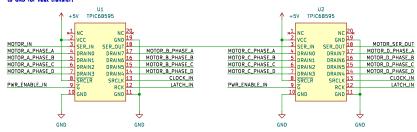


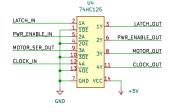


MountingHole O H3 MountingHole

CHECK: Any recommendations on thermal vias (see Google Doc)

CHECK: Should NC pins on TPIC68595 be connected to GND for heat transfer?

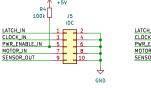


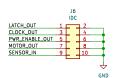


Motor data does not need to be buffered for transmission reasons (it is 1:1 from one board to the next, not bussed), but it is buffered to keep timing in sync with the buffered clock.

Serial chaining relies on narrow propagation delay > hold time margin to work, so we need to be cognizant of anything that may cause data to change sooner after the rising clock edge (reducing effective propagation delay)

Pull up on POWER_ENABLE_IN to disable the motors by default. This allows a shift register loopback test and to set the shift registers before enabling the motors.





MOTOR_OUT 2 SENSOR_IN 1 J14 LOOPBACK

Add a jumper on the last module. This allows a loopback test of the shift registers (TPIC6B595 and 74HC165) CHECK: Will a jumper fit on the IDC header between pins 7 & 9. Then I don't need this 2 pin header.

Sheet: /	
File: moduleDriver.kicad_sch	
Title: Split Flap Module	
Size: A3 Date:	Rev: 0.2
KiCad E.D.A. kicad (6.0.9-0)	ld: 1/1
7	- R