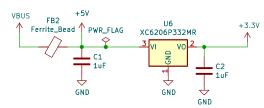
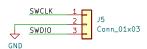
POWER SUPPLY

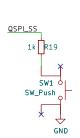


NOTE: in worst case scenario current consumption is up to 74mA (that is if QSPI is erasing while RP2040 is running at maximum frequency performing FFT calculations). The 3.3V regulator will be dissipating 124 mW of power, which is half of its maximum rating.

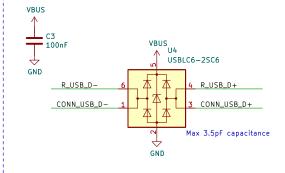
SWD DEBUGGING CONNECTOR



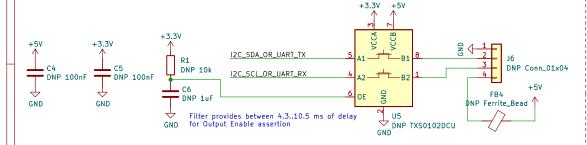
BOOTSEL SWITCH



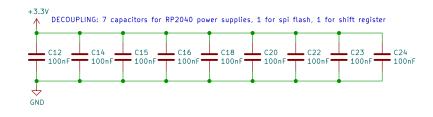




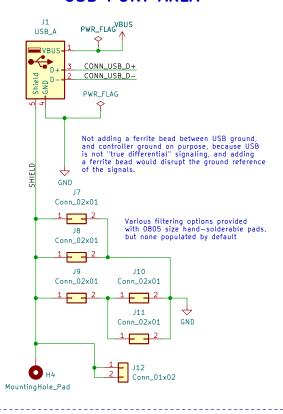
EXPANSION HEADER WITH 5V IO



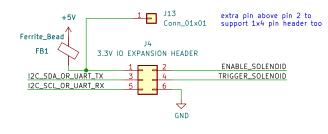
DECOUPLING



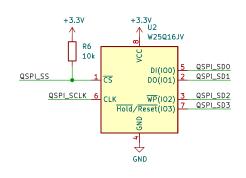
USB PORT AREA



EXPANSION HEADER WITH 3.3V IO



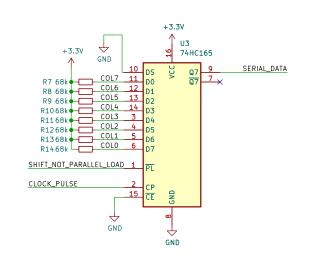
QSPI FLASH - For MCU boot



Mounting Holes

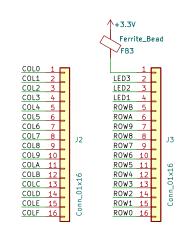


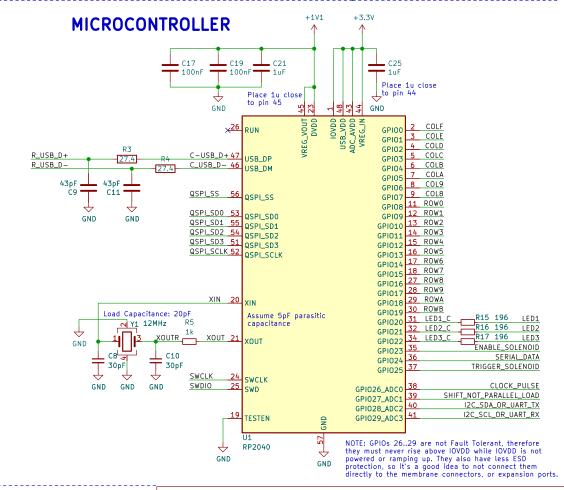
INPUT EXPANDER SHIFT REGISTER



NOTE about QMK firmware: We are going to operate in DIODE_DIRECTION=COL2ROW mode. That means we are pinging rows, and sampling columns.

FLAT FLEX CONNECTORS





Tooling Holes for JLCPCB SMD assembly

H1 SMTAssemblyMountingHole

H2 SMTAssemblyMountingHole

0	H3 SMTAssemblyMountingHole
	SMIASSemblyMountingHote

RP2040 BASED CONTROLLER FOR MINI M

Sheet: /
File: controller.kicad_sch

Title:
Size: A3 Date:
KiCad E.D.A. kicad 6.0.10+dfsg-2+b1