J1 LCD — pins: +5V(1), (2), LCD_CS(3), LCD_RST(4), LCD_DC_RS(5), LCD_SDI(6), LCD_SCK(7), +3.3V(8), (9), (10), LCD_T_CS(11), (12), LCD_T_DO(13), (14)

J2 Encoder — +3.3V(1), ENC1_KEY(2), ENC1_S2(3), ENC1_S1(4), (5)

J3 Encoder — +3.3V(1), ENC2_KEY(2), ENC2_S2(3), ENC2_S1(4), (5)

U1 ESP32-DEVKITC-38
- PWR_FLAG
- 3V3(1) +3.3V, EN(2) LCD_RST, SENSOR_VP(3) ENC1_KEY, SENSOR_VN(4) ENC1_S2, IO34(5) ENC1_S1, IO35(6) ENC2_KEY, IO32(7) ZERO_PROBE, IO33(8) LIMIT_UP, IO25(9) ENC2_S2, IO26(10) ENC2_S1, IO27(11) LIMIT_DOWN, IO14(12) LCD_DC_RS, GND1(13), IO12(14), IO13(15) O_PULSE2, SD2(16), SD3(17), CMD(18), EXT_5V(19) +5V
- GND3(38), IO23(37) LCD_SDI, IO22(36) BUTTON_UP, TXD0(35), RXD0(34), IO21(33) BUTTON_DOWN, GND2(32), IO19(31) LCD_T_DO, IO18(30) LCD_SCK, IO5(29) LCD_T_CS, IO17(28) O_DIRECTION2, IO16(27) O_DIRECTION1, IO4(26) O_PULSE1, IO0(25), IO2(24), IO15(23) LCD_CS, SD1(22), SD0(21), CLK(20)

J4 5V — PWR_FLAG, +5V, C1 100nF

PS1 CMR0505SAP3C — +5V(1) +Vin, (2) −Vin, +Vout(7) +5V ISOLATED, −Vout(5) GND ISOLATED

+3.3V — R6 10K, R7 10K, R8 10K, R9 10K, R10 10K

U3 PC817 — R1 330 — BUTTON_UP
U4 PC817 — R2 330 — BUTTON_DOWN
U5 PC817 — R3 330 — ZERO_PROBE
U6 PC817 — R4 330 — LIMIT_UP
U7 PC817 — R5 330 — LIMIT_DOWN

+5V ISOLATED, GND ISOLATED

J7 Btn Up / R Pedal
J8 Btn Dwn / L Pedal
J9 Zero Prb
J10 Lim Up
J11 Lim Dwn

U2 ULN2003A
- O_PULSE1(1) I1, O_DIRECTION1(2) I2, O_DIRECTION2(3) I3, O_PULSE2(4) I4, I5(5), I6(6), I7(7), GND(8)
- COM(9) +5V, O1(16), O2(15), O3(14), O4(13), O5(12), O6(11), O7(10)

J5 Driver Lift — PUL+(1), PUL−(2), DIR+(3), DIR−(4), +5V
J6 Driver Fence — PUL+(1), PUL−(2), DIR+(3), DIR−(4)

H1 MountingHole_Pad
H2 MountingHole_Pad
H3 MountingHole_Pad
H4 MountingHole_Pad

Jef Collin
Sheet: /
File: router_table_1_0.kicad_sch
Title: Router Table
Size: A4 | Date: 2024-09-08 | Rev: 1.0
KiCad E.D.A. 9.0.6 | Id: 1/1