## Right Half Left Half Microcontroller +5V PWR\_FLAG USB Port PWR\_FLAG PB0 8 PB1 9 SCK PB2 10 MOSI PB3 11 MISO PB4 28 RCol4 PB5 29 RCol3 Reset13 Crystal Port Expander XTAL117 XTAL1 U2 XTAL216 XTAL2 MCP23018-E/SS B6 B7 ↓ USB\_D-√ A8 B8 × Y1 16MHz GPA7 24 X GPA6 23 LCo16 GPA5 22 LCo16 GPA4 21 LCo15 GPA3 20 LCo14 GPA2 18 LCo12 GPA0 17 LCo11 INTA 16 X INTB 15 X LRow5 2 B1\_B12 PC6 31 RCol1 SHELL\_GND SE LRow4\_\_\_3 GND LRow3 4 PDO 18 RSCL +5V LRow1\_ PD1 19RSDA PD2 20 R2 22R R3 22R Reset Switch PD3 21 PD4 25 RCol7 PD4 22 PD5 22 PD6 26RCol6 PD7 27RCol5 R6 10K R1 SW1 10k SW\_Push GND Right TRRS Jack PF0 41 PF1 40 RRow5 PF4 39 RRow4 PF5 38 RRow3 PF6 37 RRow2 PF7 36 RRow1 Left TRRS Jack SJ2-35954A-SMT-TR SJ2-35954A-SMT-TR R7 R8 4.7k 4.7k GND ISP Header $\rightarrow$ GND +5V GND GND Right Half Matrix Left Half Matrix MOSI 4 MOSI SCK 3 SCK RST 5 Reset MX16 MX16 D16 MX21 MX-NoLED D21 01 MX54 01 MX59 01 MX64 02 MX6 MX49 MX-NoLED D49 1N4148 MX39 MX31 MX17 MX22 OL MX27 MX35 COL MX45 COL MX50 LRow2 MX32 MX13 MX18 MX23 MX28 D18 1N4148 D41 1N4148 MX33 NX-NoLED D33 1N4148 OL MX29 MX14 MX19 MX24 MX62 COL MX67 MX42 MX-NeLED D42 1N4148 MX52 MX-NoLED D52 1N4148 MX37 MX57 MX47 D57 MX-NoLED D62 1N4148 COL MX10 COL MX15 COL MX20 COL MX25 COL MX30 COL MX58 COL MX63 COL MX64 COL D25 1N4148 D10 1N4148 D15 1N4148 D20 1N4148 Overlapping Connections brian@mutualaid.info LCol1\_\_\_\_RCol7 License: BSD 2-Clause LCol2\_\_\_RCol6 LCol3\_\_\_RCol5 https://github.com/htpkbs/nikon/blob/main/LICENSE LCol4\_\_\_\_RCol4 LCol5\_\_\_\_RCol3 LCol6\_\_\_RCol2 Sheet: / File: nikon.kicad\_sch LCol7\_\_\_\_RCol1 Title: nikon Size: A3 Date: KiCad E.D.A. kicad (6.0.2-0)