POWER DP-AUX Emulator V0.3C TP3 TestPoint +3V3 PWR_FLAG TPS54202DDC Protect against >5V from shottky reverse leakage $\begin{array}{c} \times \infty \\ \times \times \\ \times \times \end{array}$ D7 Blue SolderJumper_2_Closed R27 22K **RP2040** J8 USB_C_Receptacle VBUS A2 TX1+ 2 1 UART AUX_a_D AUX_a_DE AUX_a_RE GPI04 GPI05 AUX_a_F AUX_b_D AUX_b_DE AUX_b_RE Naming is for one specific orientation, AB gets swapped in the other QSPI_SD0 55 QSPI_SD1 54 QSPI_SD2 51 QSPI_SD3 QSPI_SCLK GPI011 GPI012 W25Q64JVX GND GPI013 GPI014 17 GPI016 GPI017 **DP-AUX** a_N_termination C3 15pF GPI020 GPI021 GPI022 GPI023 GPI024 12V_VBUS AUX_b_D AUX_b_RE AUX_b_R AUX_a_RE AUX_a_R GPI026_ADC0 GPI027_ADC1 Changes from 0.2: different USB-C connectors for assembly GPI028_ADC2 GPI029_ADC3 AUX_a_N TESTEN R18 10K Monitoring: CC pins change to zener to prevent current on startup R12 | 1M | D1 D3 BZT52-C4V3S BZT52-C4V3S a_N_termination Power delivery: Power from VBUS or micro-USB Buck regulator for 3V3 "4.3V" zeners limit to below 3.3V because of the very low current R24 3K3 R15 3K3 V_bias_b H1 M2_SMTS02010CTJ DEBUG HEADER Sheet: / File: DP-Aux_MITM_V0.kicad_sch Title: