Power / +12 V DC Camera Power / Input Non-isolated input U? Teensy3.6 Opto-isolated input GND 57_SCL3 0_RX1_MOSI1_TOUCH 56_SDA3 **(\$GPRMC)** 1_TX1_MISO1_TOUCH 55 Pins 2, 7, 8, 14 (there are (Cam0_Trig 2_PWM 54_CS2 some more) are on PWM Timer 3 (FTM3) so changes 5 3_PWM_CANOTX_SCL2 53_SCK2 to their timer affect both pins 4_PWM_CANORX_SDA2 52_M0SI2 Ground for opto-isolated I/O. 5 N/A Opto GND not connected to camera 5_PWM_TX1_MISO1 (1Hz_clk 51_MIS02 FrequencyTimer2 uses pin 5 ground and can output a very low jitter signal based on the PWM Timer. **(PPS** 6_PWM 50_A24 7_RX3_MIS00_SCL0 49_A23 Cam1_Trig Unfortunately it's 50% duty cycle 10 8_TX3_MISO0_SDA0 48_TX6_SDA0 Cam2_Trig and we need a shorter pulse so 11 9_PWM_RX2_CS0 Cam0_Exp) 47_RX6_SCL0 we're using pin 6 12 10_PWM_TX2_CS0 Cam1_Exp 3.30 13 11_MOSIO Cam2_Exp GND 14 12_MISO0 IMU_SyncOut> 46_SCK2 15 16 24 3.3٧ 45_MIS02 44_MOSI2 17 25 43_CS2 18 26_TX1 42 19 27_RX1 41 20 28 40 21 29_PWM_CANOTX_TOUCH Debug_DD 22 30_PWM_CANORX_TOUCH Debug_DC 23 31_A12_RX4_CS1 Debug_DE 24 32_A13_TX4_SCK1 25 VBAT 26 3V3 27 GND GND GND A25_D+ 28 PROGRAM A26_D-29 RESET 5٧ 33_A14_TX5_CAN1TX_SCL0 31 34_A15_RX5_CAN1TX_SDA0 32 35_A16_PWM 33 36_A17_PWM A11 57 A10 56 (Teensy-PC-USB) 34 37_A18_PWM_SCL1 55 AREF 35 38_A19_PWM_SDA1 54 VUSB 36 39_A20 53 3.6V to 6.0V VIN 37 52 A21_DAC0 AGND 38 A22_DAC1 max 250mA 3.3V 39 GND 23_A9_PWM_TOUCH 50 40 22_A8_PWM_TOUCH 49 13_SCKO_LED 41 21_A7_PWM_CS0_SCK1 48 14_A0_PWM_SCK0 20_A6_PWM_CS0_SCK1 47 42 43 15_A1_CS0_TOUCH 19_A5_SCL0_TOUCH 46 16_A2_SCL0_TOUCH 44 17_A3_SDA0_TOUCH 45 18_A4_SDA0_TOUCH Sheet: / File: Handle.sch Title: Size: A4 Date: Rev: KiCad E.D.A. kicad (5.1.5-0) ld: 1/1