Data Acquisition System ADC1299 Arduino Nano +3V3 VIN DVIN +5V CS_3V3 CS_5V <u>cs</u> MOSI_3V3 MOSI_5V MOSI MOSI**C** MIS0_3V3 MISO_5V MISO C **D**MISO SCLK_5V SCLK HC05_RX 1K SCLK_3V3 SCLK START_5V START SS_RX< START_3V3 START HC05_TX DRDY_5V DRDY SS_TX DRDY_3V3 DRDY RESET_5V RESET RESET_3V3 RESET PWDN_5V PWDN PWDN_3V3 -DAVSS GND GND DGND GND Arduino_Nano.sch ADC1299.sch 3V3 <-> 5V Bidirectional Level Shifter +3٧3 . C63 — C64 CS_3V3 MISO_3V3 1 A1 4 8 B1 20 3 A2 0 0 B2 18 4 A3 > B3 17 CS_5V MISO_5V MOSI_3V3 MOSI_5V B4 16 SCLK_3V3 SCLK_5V HC-05 Bluetooth Module B5 15 START_3V3 START_5V Test Points B6 14 DRDY_5V RESET_5V DRDY_3V3 A6 Mounting Holes & Logos RESET_3V3 VIN_RAW 2 J7 GND 1 VIN_RAW_TP PWDN_3V3 PWDN_5V HC05_TX 2 MH1 MountingHole RX LOG03 HC05_RX 3 CS_3V3 2 J10 MH2 MountingHole VersionLogo GND GND GND 1 CS_TP +57 L0G01 MH3 MountingHole R28 TXS0108EPWR Enable AT Commands UoNLogo START_3V32 __ J12 100k Ensure VCCA <= VCCB GND 1 START_TP MH4 MountingHole LOGO2 HC-05 BT Module SparkerLogo Reverse Polarity and Overcurrent Protection Power Connections DMP2100U 025101.5MAT1L VIN_RAW D3 7.5V 1.5A Rating DC Barrel Jack GND VIN_RAW R19 33k Sheet: / File: DAQ Board.sch Title: GND Size: A4 Date: KiCad E.D.A. kicad (5.0.0) ld: 1/3



