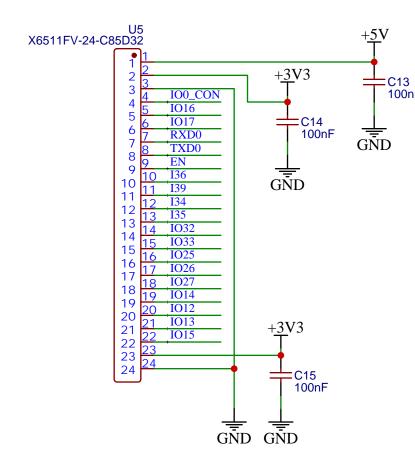
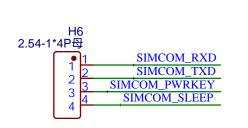
GHE Data Logger V1

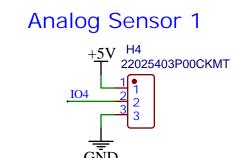
Pin Breakout



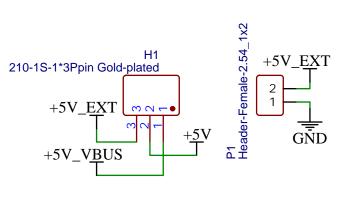
BK-A7670E Pin Breakout

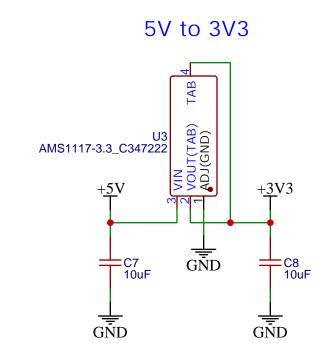


Analog Sensor 2

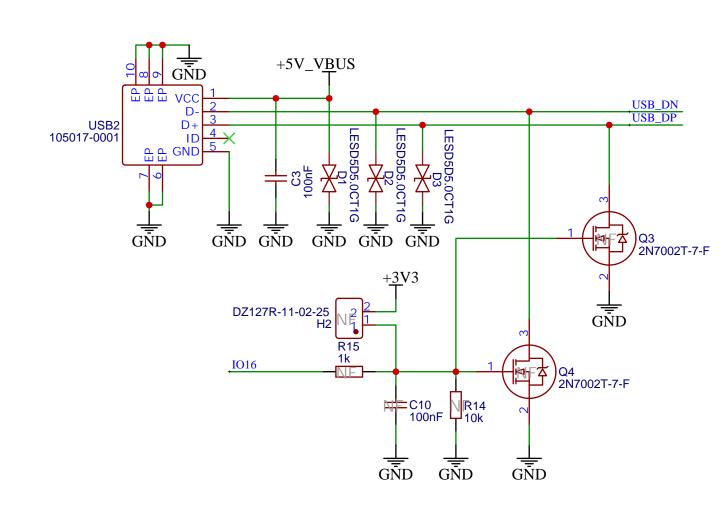


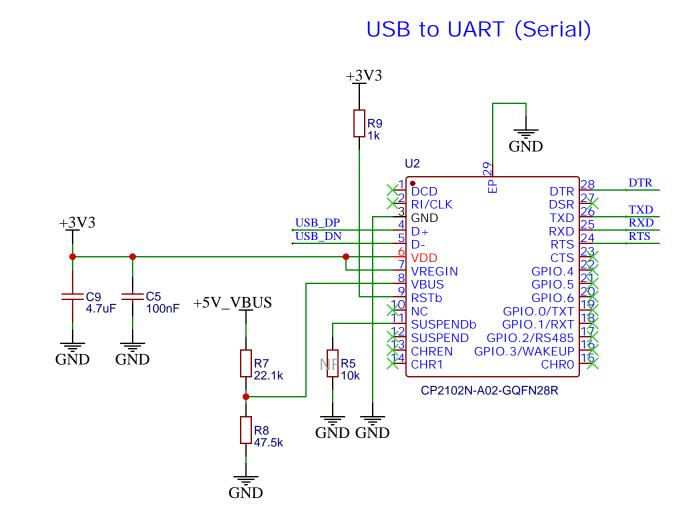
Power Switch, +5V_EXT



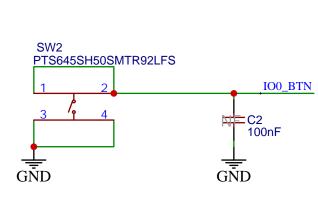


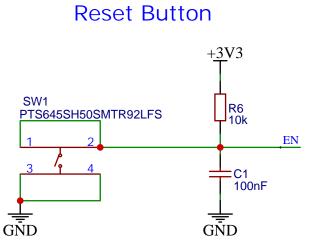
USB Connector



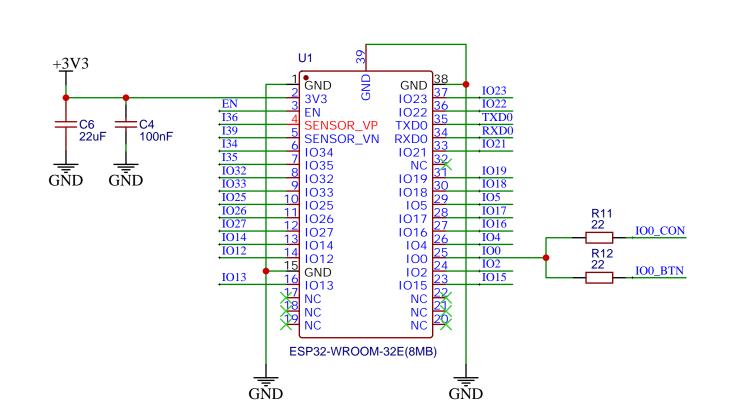


Boot / User Button

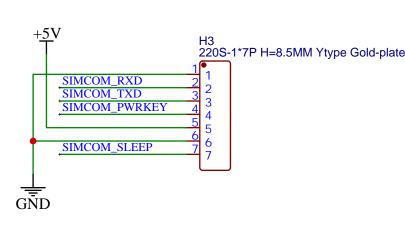


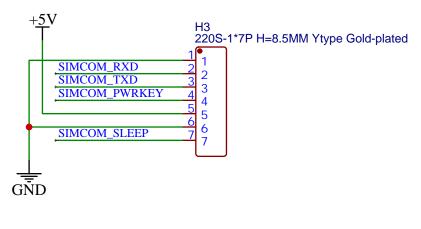


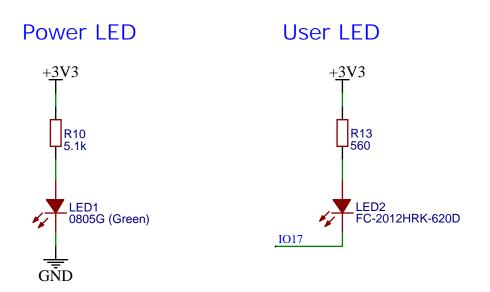
ESP32 Module



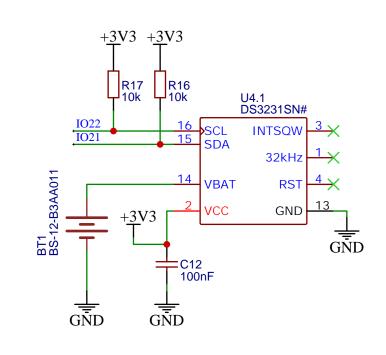
BK-A7670E Connector



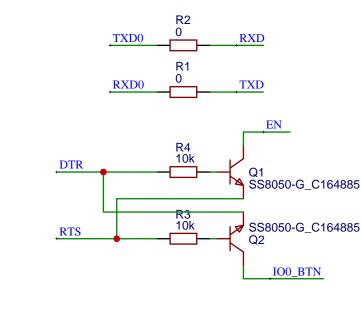




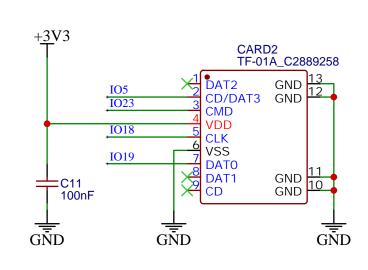
RTC DS3231



UART Signal Handling



Micro-SD Connector



TITLE: GHE D	ata Logger V1	REV: 1.0
		Sheet: 1/
	Date: 2024-06-04 Drawn By: Till Häus	ssner

SD Pull-up Requirements Doc for ESP32: https://docs.espressif.com/projects/esp-idf/en/latest/esp32/api-reference/peripherals/sd_pullup_requirements.html#sd-pull-up-no-pull-ups Great video on SD card interfacing by Steve Rayner: https://www.youtube.com/watch?v=g40tUdjZ-Sk Adafruit Micro SD Breakout Schematics: https://learn.adafruit.com/adafruit-micro-sd-breakout-board-card-tutorial/download

 $Ada fruit\ RTC\ DS 3231\ Breakout\ Schematics:\ https://learn.ada fruit.com/ada fruit-ds 3231-precision-rtc-breakout/downloads$

ESP32 part made with the help of this tutorial by Robert Feranec: https://www.youtube.com/watch?v=S_p0YV-JlfU ESP32-WROVER_IE Datasheet. https://www.espressif.com/sites/default/files/documentation/esp32-wrover-e_esp32-wrover-ie_datasheet_en.pdf ESP32 DevKitC V4 Schematics: https://dl.espressif.com/dl/schematics/esp32_devkitc_v4-sch.pdf

ESP32 DevKitM-1 V1 Schematics: https://dl.espressif.com/dl/schematics/ESP32-S2-DevKitM-1_V1_Schematics.pdf