GHE Data Logger Header Board V1
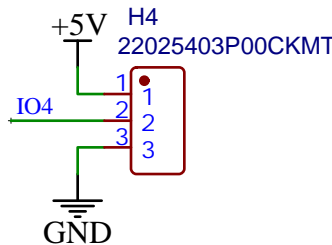

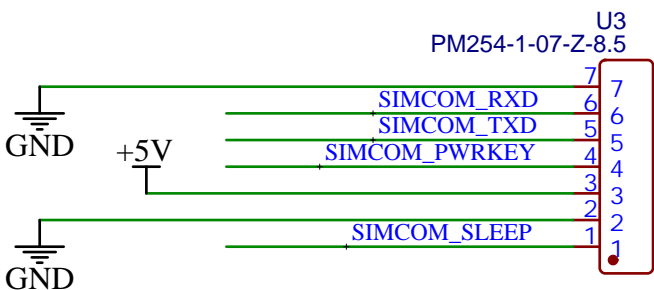**Pin Breakout**
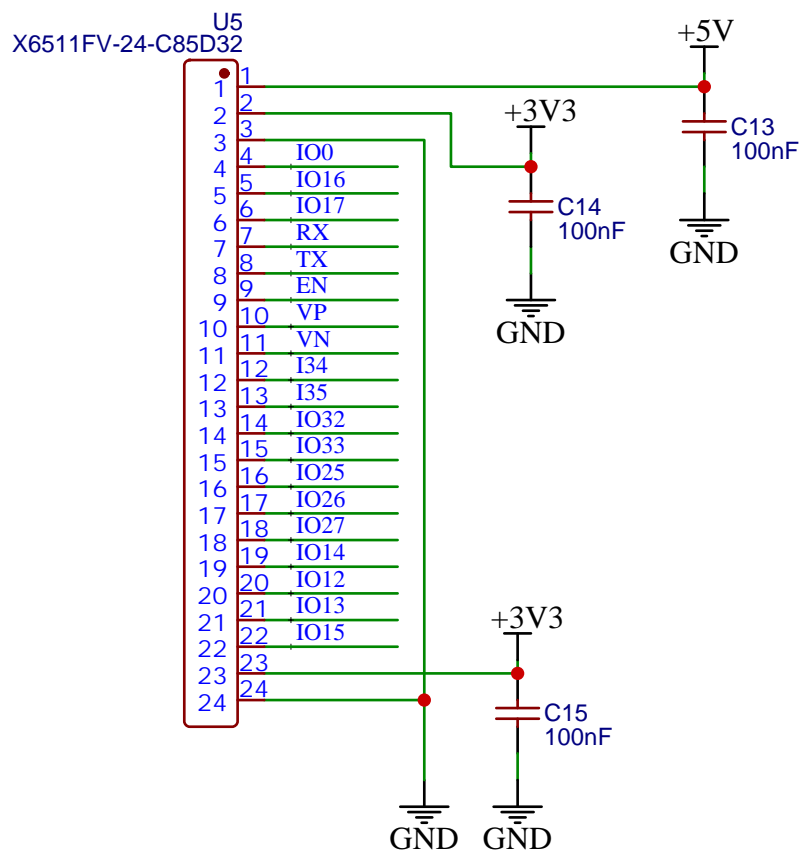
U5
X6511FV-24-C85D32

IO0
IO16
IO17
RX
TX
EN
VP
VN
I34
I35
IO32
IO33
IO25
IO26
IO27
IO14
IO12
IO13
IO15

+3V3
C14 100nF
GND

+5V
C13 100nF
GND

+3V3
C15 100nF
GND   GND

Analog Sensor 2

+5V   H5
22025403P00CKMT
IO2
GND

Analog Sensor 1

+5V   H4
22025403P00CKMT
IO4
GND

AND BK-7670 Connector

U3
PM254-1-07-Z-8.5
SIMCOM_RXD
SIMCOM_TXD
SIMCOM_PWRKEY
SIMCOM_SLEEP
GND   +5V   GND

BK-A7670E Pin Breakout

H3
2.54-1*4P
SIMCOM_RXD
SIMCOM_TXD
SIMCOM_PWRKEY
SIMCOM_SLEEP
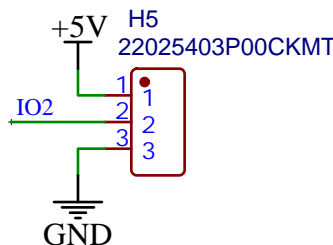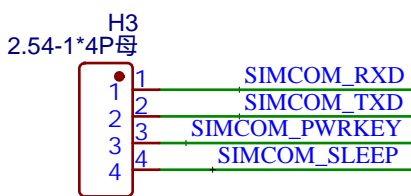
Adafruit RTC DS3231 Precision Breakout Connector

+5V   P3
Header-Female-2.54_1x8
IO22
IO21
GND

ESP32 Connector

+3V3   U1
PM254-1-19-Z-8.5
EN
VP
VN
I34
I35
IO32
IO33
IO25
IO26
IO27
IO14
IO12
IO13

GND

+5V
C1 100nF
GND

U2
PM254-1-19-Z-8.5
IO23
IO22
TX
RX
IO21
GND

IO19
IO18
IO5
GND
IO17
IO16
IO4
IO0
IO2
IO15

External Power Header

P2
Header-Female-2.54_1x2
+5V
GND
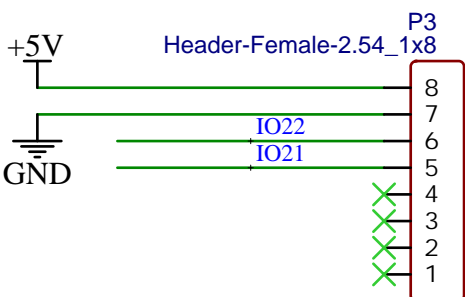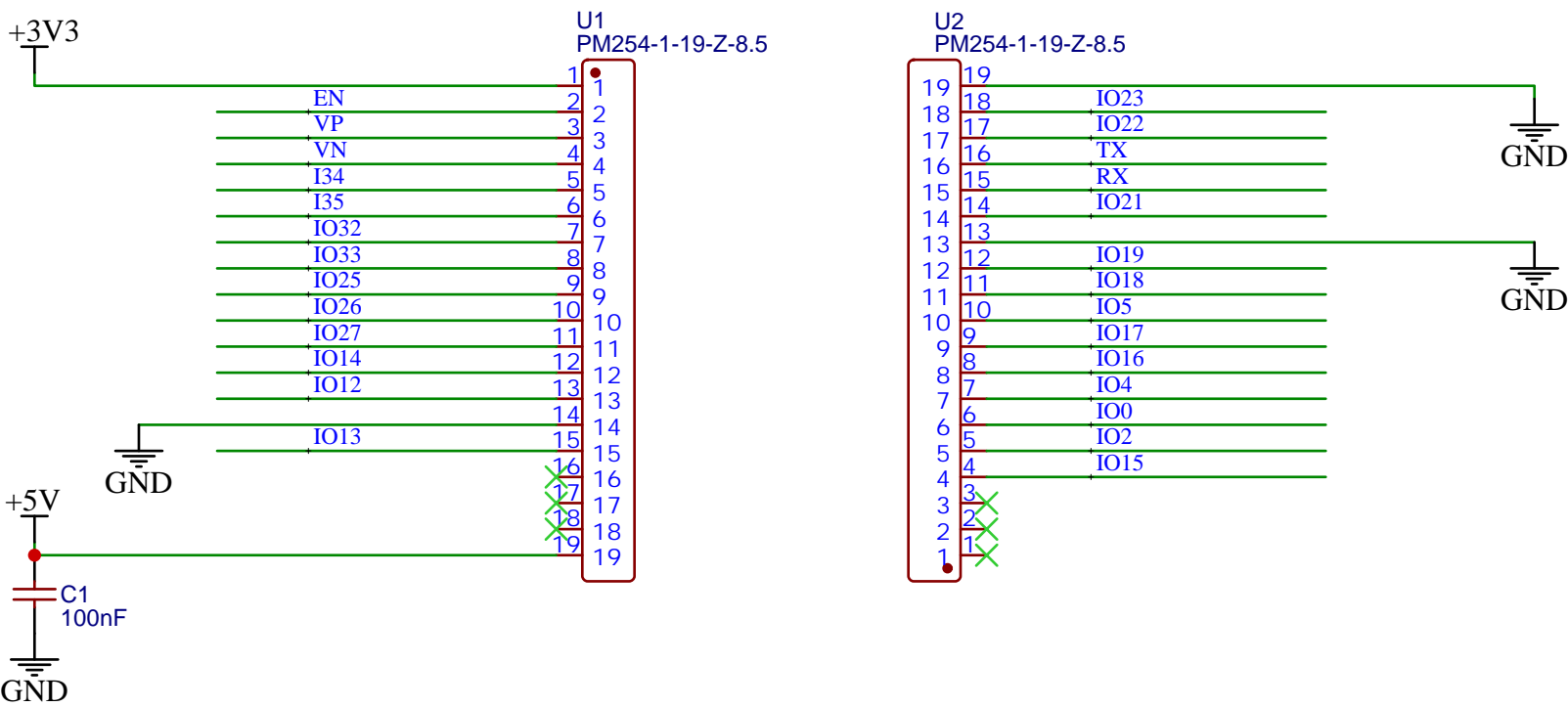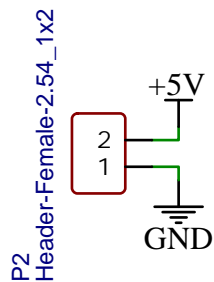
Adafruit MicroSD Breakout Connector

P1
Header-Female-2.54_1x8
IO5
IO23
IO19
IO18
GND   +5V

TITLE: GHE Data Logger Header Board V1   REV: 1.0
Company: ETH Global Health Engineering   Sheet: 1/1
EasyEDA   Date: 2024-06-05   Drawn By: Till Häussner