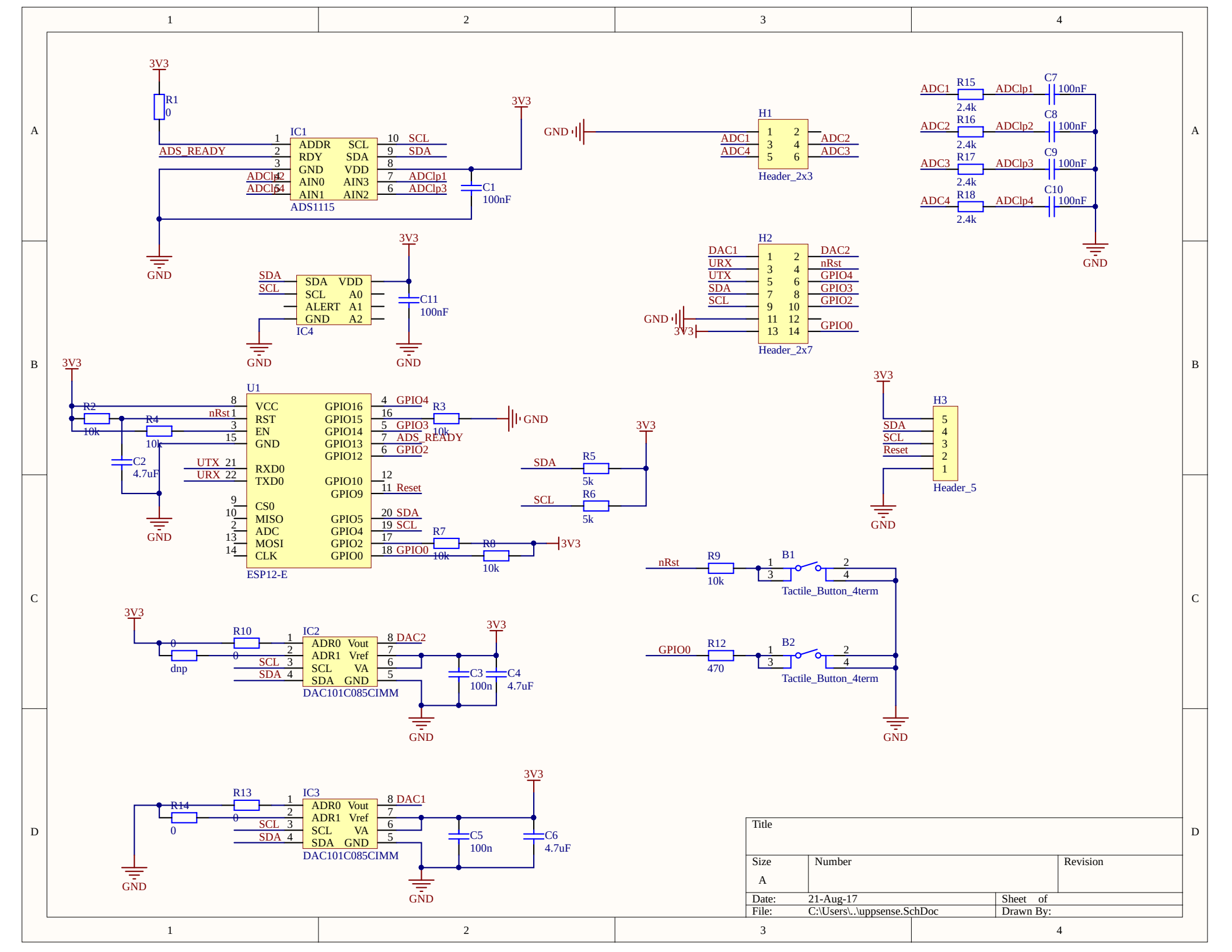
3V3
R1
0
IC1
ADDR
RDY
GND
AIN0
AIN1
SCL
SDA
VDD
AIN3
AIN2
ADS_READY
ADClp2
ADClp4
ADClp1
ADClp3
ADS1115
C1
100nF
GND
H1
ADC1
ADC4
ADC2
ADC3
Header_2x3
R15
R16
R17
R18
2.4k
C7
C8
C9
C10
100nF
ADC1
ADC2
ADC3
ADC4
ADClp1
ADClp2
ADClp3
ADClp4
IC4
SDA
SCL
ALERT
A0
A1
A2
C11
100nF
H2
DAC1
URX
UTX
SDA
SCL
DAC2
nRst
GPIO4
GPIO3
GPIO2
GPIO0
Header_2x7
U1
VCC
RST
EN
GND
RXD0
TXD0
CS0
MISO
ADC
MOSI
CLK
GPIO16
GPIO15
GPIO14
GPIO13
GPIO12
GPIO10
GPIO9
GPIO5
GPIO4
GPIO2
GPIO0
ESP12-E
R2
R3
R4
R5
R6
R7
R8
10k
5k
C2
4.7uF
UTX
URX
nRst
Reset
H3
Header_5
R9
R10
R12
R13
R14
B1
B2
Tactile_Button_4term
nRst
GPIO0
470
dnp
IC2
IC3
ADR0
ADR1
Vout
Vref
VA
DAC101C085CIMM
DAC2
DAC1
C3
C4
C5
C6
100n
4.7uF
Title
Size
A
Number
Revision
Date:
21-Aug-17
Sheet of
File:
C:\Users\..\uppsense.SchDoc
Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
dnp	Schematic symbol of a resistor	0	R0603	Resistor	1
Tactile_Button_4term		B1, B2	TACTILE_MINATUE_SMD_6x6mm	Tactile_Button_4term	2
100nF	Schematic symbol of a capacitor	C1, C7, C8, C9, C10, C11	C0603	Capacitor	6
4.7uF	Schematic symbol of a capacitor	C2, C4, C6	C0603	Capacitor	3
100n	Schematic symbol of a capacitor	C3, C5	C0603	Capacitor	2
Header_2x3	Generic 6pin header symbol	H1	HEADER_MALE_2x3_RIGHT_ANGLE	Header_2x3	1
Header_2x7	Generic 14pin header symbol	H2	HEADER_MALE_2x7_RIGHT_ANGLE	Header_2x7	1
Header_5	Generic 5pin header symbol	H3	Header_MALE_0.05INCH_5	Header_5	1
ADS1115	ADS111x Ultra-Small, Low-Power, I 2 C-Compatible, 860-SPS, 16-Bit ADCs	IC1	10-VSSOP-0.5	ADS1115	1
DAC101C085CIMM	DAC101C08xx 10-Bit Micro Power Digital-to-Analog Converter With an I 2 C-Compatible Interface	IC2, IC3	8-VSSOP	DAC101C085CIMM	2
MCP9808	v±0.5°C Maximum Accuracy Digital Temperature Sensor	IC4	8-MSOP	MCP9808	1
0	Schematic symbol of a resistor	R1, R10, R13, R14	R0603	Resistor	4
10k	Schematic symbol of a resistor	R2, R3, R4, R7, R8, R9	R0603	Resistor	6
5k	Schematic symbol of a resistor	R5, R6	R0603	Resistor	2
470	Schematic symbol of a resistor	R12	R0603	Resistor	1
2.4k	Schematic symbol of a resistor	R15, R16, R17, R18	R0603	Resistor	4
ESP12-E		U1	ESP12-E	ESP12-E	1