ESP32-1 / ESP32-2

3.3V 3.3V

R1 10k
R2 10k
SCL
SDA

V_BATT — 1
EN — 2
VIN — 3
4
5
6
CS_ETHERNET — 7
CS_SD — 8
9
10
SCL — 11
SDA — 12

RESET_MX1 — R3 0
RESET_MX0 — R4 0

ESP32-2
16 RESET
15 3.3V
14
13
12 GND
11
10
9
8
7
6 SCK
5 MOSI
4 MISO
3
2
1

3.3V PWR
1
2
GND

ETH-1 / ETH-2

V_BATT — 1
EN — 2
VIN — 3
4
5
6
CS_ETHERNET — 7
8
9
10
SCL — 11
SDA — 12

ETH-2
16 RESET
15 3.3V
14
13
12 GND
11
10
9
8
7
6 SCK
5 MOSI
4 MISO
3
2
1

SD-1 / SD-2

V_BATT — 1
EN — 2
VIN — 3
4
5
6
CS_SD — 7
8
9
10
SCL — 11
SDA — 12

SD-2
16 RESET
15 3.3V
14
13
12 GND
11
10
9
8
7
6 SCK
5 MOSI
4 MISO
3
2
1

Date: 29/01/2020 21:20
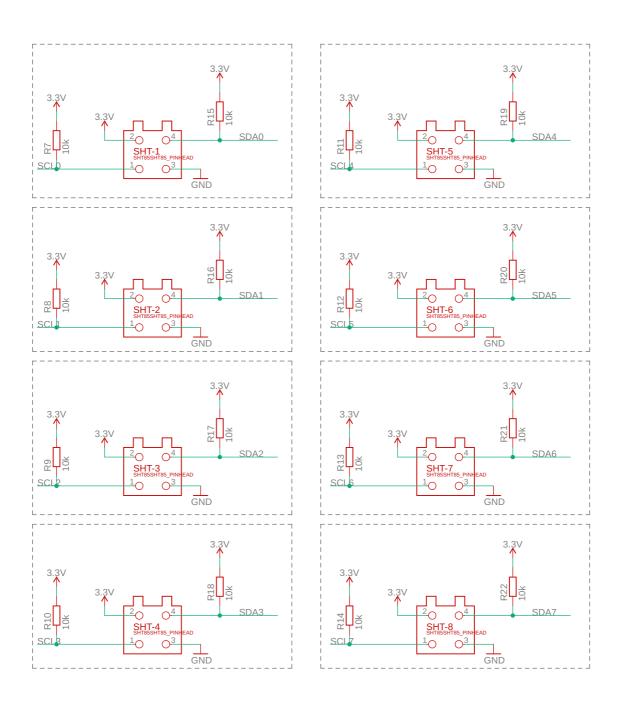
TITLE: ESP32-SHT85

Sheet: 1/4

UNIVERSITÉ SAVOIE MONT BLANC   LOCIE   QUAMEO

U1

TCA9548A
I2C MULTIPLEXER

SDA	23	SDA	SDA0	4	SDA0
SCL	22	SCL	SCL0	5	SCL0
RESET_MX0	3	#RESET	SDA1	6	SDA1
			SCL1	7	SCL1

R5 10k

GND

	21	A2	SDA2	8	SDA2
	2	A1	SCL2	9	SCL2
	1	A0	SDA3	10	SDA3

GND

SDA3 / SCL3 11 SCL3
SDA4 / SCL4 13 SDA4 / 14 SCL4
SDA5 / SCL5 15 SDA5 / 16 SCL5

3.3V

C1
10uF

	24	VCC	SDA6	17	SDA6
			SCL6	18	SCL6
	12	GND	SDA7	19	SDA7
			SCL7	20	SCL7

GND

VCC: 1.65-5.5V
Temp: -45~85°C

TCA9548APWR

U2

TCA9548A
I2C MULTIPLEXER

SDA	23	SDA	SDA0	4	SDA8
SCL	22	SCL	SCL0	5	SCL8
RESET_MX1	3	#RESET	SDA1	6	SDA9
			SCL1	7	SCL9

R6 10k

GND

	21	A2	SDA2	8	SDA10
	2	A1	SCL2	9	SCL10
	1	A0	SDA3	10	SDA11

SDA3 / SCL3 11 SCL11
SDA4 / SCL4 13 SDA12 / 14 SCL12
SDA5 / SCL5 15 SDA13 / 16 SCL13

3.3V

C2
10uF

	24	VCC	SDA6	17	SDA14
			SCL6	18	SCL14
	12	GND	SDA7	19	SDA15
			SCL7	20	SCL15

GND

VCC: 1.65-5.5V
Temp: -45~85°C

TCA9548APWR

SHT-1
SHT85SHT85_PINHEAD

SHT-2
SHT85SHT85_PINHEAD

SHT-3
SHT85SHT85_PINHEAD

SHT-4
SHT85SHT85_PINHEAD

SHT-5
SHT85SHT85_PINHEAD

SHT-6
SHT85SHT85_PINHEAD

SHT-7
SHT85SHT85_PINHEAD

SHT-8
SHT85SHT85_PINHEAD

3.3V
R7 10k
R8 10k
R9 10k
R10 10k
R11 10k
R12 10k
R13 10k
R14 10k
R15 10k
R16 10k
R17 10k
R18 10k
R19 10k
R20 10k
R21 10k
R22 10k

SCL0 SCL1 SCL2 SCL3
SCL4 SCL5 SCL6 SCL7

SDA0 SDA1 SDA2 SDA3
SDA4 SDA5 SDA6 SDA7

GND

Date: 29/01/2020 21:20
TITLE: ESP32-SHT85
Sheet: 3/4

3.3V
3.3V
3.3V
R23 10k
R31 10k
2 4
SHT-9
SHT85SHT85_PINHEAD
SCL8
1 3
SDA8
GND

3.3V
3.3V
3.3V
R27 10k
R35 10k
2 4
SHT-13
SHT85SHT85_PINHEAD
SCL12
1 3
SDA12
GND

3.3V
3.3V
3.3V
R24 10k
R32 10k
2 4
SHT-10
SHT85SHT85_PINHEAD
SCL9
1 3
SDA9
GND

3.3V
3.3V
3.3V
R28 10k
R36 10k
2 4
SHT-14
SHT85SHT85_PINHEAD
SCL13
1 3
SDA13
GND

3.3V
3.3V
3.3V
R25 10k
R33 10k
2 4
SHT-11
SHT85SHT85_PINHEAD
SCL10
1 3
SDA10
GND

3.3V
3.3V
3.3V
R29 10k
R37 10k
2 4
SHT-15
SHT85SHT85_PINHEAD
SCL14
1 3
SDA14
GND

3.3V
3.3V
3.3V
R26 10k
R34 10k
2 4
SHT-12
SHT85SHT85_PINHEAD
SCL11
1 3
SDA11
GND

3.3V
3.3V
3.3V
R30 10k
R38 10k
2 4
SHT-16
SHT85SHT85_PINHEAD
SCL15
1 3
SDA15
GND