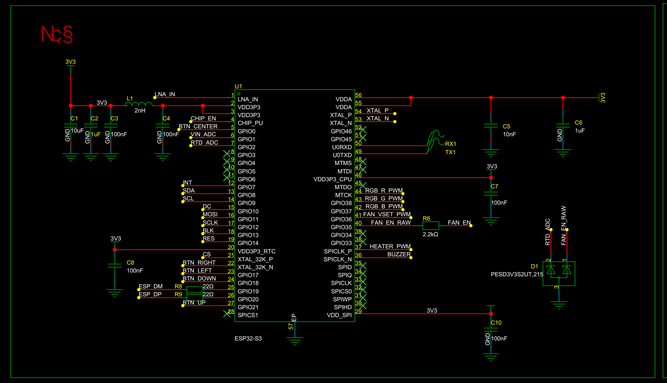

3V3
L1
2nH
NA_IN
C1
10uF
C2
1uF
C3
100nF
C4
100nF
CHIP_EN
BTN_CENTER
BTN_ADC
RTD_ADC
U1
LNA_IN
VDD3P3
VDD3P3
CHIP_PU
GPIO0
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
GPIO7
GPIO8
GPIO9
GPIO10
GPIO11
GPIO12
GPIO13
GPIO14
VDD3P3_RTC
XTAL_32K_P
XTAL_32K_N
GPIO17
GPIO18
GPIO19
GPIO20
GPIO21
SPICS1
VDD_SPI
SPIHD
SPIWP
SPICS0
SPICLK
SPIQ
SPID
SPICLK_N
SPICLK_P
VDD3P3_CPU
MTDI
MTDO
MTCK
GPIO38
GPIO37
GPIO36
GPIO35
GPIO34
GPIO33
GPIO45
GPIO46
U0RXD
U0TXD
XTAL_N
XTAL_P
VDDA
VDDA
GND
ESP32-S3
RST
BTN
DC
MOSI
SCLK
BLK
RES
CS
BTN_RIGHT
BTN_LEFT
BTN_DOWN
BTN_UP
USB_DM
USB_DP
22Ω
22Ω
XTAL_P
XTAL_N
40MHz
C11
12pF
C12
12pF
L2
24nH
ANT1
CrossAir CA-C03
ANA_IN
CHIP_EN
R14
10kΩ
C15
1uF
SW1
GND
BUZZER1
2.7kHz
Q1
NX7002BKWX
D3
DSK34
BUZZER
EEPROM
0b101_000
Addr: 0x50
U4
M24C64-FMC6TG
E0
E1
E2
VSS
VCC
WC
SCL
SDA
C13
100nF
RX1
TX1
C5
10nF
C6
1uF
C7
100nF
C10
100nF
R6
2.2kΩ
FAN_EN
HEATER_PWM
BUZZER
FAN_EN_RAW
RTD_ADC
D1
PESD3V3S2UT,215
R1
56kΩ
VIN_ADC
R2
5.1kΩ
RTD_ADC
R10
2.2kΩ
C9
100nF
R7
2.49kΩ
±0.1%
±25ppm/
PT1000_1
PT1000_2
FPC1
FPC-05F-16PH20
BTN_CENTER
BTN_UP
BTN_LEFT
BTN_DOWN
BTN_RIGHT
BLK
CS
RES
DC
SCLK
MOSI
LED1
LED2
XL-1615RGBC-RF
RGB_R_PWM
RGB_G_PWM
RGB_B_PWM
R3
R4
R5
180Ω
100Ω
100Ω
LED_R
LED_G
LED_B
USB1
USB-C
TPD4E05U06DQAR
D2
D4
SMBJ30A
TVS 28V
F1
S1206-SD-5.0A
VBUS_RAW
ESP_DM
ESP_DP
PWR_CC1
PWR_CC2
U11
FUSB302BMPX
Addr: 0x22
C37
1uF
C39
100nF
C41
100nF
C38
22uF
C14
220pF
C40
220pF
I2C
RN1
4.7kΩ
INT
SCL
SDA
3.3V
P
VBUS
R21
220kΩ
VSYS_OK
4.49V
R22
68kΩ
GND
U6
TPS62933DRLR
R16
10kΩ
R17
31.6kΩ
C17
12pF
C18
100nF
L3
3.3uH
C25
10uF
C26
100nF
C27
22uF
C28
22uF
C29
47nF
1.2MHz
7ms
FAN
bG
DC
U8
TPS62933DRLR
FAN_EN
R24
100kΩ
C31
10uF
C32
100nF
C30
100nF
L4
3.3uH
C33
22uF
C34
22uF
C35
47nF
C16
1uF
R15
10kΩ
R18
79kΩ
R19
10kΩ
R20
47kΩ
C24
12pF
FAN_VSET_PWM
Duty = 0%, MAX
Duty = 100%, MIN
3.4-12V
R18 = 47kΩ
R19 = 13kΩ
R20 = 150kΩ
3.3-5V
R18 = 79kΩ
R19 = 10kΩ
R20 = 124kΩ
FAN_VCC
FAN_VSS
U9
BX-PH2.0-2PWT
D5
DSK34
C42
C43
C20
C21
C22
C23
HEATER_VCC
HEATER_VSS
HEATER_PWM
Q2
BUK9Y14-40B,115
R23
68Ω
R25
100kΩ
R26
22Ω
C36
1nF