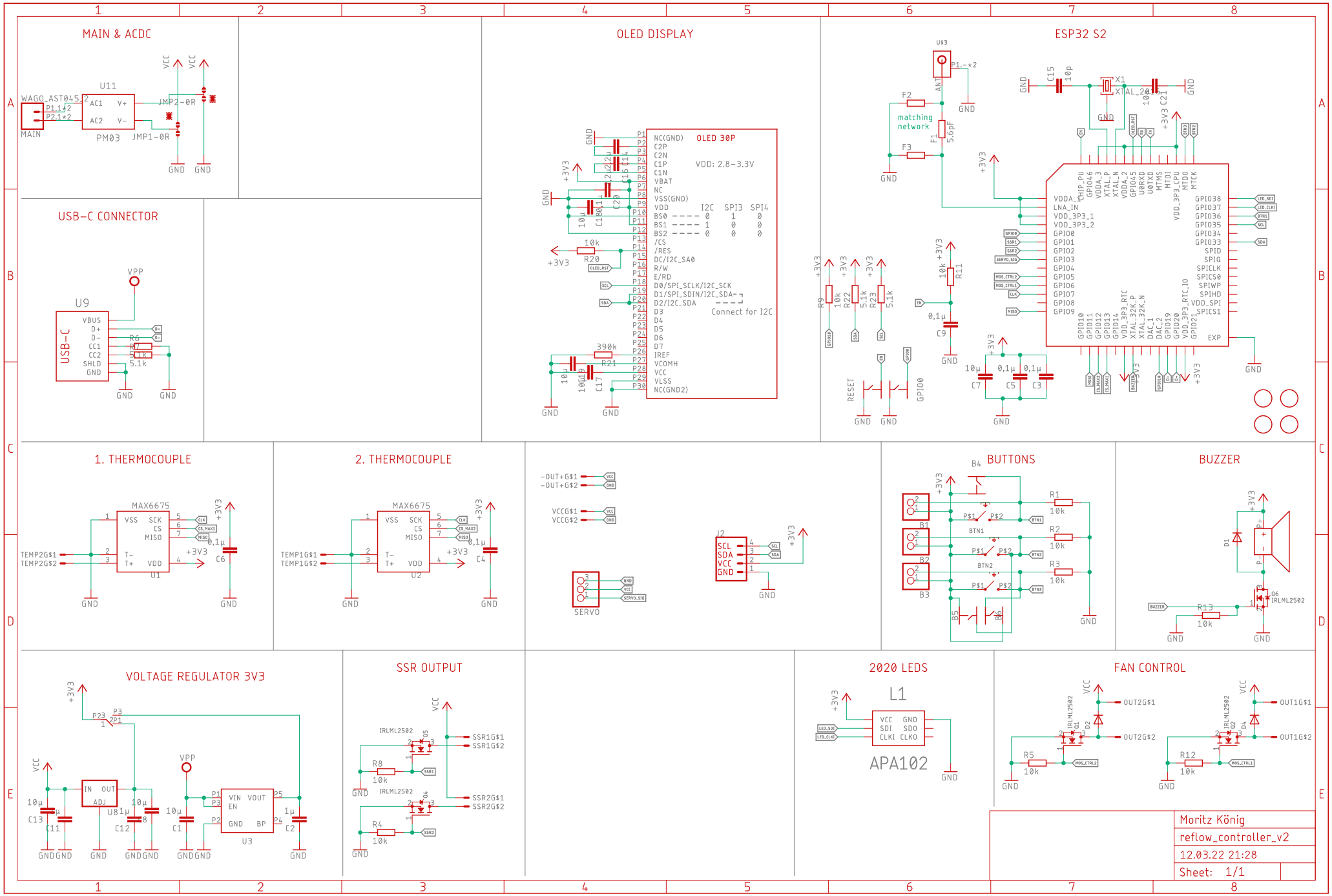
MAIN & ACDC
U11
WAGO_AST045_2
MAIN
PM03
JMP2-0R
JMP1-0R
VCC
GND
USB-C CONNECTOR
U9
USB-C
VPP
R6
R7
5.1k
OLED DISPLAY
OLED 30P
NC(GND)
C2P
C2N
C1P
C1N
VBAT
NC
VSS(GND)
VDD
VDD: 2.8-3.3V
BS0
BS1
BS2
/CS
/RES
DC/I2C_SA0
R/W
E/RD
D0/SPI_SCLK/I2C_SCK
D1/SPI_SDIN/I2C_SDA
D2/I2C_SDA
D3
D4
D5
D6
D7
IREF
VCOMH
VCC
VLSS
NC(GND2)
Connect for I2C
R20
10k
R21
390k
ESP32 S2
U$3
ANT
matching network
F1
5.6pF
F2
F3
X1
XTAL_26
C15
10p
C21
100n
VDDA_1
LNA_IN
VDD_3P3_1
VDD_3P3_2
GPIO0
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
GPIO7
GPIO8
GPIO9
GPIO10
GPIO11
GPIO12
GPIO13
GPIO14
VDD_3P3_RTC
XTAL_32K_P
XTAL_32K_N
DAC_1
DAC_2
GPIO19
GPIO20
VDD_3P3_RTC_IO
GPIO21
GPIO38
GPIO37
GPIO36
GPIO35
GPIO34
GPIO33
SPID
SPIQ
SPICLK
SPICS0
SPIWP
SPIHD
VDD_SPI
SPICS1
EXP
R11
10k
C9
0,1µ
C7
10µ
C5
C3
RESET
GPIO0
1. THERMOCOUPLE
MAX6675
U1
TEMP2G$1
TEMP2G$2
C6
2. THERMOCOUPLE
U2
TEMP1G$1
TEMP1G$2
C4
-OUT+G$1
-OUT+G$2
VCCG$1
VCCG$2
SERVO
J2
SCL
SDA
VCC
GND
BUTTONS
B4
B1
B2
B3
B5
B6
BTN1
BTN2
R1
R2
R3
BUZZER
D1
R13
Q6
IRLML2502
VOLTAGE REGULATOR 3V3
U8
IN
OUT
ADJ
U3
VIN
VOUT
EN
BP
C13
C11
C12
C1
C2
SSR OUTPUT
IRLML2502
Q5
Q4
R8
R4
SSR1G$1
SSR1G$2
SSR2G$1
SSR2G$2
2020 LEDS
L1
APA102
LED_SDI
LED_CLKI
SDI
SDO
CLKI
CLKO
FAN CONTROL
OUT2G$1
OUT2G$2
OUT1G$1
OUT1G$2
R5
R12
Moritz König
reflow_controller_v2
12.03.22 21:28
Sheet: 1/1