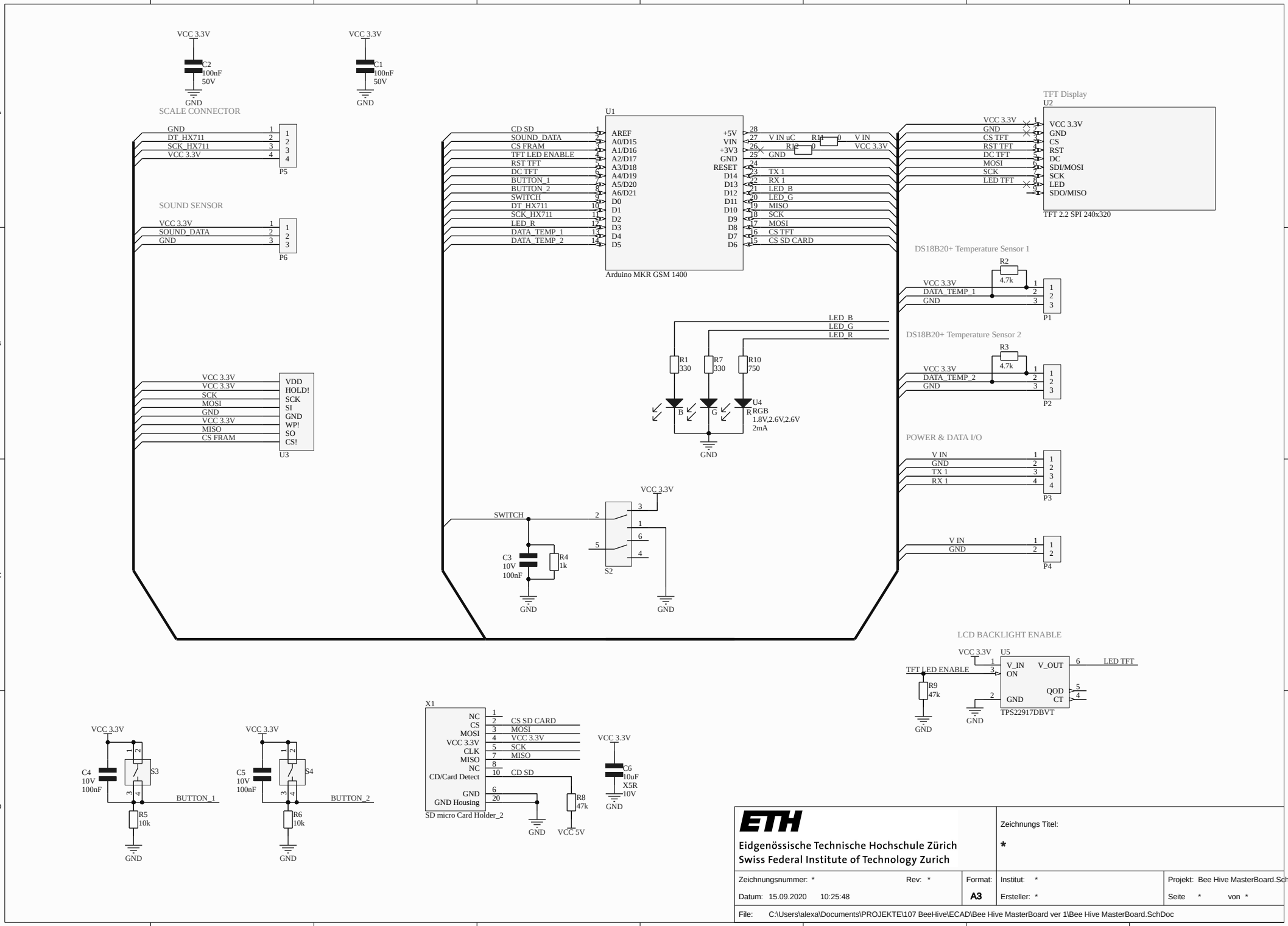
VCC 3.3V
C2
100nF
50V
GND
VCC 3.3V
C1
100nF
50V
GND
SCALE CONNECTOR
GND
DT_HX711
SCK_HX711
VCC 3.3V
P5
SOUND SENSOR
VCC 3.3V
SOUND_DATA
GND
P6
VCC 3.3V
VCC 3.3V
SCK
MOSI
GND
VCC 3.3V
MISO
CS FRAM
VDD
HOLD!
SCK
SI
GND
WP!
SO
CS!
U3
U1
CD SD
SOUND_DATA
CS FRAM
TFT LED ENABLE
RST TFT
DC TFT
BUTTON_1
BUTTON_2
SWITCH
DT_HX711
SCK_HX711
LED_R
DATA_TEMP_1
DATA_TEMP_2
AREF
A0/D15
A1/D16
A2/D17
A3/D18
A4/D19
A5/D20
A6/D21
D0
D1
D2
D3
D4
D5
+5V
VIN
+3V3
GND
RESET
D14
D13
D12
D11
D10
D9
D8
D7
D6
V IN uC
R14
0
V IN
R12
0
VCC 3.3V
GND
TX 1
RX 1
LED_B
LED_G
MISO
SCK
MOSI
CS TFT
CS SD CARD
Arduino MKR GSM 1400
TFT Display
U2
VCC 3.3V
GND
CS TFT
RST TFT
DC TFT
MOSI
SCK
LED TFT
VCC 3.3V
GND
CS
RST
DC
SDI/MOSI
SCK
LED
SDO/MISO
TFT 2.2 SPI 240x320
DS18B20+ Temperature Sensor 1
R2
4.7k
VCC 3.3V
DATA_TEMP_1
GND
P1
LED_B
LED_G
LED_R
R1
330
R7
330
R10
750
B
G
R
U4
RGB
1.8V,2.6V,2.6V
2mA
GND
DS18B20+ Temperature Sensor 2
R3
4.7k
VCC 3.3V
DATA_TEMP_2
GND
P2
POWER & DATA I/O
V IN
GND
TX 1
RX 1
P3
V IN
GND
P4
VCC 3.3V
SWITCH
C3
10V
100nF
R4
1k
S2
GND
GND
LCD BACKLIGHT ENABLE
VCC 3.3V
U5
TFT LED ENABLE
V_IN
ON
V_OUT
LED TFT
R9
47k
GND
QOD
CT
TPS22917DBVT
GND
GND
VCC 3.3V
C4
10V
100nF
S3
BUTTON_1
R5
10k
GND
VCC 3.3V
C5
10V
100nF
S4
BUTTON_2
R6
10k
GND
X1
NC
CS
MOSI
VCC 3.3V
CLK
MISO
NC
CD/Card Detect
GND
GND Housing
CS SD CARD
MOSI
VCC 3.3V
SCK
MISO
CD SD
SD micro Card Holder_2
GND
R8
47k
VCC 5V
VCC 3.3V
C6
10uF
X5R
10V
GND
ETH
Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich
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