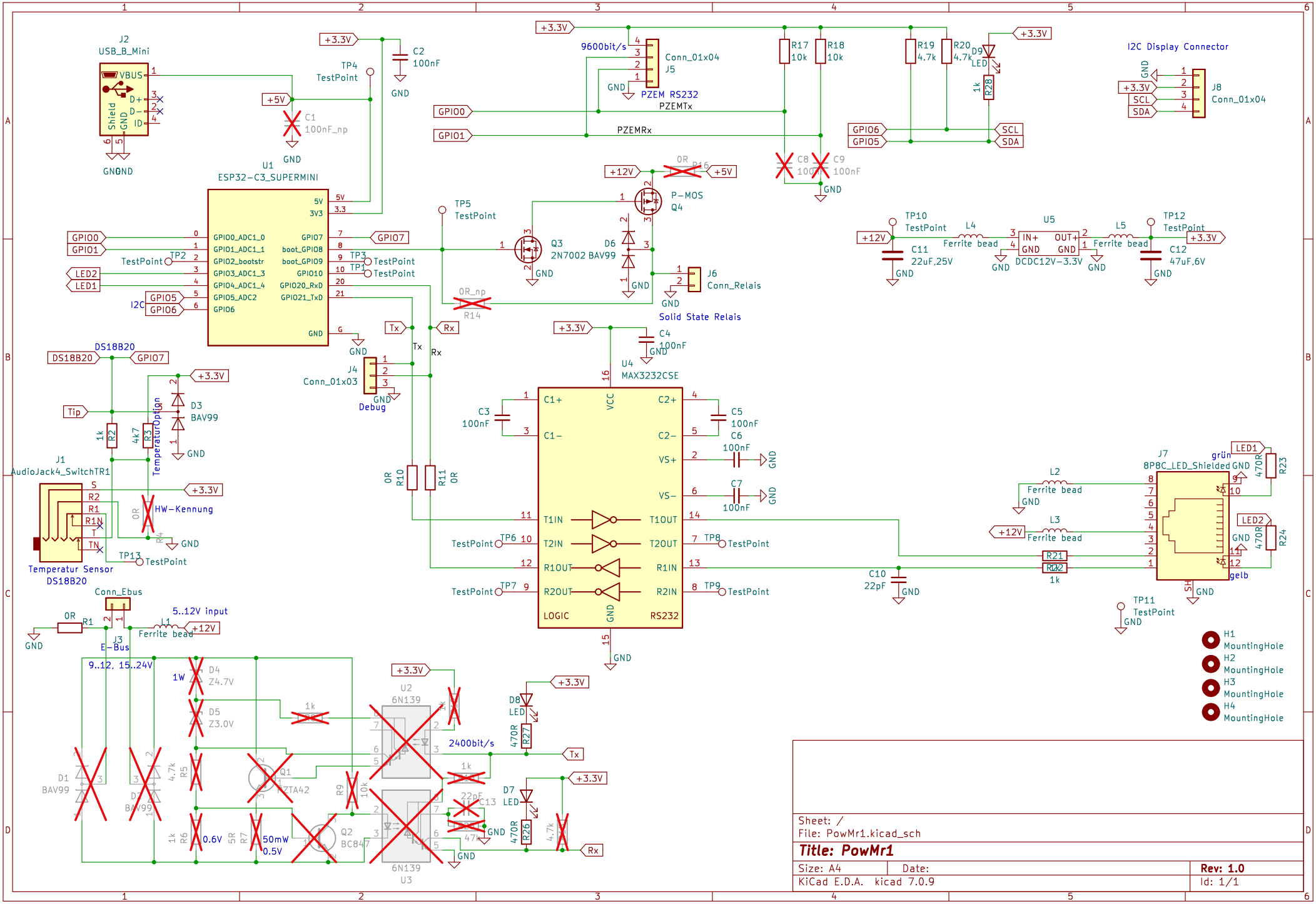

J2
USB_B_Mini
VBUS
Shield
GND
D+
D-
ID
GNDND
+3.3V
TP4
TestPoint
C2
100nF
GND
+5V
C1
100nF_np
U1
ESP32-C3_SUPERMINI
5V
3V3
GPIO0_ADC1_0
GPIO1_ADC1_1
GPIO2_bootstr
GPIO3_ADC1_3
GPIO4_ADC1_4
GPIO5_ADC2
GPIO6
GPIO7
boot_GPIO8
boot_GPIO9
GPIO10
GPIO20_RxD
GPIO21_TxD
GPIO0
GPIO1
LED2
LED1
I2C
GPIO5
GPIO6
GPIO7
TP2
TestPoint
TP3
TP1
TP5
TP10
TP12
Tx
Rx
J4
Conn_01x03
Debug
9600bit/s
Conn_01x04
J5
PZEM RS232
PZEMTx
PZEMRx
R17
10k
R18
10k
R19
4.7k
R20
4.7k
D9
LED
R28
1k
SCL
SDA
I2C Display Connector
J8
Conn_01x04
C8
100nF
C9
100nF
+12V
R16
0R
P-MOS
Q4
Q3
2N7002 BAV99
D6
J6
Conn_Relais
Solid State Relais
R14
0R_np
C11
22uF,25V
L4
Ferrite bead
U5
DCDC12V-3.3V
IN+
OUT+
GND
L5
Ferrite bead
C12
47uF,6V
DS18B20
Tip
R2
1k
R3
4k7
TemperaturOption
D3
BAV99
J1
AudioJack4_SwitchTR1
S
R2
R1
R1N
T
TN
HW-Kennung
R4
0R
Temperatur Sensor
DS18B20
TP13
C4
100nF
U4
MAX3232CSE
C1+
C1-
C2+
C2-
VS+
VS-
VCC
T1IN
T2IN
R1OUT
R2OUT
T1OUT
T2OUT
R1IN
R2IN
LOGIC
RS232
C3
100nF
C5
100nF
C6
100nF
C7
100nF
R10
0R
R11
0R
TP6
TP7
TP8
TP9
C10
22pF
L2
Ferrite bead
L3
Ferrite bead
R21
R22
1k
J7
8P8C_LED_Shielded
LED1
grün
LED2
gelb
470R
R23
R24
TP11
TestPoint
Conn_Ebus
J3
E-Bus
R1
0R
L1
Ferrite bead
5..12V input
9..12, 15..24V
D4
Z4.7V
1W
D5
Z3.0V
D1
BAV99
D2
BAV99
R5
4.7k
R6
1k
0.6V
R7
5R
50mW
0.5V
Q1
BZTA42
Q2
BC847
R9
10k
U2
6N139
U3
6N139
2400bit/s
D8
LED
R27
470R
D7
LED
R26
470R
C13
22pF
47k
4.7k
H1
MountingHole
H2
MountingHole
H3
MountingHole
H4
MountingHole
Sheet: /
File: PowMr1.kicad_sch
Title: PowMr1
Size: A4
Date:
Rev: 1.0
KiCad E.D.A. kicad 7.0.9
Id: 1/1