Connectors_and_indicators

File: connectors_and_indicators_sch.kicad_sch

MCU

File: MCU.kicad_sch

Measurement_circuits

File: Measurement_circuits.kicad_sch

Ethernet

File: Ethernet.kicad_sch

Voltage_references_circuits

File: voltage_references_circuits.kicad_sch

Protection_circuits

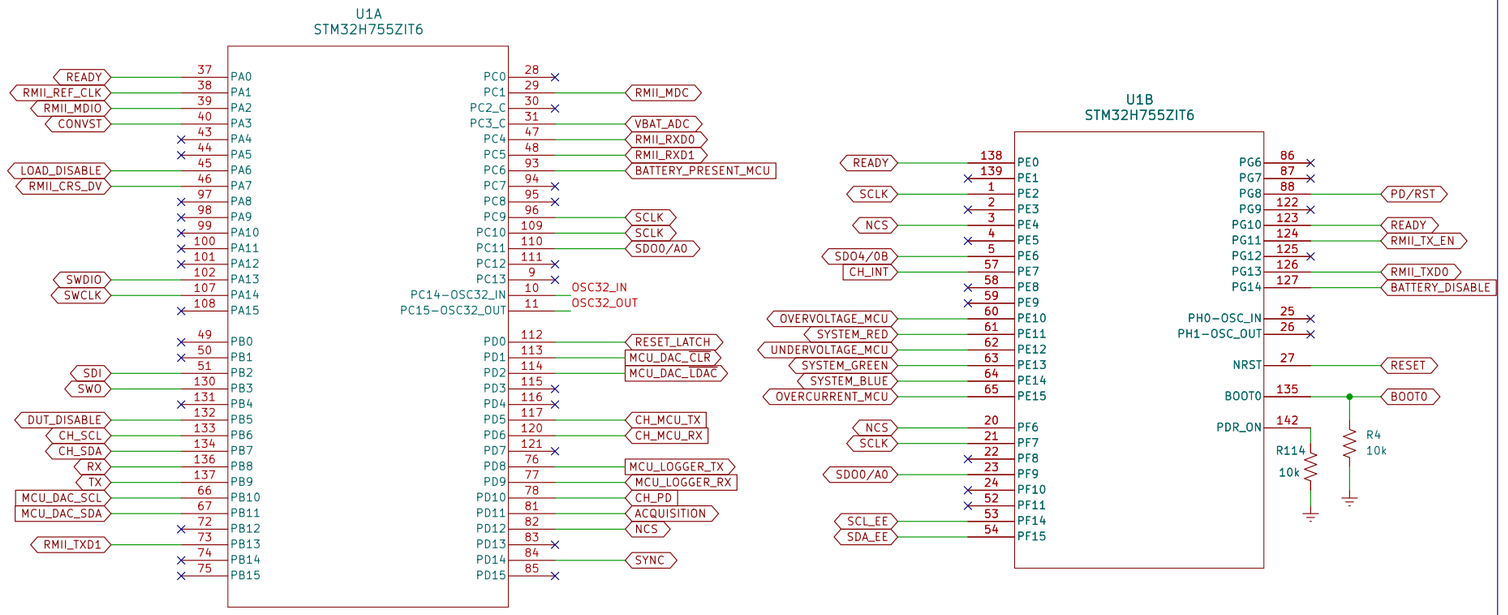
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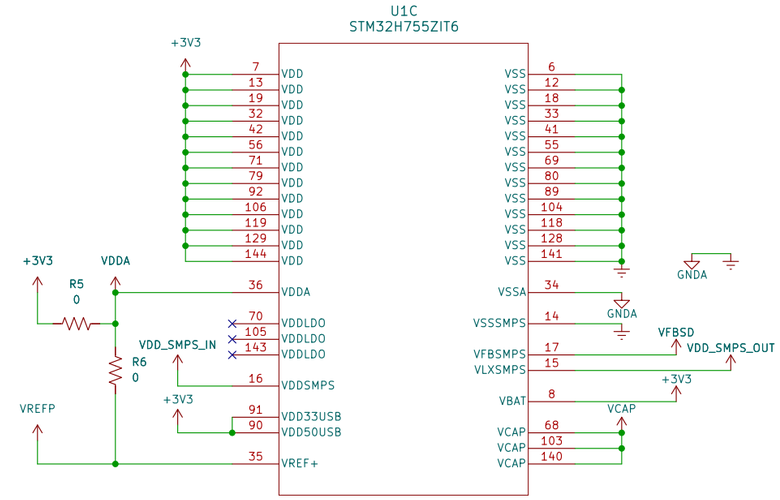
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KiCad E.D.A. 10.0.0		Id: 1/7

MCU IO CLK and RST



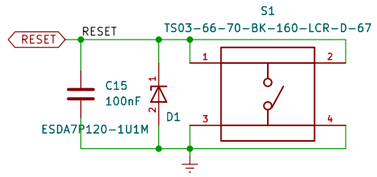
MCU PWR SUPPLIES



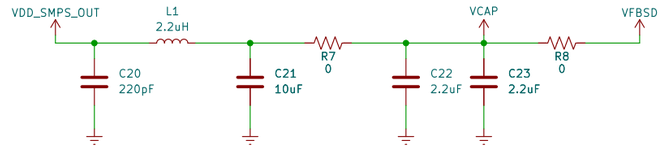
EXTERNAL LSE CLK



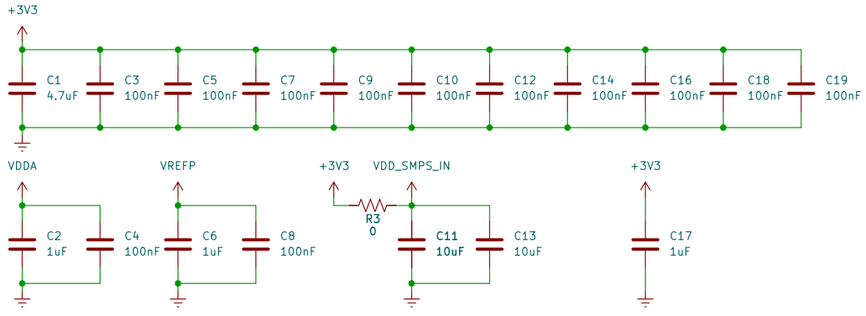
RESET FUNCTION



SMPS MCU Supply Config



MCU DECAPS



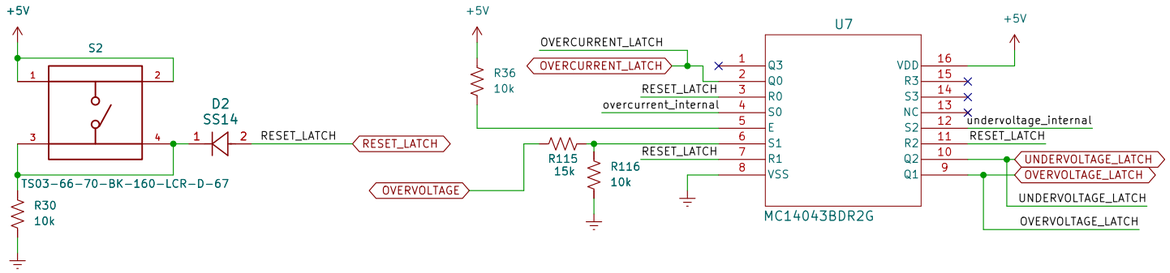
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KiCad E.D.A. 10.0.0		Id: 2/7

ETHERNET

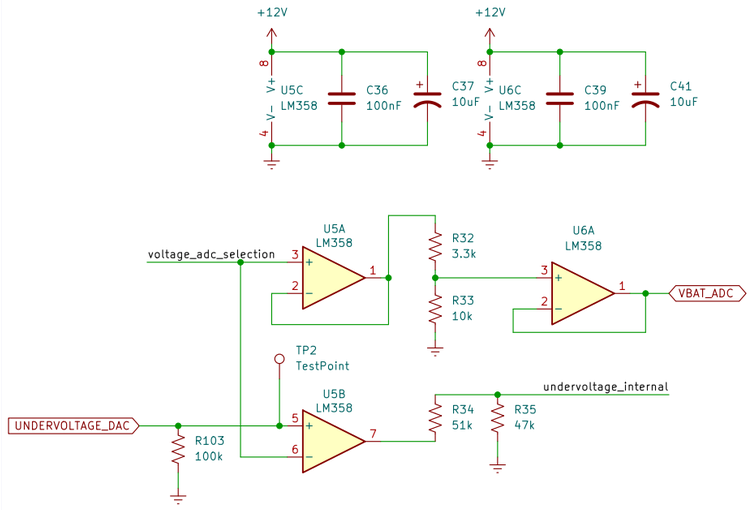
+3V3
L2
600R@100MHz
C26 100nF
C27 100nF
C28 10uF
R15 10k
R16 10k
R17 10k
R18 1.5k
R19 10k
R20 49.9
R22 49.9
R23 49.9
R24 49.9
U3
USBLC6-4SC6
I/O1
GND
I/O2
I/O4
VBUS
I/O3
C34 100nF
U2
LAN8742A-CZ-TR
RMII_TX_EN
RMII_TXD0
RMII_TXD1
RMII_RXD0
RMII_RXD1
RMII_CRS_DV
RMII_MDC
RMII_MDIO
RESET
RMII_REF_CLK
R9 33
R10 33
R11 33
R12 0
R13 33
TXEN
TXD0
TXD1
RXD0/*MODE0
RXD1/*MODE1
RXER/*PHYAD0
CRS_DV/*MODE2
MDC
MDIO
NRST
NINT/REFCLKO
XTAL2
XTAL1/CLKIN
TXP
TXN
RXP
RXN
LED1/NINT/NPME/*REGOFF
LED2/NINT/NPME/*NINTSEL
RBIAS
VDD1A
VDD2A
VDDIO
VDDCR
EPAD
R21 12k1
T1
WE-LAN_749013011A
TD_P
TD_N
RD_P
RD_N
TD+
CTD
TD-
RD+
CRD
RD-
TX+
CTX
TX-
RX+
CRX
RX-
TX_P
TX_N
RX_P
RX_N
R26 75
R28 75
J1
RJE491881411
TX+
TX-
RX+
NC
NC
RX-
NC
NC
SH1
SH2
LED(Y)_A
LED(Y)_K
LED(G)_A
LED(G)_K
+3V3
C29 470pF
C30 1uF
C31 100nF
C32 100nF
C33 100nF
C35 1nF
SHGND
R25 270
R27 10k
R29 270
X2
STDCZS1-25M
R14 10k
C24 5.6pF
C25 5.6pF

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Size: A3	Date:	**Rev:**
KiCad E.D.A. 10.0.0		Id: 3/7

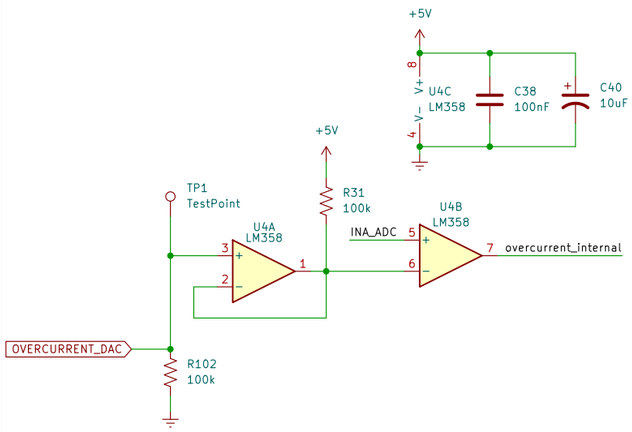
LATCH CIRCUIT AND RESET BUTTON



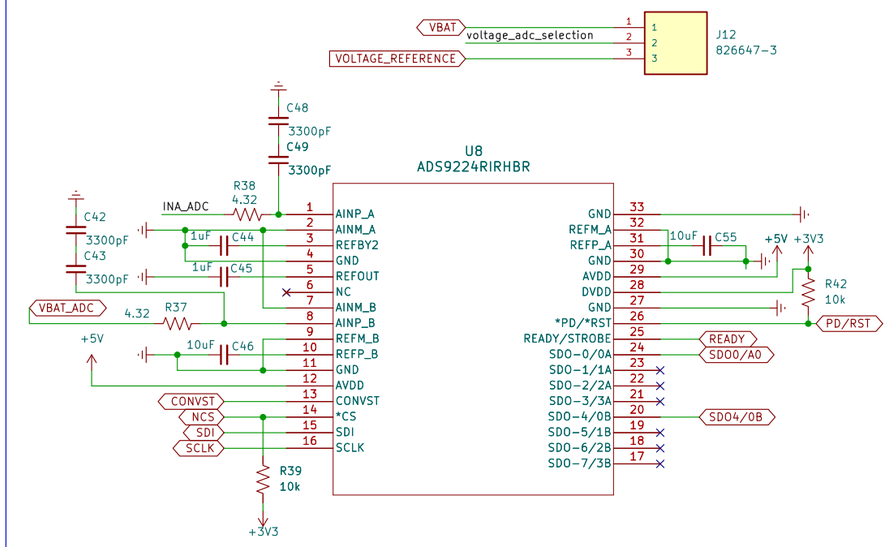
UNDERVOLTAGE AND VBAT



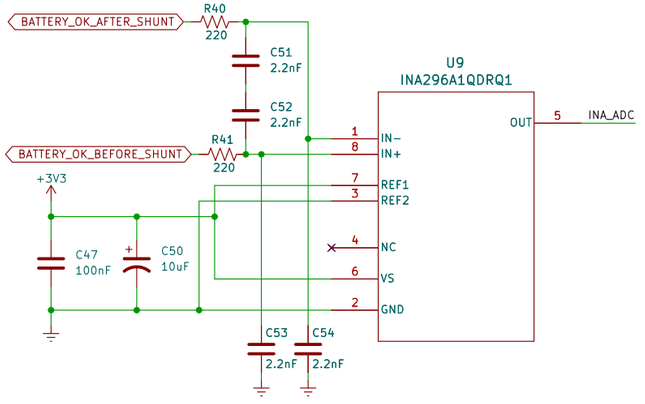
OVERCURRENT DETECTION



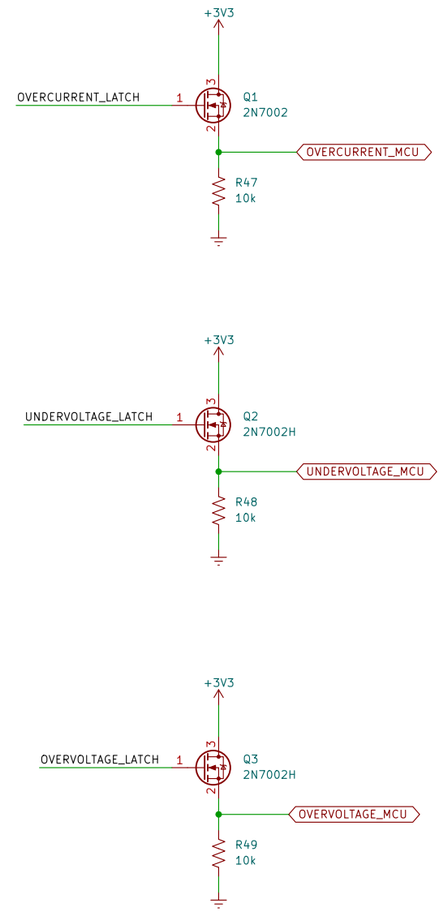
ADC



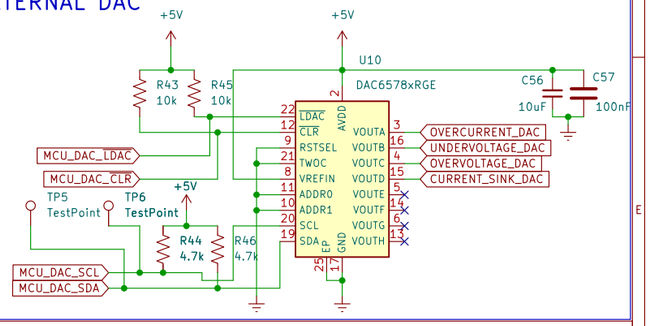
CURRENT SENSE AMPLIFIER



MCU VOLTAGE ADJUSTMENT



EXTERNAL DAC

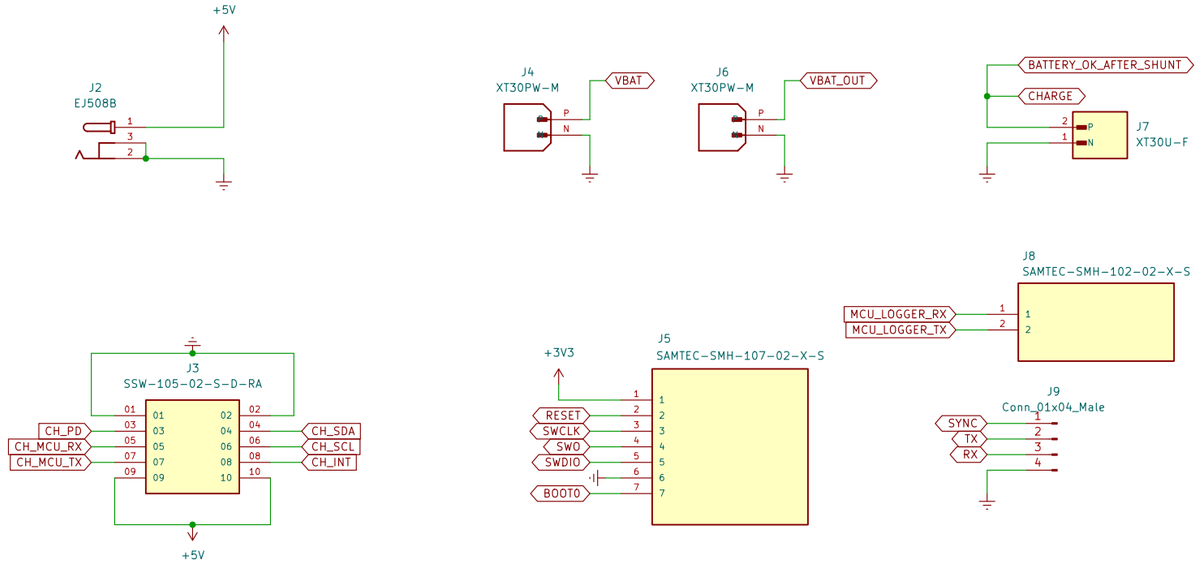


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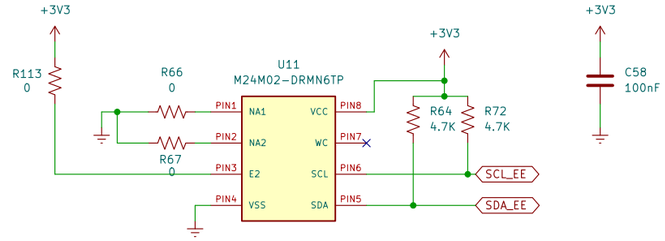
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KiCad E.D.A. 10.0.0		Id: 4/7

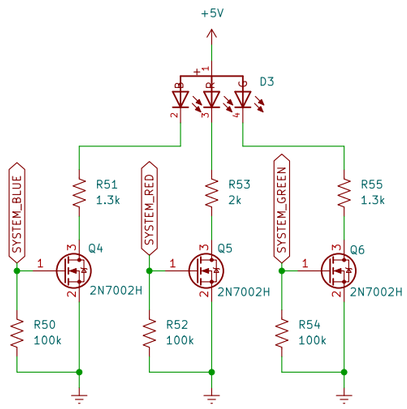
CONNECTORS



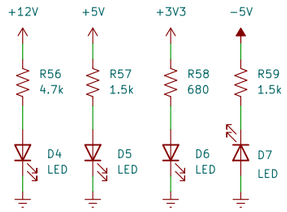
EEPROM



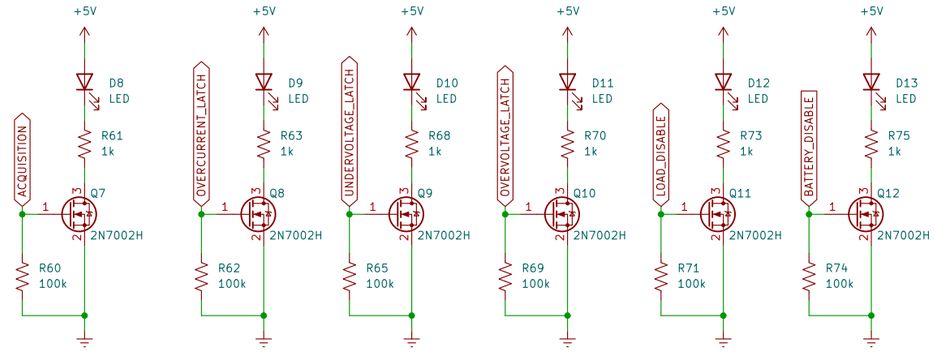
SYSTEM IDENTIFICATION



REFERENCES VOLTAGES IDENTIFICATION



IDENTIFICATION OF SPECIFIC EVENTS



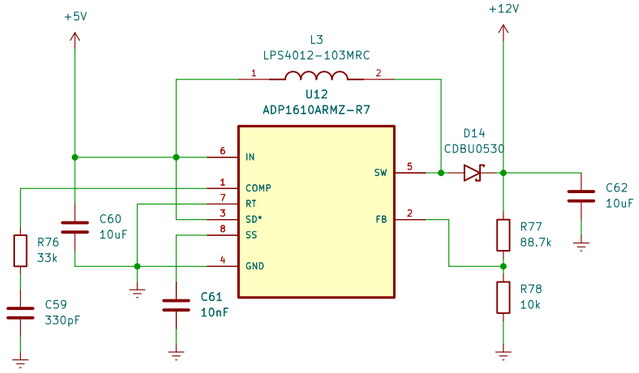
H1 MountingHole_Pad
H2 MountingHole_Pad
H3 MountingHole_Pad
H4 MountingHole_Pad

Sheet: /Connectors_and_indicators/
File: connectors_and_indicators_sch.kicad_sch

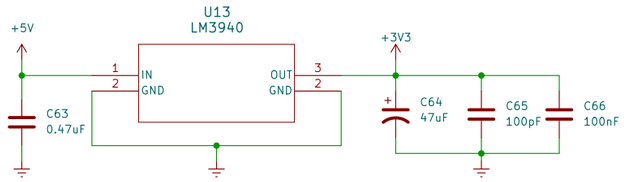
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KiCad E.D.A. 10.0.0 | Id: 5/7

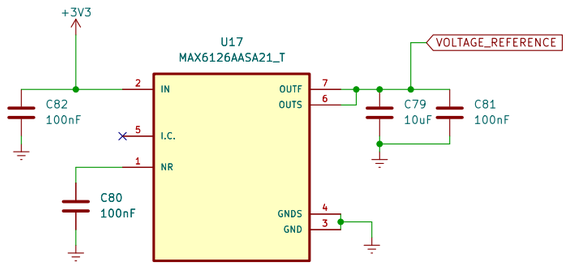
12V Reference



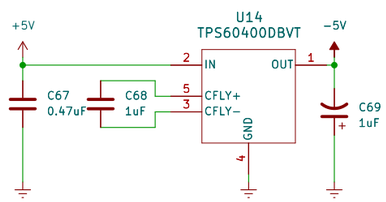
3.3V Reference



2.048V Precision Reference



-5V Reference

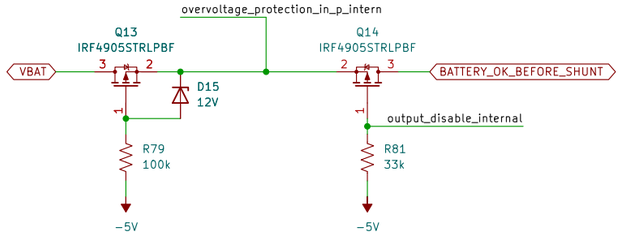


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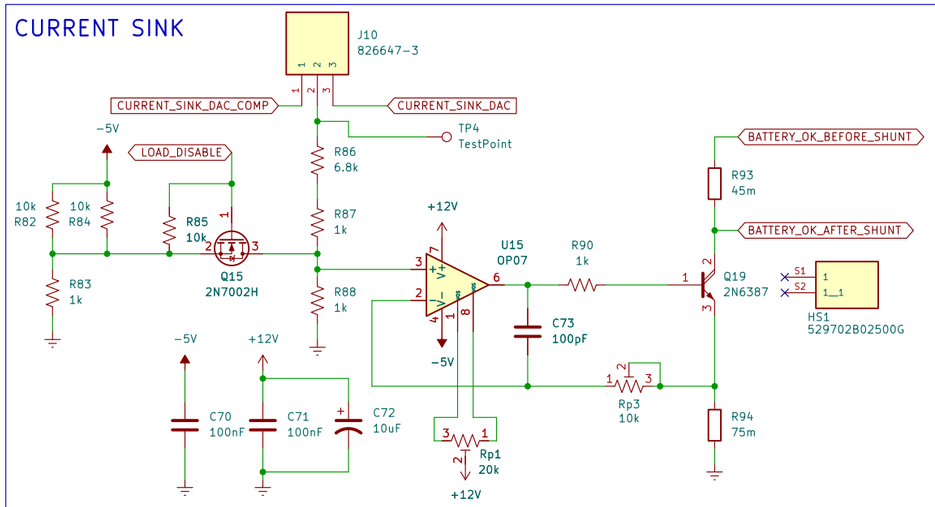
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KiCad E.D.A. 10.0.0		Id: 6/7

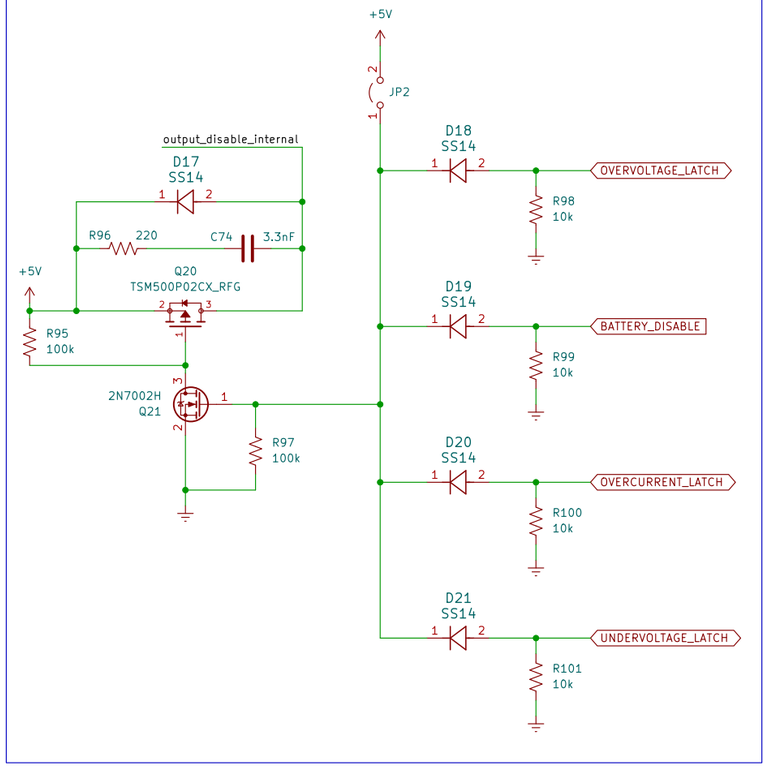
INPUT



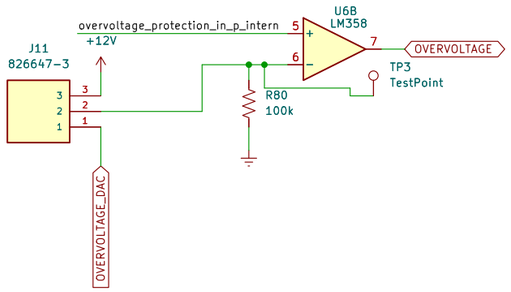
CURRENT SINK



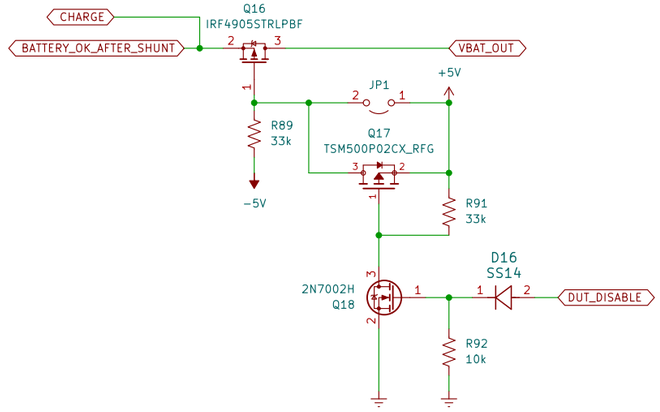
LOAD DISABLE CONTROL



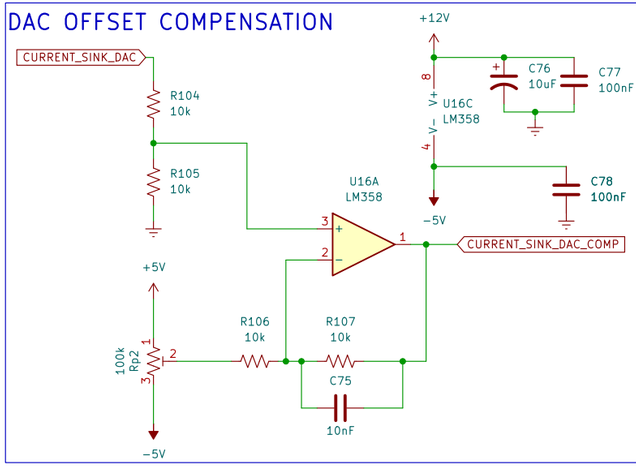
OVERVOLTAGE PROTECTION



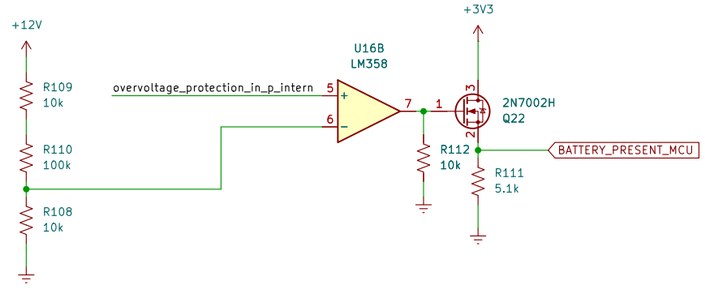
OUTPUT



DAC OFFSET COMPENSATION



BATTERY PRESENT



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File: Protection_circuits.kicad_sch

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Size: A3 | Date: | **Rev:**

KiCad E.D.A. 10.0.0 | Id: 7/7