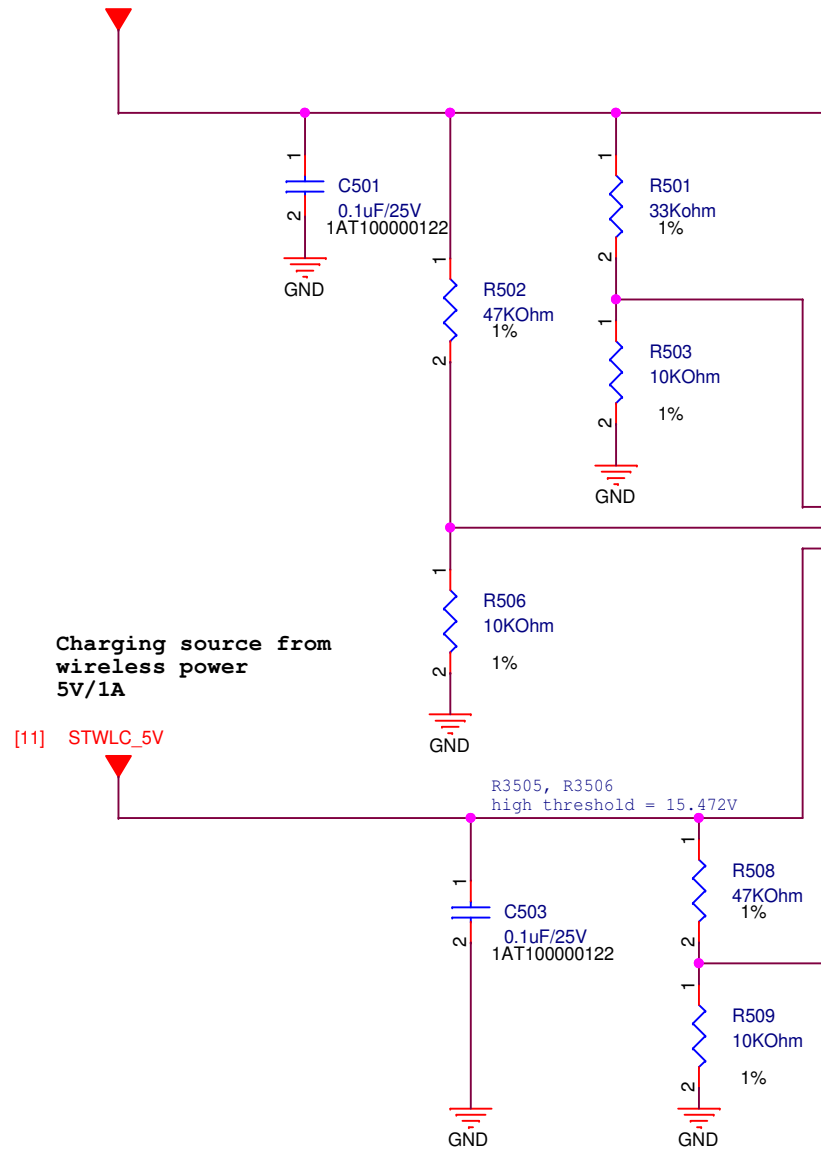


POWER MUX

(Priority High)

Type-C USB

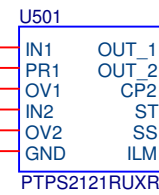
[11] USB_VBUS



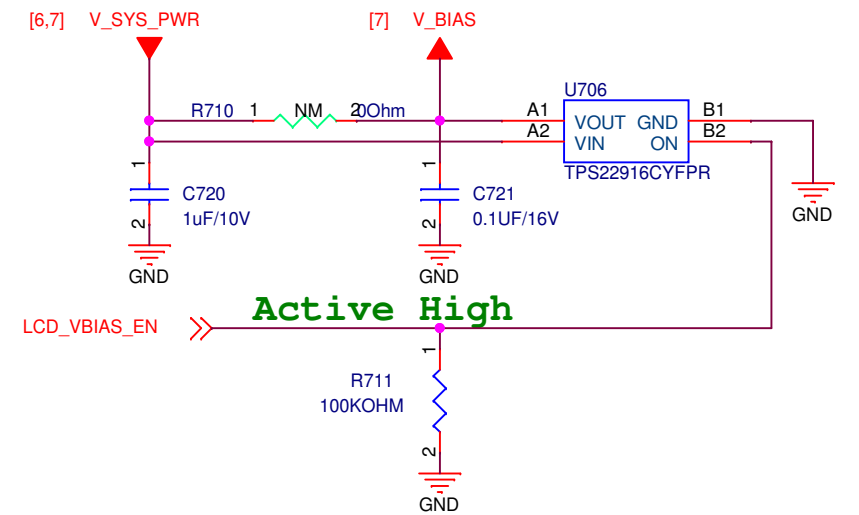
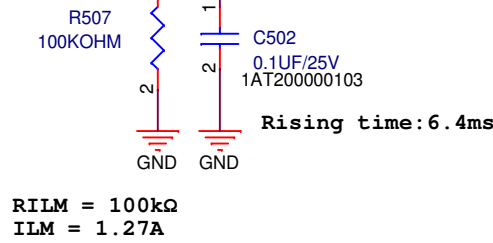
PR1: Vref = 1.06V
 $1.06V = V_{in} * (10/33+10) \text{ kohm}$
 $V_{in} = 4.56V$

OVER VOLTGE PROTECTION
 OV1 and OV2
 Rising => Vref = 1.06V
 $1.06V = V_{in} * (10/47+10) \text{ kohm}$
 $V_{in} = 6.042V$
 Falling => Vref = 1.04V
 $1.04V = V_{in} * (10/47+10) \text{ kohm}$
 $V_{in} = 5.928V$

Input		Output	Input Source
IN1	IN2	OUT	
1	X	IN1	USB
0	1	IN2	WLC
0	0	Hi-Z	invalid inputs



V_CHGIN [4,6]

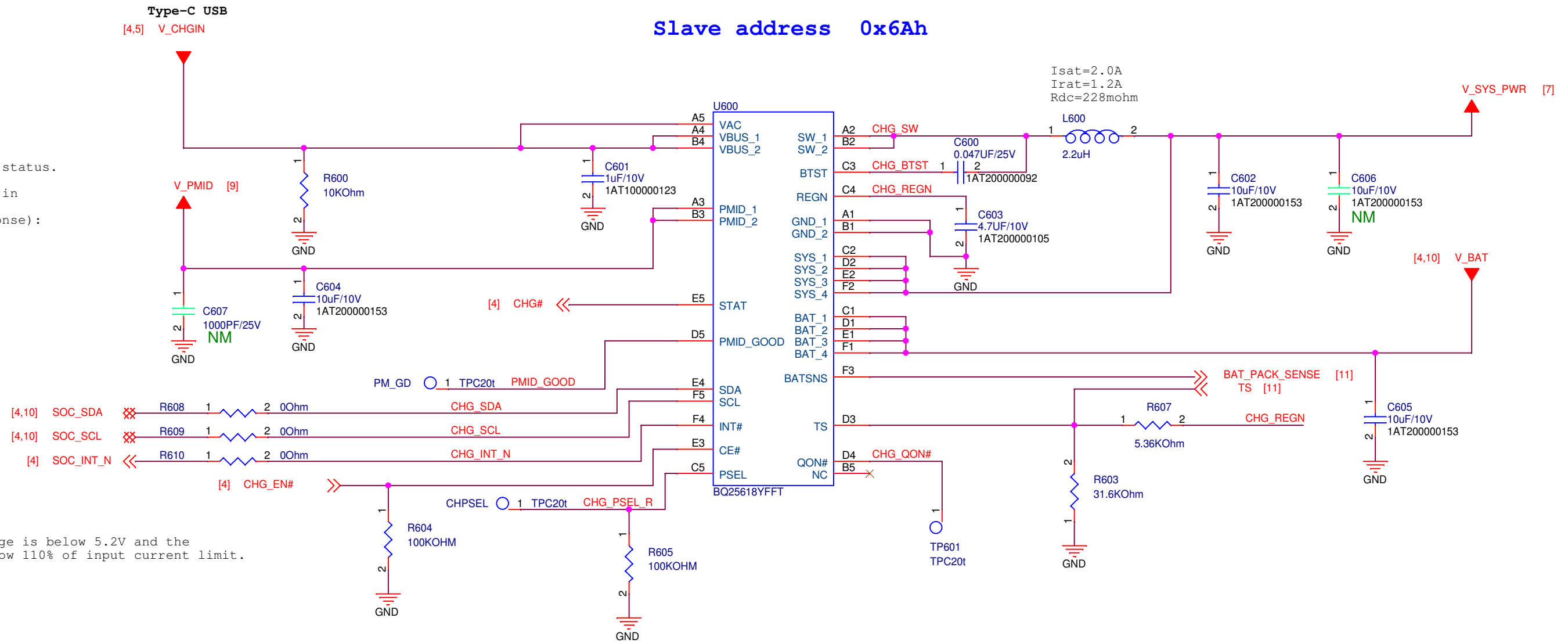


Charger

STAT pin indicates charger status.
 Charge in progress: LOW
 Charge complete or charger in SLEEP mode: HIGH
 Charge suspend (fault response): Blink at 1 Hz

PMID_GOOD:
 HIGH indicates PMID voltage is below 5.2V and the current through Q1 is below 110% of input current limit.

PSEL: Power source selection input.
 HIGH indicates 500 mA input current limit.
 LOW indicates 2.4A input current limit.
 Once the device gets into host mode, the host can program a different input current limit to the IINDPM register.



PEGATRON		Title : QCC5121	
Core Technology R&D		Engineer: Chanah Wu	
Size B	Project Name MEZZO_CHARGING_BOX	Rev 1.0	
Date: Wednesday, April 10, 2024		Sheet 6 of 16	