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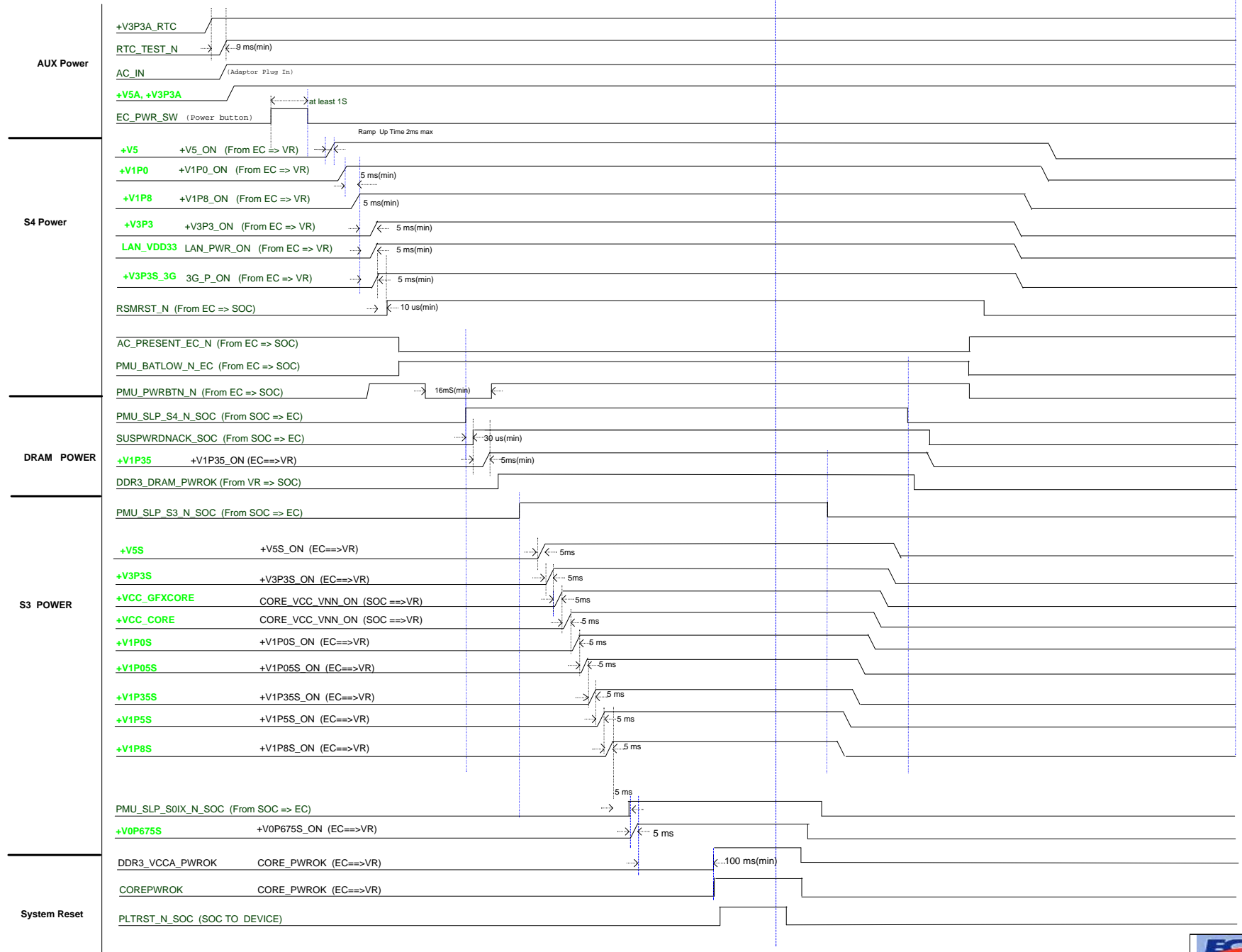
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EF10M12 M/B REV:01, P/N: 15BFU9-011000

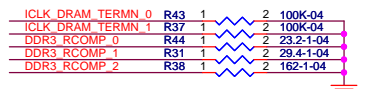
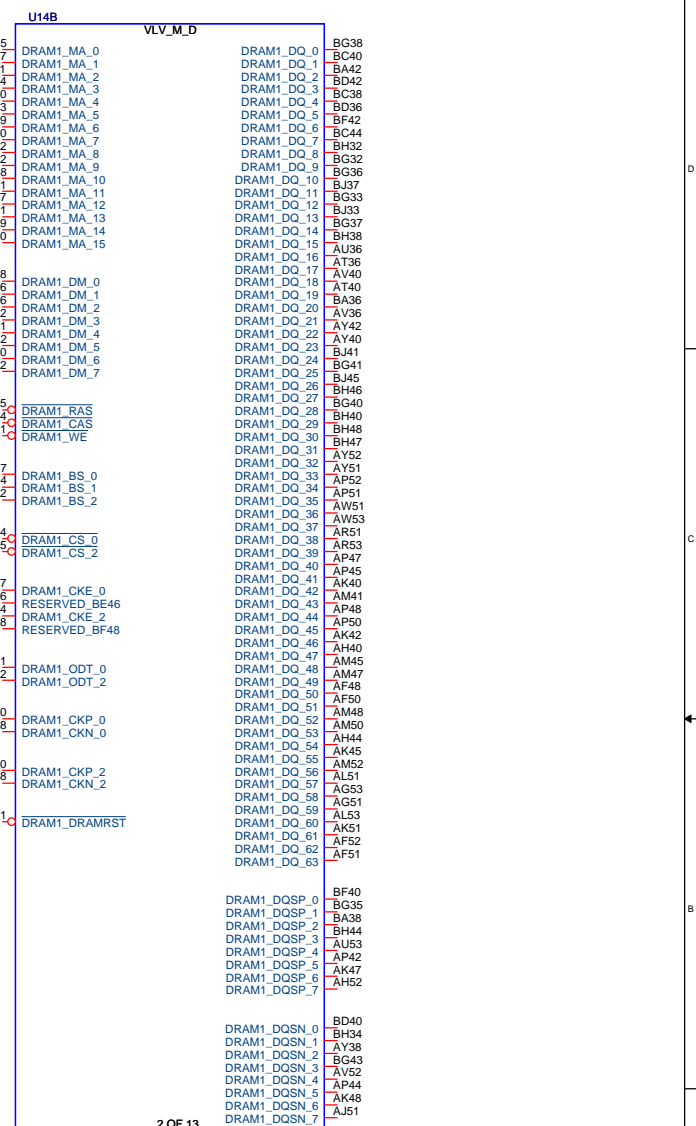
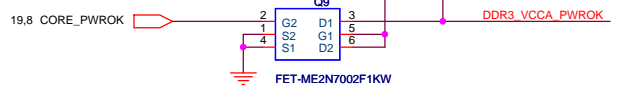
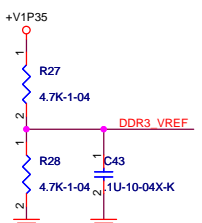
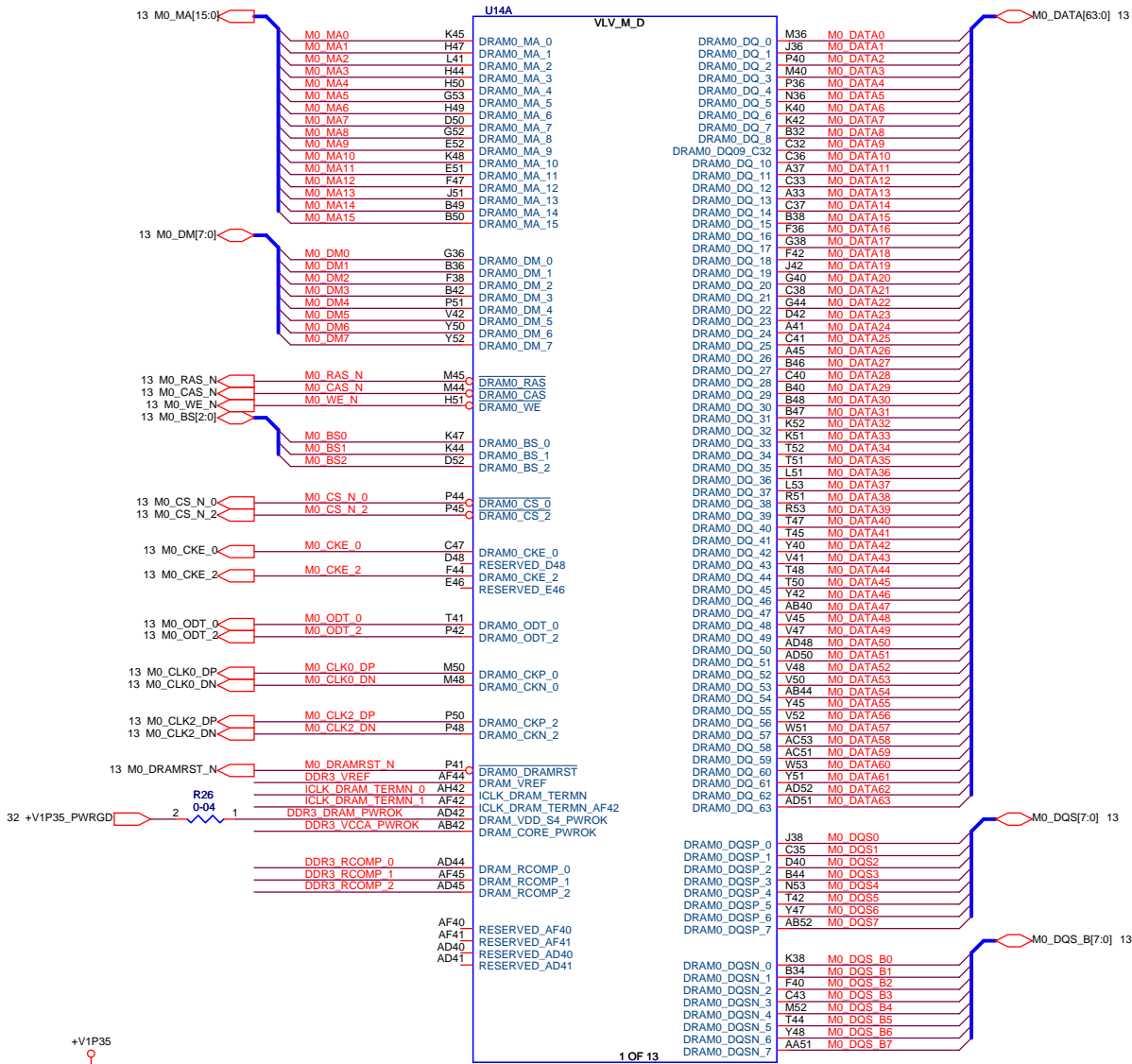
PCB2
EF10M12 IO/B REV:01, P/N: 15BFU9-051000

System Power On/Off Sequence

Power On Timing

Power Off Timing



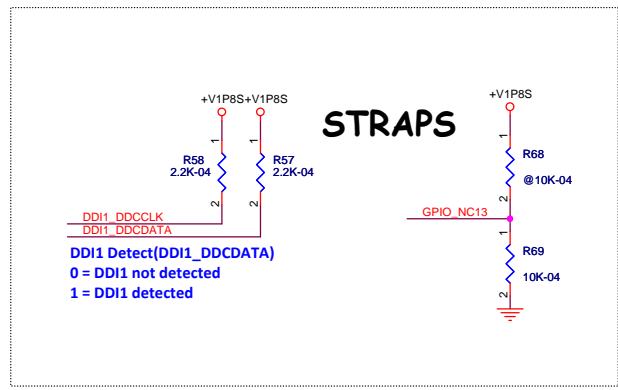
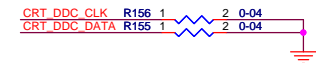
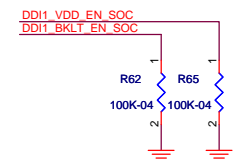
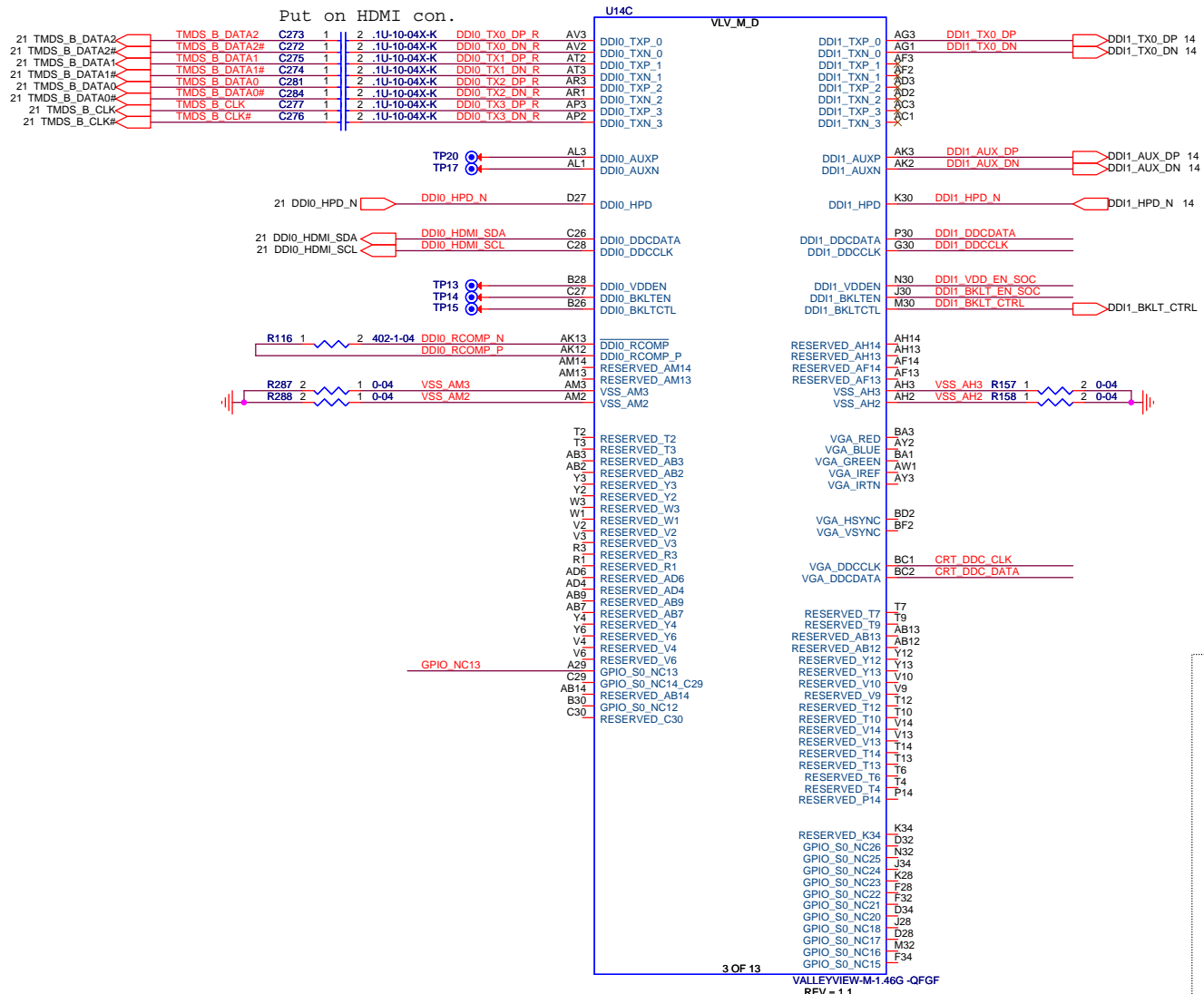


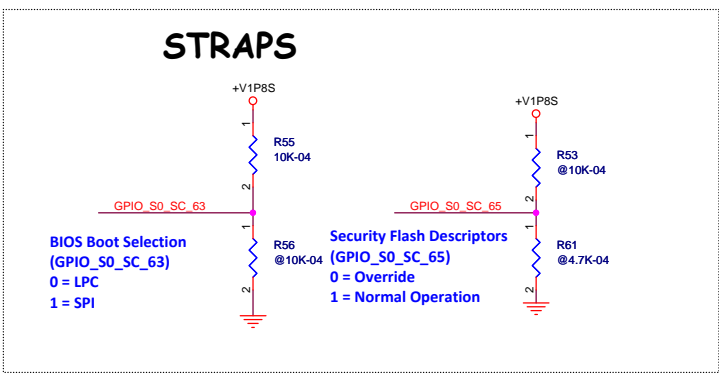
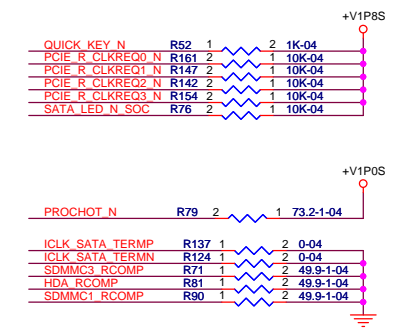
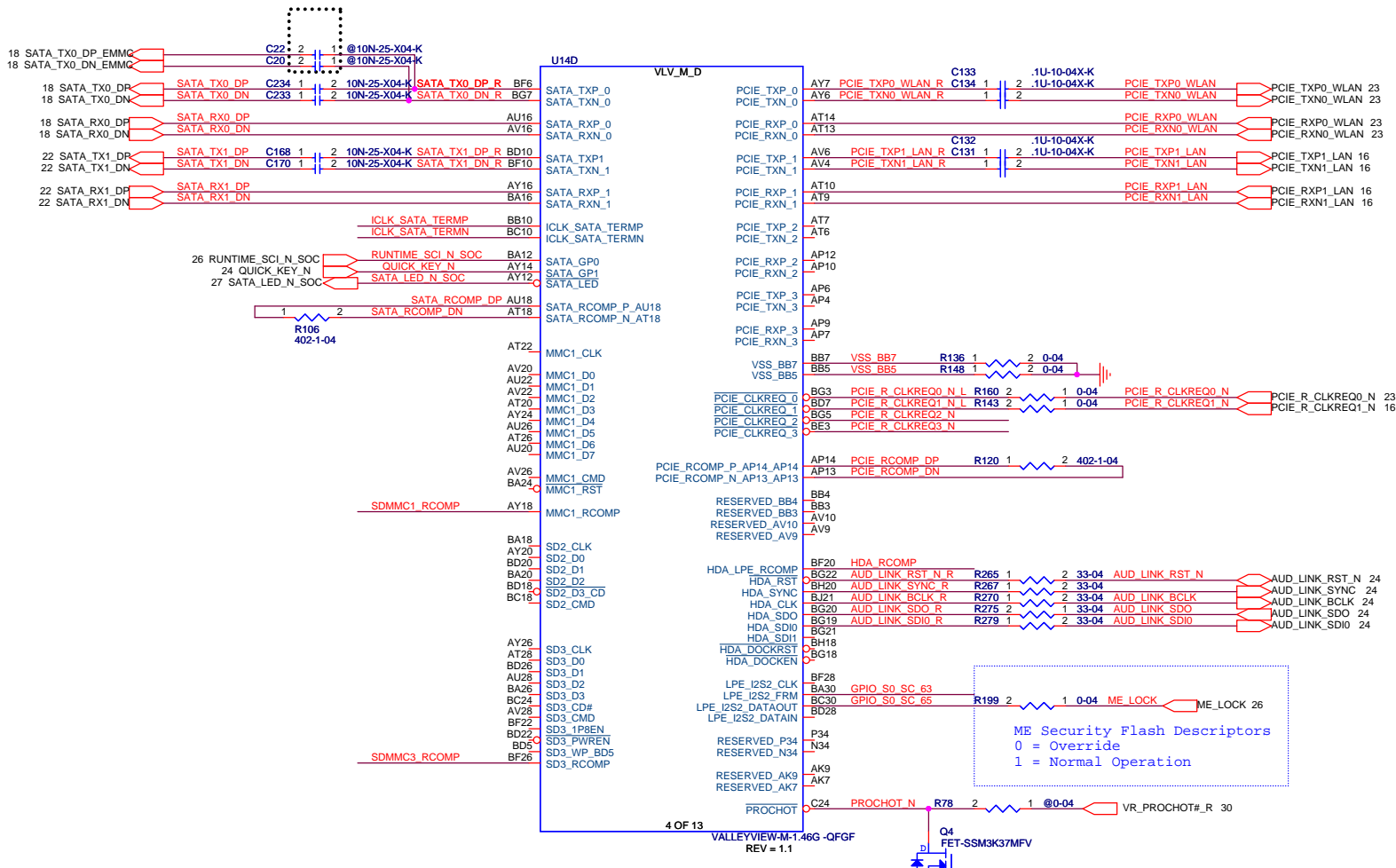
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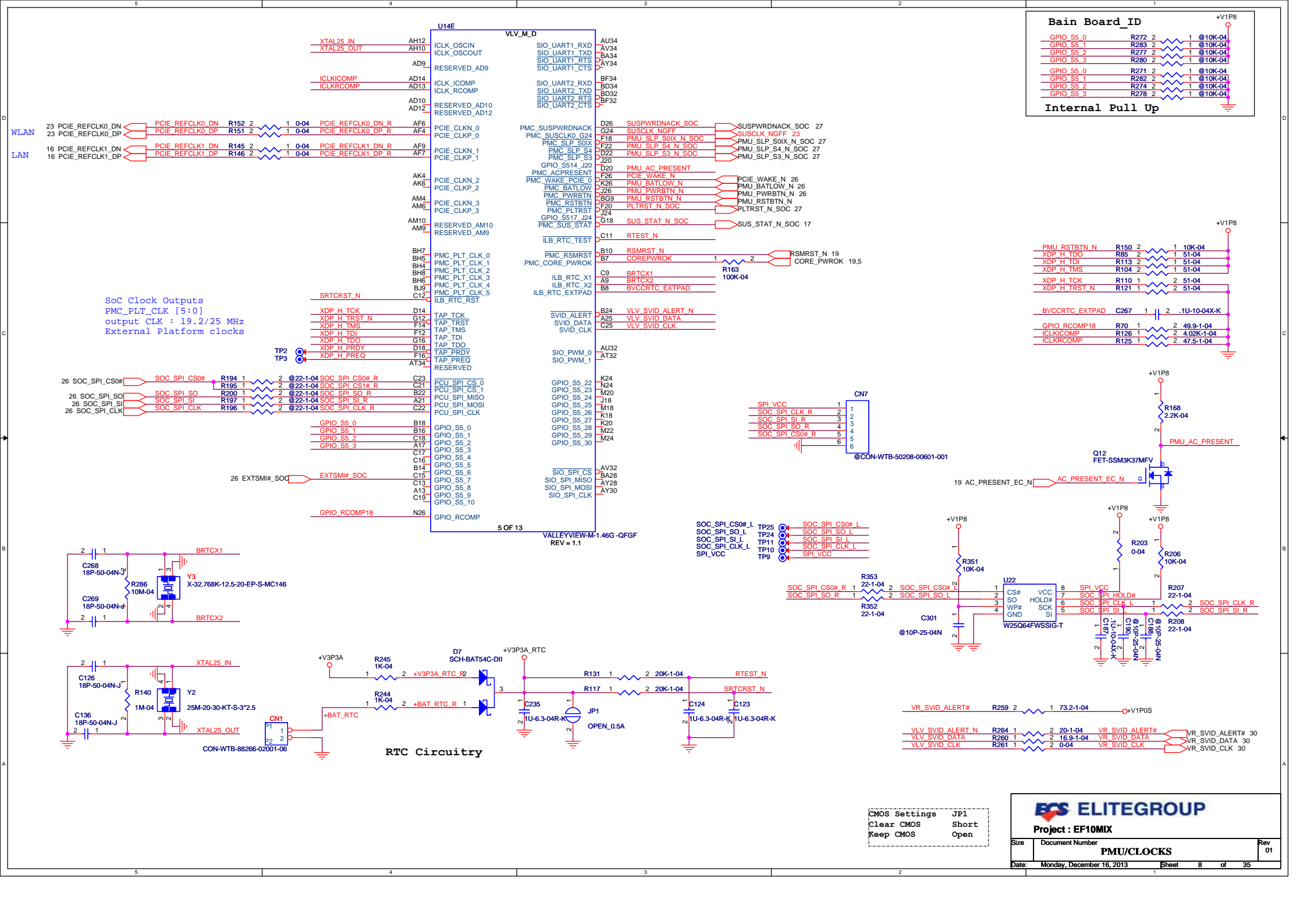
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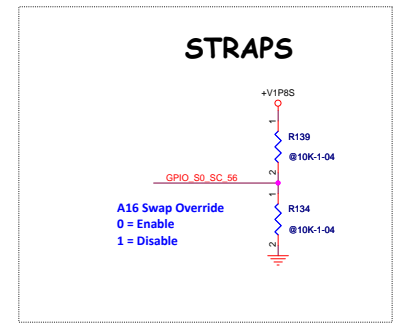
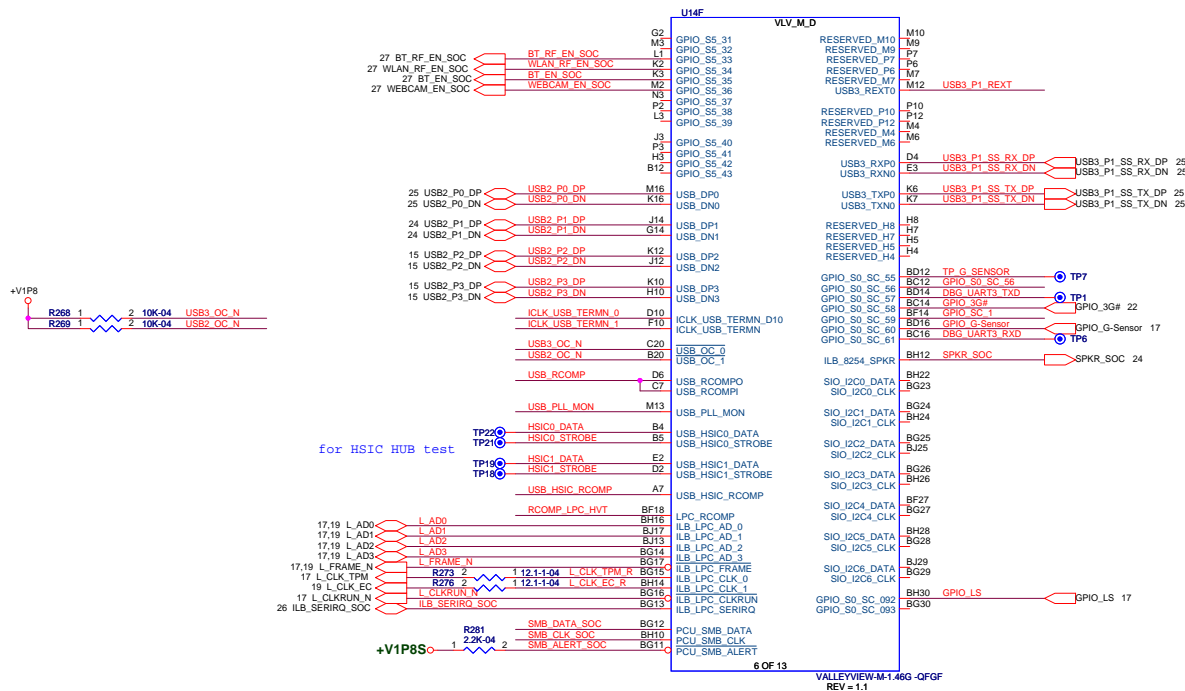




ME Security Flash Descriptors

- 0 = Override
- 1 = Normal Operation





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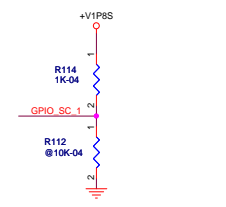
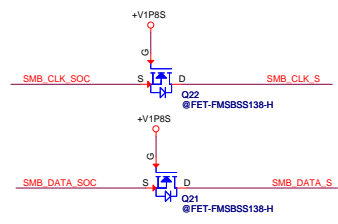
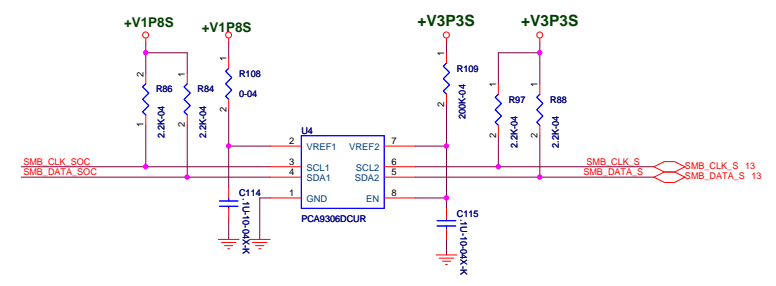
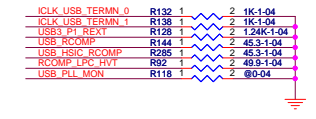
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W/DTV	Low

Device ID----

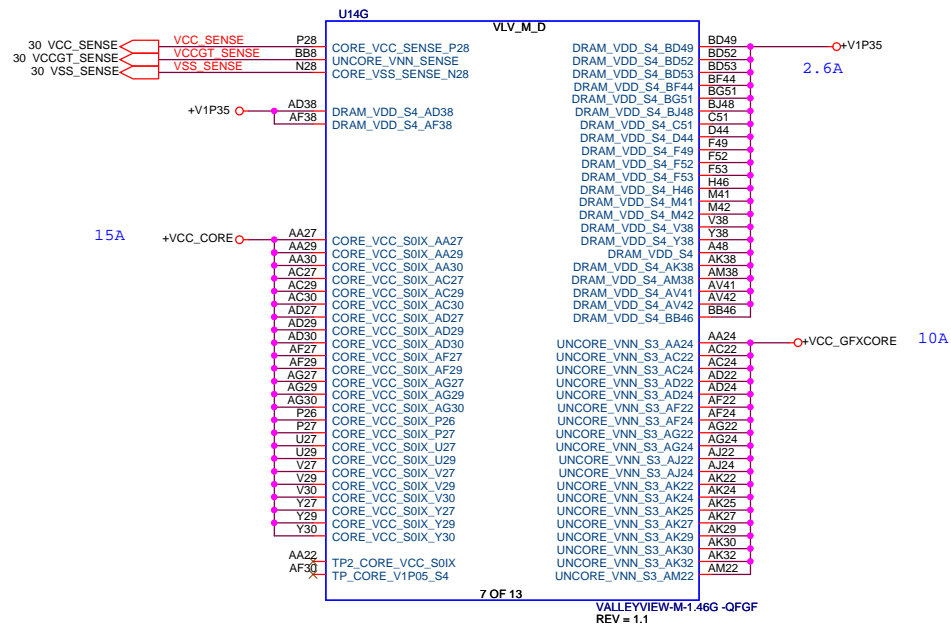
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Device ID----

Device ID	GPIO_G-Sensor
W/G-Sensor	HIGH
W/O G-Sensor	Low



USB 2.0	Port 0	Port 1	Port 2	Port 3	HUB 1.1	HUB 1.2	HUB 1.3	HUB 1.4
DEVICE	USB 3.0 / 2.0 port	USB 2.0 Port	USB HUB 1	USB 2.0 Port	COMBO BT	Touch/S	WEBCAM	Card Reader
USB 2.0	0	1	2	3	HUB 1.1	HUB 1.2	HUB 1.3	HUB 1.4
DEVICE	USB 3.0 / 2.0 port	USB 2.0 Port	USB HUB 1	USB HUB 2	DTV / 3G	USB 2.0 Port	SIM Card	Sensor HUB



+VCC_GFXCORE

C77	1	2	.1U-10-04X-K
C101	1	2	.1U-10-04X-K
C100	1	2	1U-6.3-04R-K
C99	1	2	1U-6.3-04R-K
C90	1	2	1U-6.3-04R-K
C129	1	2	10U-6.3V-06R
C127	1	2	10U-6.3V-06R
C128	1	2	10U-6.3V-06R
C263	1	2	@22U-6.3-08R
C262	1	2	@22U-6.3-08R

+V1P35

C53	1	2	.1U-10-04X-K
C58	1	2	.1U-10-04X-K
C45	1	2	.1U-10-04X-K
C51	1	2	.1U-10-04X-K
C57	1	2	.1U-10-04X-K
C62	1	2	1U-6.3-04R-K
C54	1	2	2.2U-6.3-06R-K
C50	1	2	2.2U-6.3-06R-K
C64	1	2	2.2U-6.3-06R-K
C59	1	2	2.2U-6.3-06R-K

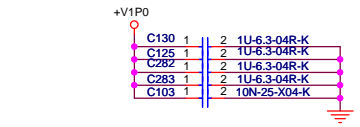
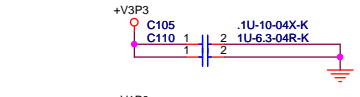
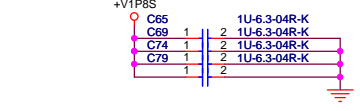
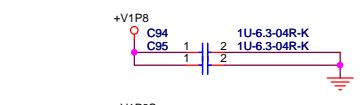
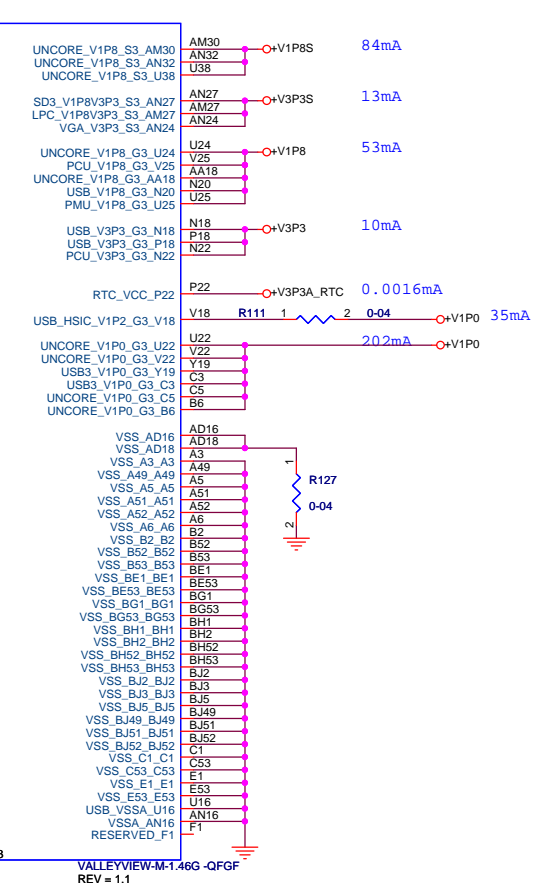
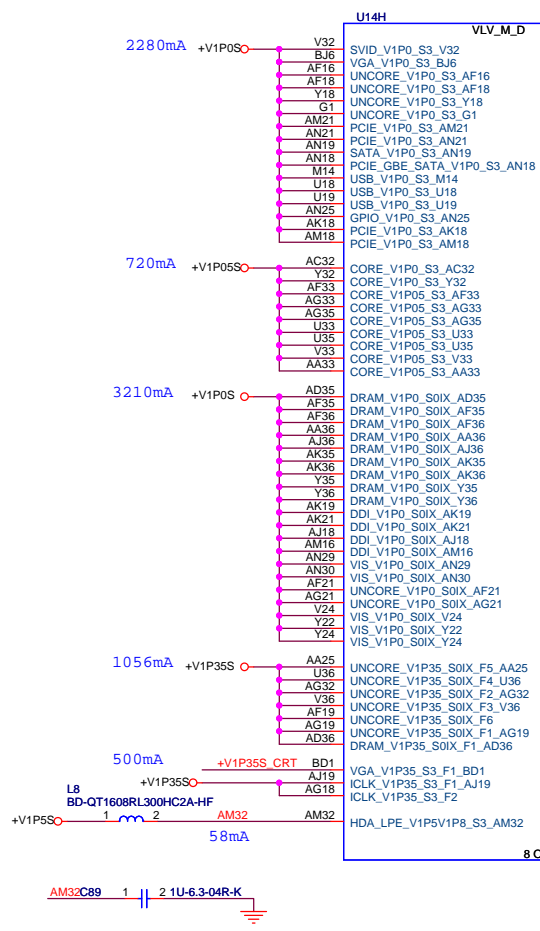
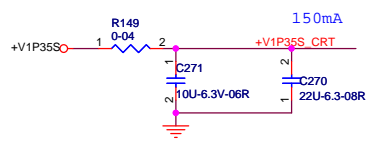
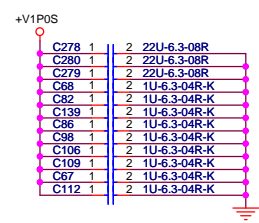
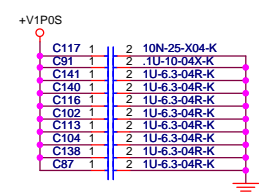
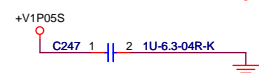
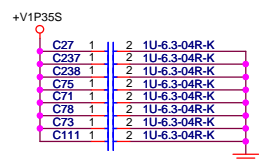
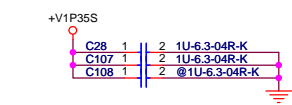
+VCC_CORE

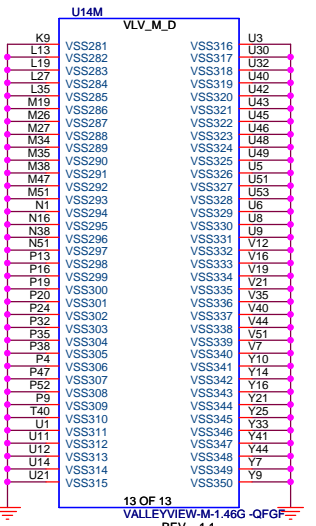
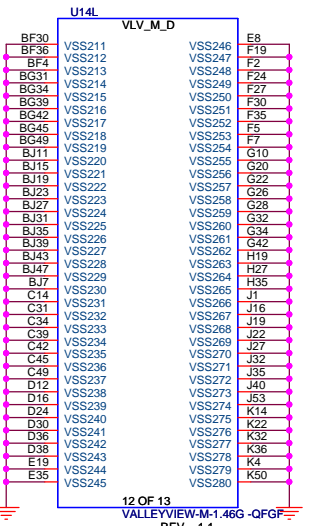
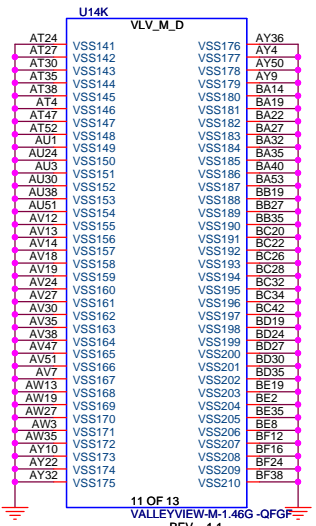
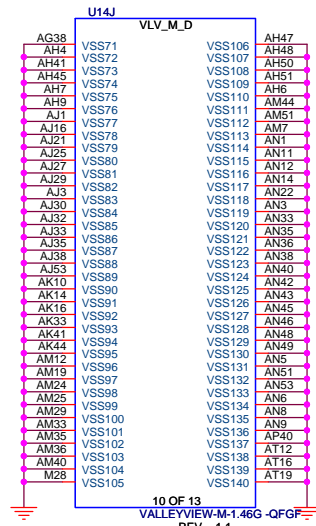
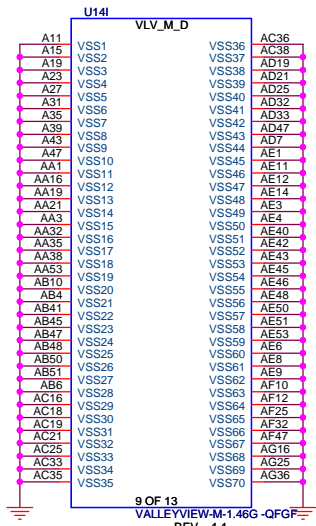
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C255	1	2	22U-6.3-08R
C254	1	2	22U-6.3-08R
C70	1	2	10U-6.3V-06R
C80	1	2	4.7U-6.3V-04R-M
C86	1	2	4.7U-6.3V-04R-M
C92	1	2	2.2U-6.3-04R
C81	1	2	2.2U-6.3-04R

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	CPU_DDR1/SOC_POWER1	01
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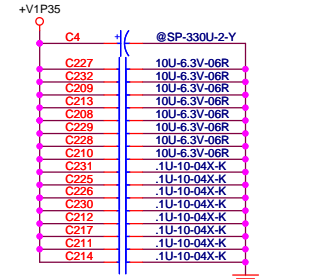
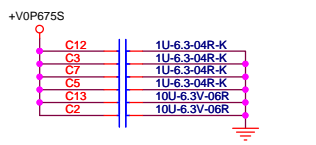
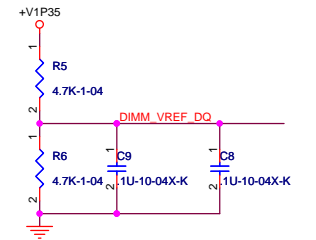
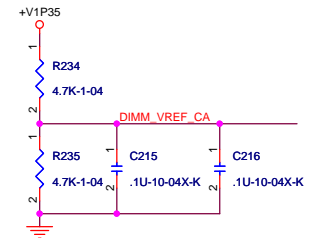
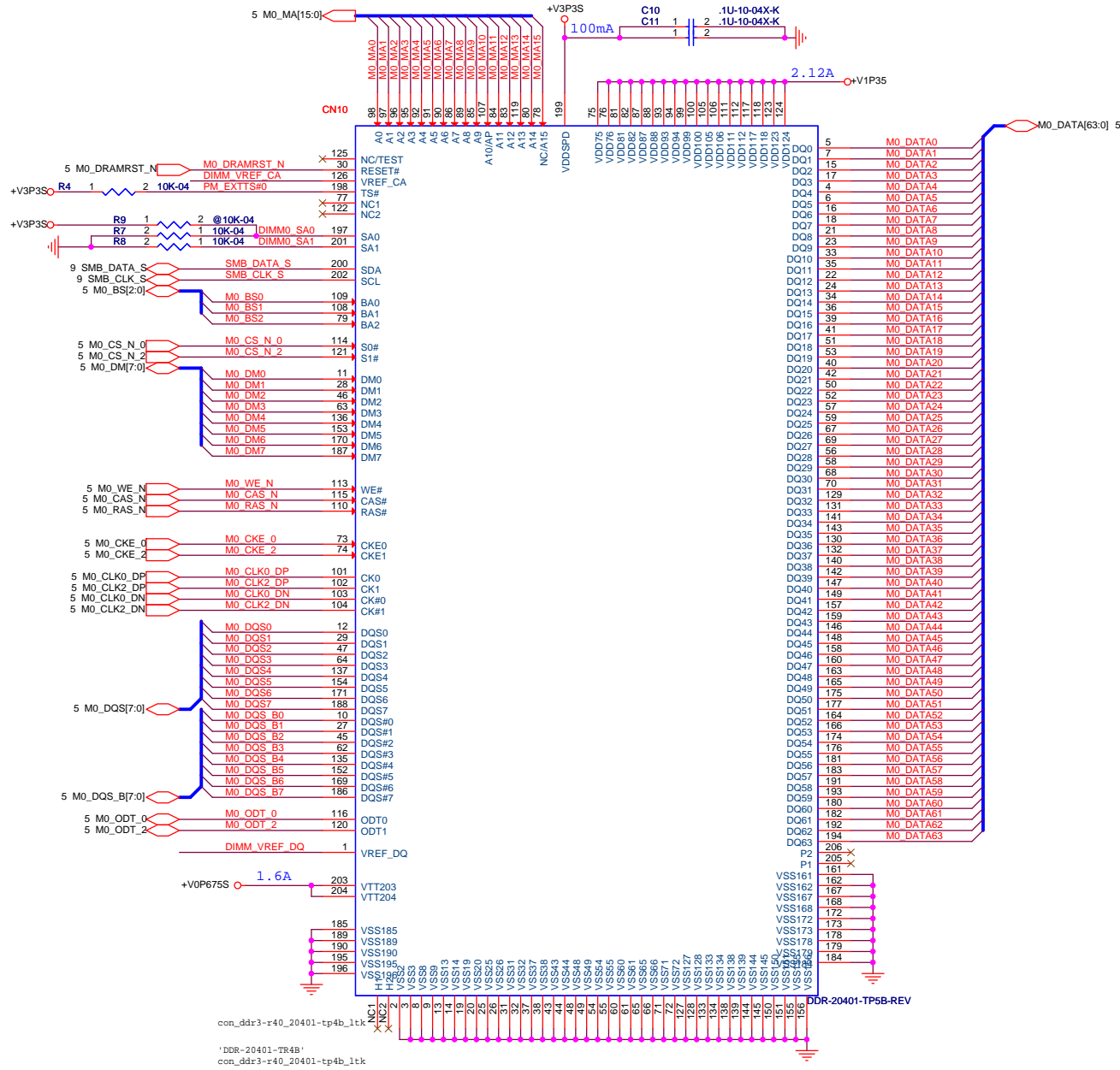




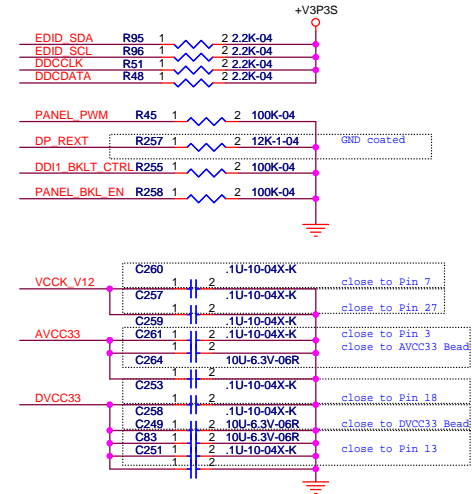
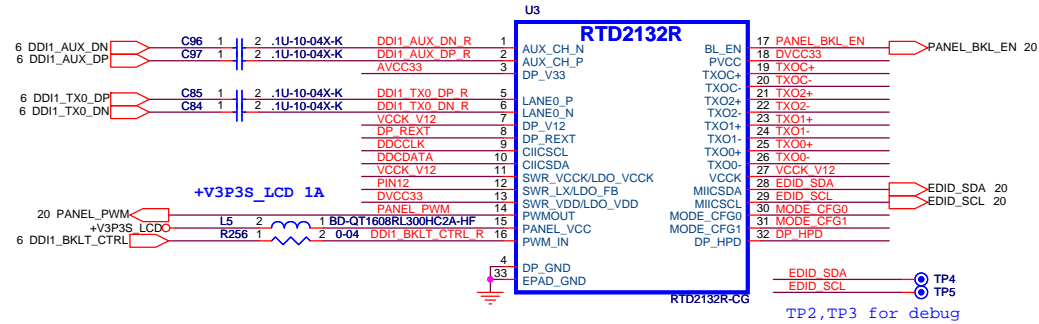
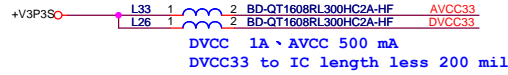
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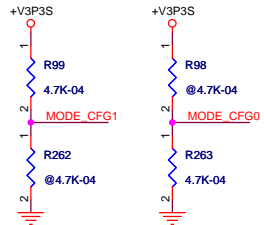
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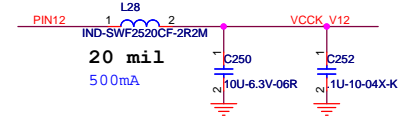
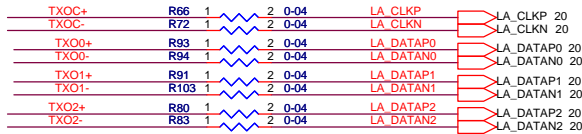
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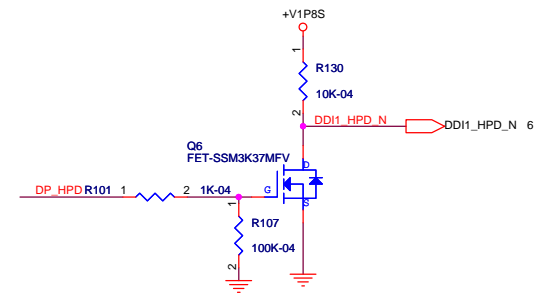
reserved slave address
0x94, 0x96, 0x6A



eDP / LVDS Select



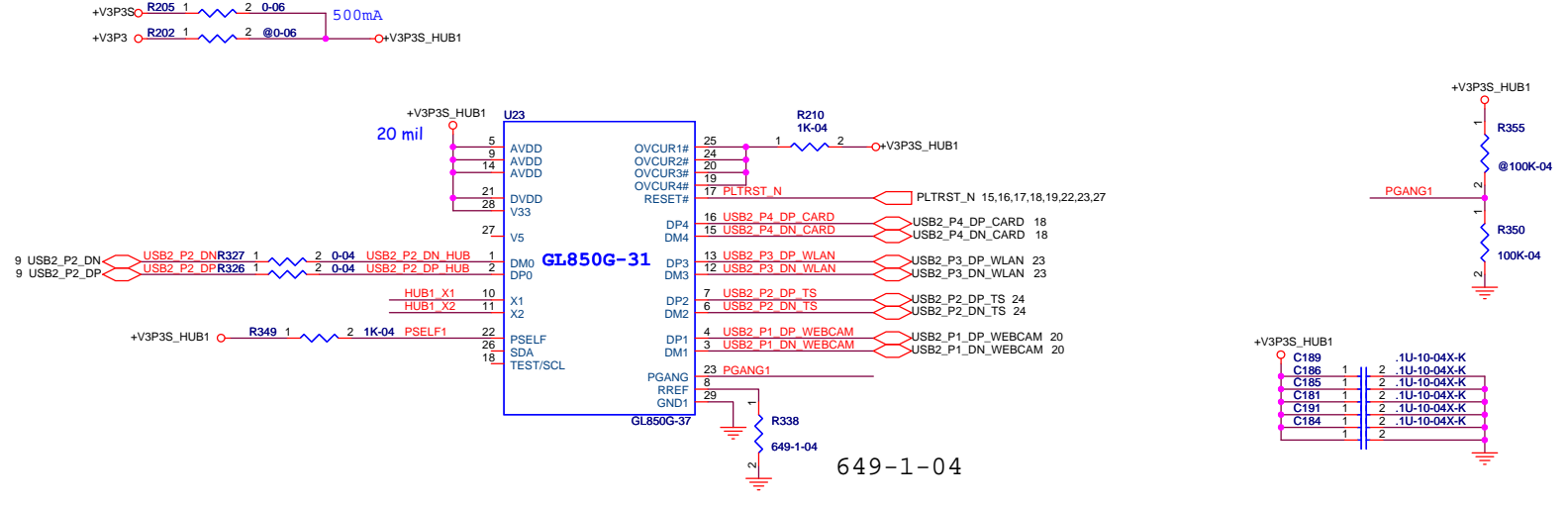
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MODE_CFG1 (PIN31)	0	X	EP MODE
	1	ROM ONLY MODE	EEPROM MODE



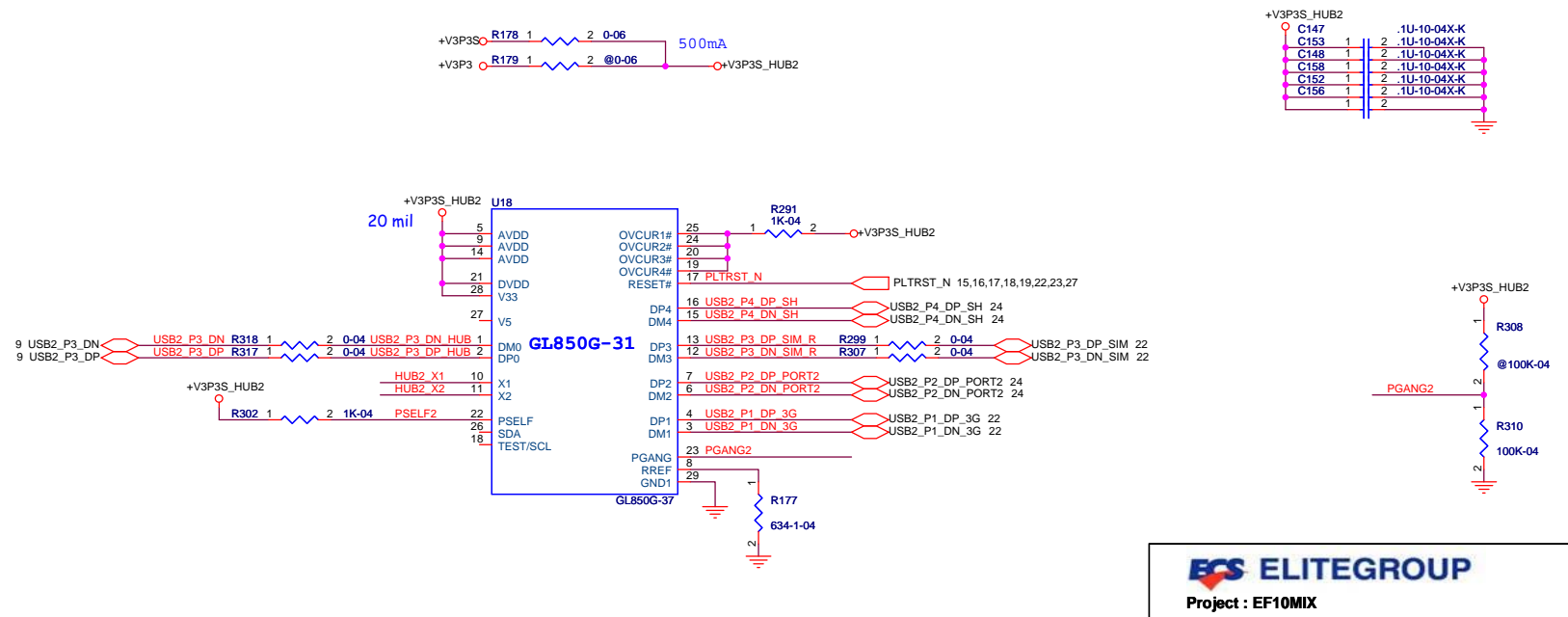
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USB HUB 1



USB HUB 2

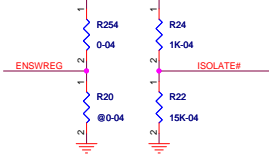
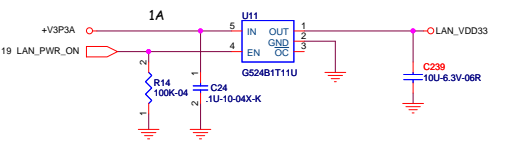
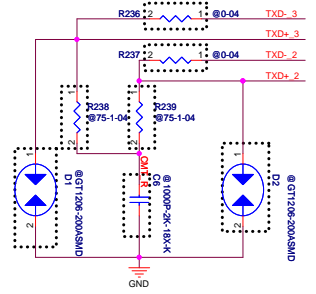
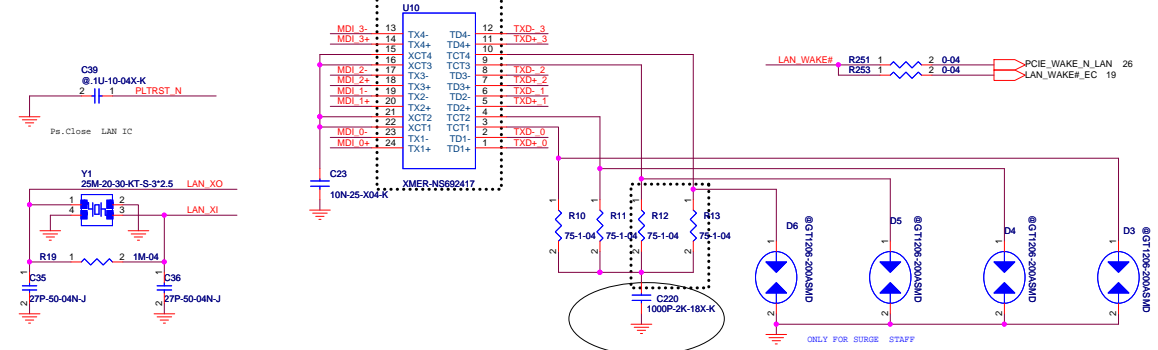
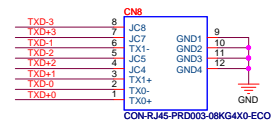
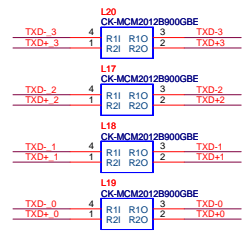
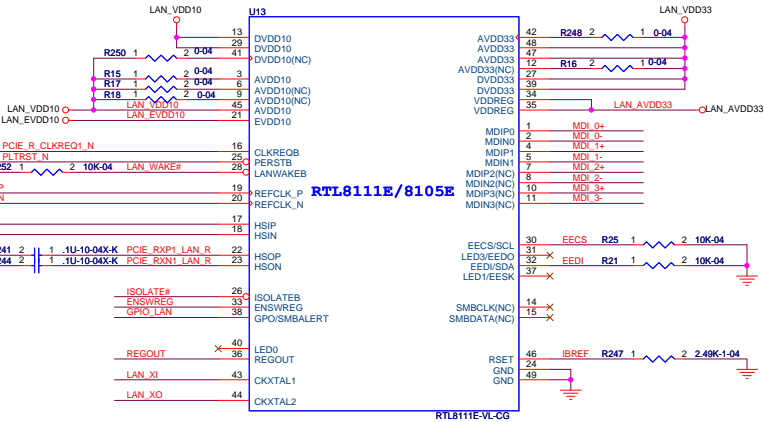
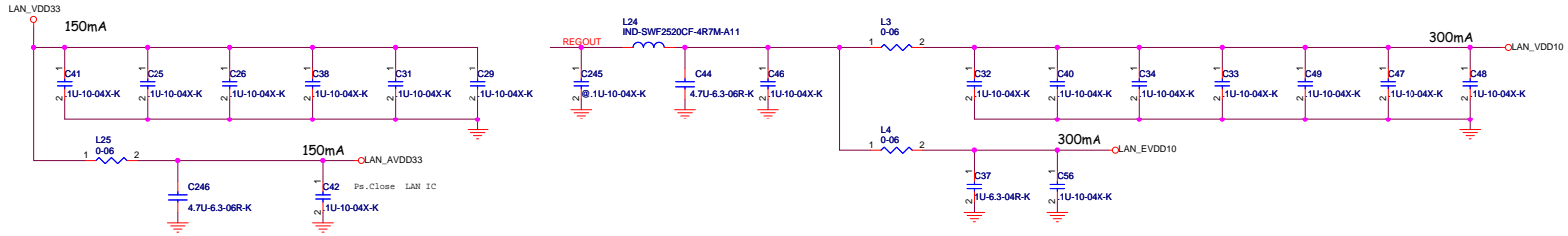


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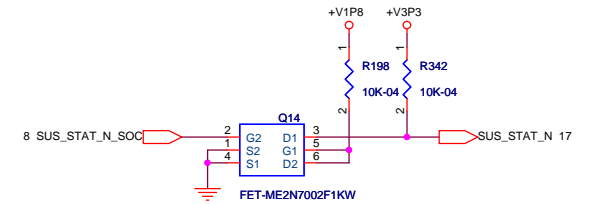
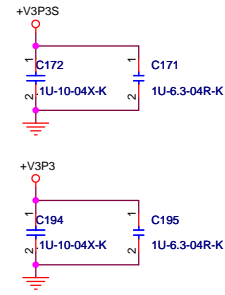
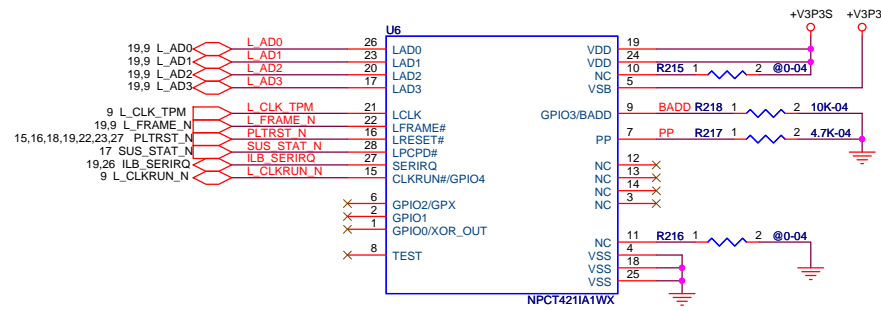
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	USB HUB	01
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LAN

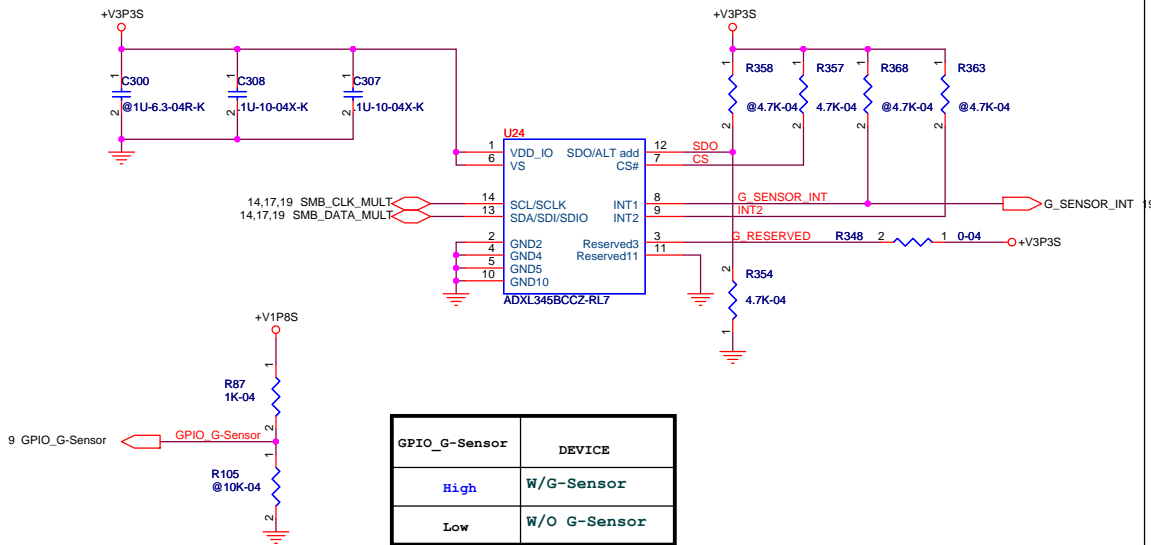


TPM

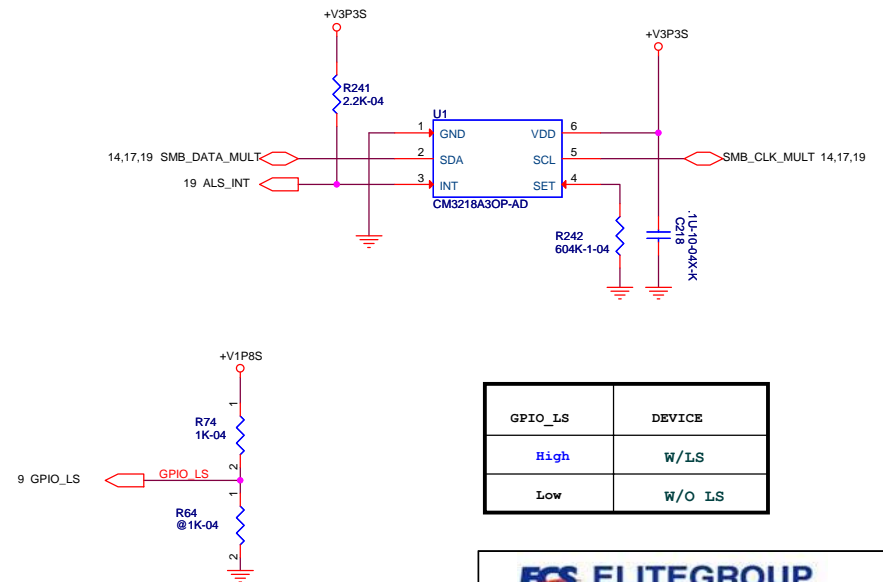
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R203	X	✓
R204	X	✓



G-Sensor



Light-Sensor



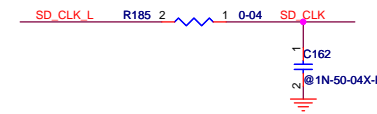
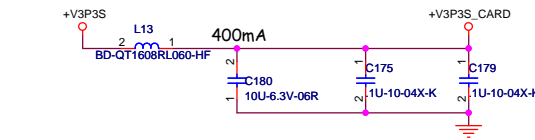
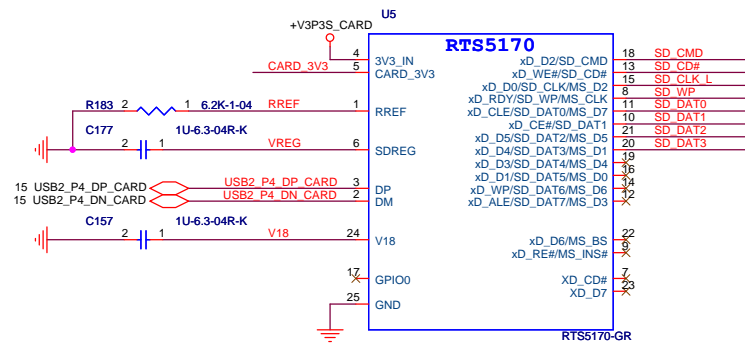
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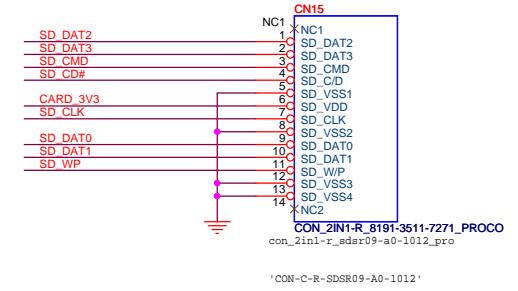
Size	Document Number	Rev
	TPM/G-SENSOR/LS	01

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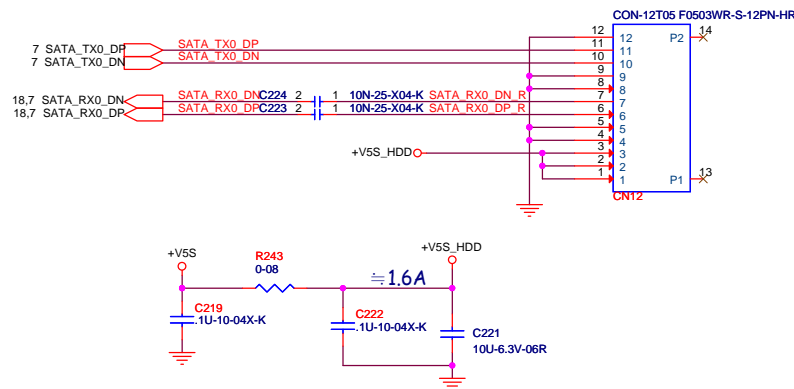
CARD READER



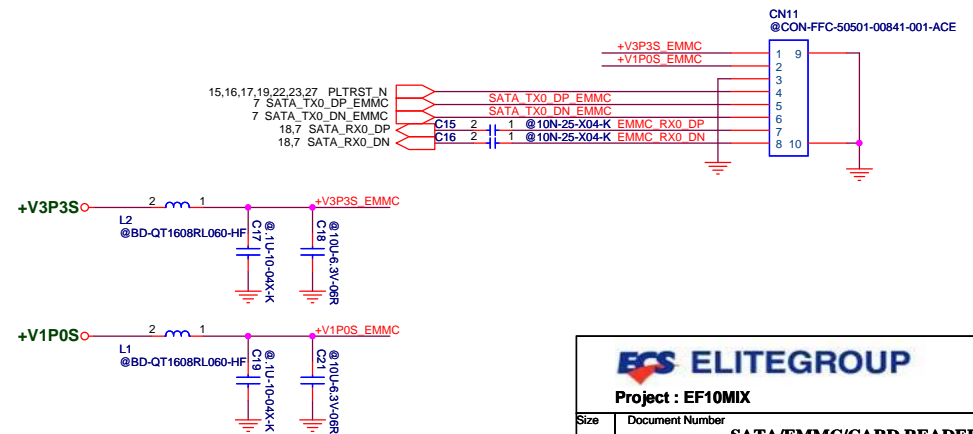
1. SD/MMC Card: 400mA



SATA HDD



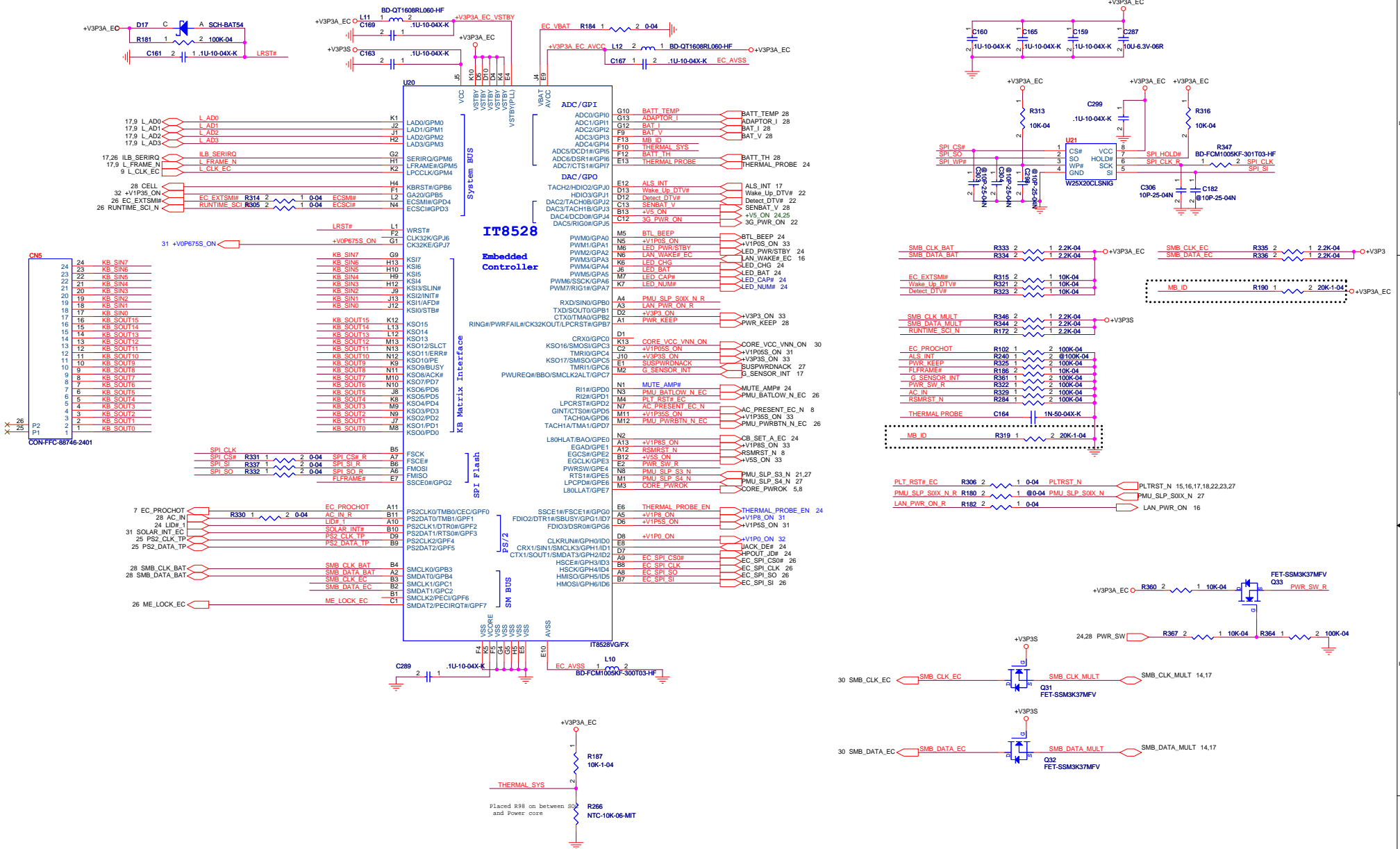
EMMC (Option)



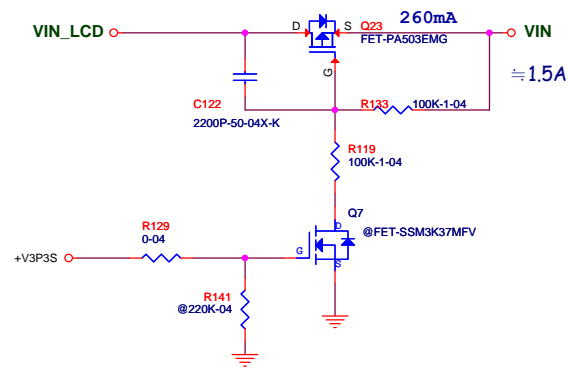
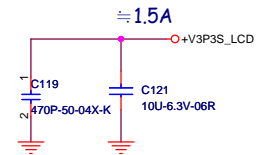
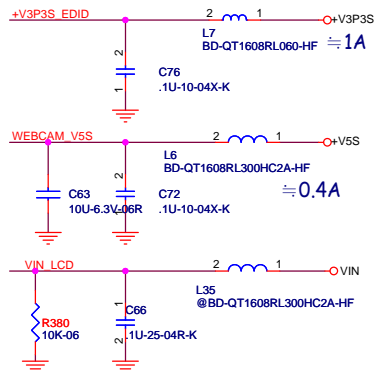
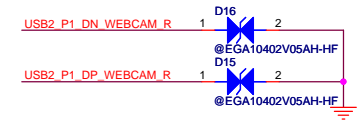
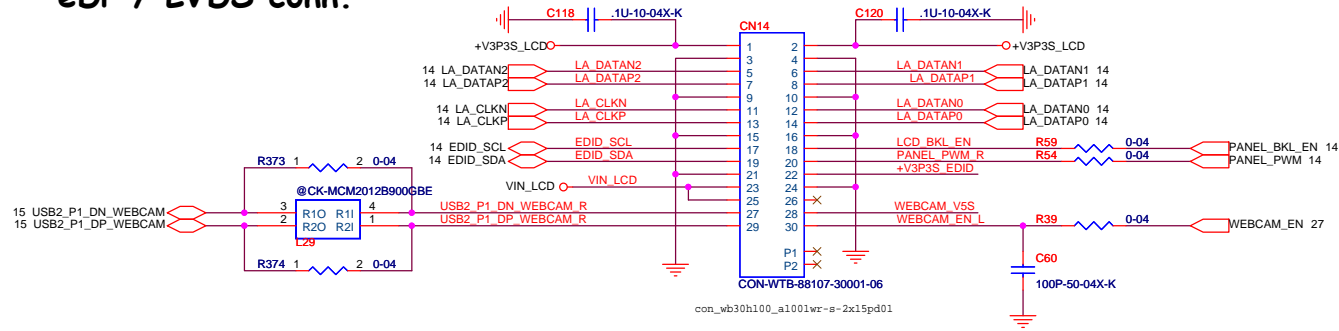
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	SATA/EMMC/CARD READER	01
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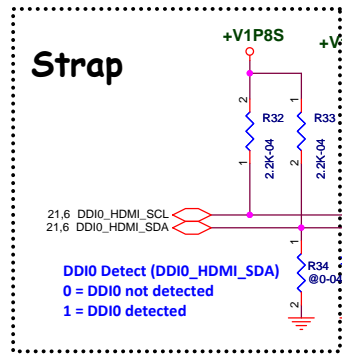
eDP / LVDS conn.



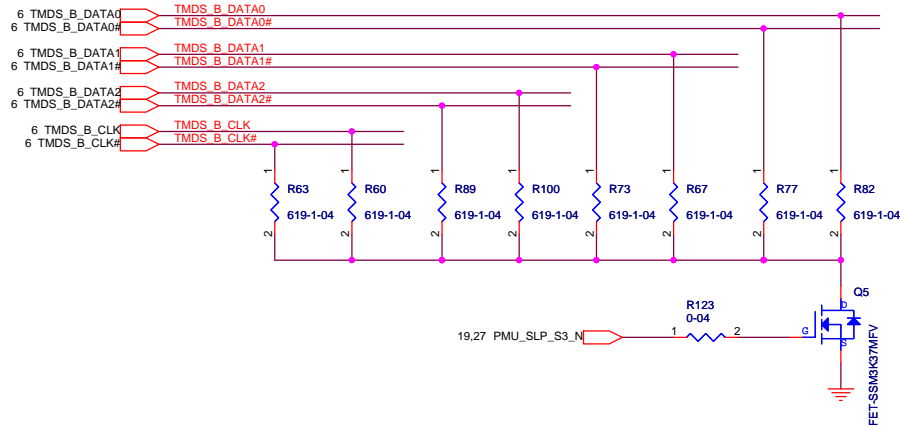
ELITEGROUP

Project : EF10MIX

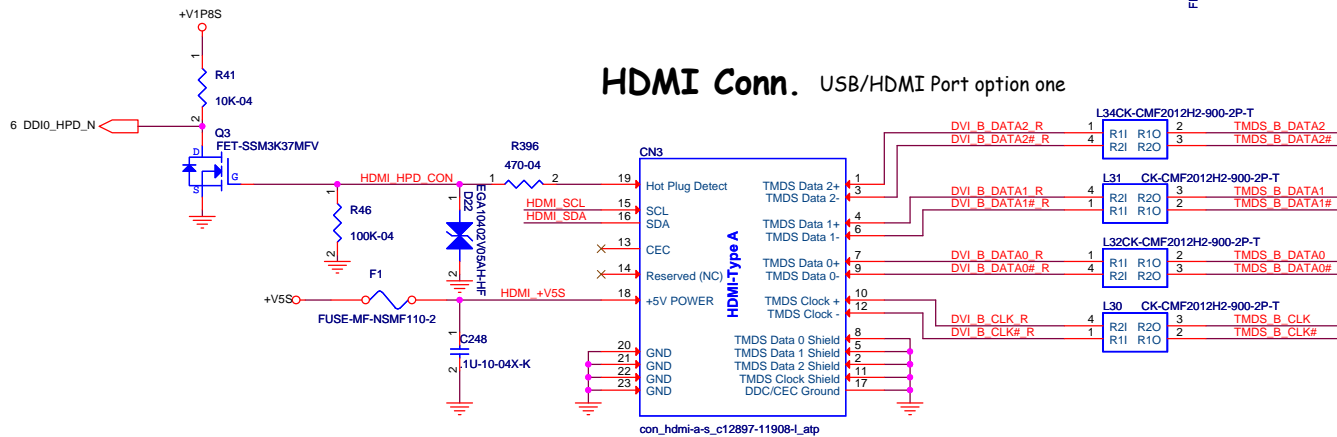
Size	Document Number	Rev
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HDMI Cost Reduced Level Shifter



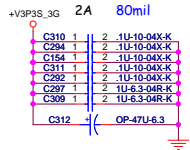
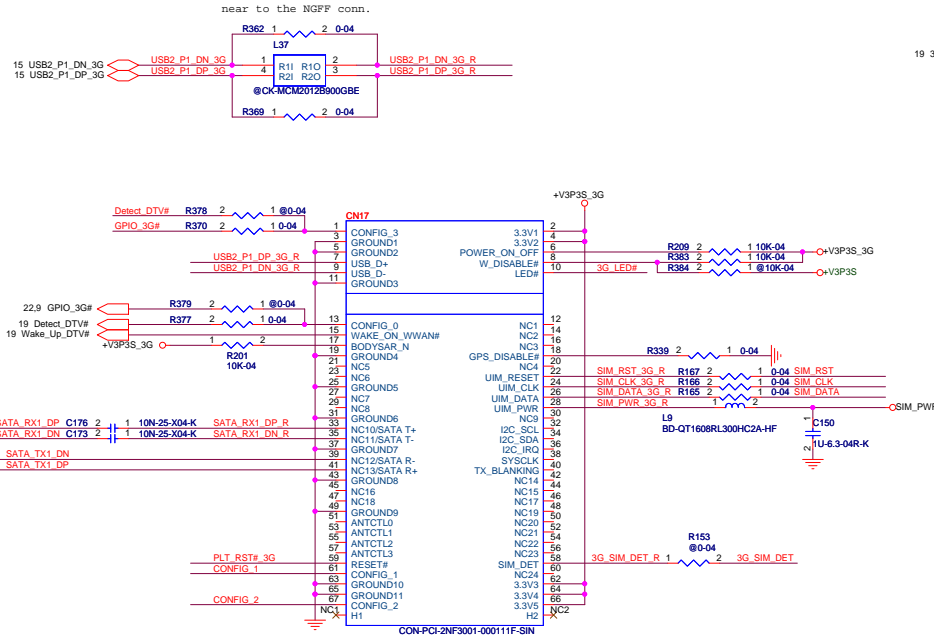
HDMI Conn. USB/HDMI Port option one



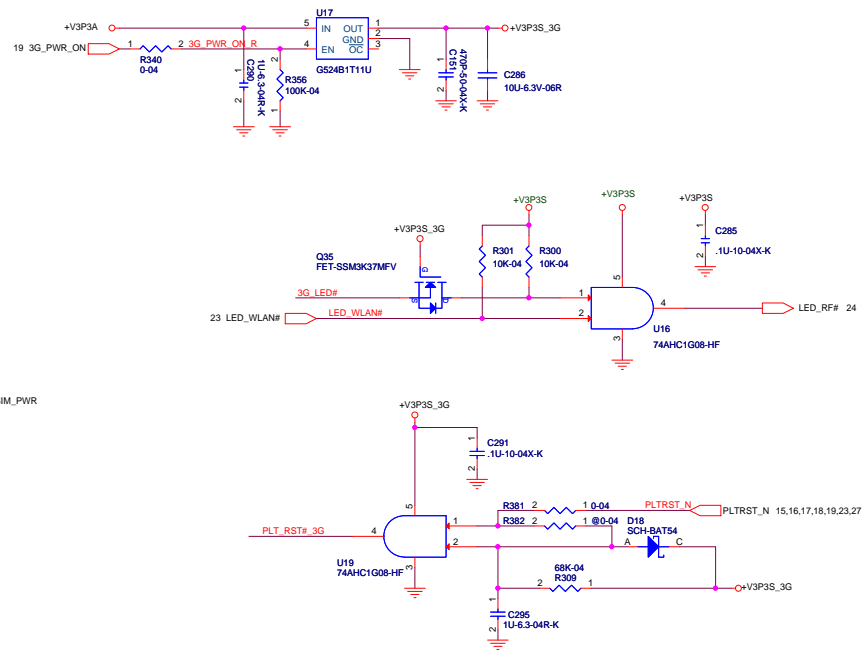
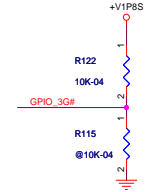
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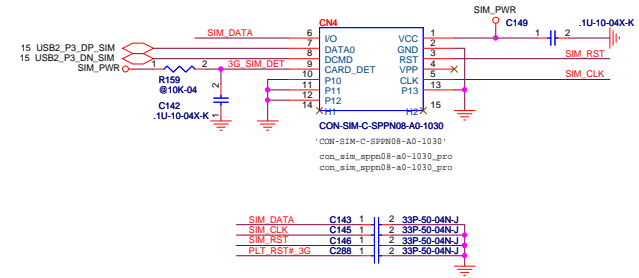
NGFF_3G / DTV



Close to 3G NGFF_CONN



SIM_CARD

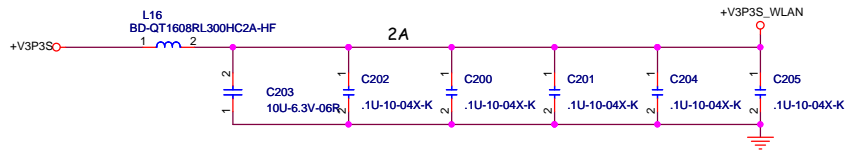
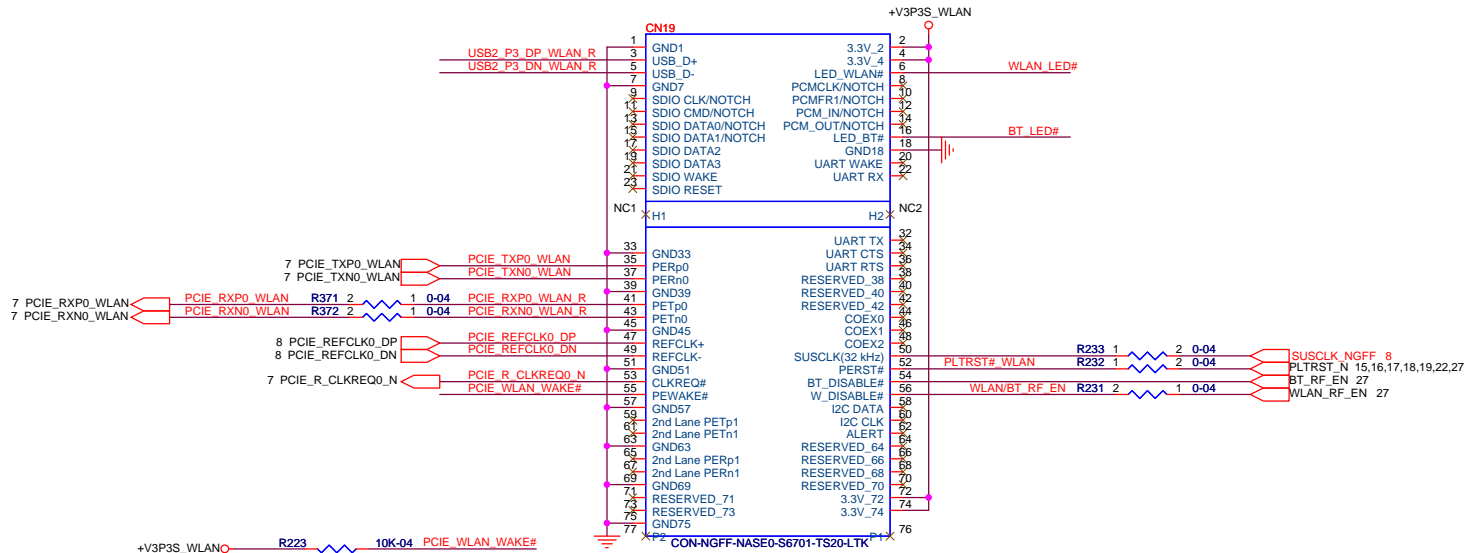
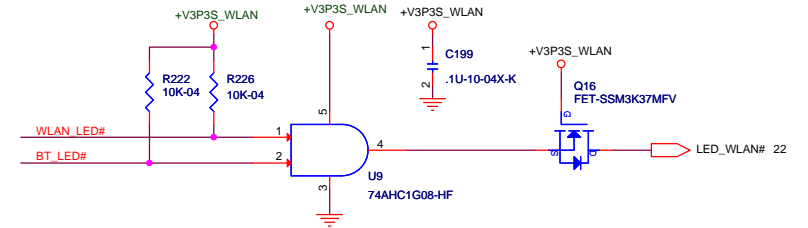
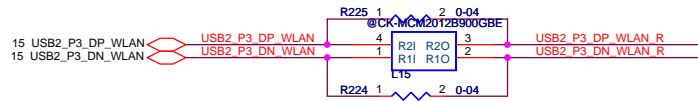


cap near to the NGFF conn. pin

Module type and Main host interface	CONFIG_0 (Pin 13) 21	CONFIG_1 (Pin 61) 69	CONFIG_2 (Pin 67) 75	CONFIG_3 (Pin 1)
SSD-SATA (SSD)	NC	GROUND	GROUND	GROUND
WWAN-PCIe	GROUND	GROUND	NC	GROUND
WWAN-SSIC (3G)	NC	GROUND	GROUND	GROUND
WWAN-USB3.0	GROUND	GROUND	GROUND	NC
WWAN-USB3.0 (DTV)	GROUND	NC	NC	NC

GPIO_3G	DEVICE
High	DTV
Low	3G/SSD

NGFF WLAN

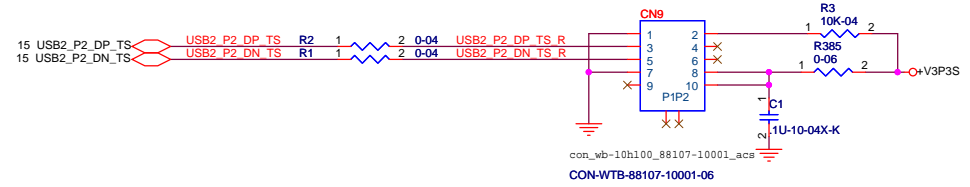
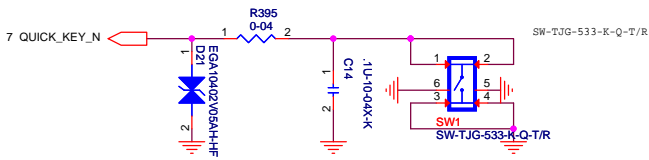


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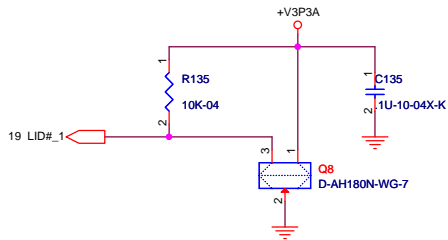
Project : EF10MIX

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Quick Key

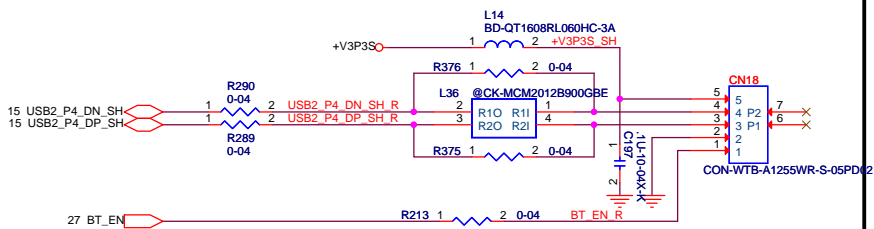


HALL Sensor



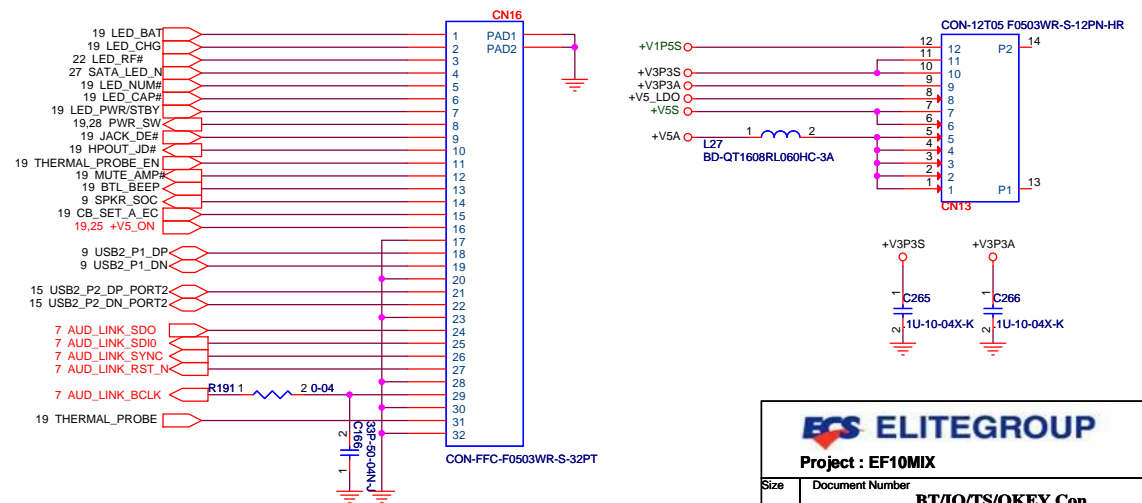
Touch panel

Sensor Hub



BT_EN = low disable BT.
BT_EN = high enable BT.

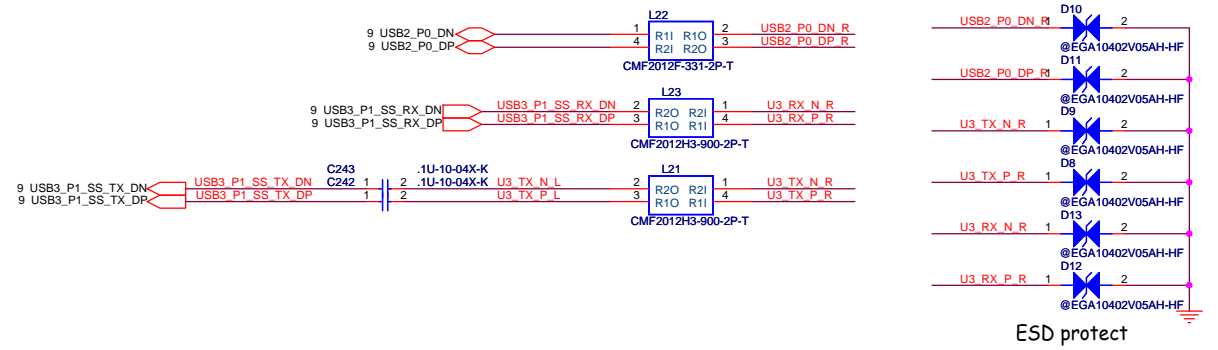
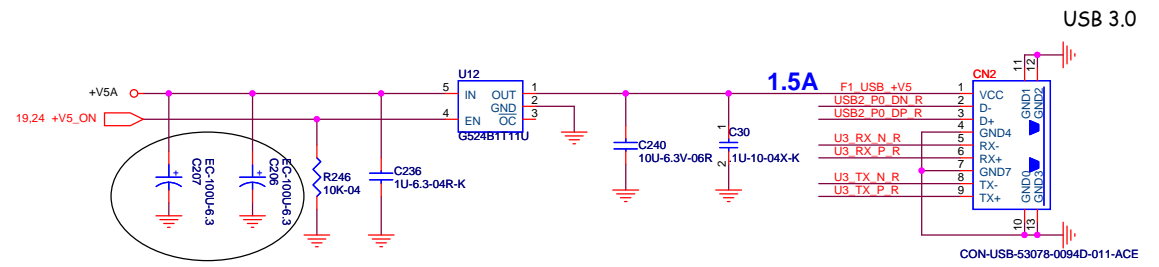
IO CONN.



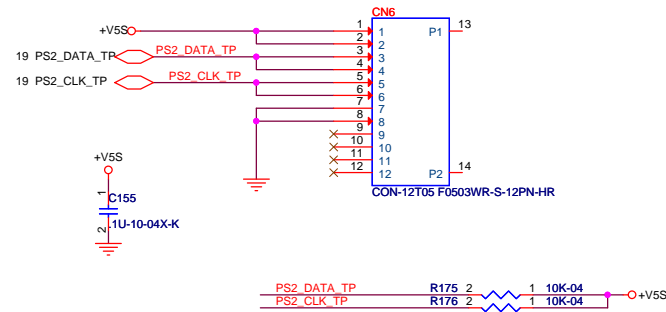
ELITEGROUP

Project : EF10MIX

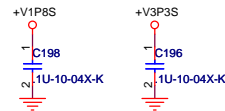
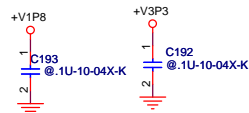
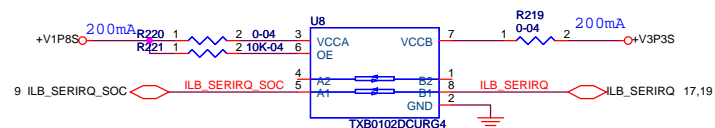
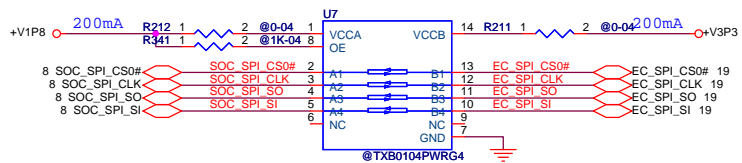
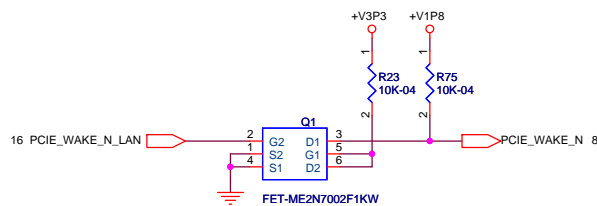
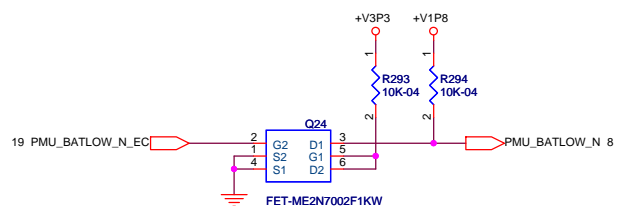
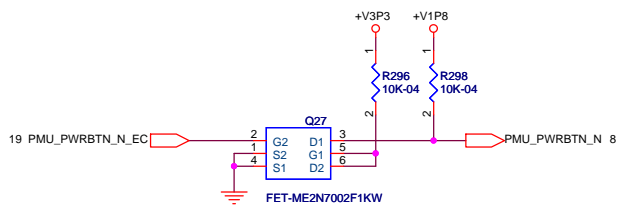
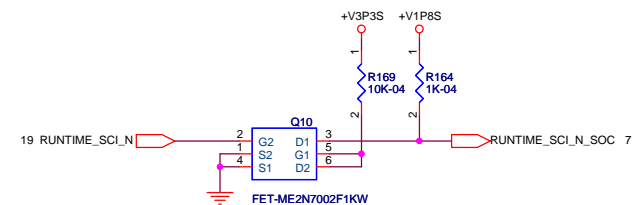
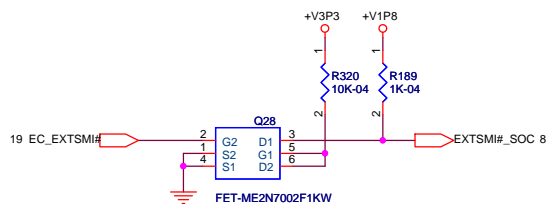
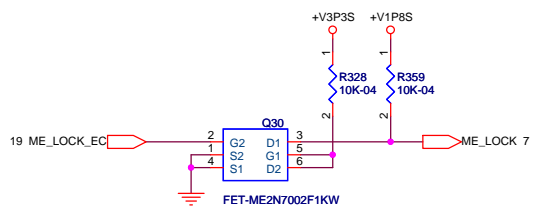
Size	Document Number	Rev
	BT/IO/TS/QKEY Con.	01
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Touch PAD



EC to SOC

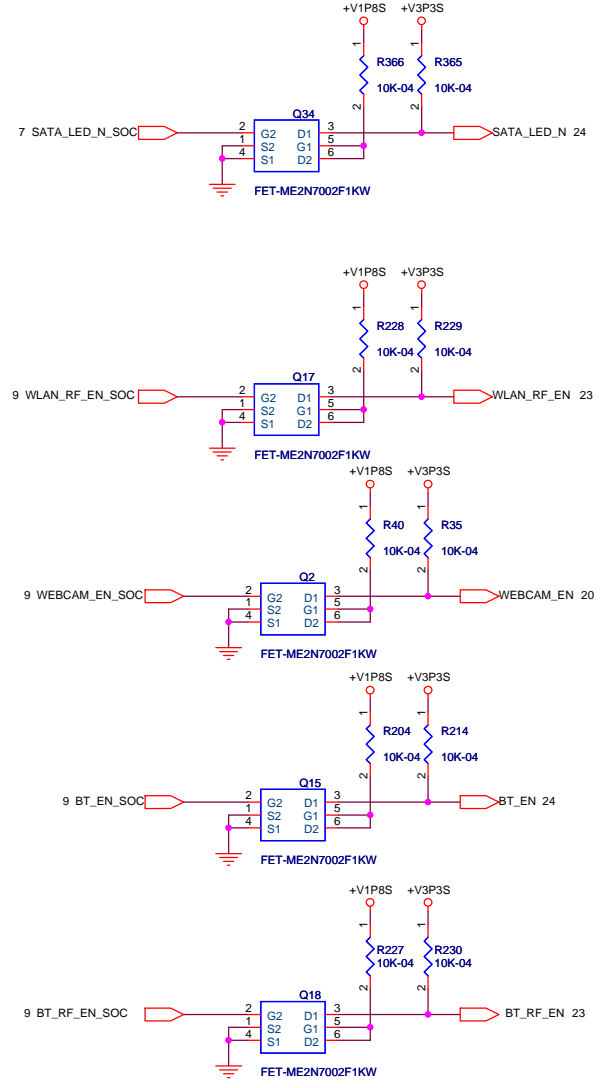
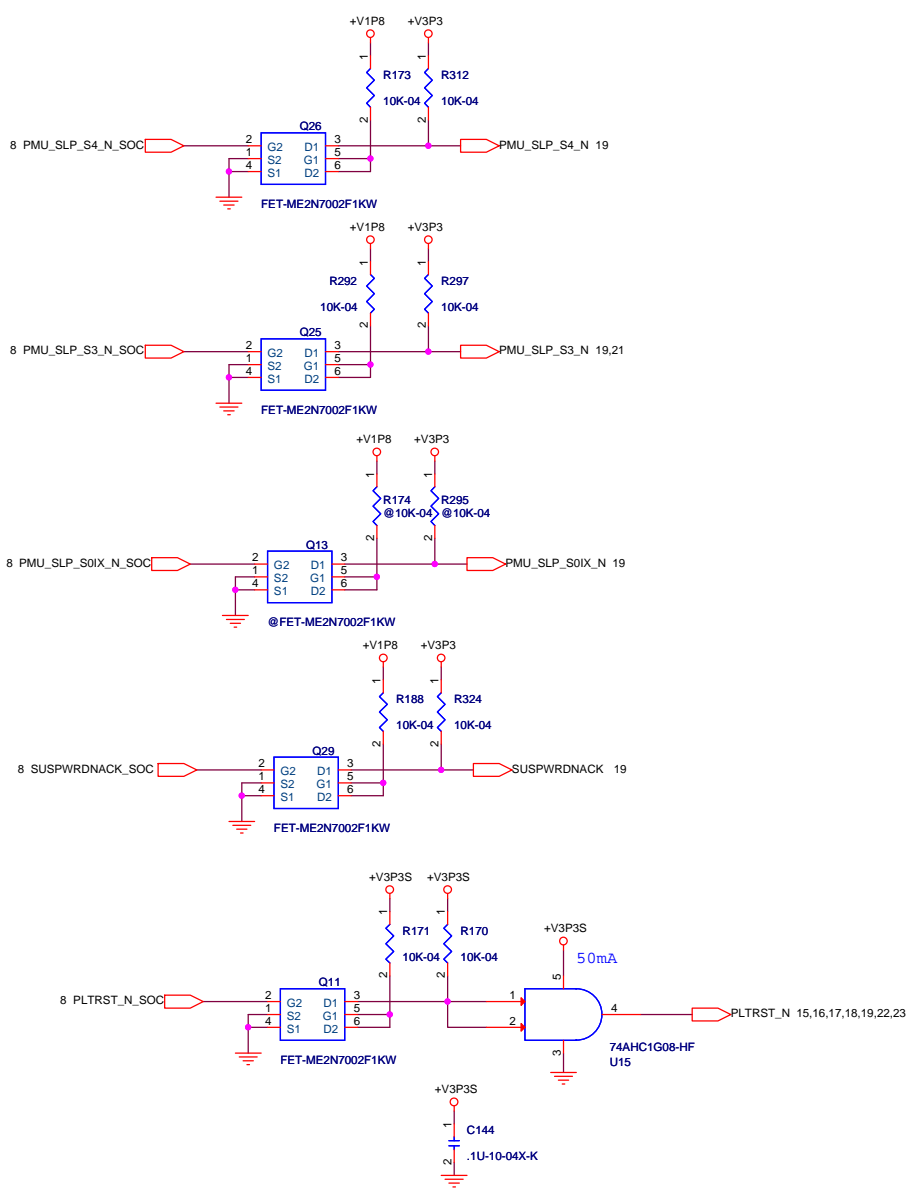


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SOC to EC

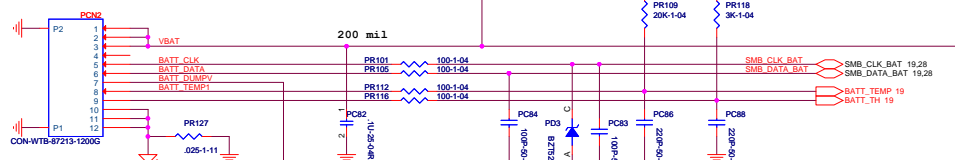


ELITEGROUP

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BAT IN

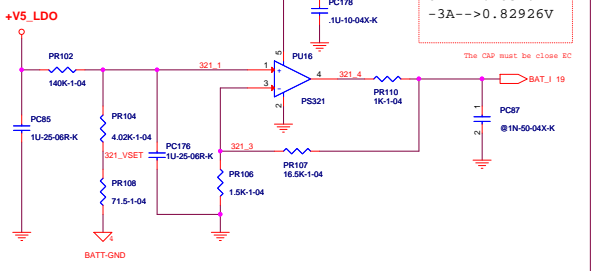
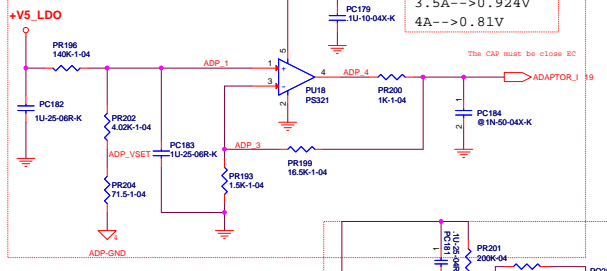
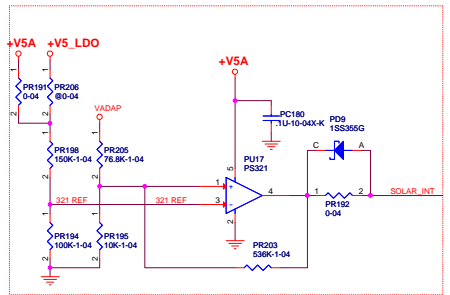


ADAPTOR_I

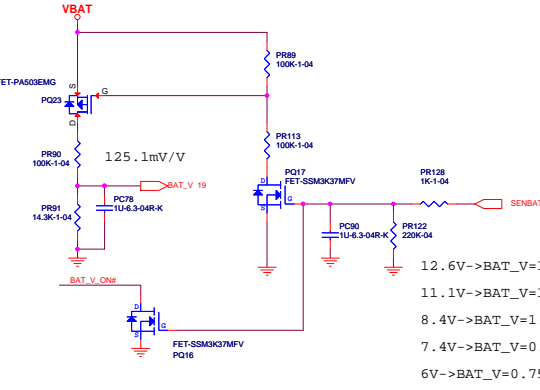
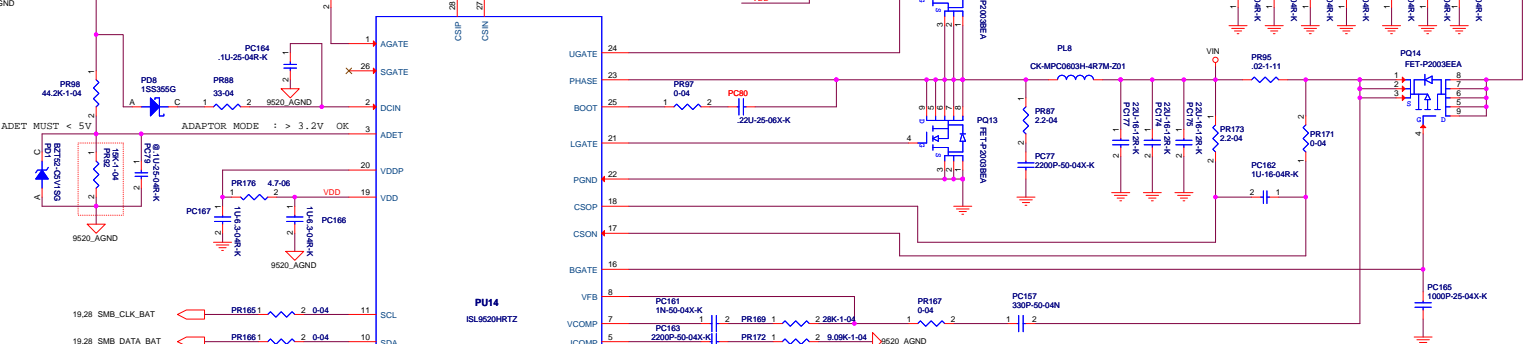
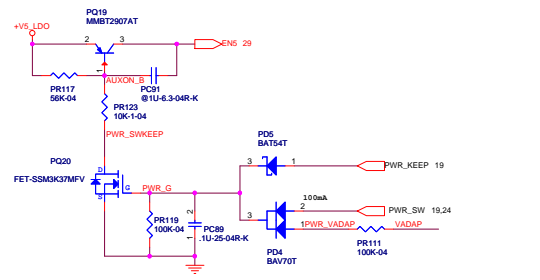
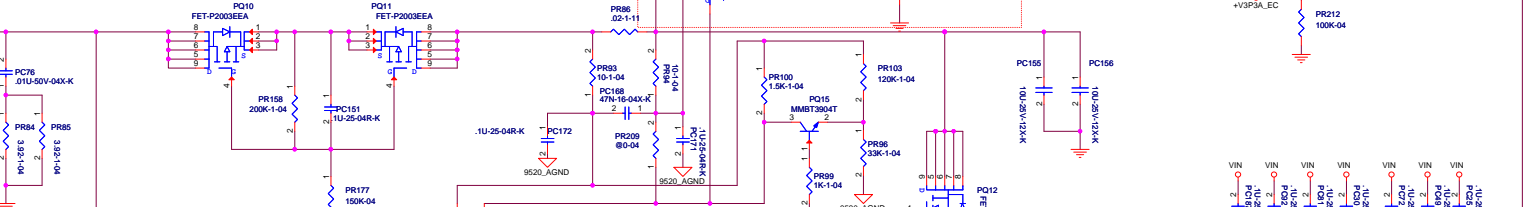
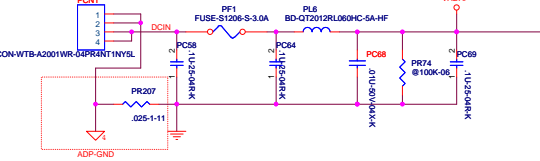
0A-->1.657V
 0.5A-->1.533V
 1A-->1.452V
 1.5A-->1.351V
 2A-->1.249V
 2.5A-->1.142V
 3A-->1.035V
 3.5A-->0.924V
 4A-->0.81V

Charge / Discharge Detect

6A-->0V
 5.5A-->2.57815V
 +2.5A-->2.4324V
 +2A-->2.2866V
 +1A-->1.99519V
 +0.25A-->1.7765V
 0A-->1.7037V
 -3A-->0.82926V



DC IN Conn

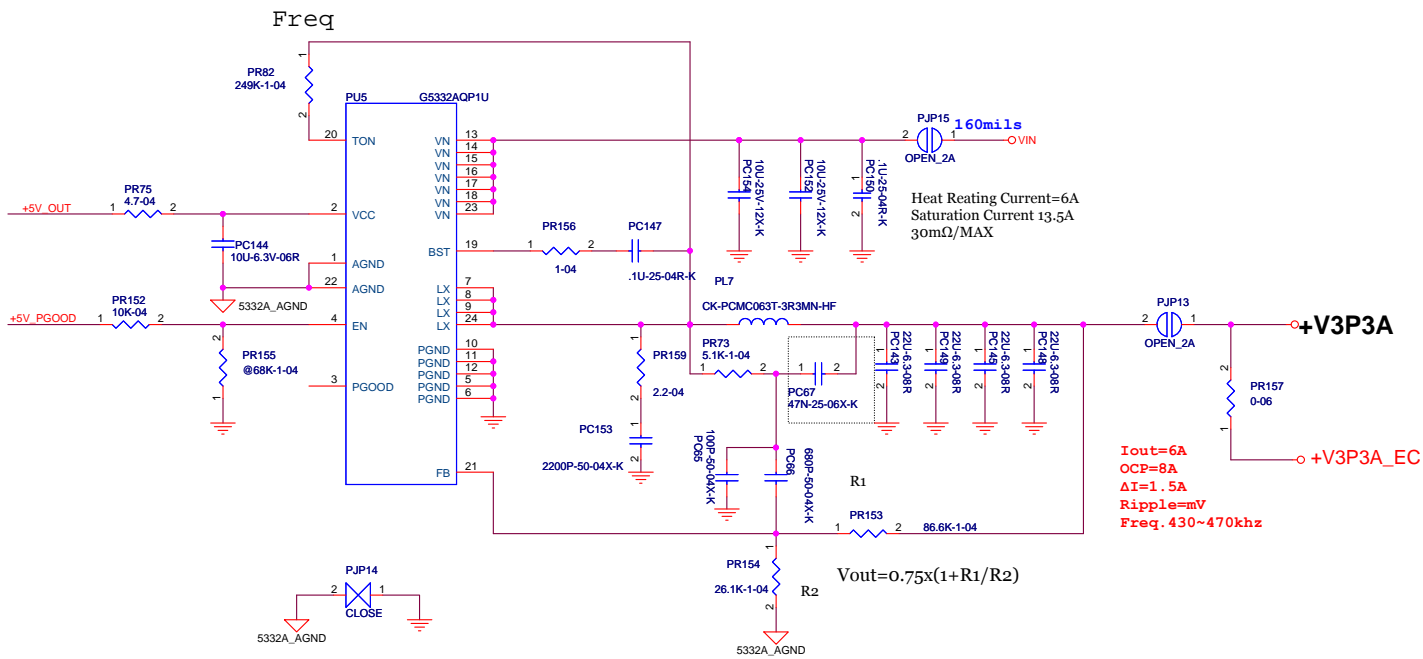
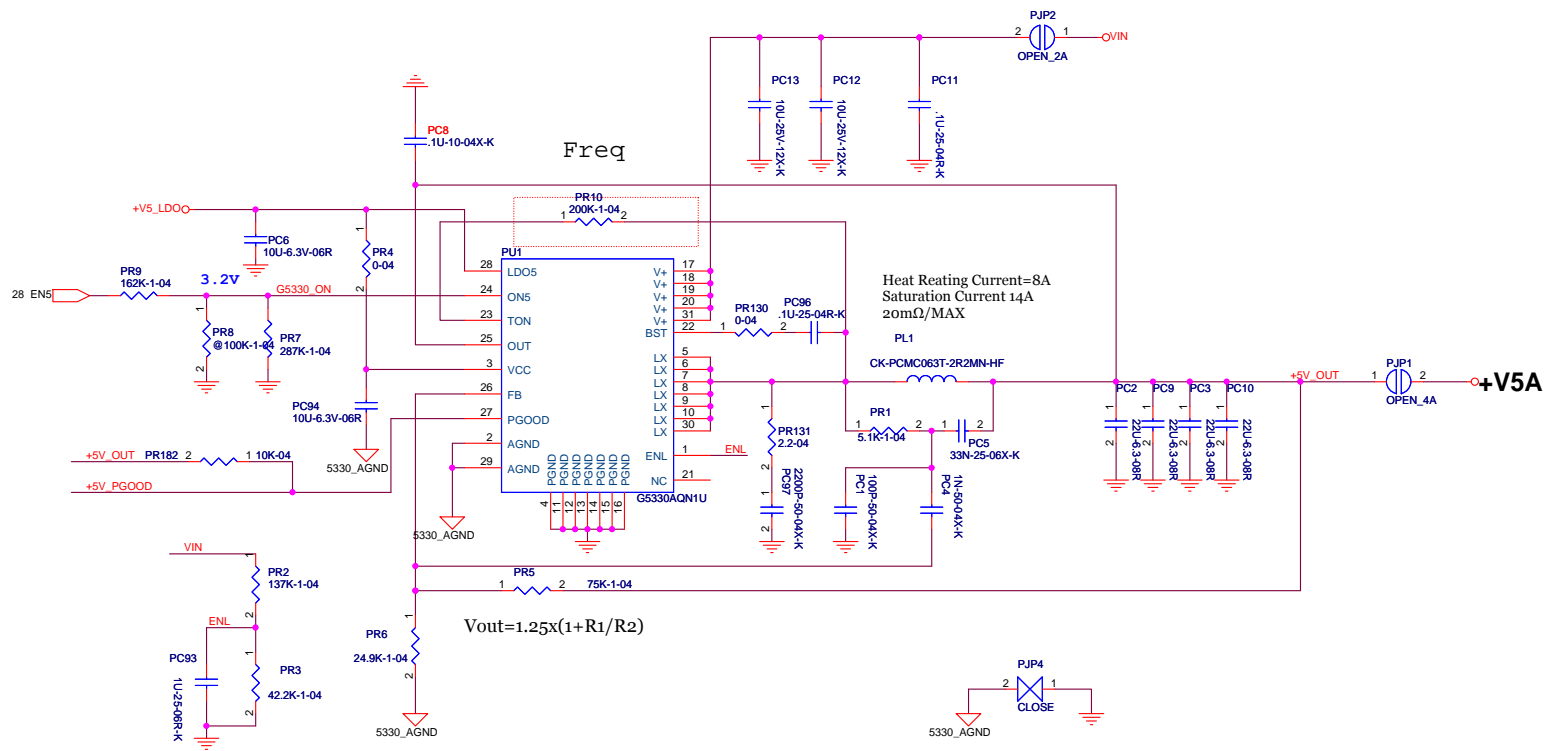


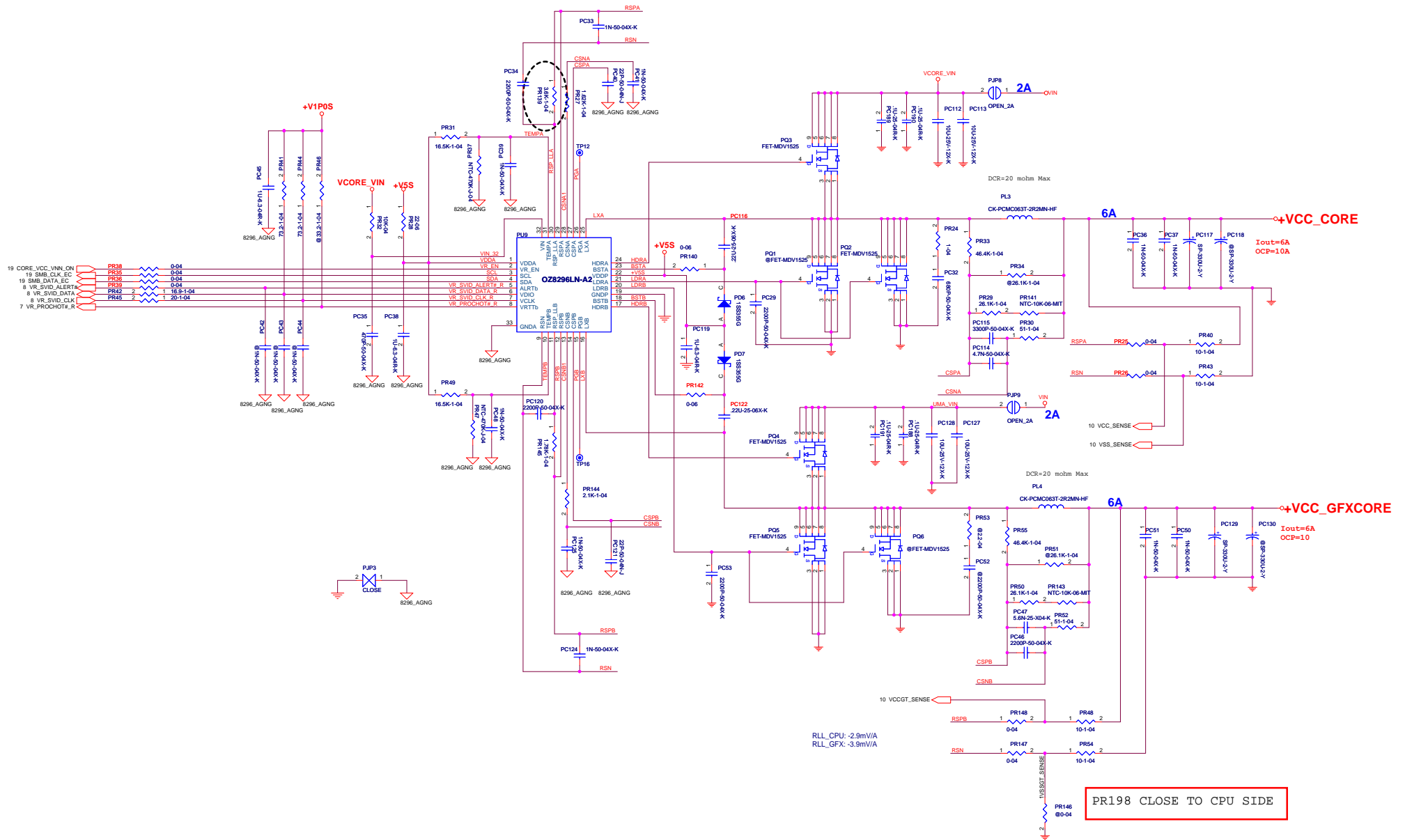
12.6V->BAT_V=1.576V
 11.1V->BAT_V=1.388V
 8.4V->BAT_V=1.05V
 7.4V->BAT_V=0.9258V
 6V->BAT_V=0.75V

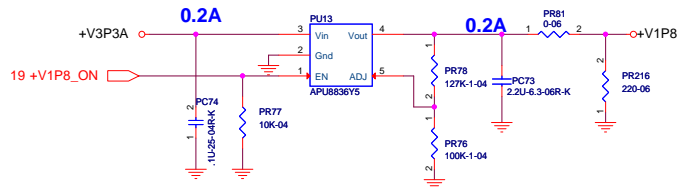
3.3VAA

PIN 6 Cell Float 4cell ,Pull VSM3 3cell ,pulling low 2-cell

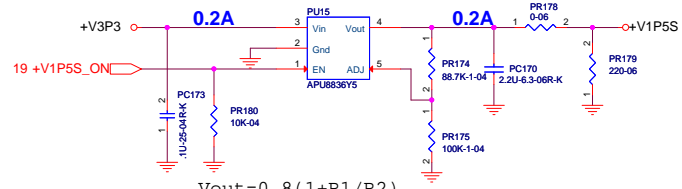
BATTERY DISCHARGE CURRENT : RESERVE TEST POINT AS ADAPTOR_I CONNECT TO EC ADC PIN



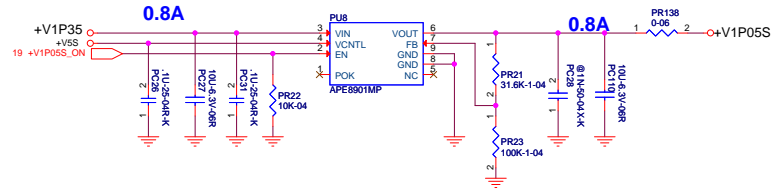
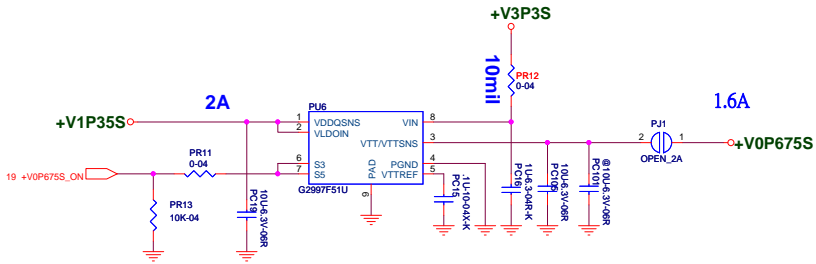




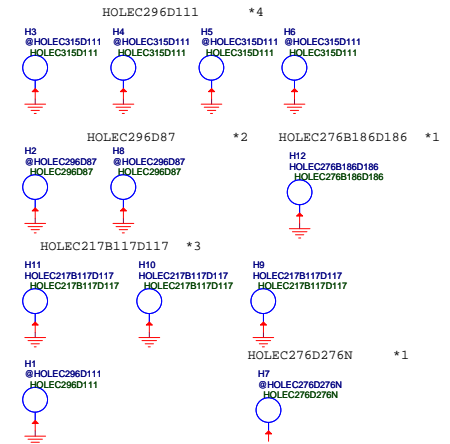
$$V_{out} = 0.8(1 + R1/R2)$$

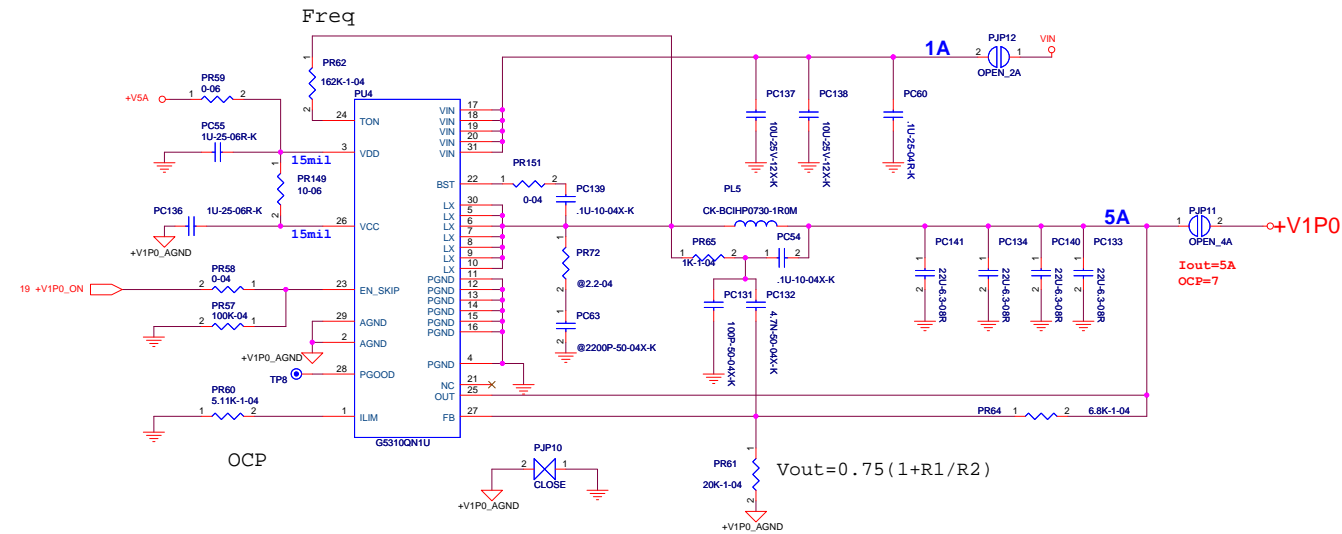
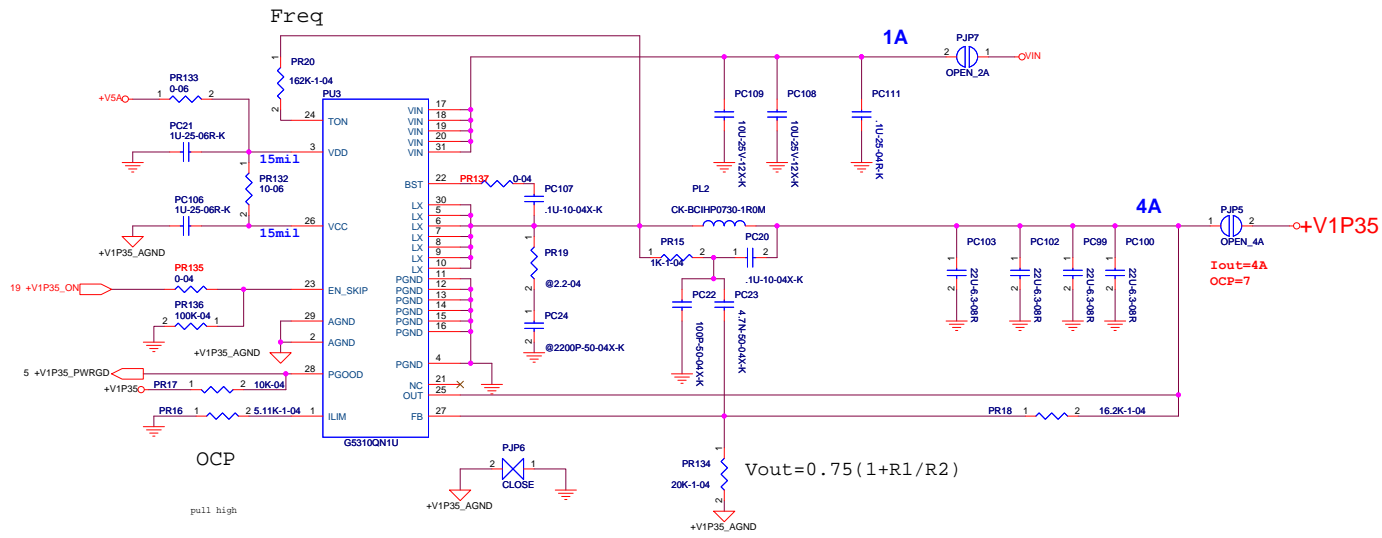


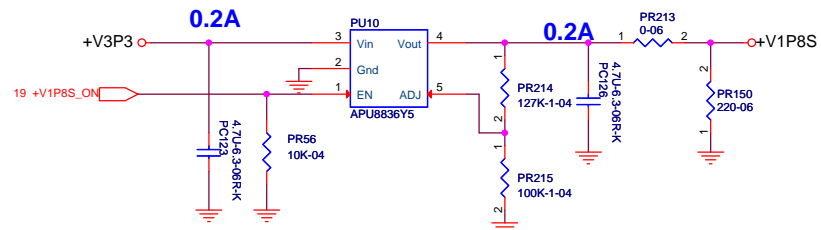
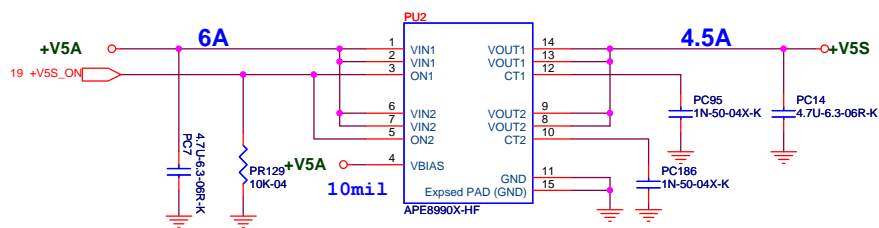
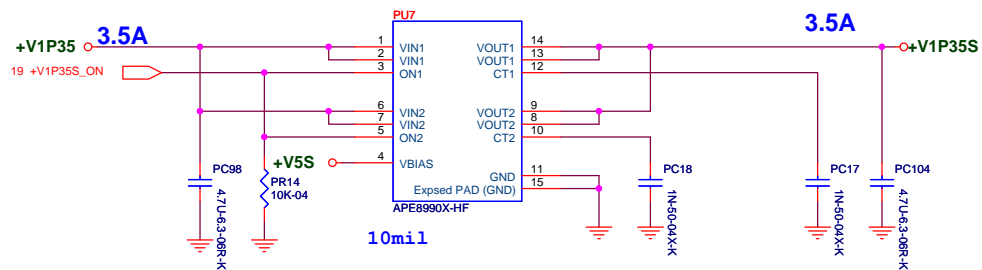
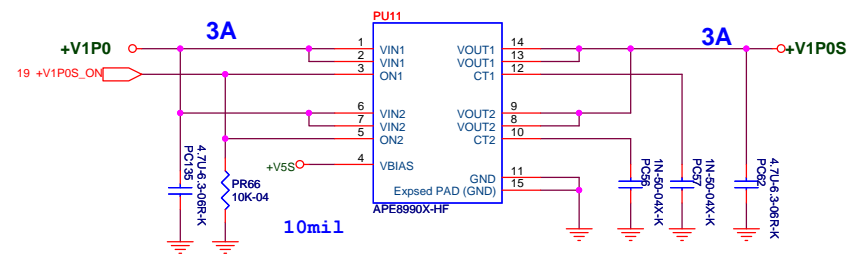
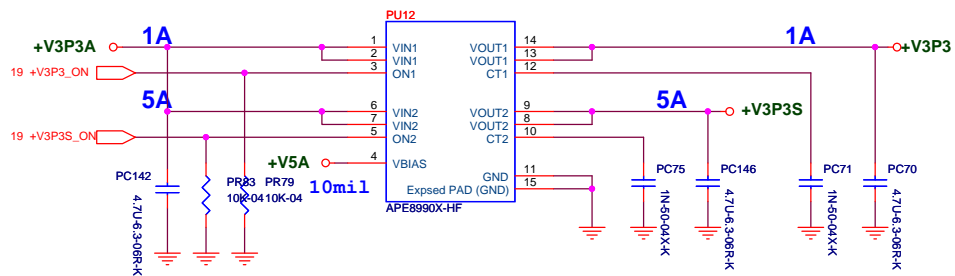
$$V_{out} = 0.8(1 + R1/R2)$$



$$V_{out} = 0.8(1 + R1/R2)$$





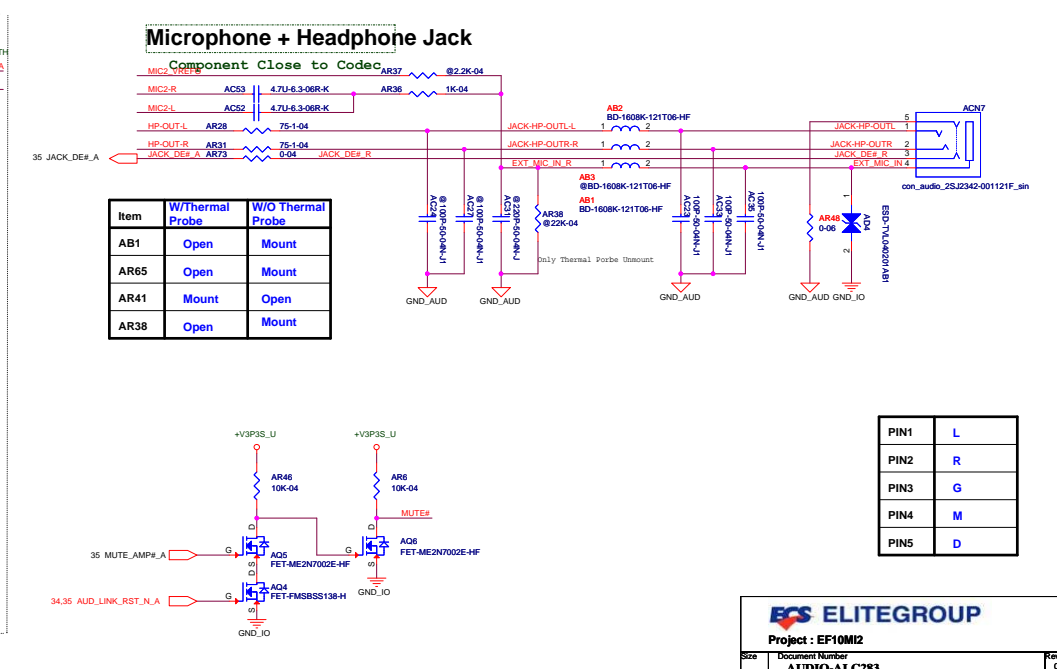
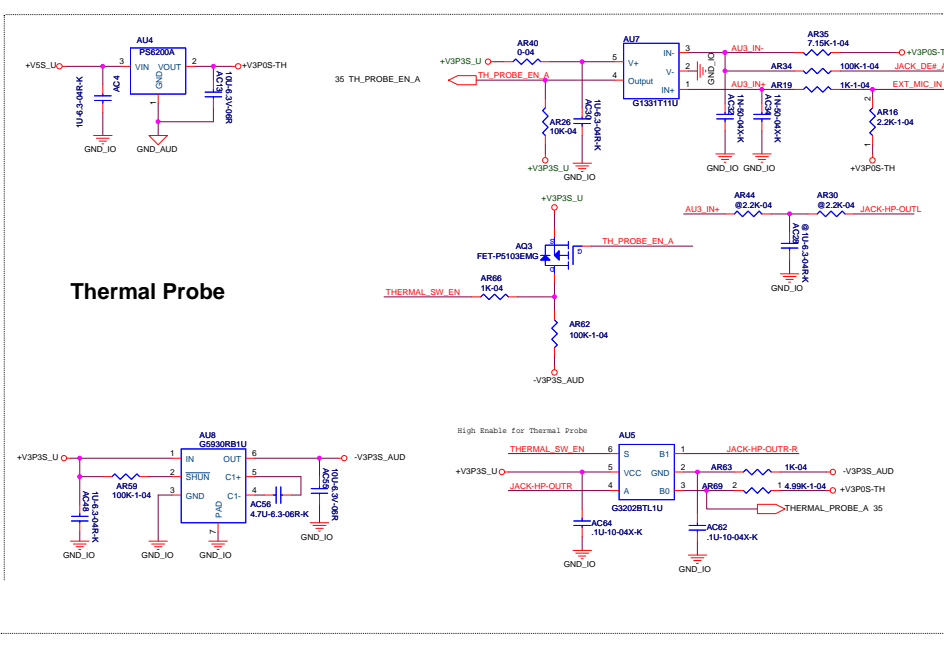
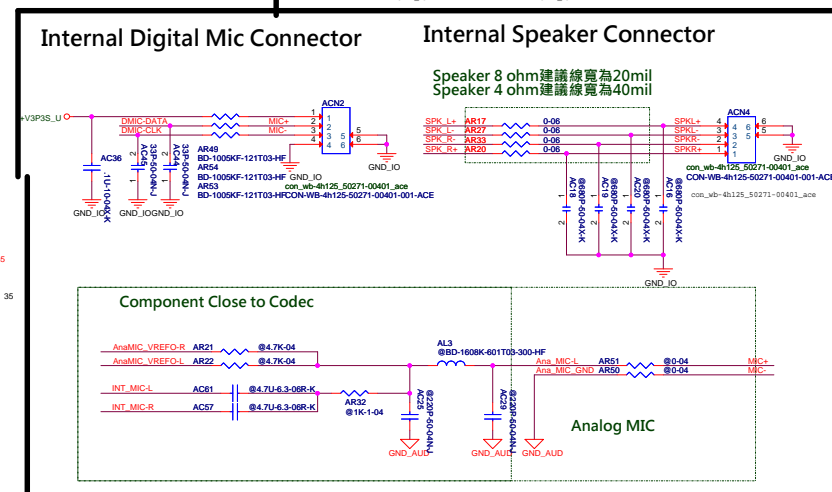
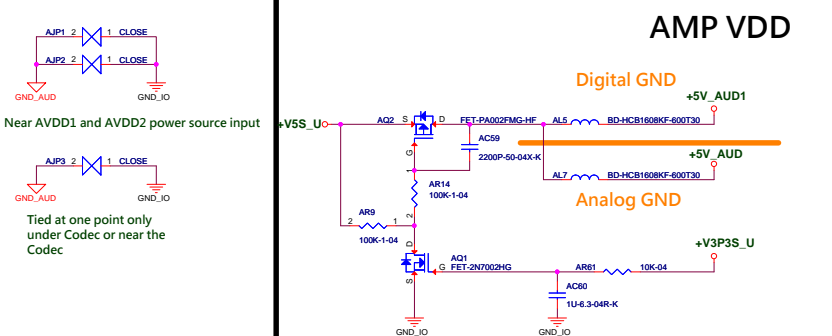
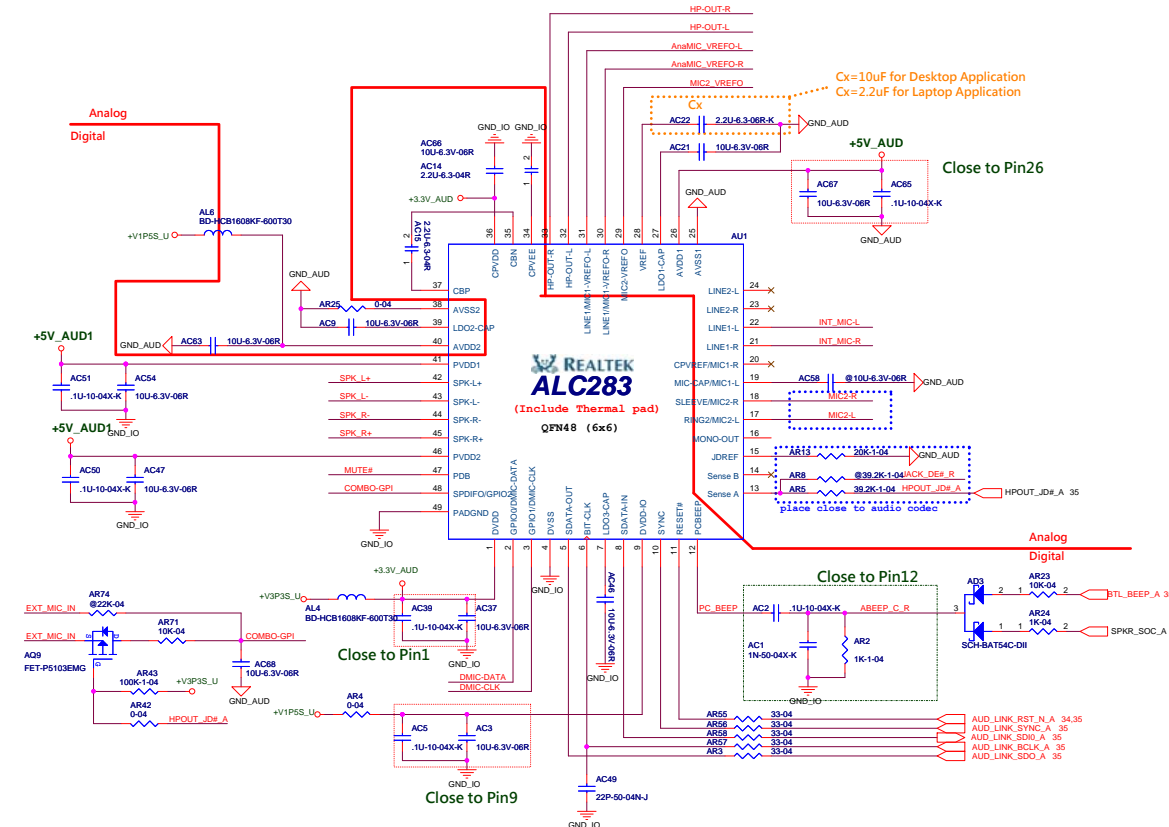


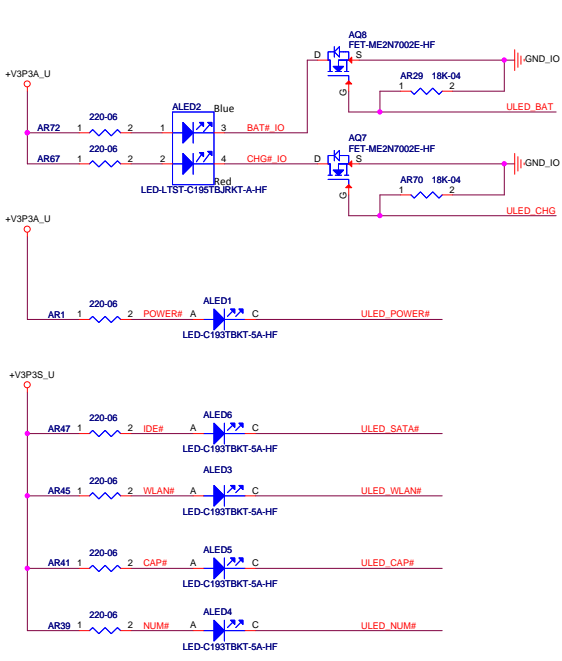
$$V_{out} = 0.8(1 + R1/R2)$$



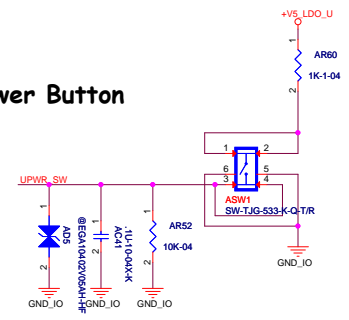
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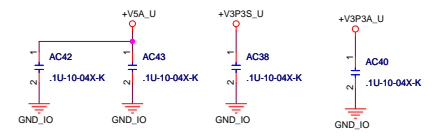
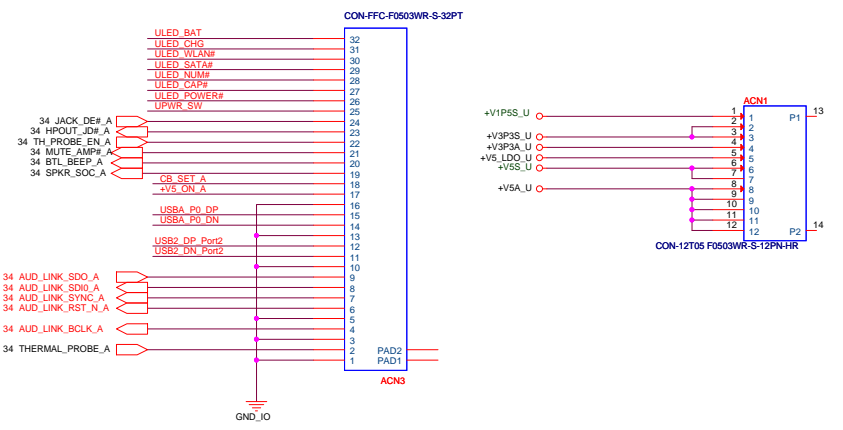




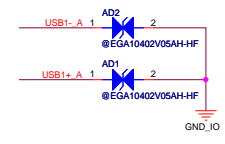
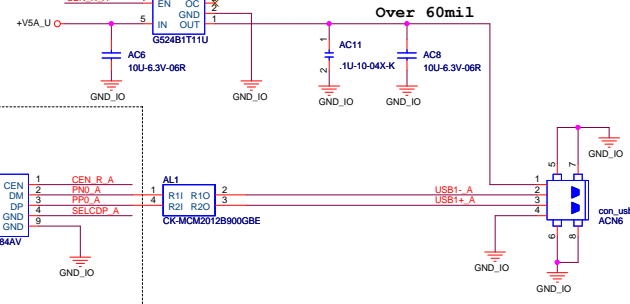
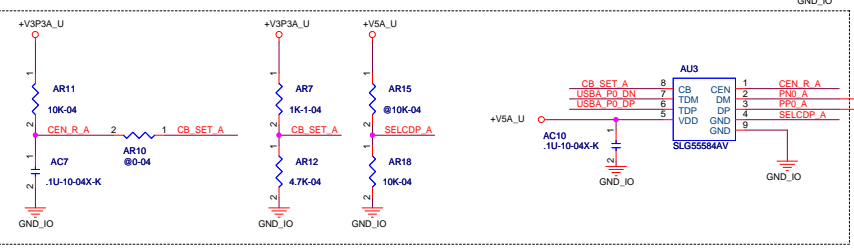
Power Button



USB_LED CONN.



USB R-Port



IO CONN.

USB_A_P0_DN	AR64	1	2	@0-04	P0N_A
USB_A_P0_DP	AR65	1	2	@0-04	PP0_A
+V5_ON_A	AR75	1	2	@0-04	CEN_R_A

