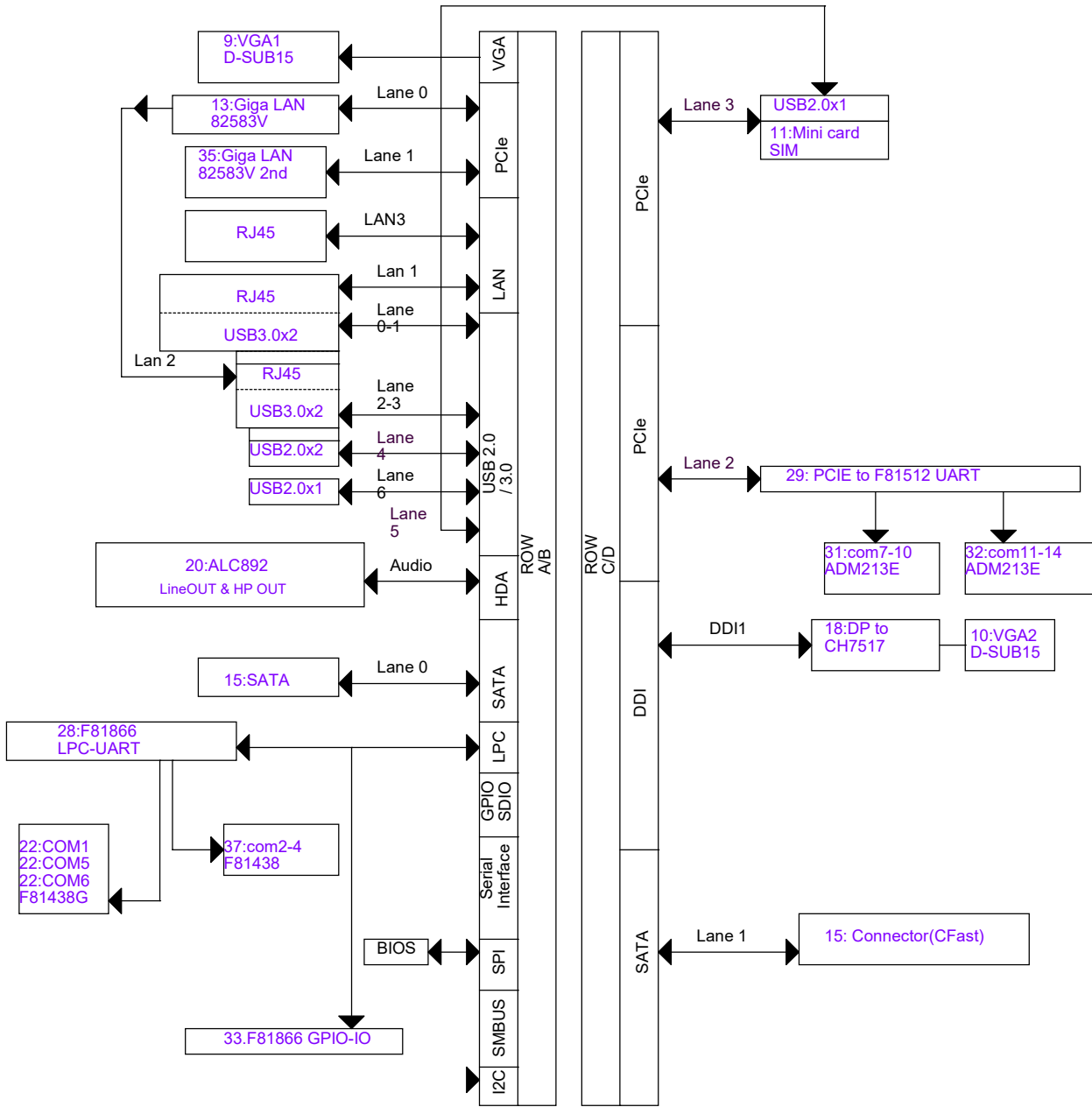


COVER

COM Express

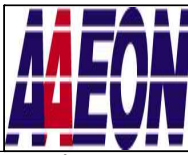


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3	12V MAIN POWER	33	F81866D- GPIO
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10	VGA-2 CONNECT	40	History
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27	Backup		
28	LPC-UART_F81866		
29	PCI-E2-UART_F81512		
30	Backup		

Project Number :1907631304

Production Name : DTXP-6313M

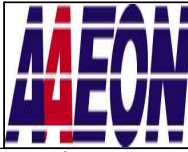
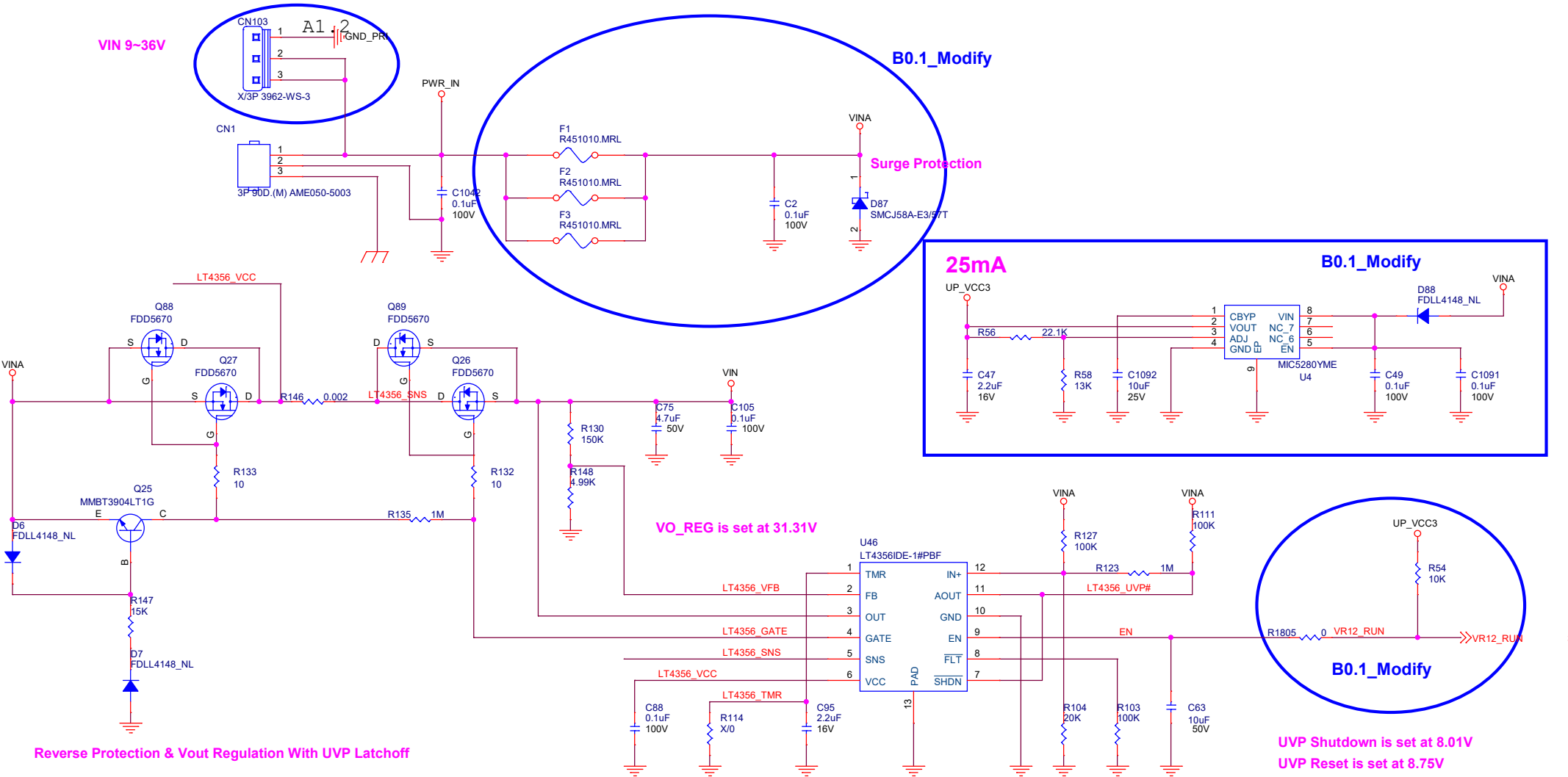
Date:2019.11.22



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Title	COVER	Design
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Filter & Protection



AAEON TECHNOLOGY CO.			
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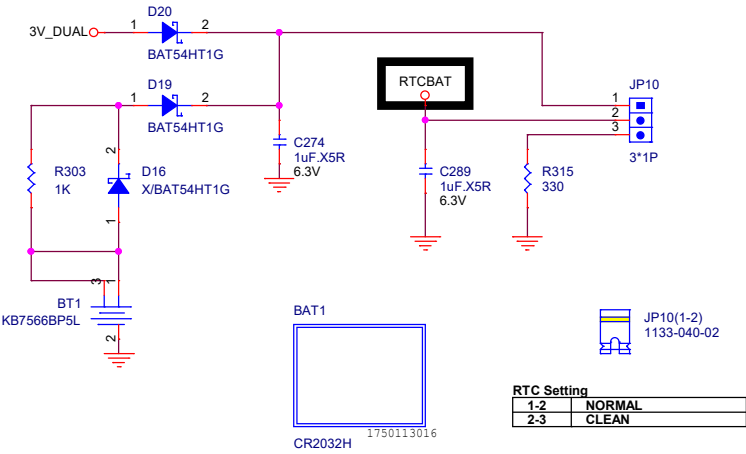
3.3V\_DUAL



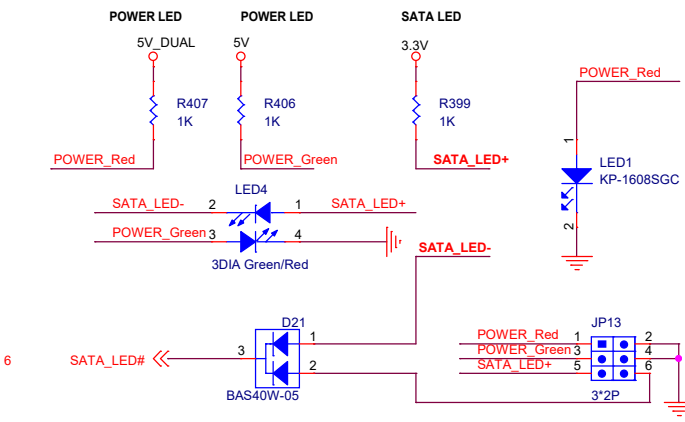
5V\_DUAL



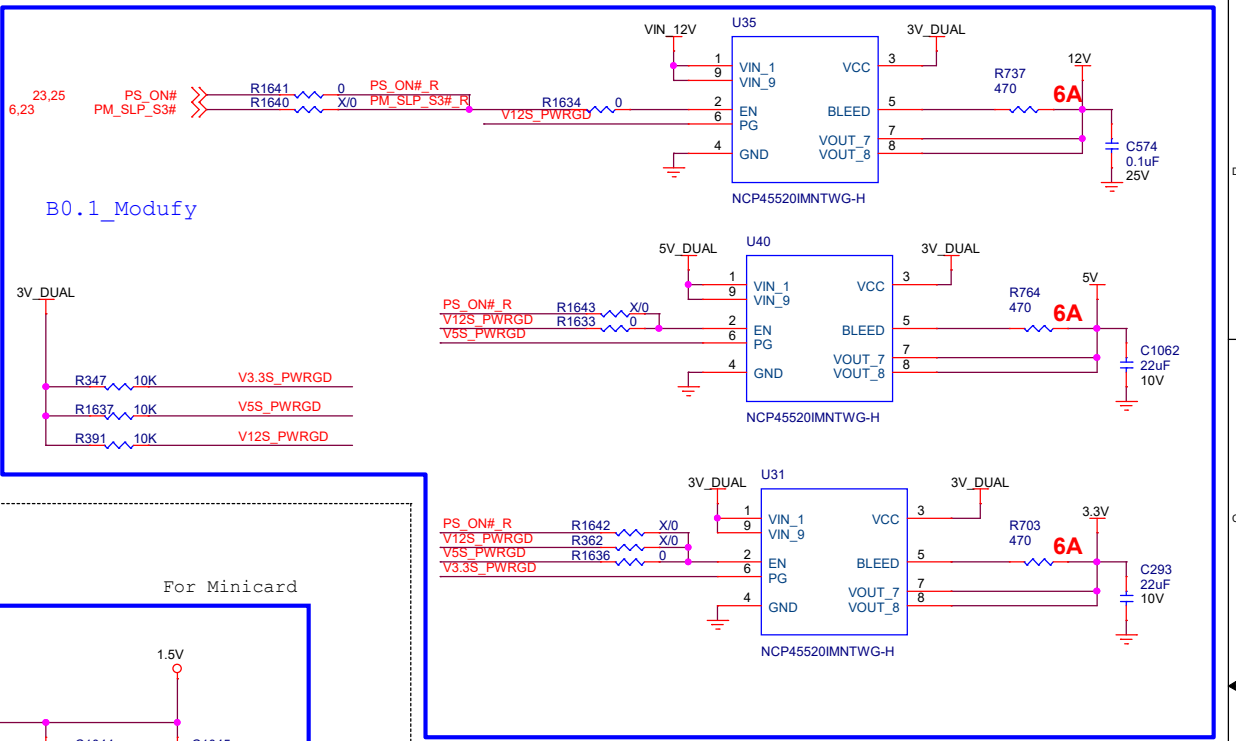
RTCBAT



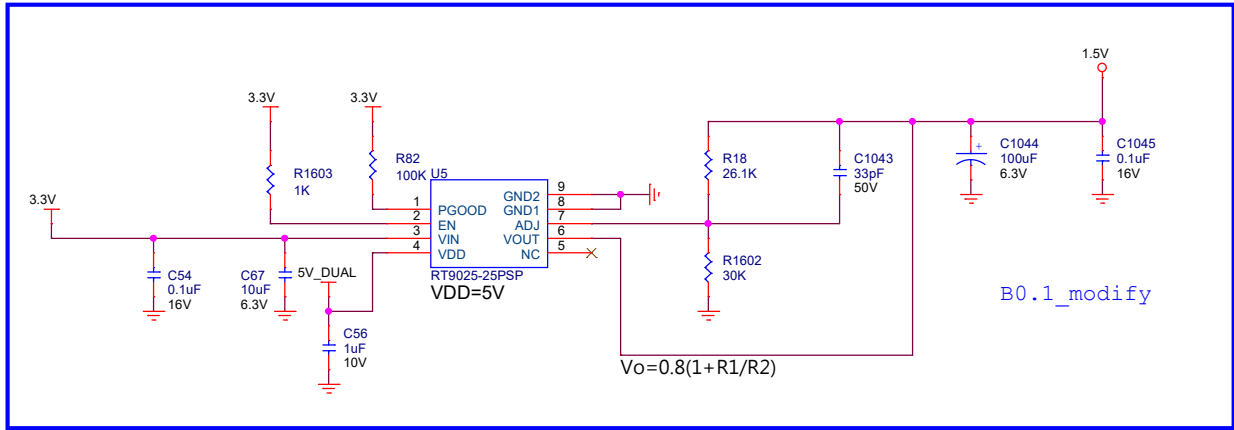
# LED



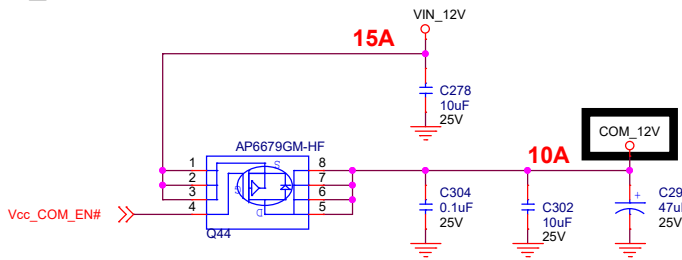
# 12V\_5V\_3V



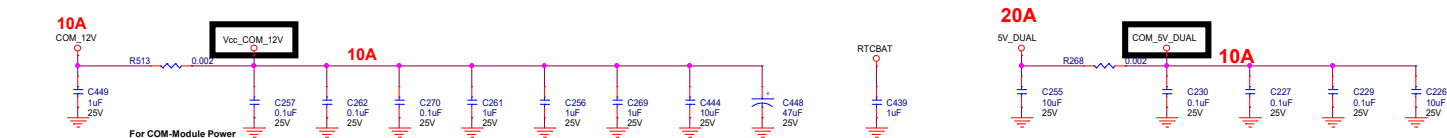
# 1.5V

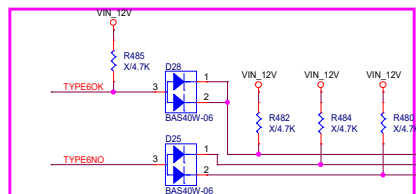


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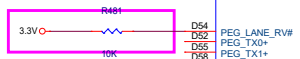
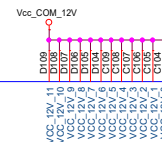


## OW A/B CONNECTOR

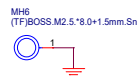
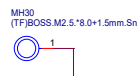
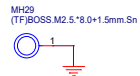


**ROW C/D CONNECTOR**

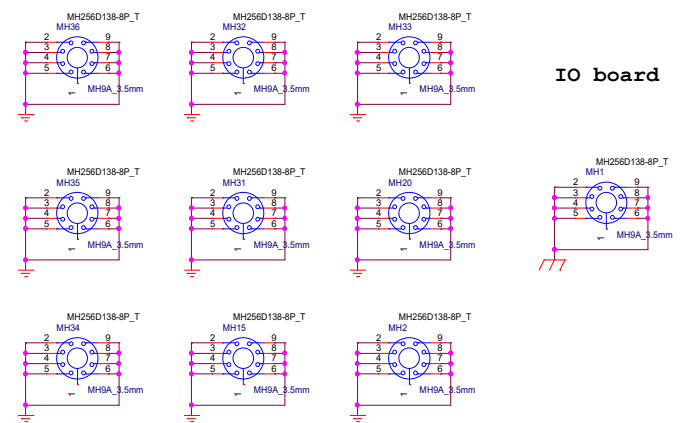
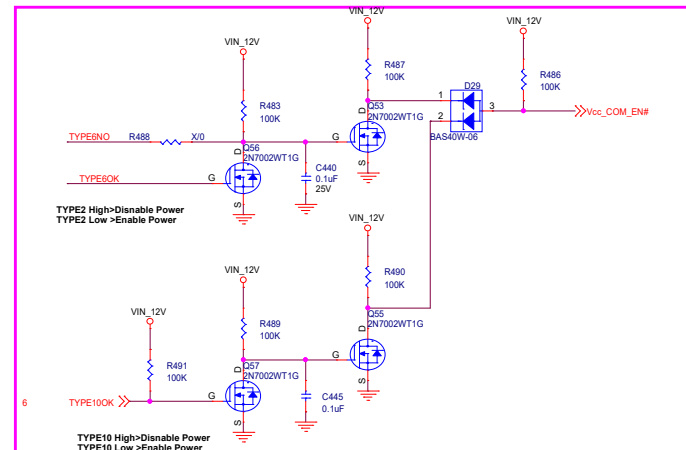
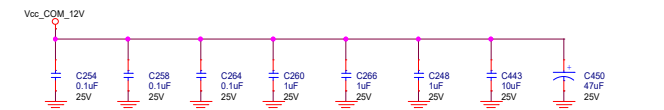
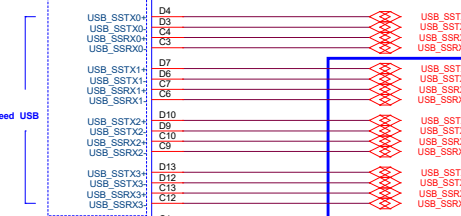
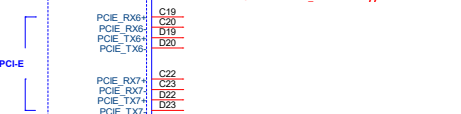
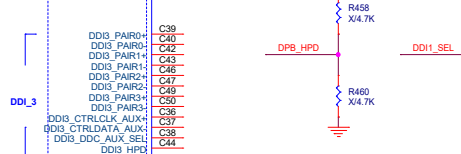
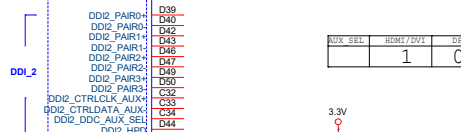
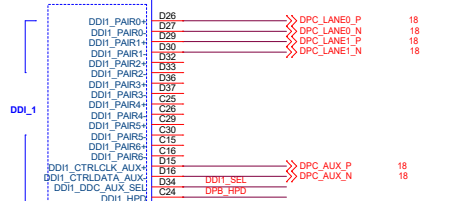
**Voltage Input +12V**



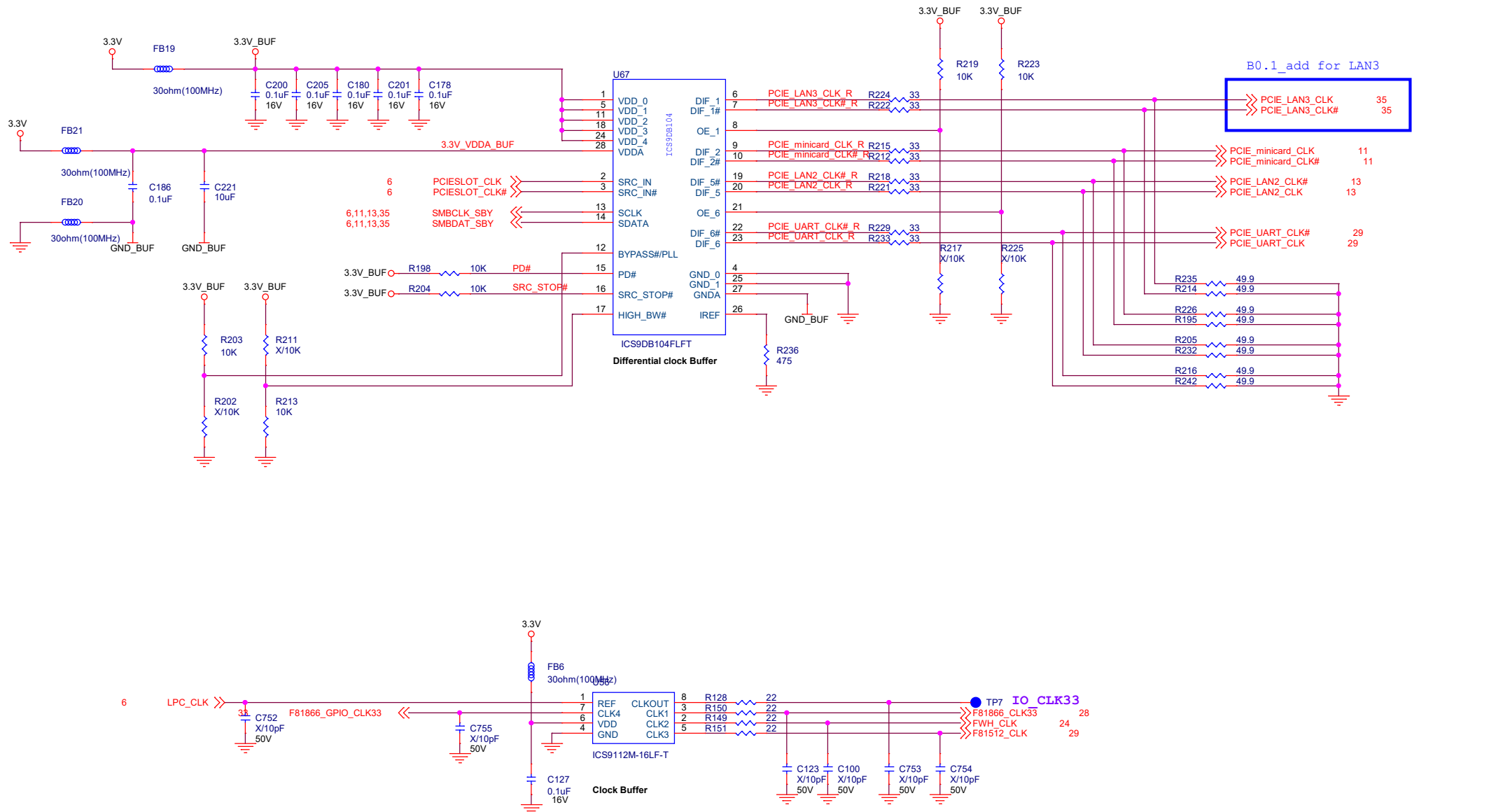
### For CPU Module



Type 6  
RowC & DowD  
PN = 1654M0201

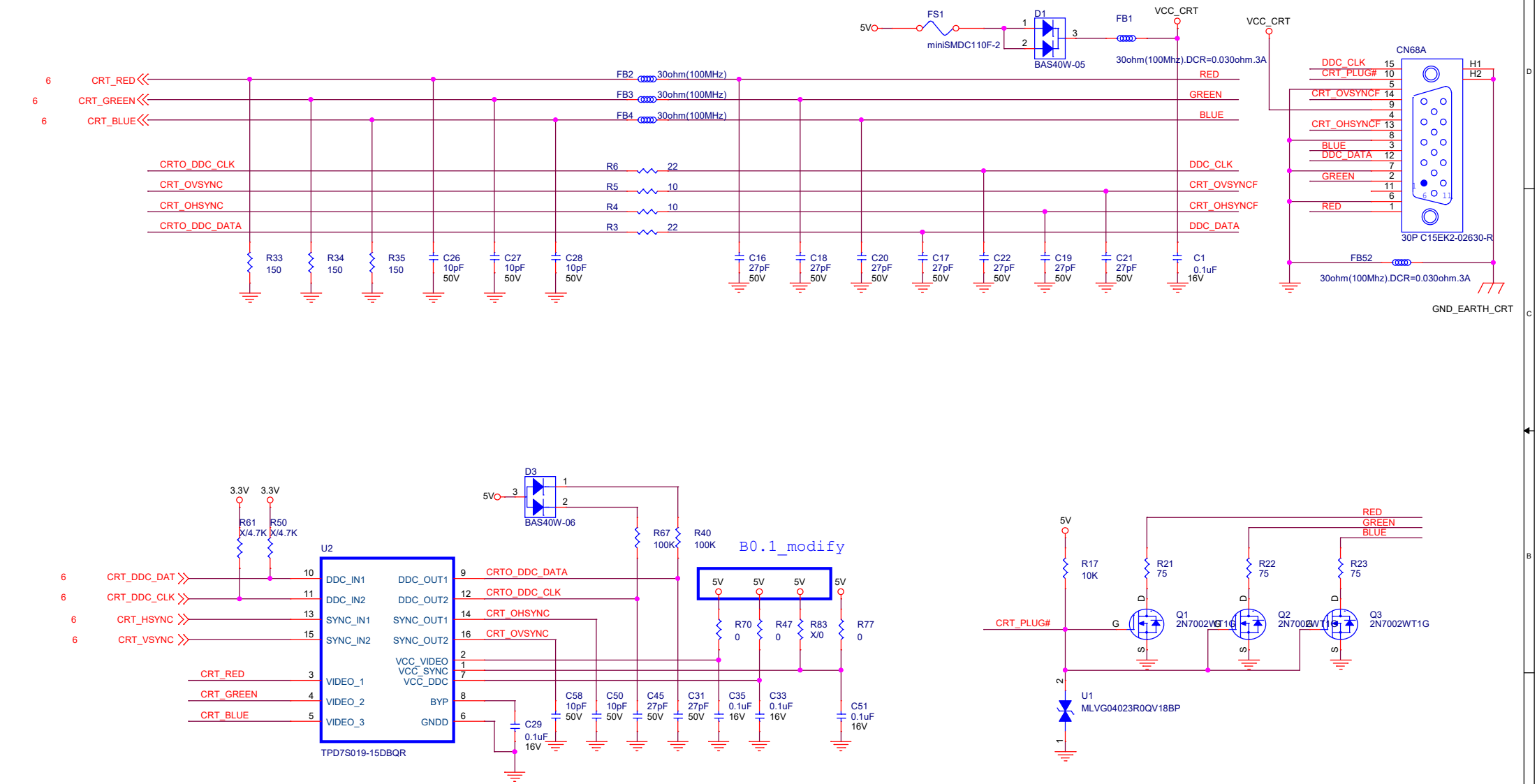


# CLOCK BUFFERS

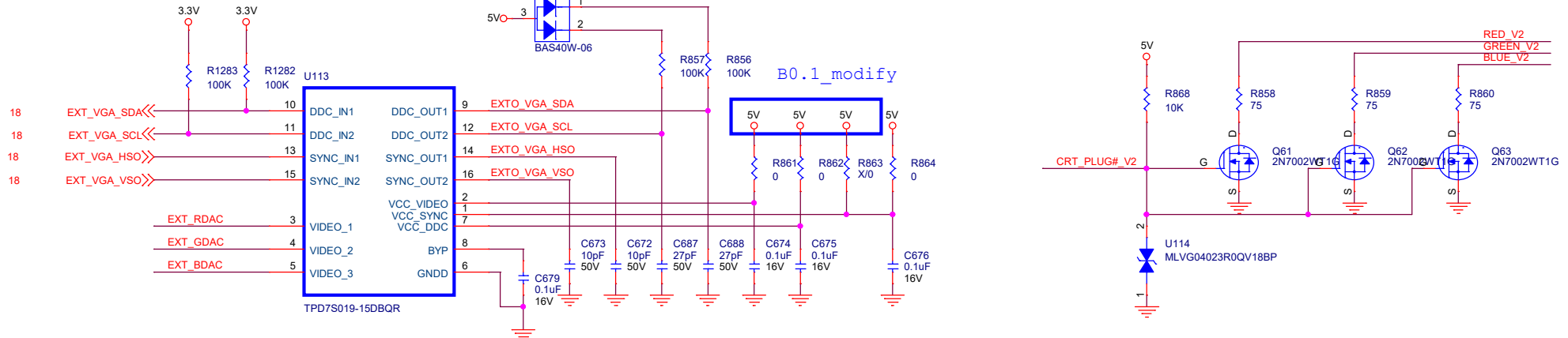
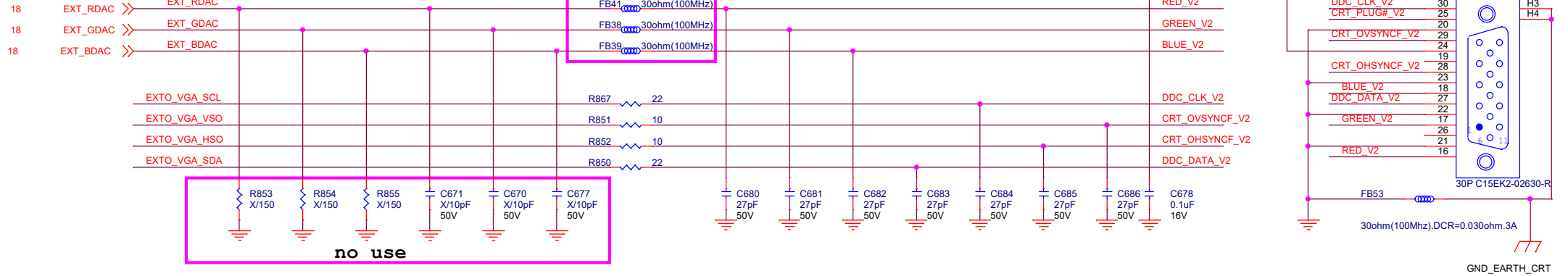




CRT-VGA1



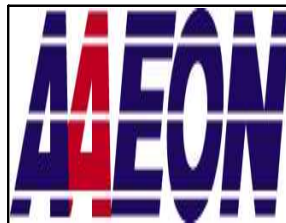
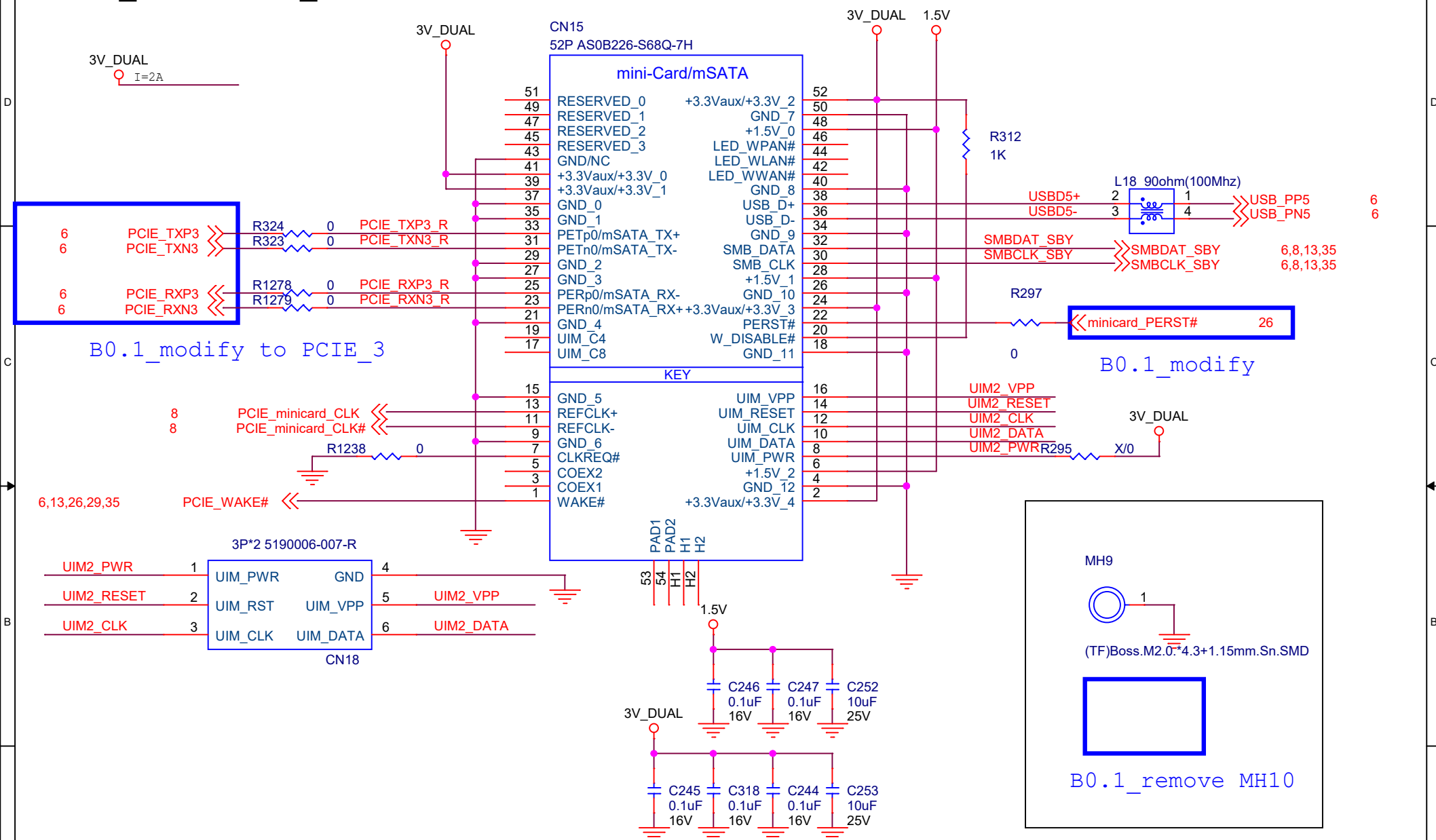
## VGA-2 CONNECT



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Title <b>VGA-2 CONNECT</b>		Design allen-yang	
Size <b>B</b>	Page Name <b>DTXP-6313M</b>	Rev <b>B0.1</b>	
Date: <b>Friday, November 22, 2019</b>		Sheet <b>10</b> of <b>40</b>	

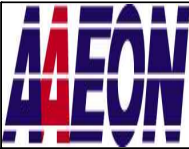
## PCIE3\_MINI CARD\_SIM



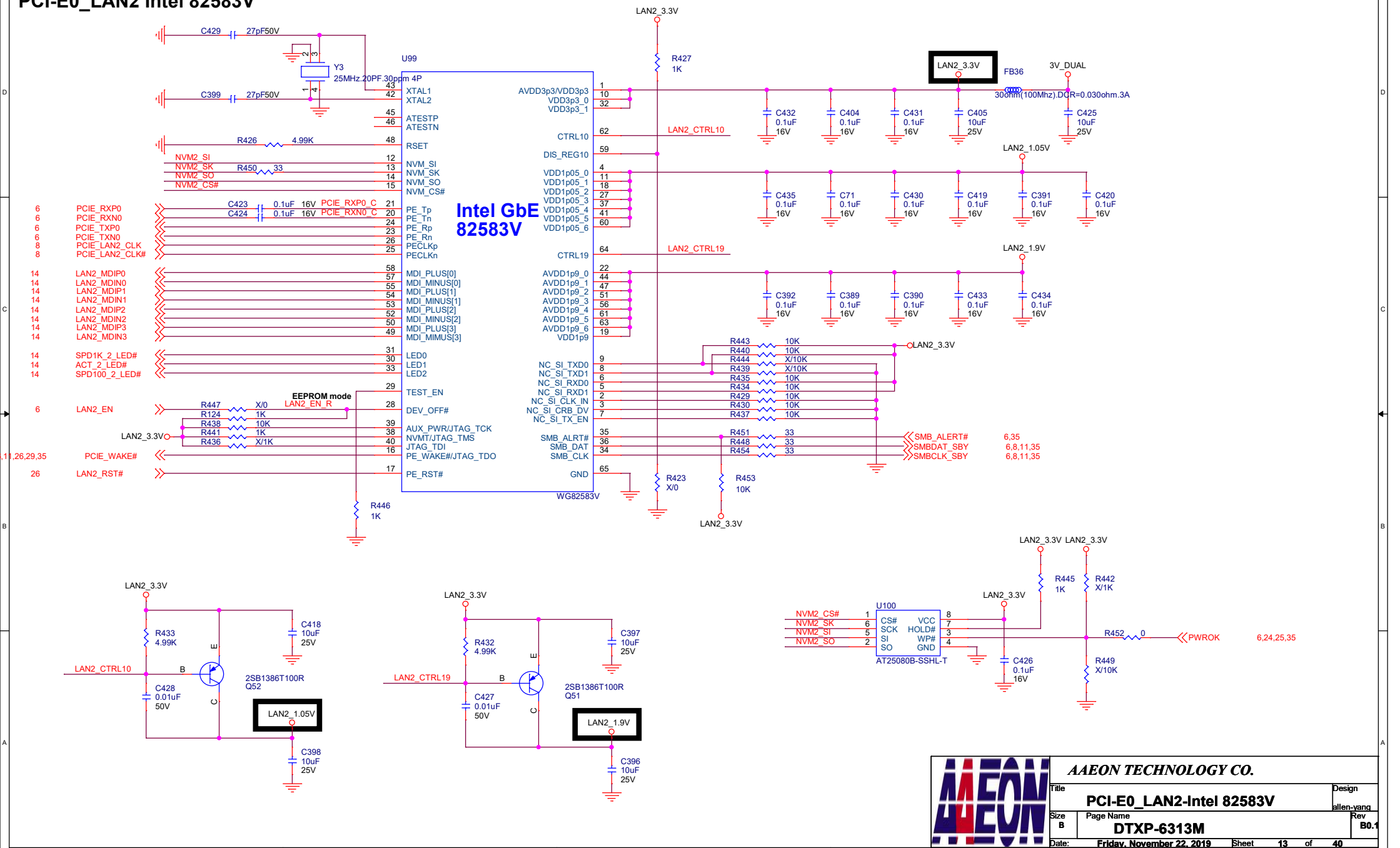
**AAEON TECHNOLOGY CO.**

Title		Design	
PCI-E3-MINI CARD 1_SIM		allen-yang	
Size A	Page Name	Rev	
	DTXP-6313M	B0.1	
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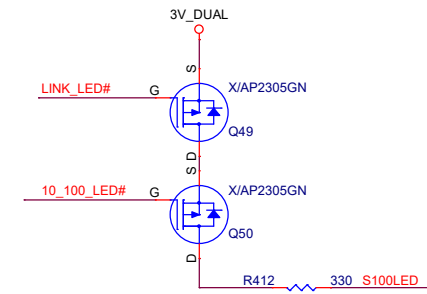
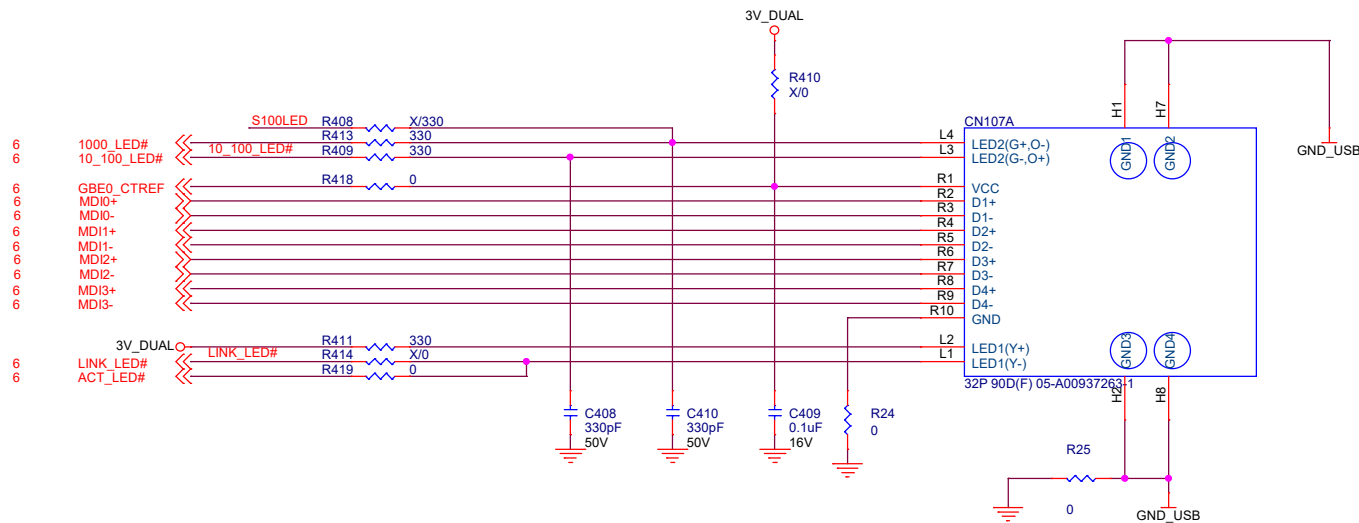
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D					
C					
B					
A					
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		AAEON TECHNOLOGY CO.		
Title		Backup		Design allen-yang
Size B	Page Name DTXP-6313M		Rev B0.1	
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## PCI-E0\_LAN2 Intel 82583V



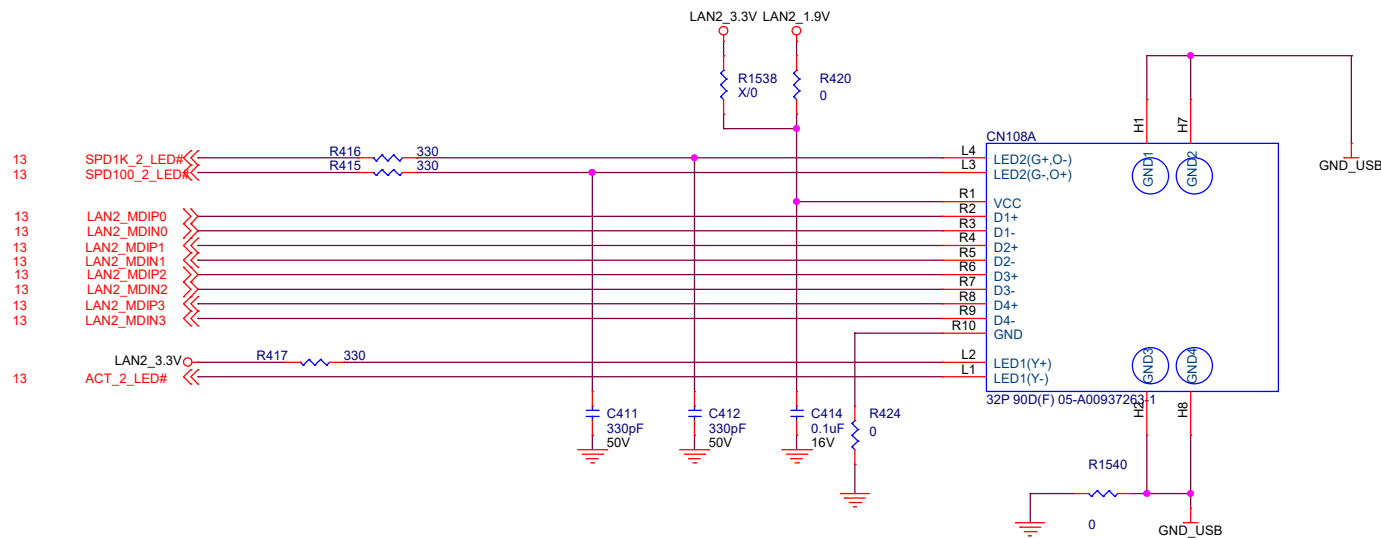
LAN1 RJ45 from CPU module



LEDs	Mode	Function
LED0	0111	LINK 1000
LED1	0100	LINK/ACTIVITY
LED2	0110	LINK 100

Description	Function	LED
LINK SPEED (GRN/ORG LED)	10M 100M 1000M	OFF GREEN Light Orange light
LINK Status & Activity (YEL LED)	No link Connected Active	OFF YEL Steady on YEL blink

LAN2 RJ45 from Intel 82583V



LEDs	Mode	Function
LED0	0111	LINK 1000
LED1	0100	LINK/ACTIVITY
LED2	0110	LINK 100

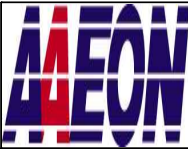
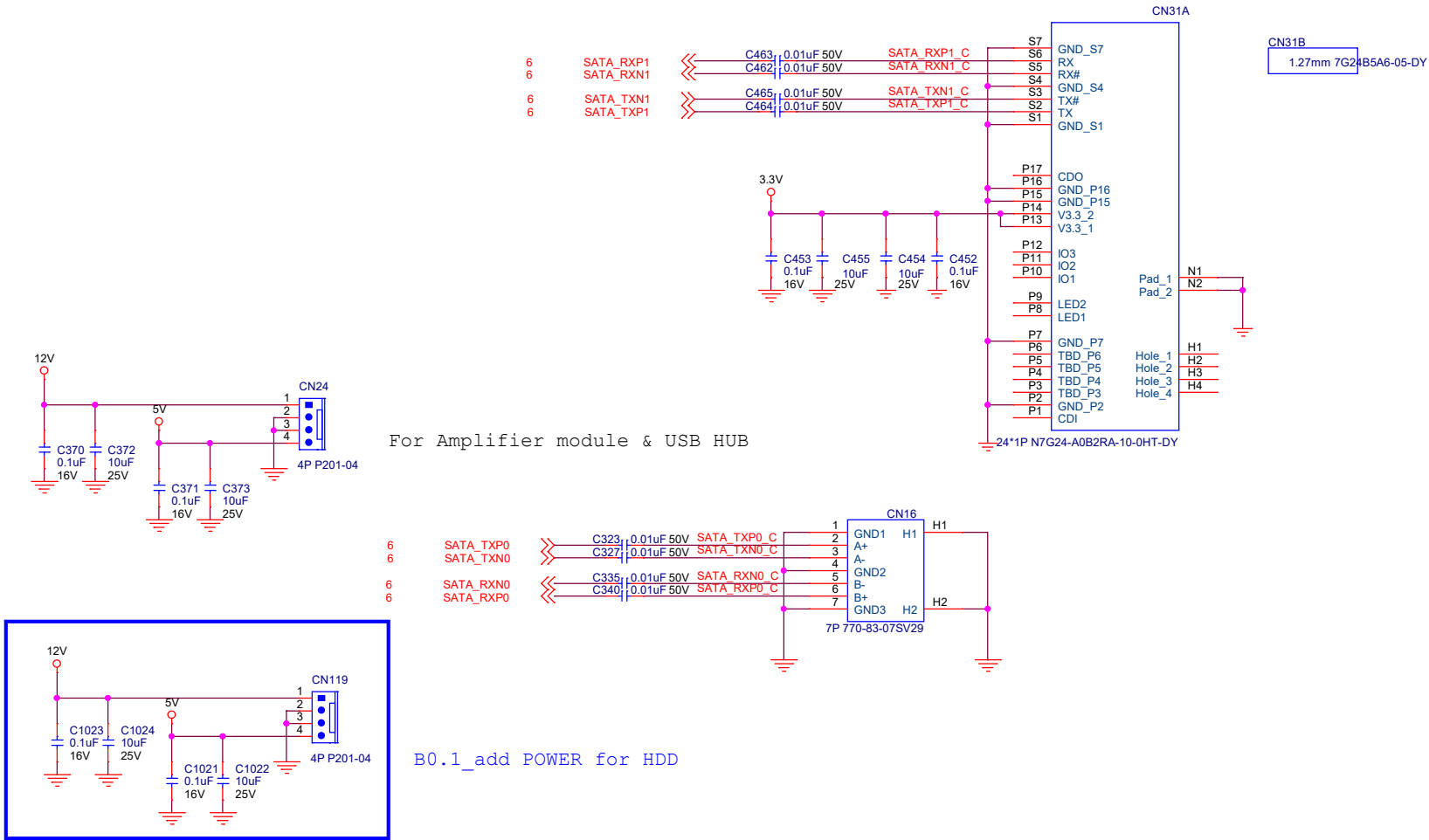
Description	Function	LED
LINK SPEED (GRN/ORG LED)	10M 100M 1000M	OFF GREEN Light Orange light
LINK Status & Activity (YEL LED)	No link Connected Active	OFF YEL Steady on YEL blink



AAEON TECHNOLOGY CO.

Title	LAN1/2-RJ45	Design
Size	Page Name	allen-yang
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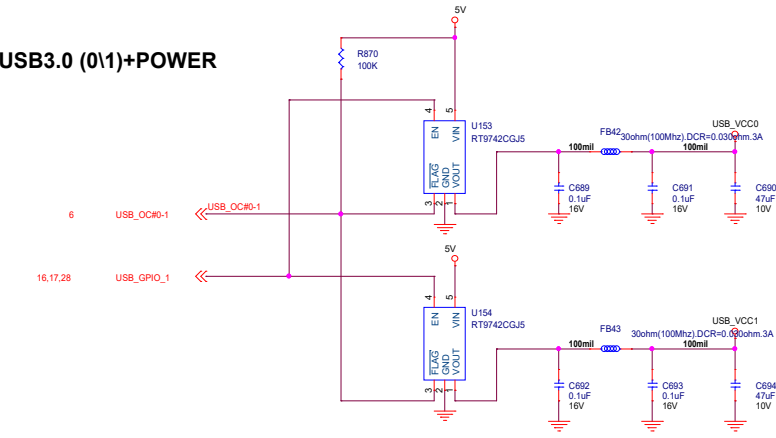
SATA3.0/CFast  
2.5"SATA host to CFast TM Card Adapter



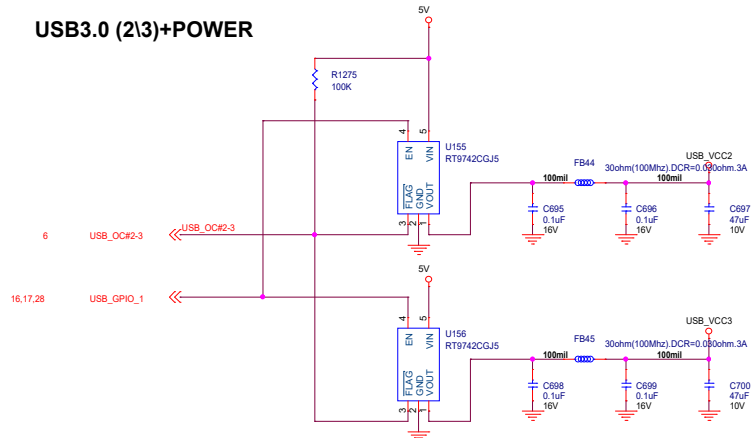
AAEON TECHNOLOGY CO.

Title		Design
SATA Ports/CFast		allen-yang
Size	Page Name	Rev
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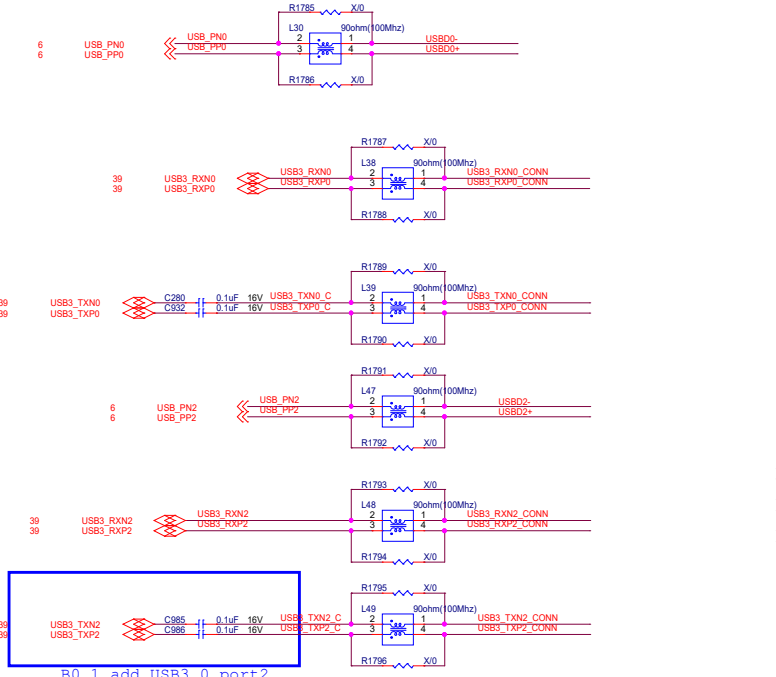
USB3.0 (0\1)+POWER



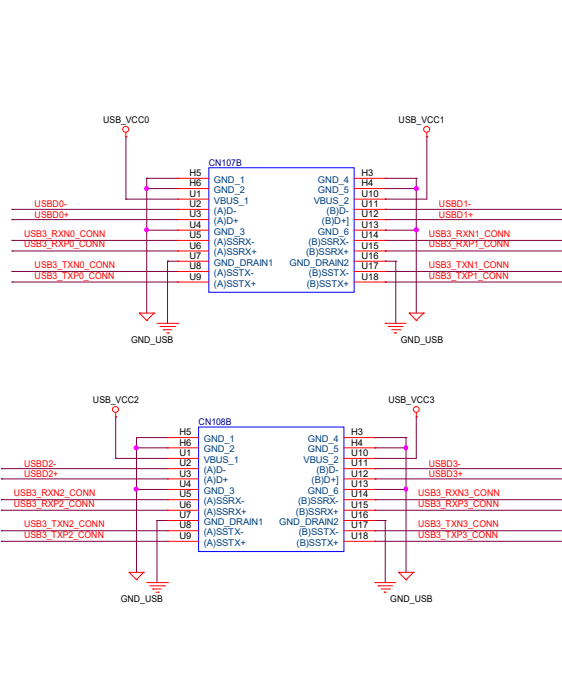
USB3.0 (2\3)+POWER



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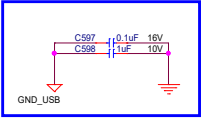


B0.1\_add USB3.0 port2

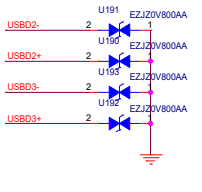
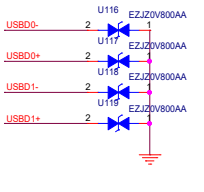
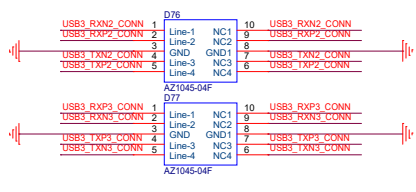
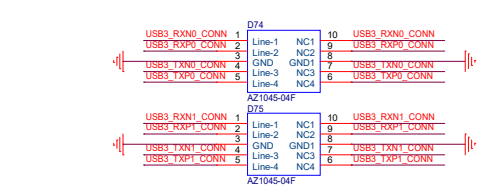


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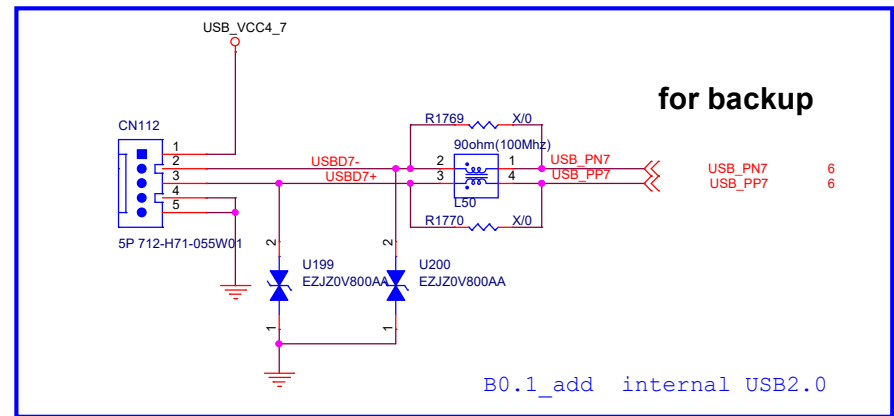
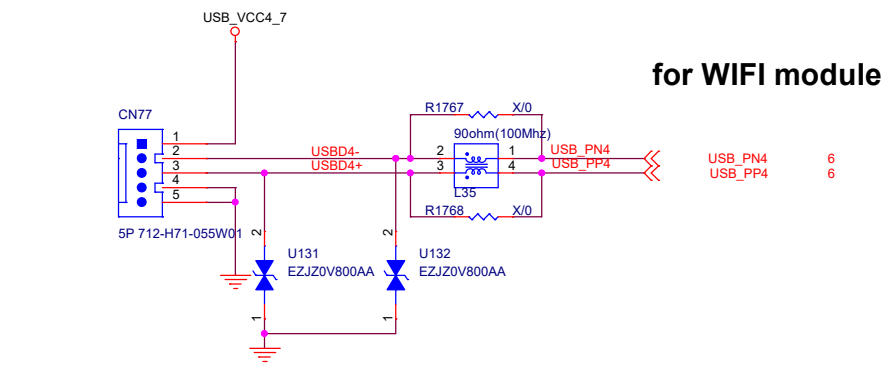
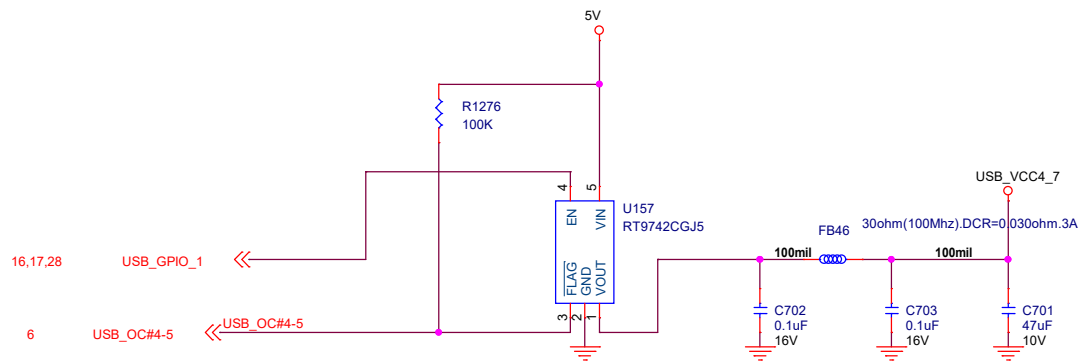


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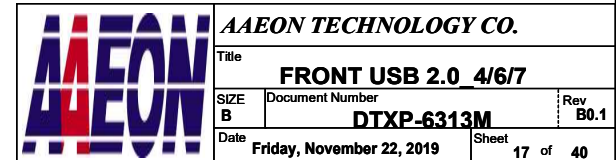
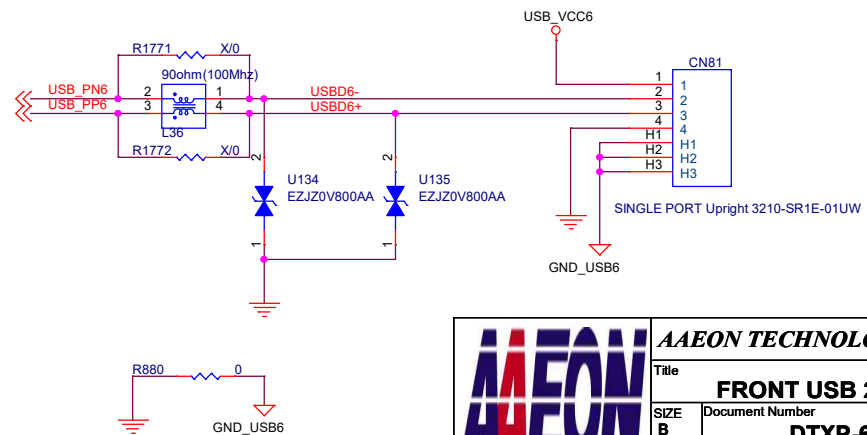
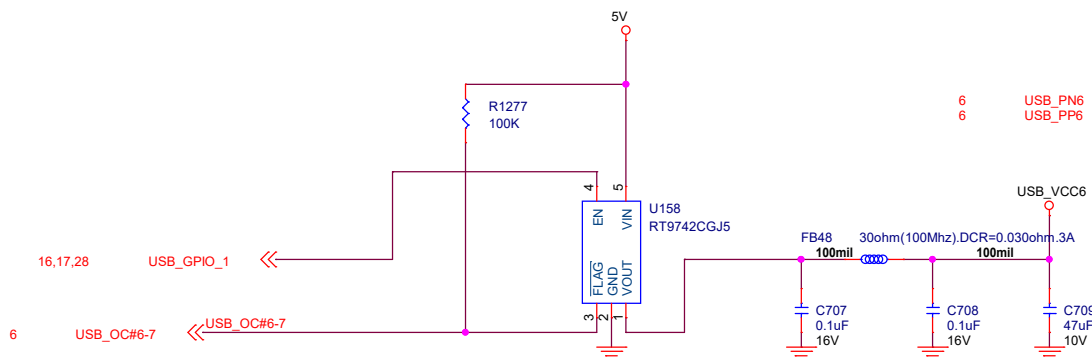




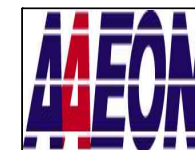
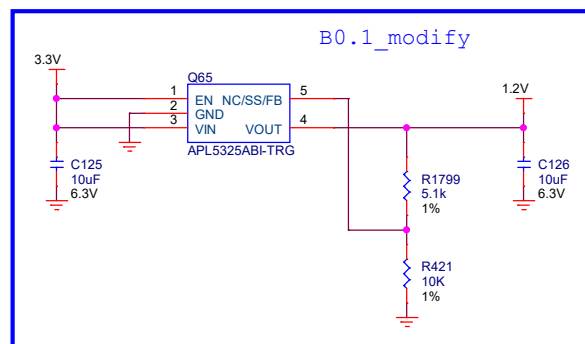
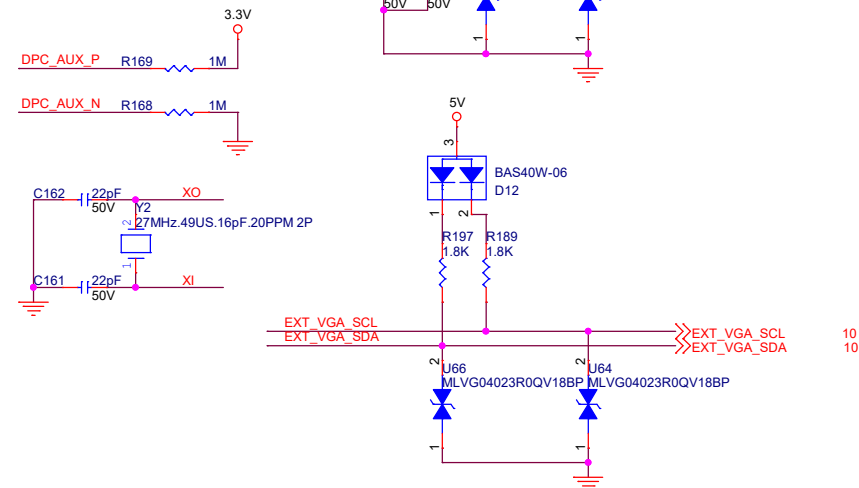
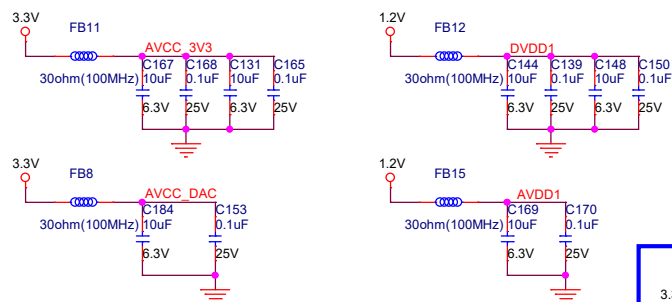
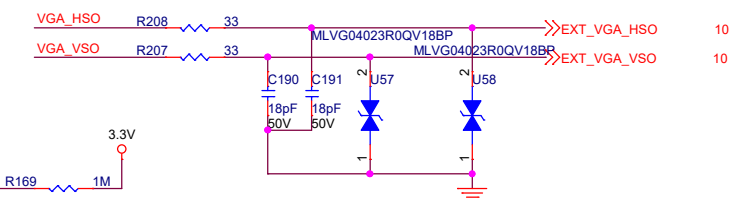
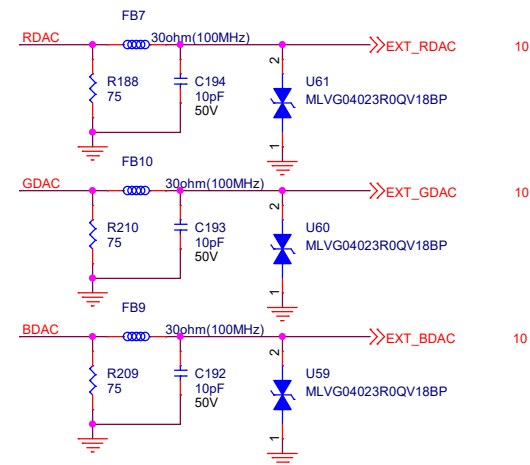
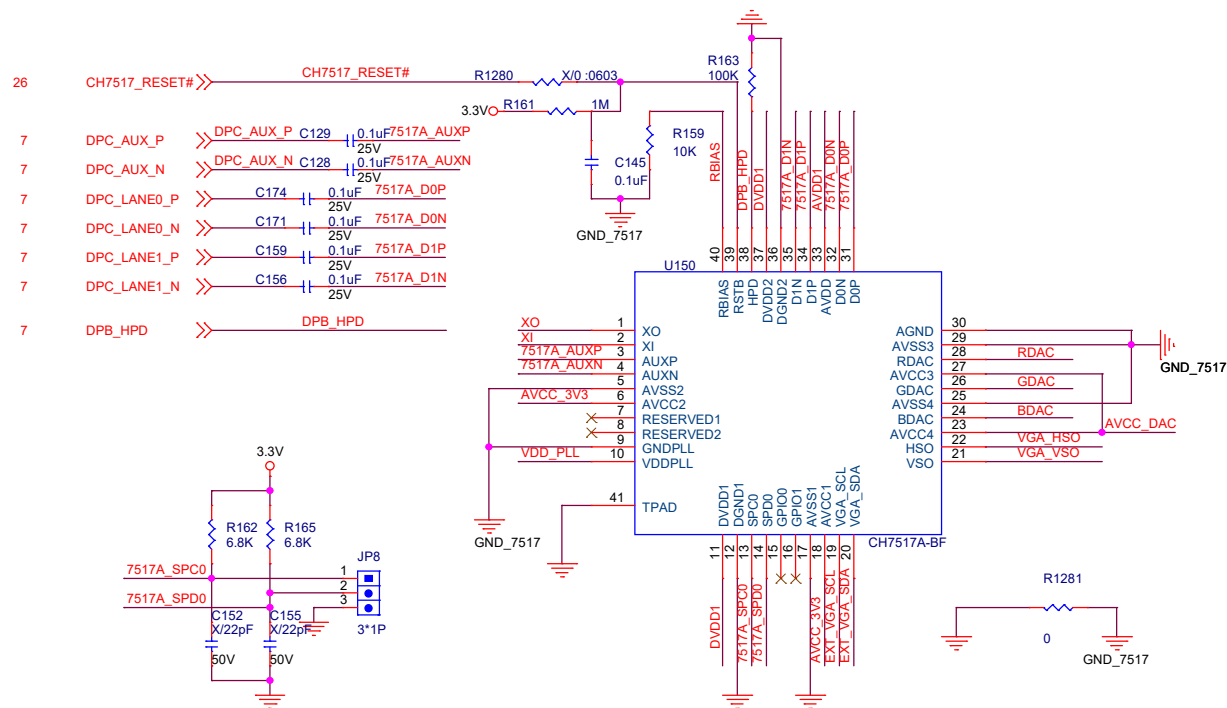
**USB(4/6/7)\_Internal USB2.0 x2 + rear USB2.0**



**rear USB2.0 Port**

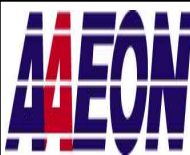


## DDI1 VGA-2

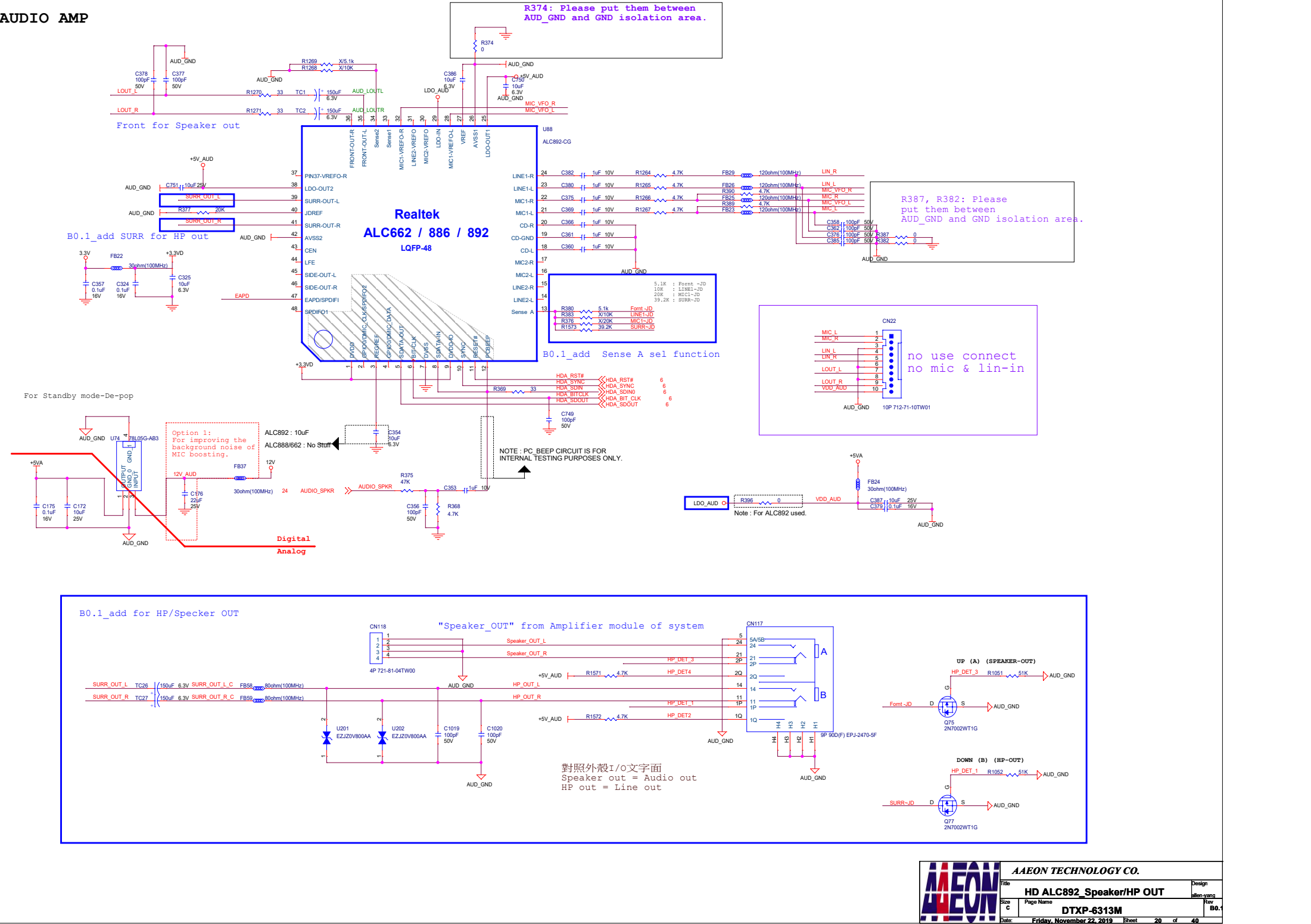


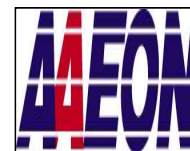
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DDI1 VGA-2		allen-yang	
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5					4					3					2					1					
D																									
C																									
B																									
A																									
										AAEON TECHNOLOGY CO.															
										Title															
										Backup															
										SIZE		Document Number												Rev	
										B		DTXP-6313M												B0.1	
Date		Friday, November 22, 2019												Sheet		19 of 40									

AUDIO AMP

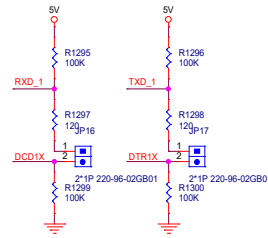
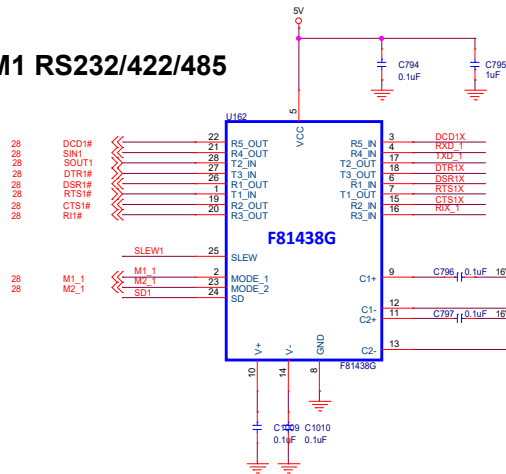




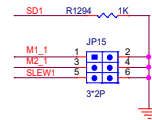
**AAEON TECHNOLOGY CO.**

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Backup		allen-yang	
Size	Page Name	Rev	
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**COM1 RS232/422/485**



RS-422/485 Terminator

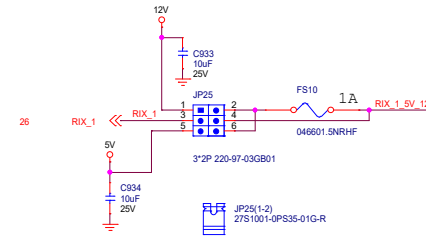


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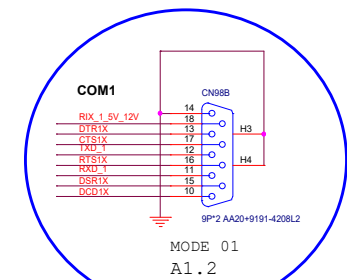
Mode Sel
SD1      M1 1  M2 1
0         0     0   RS422
0         0     1   RS232
0         1     0   RS485
0         1     1   RS485

1         x     x   Shutdown Mode

```



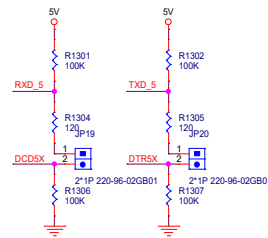
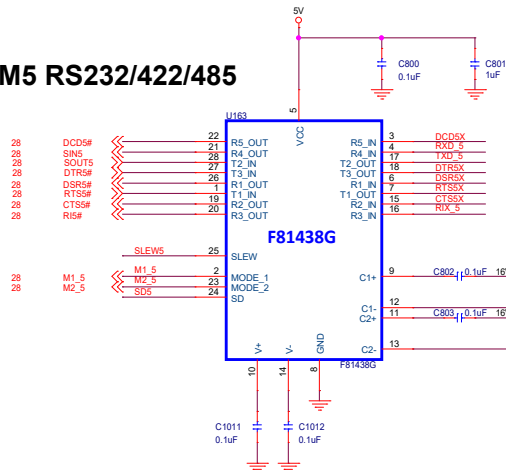
COM1 Pin9 Function Selection		
1-2	+12V	Default
3-4	Ring	
5-6	+5V	



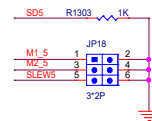
MODE 01  
A1.2

B0.1\_change to Male

**COM5 RS232/422/485**



RS-422/485 Terminator

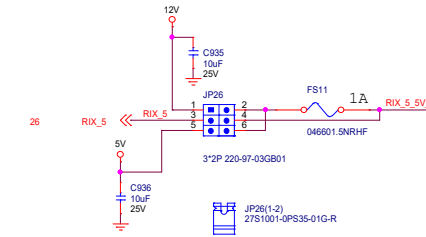


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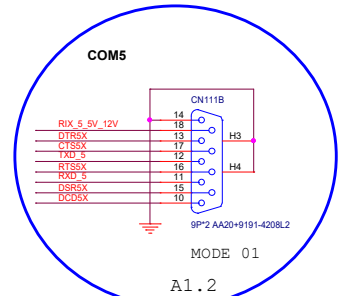
Mode Sel
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0         0         0      RS422
0         0         1      RS232
0         1         0      RS485
0         1         1      RS485

1         x         x      Shutdown Mode

```



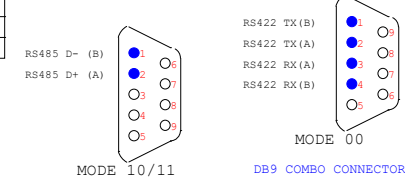
COM1 Pin9 Function Selection		
1-2	+12V	Default
3-4	Ring	
5-6	+5V	



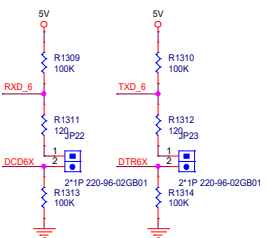
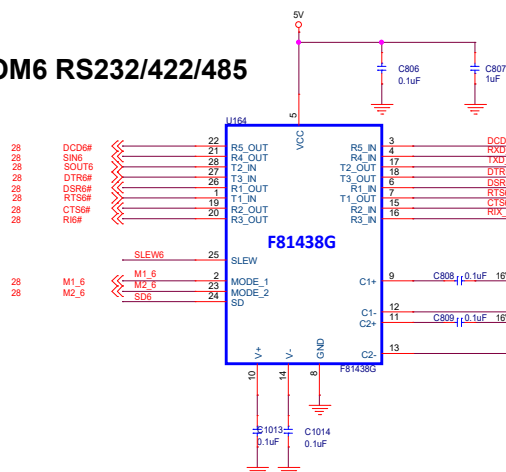
MODE 0

A1.2

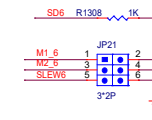
B0.1\_change to Male



**COM6 RS232/422/485**



RS-422/485 Terminator

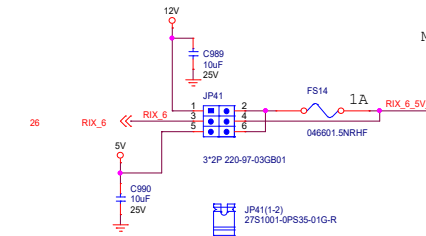


```

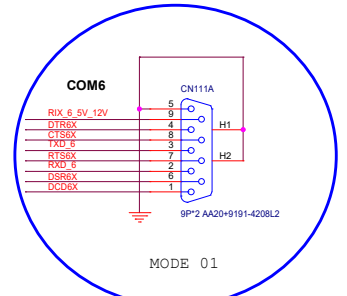
Mode Sel
SD2    M1_6    M2_6
0       0       0      RS422
0       0       1      RS232
0       1       0      RS485
0       1       1      RS485

1       x       x      Shutdown Mode

```



COM1 Pin9 Function Selection		
1-2	+12V	Default
3-4	Ring	
5-6	+5V	



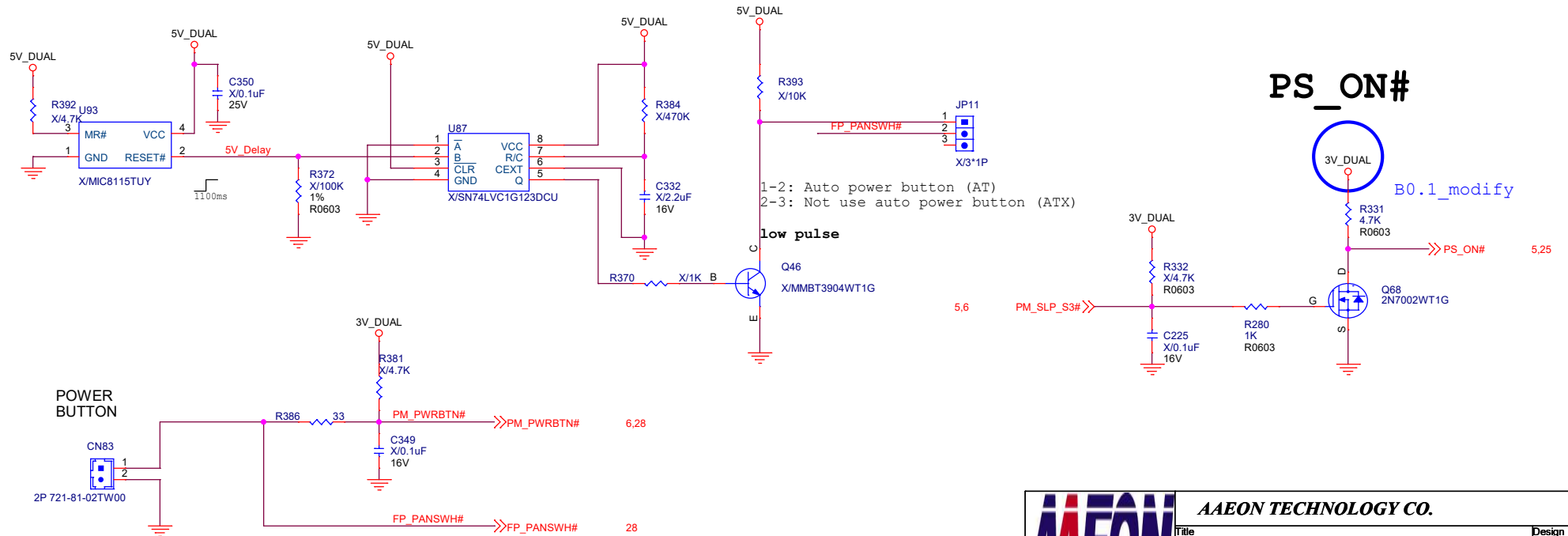
MODE 01

B0.1 change to Male

# SYS FAN

B0.1\_remove

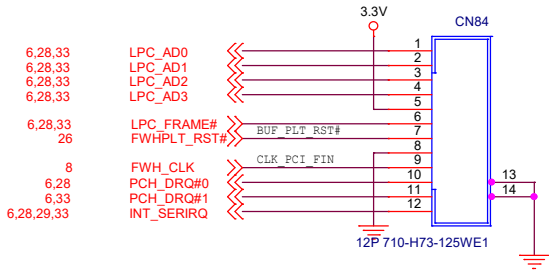
## Auto Power On



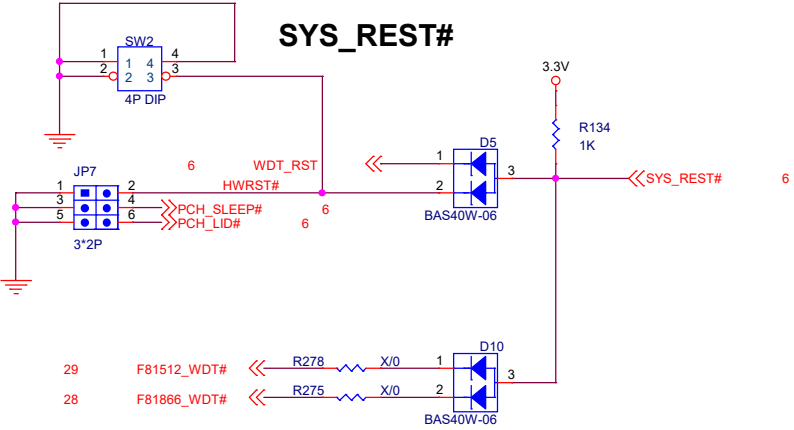
AAEON TECHNOLOGY CO.

Title	System Fan + Auto Power On	Design
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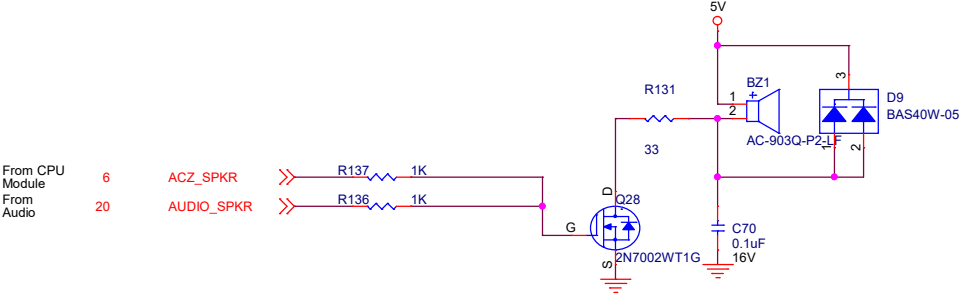
LPC CONNECTOR



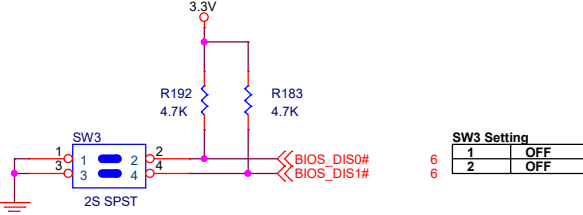
SYS\_REST#



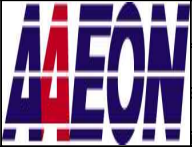
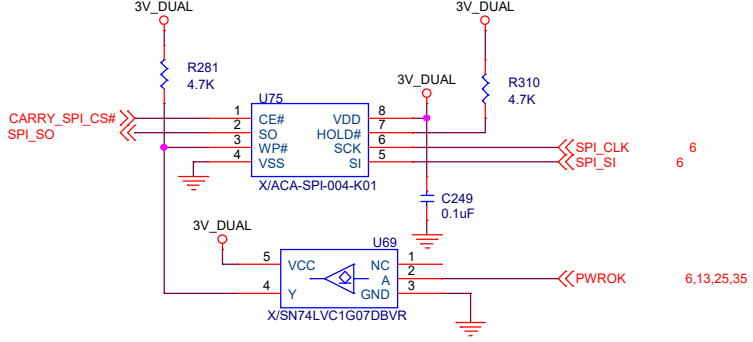
BUZZER



SPI



SW3 Setting	
1	OFF
2	OFF

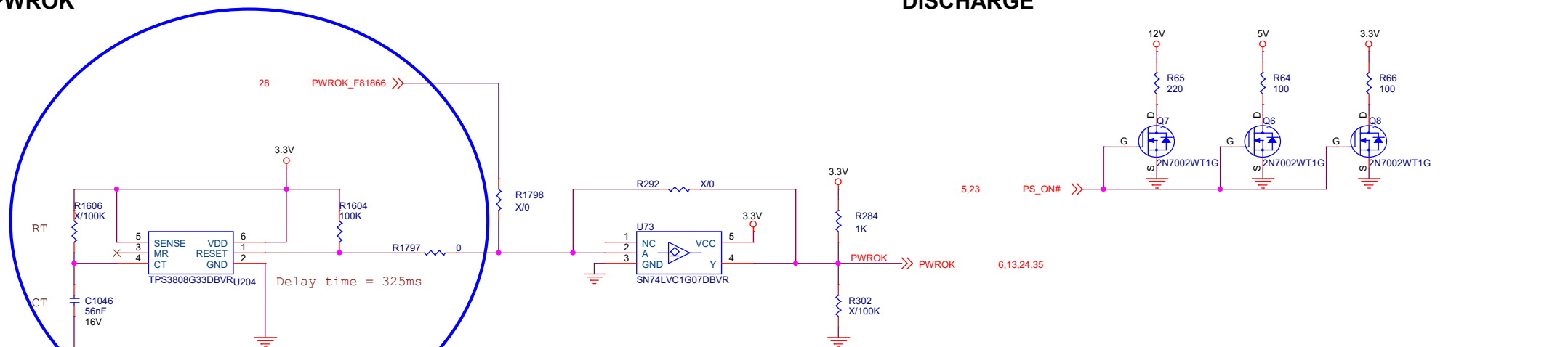


AAEON TECHNOLOGY CO.			
Title	HWRST_SPI_BUZZER_LPC		Design
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PWROK

DISCHARGE

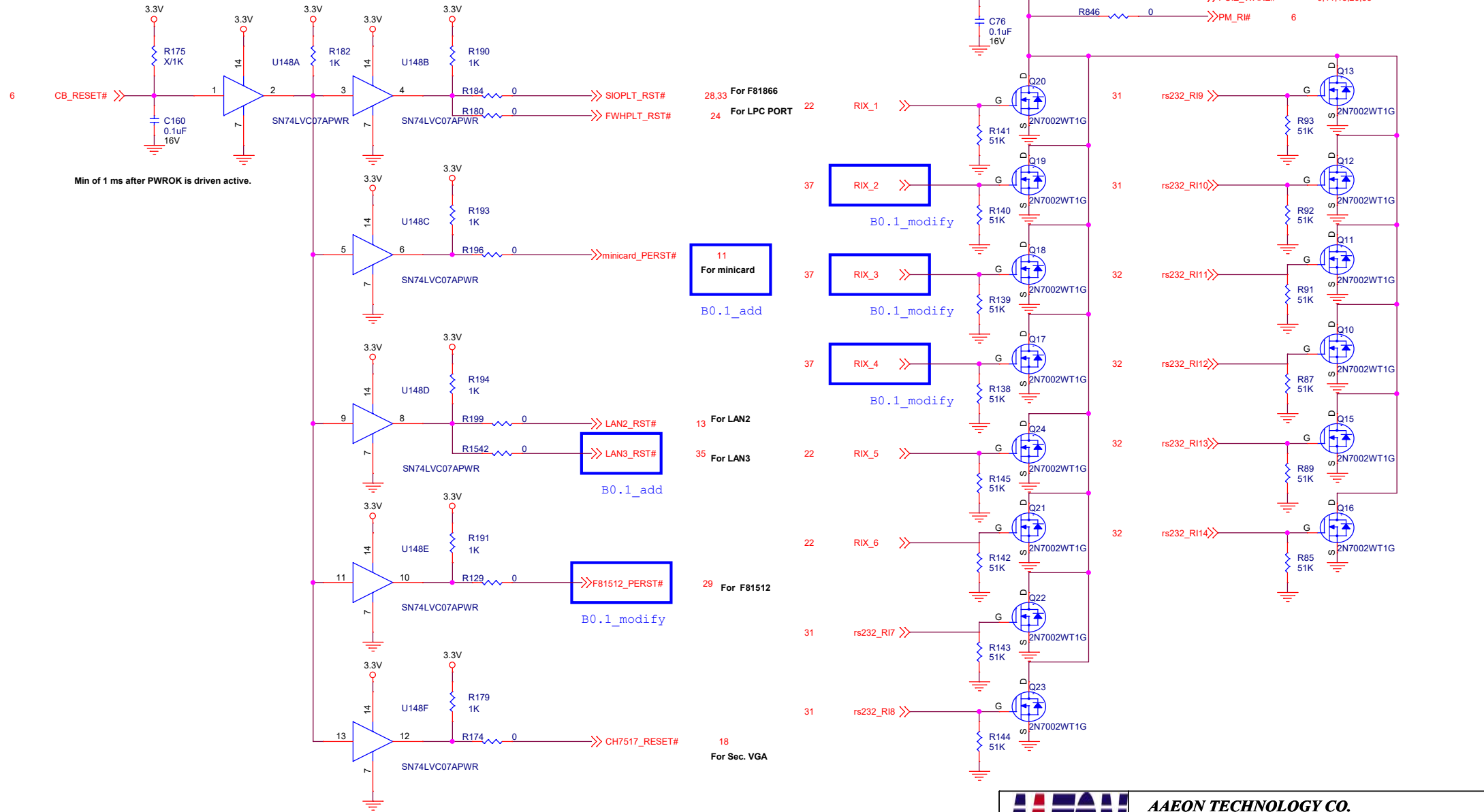


B0.1\_modify

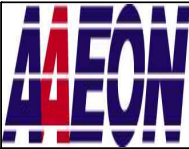
Delay Time

- I. RT ON , CT : OFF => 300ms
- II. RT OFF ;  $56nF(CT) / 175 + 0.005s = 0.35+0.005= 0.325S \Rightarrow 325ms$

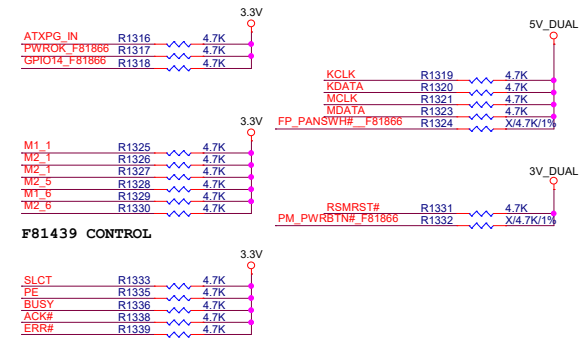
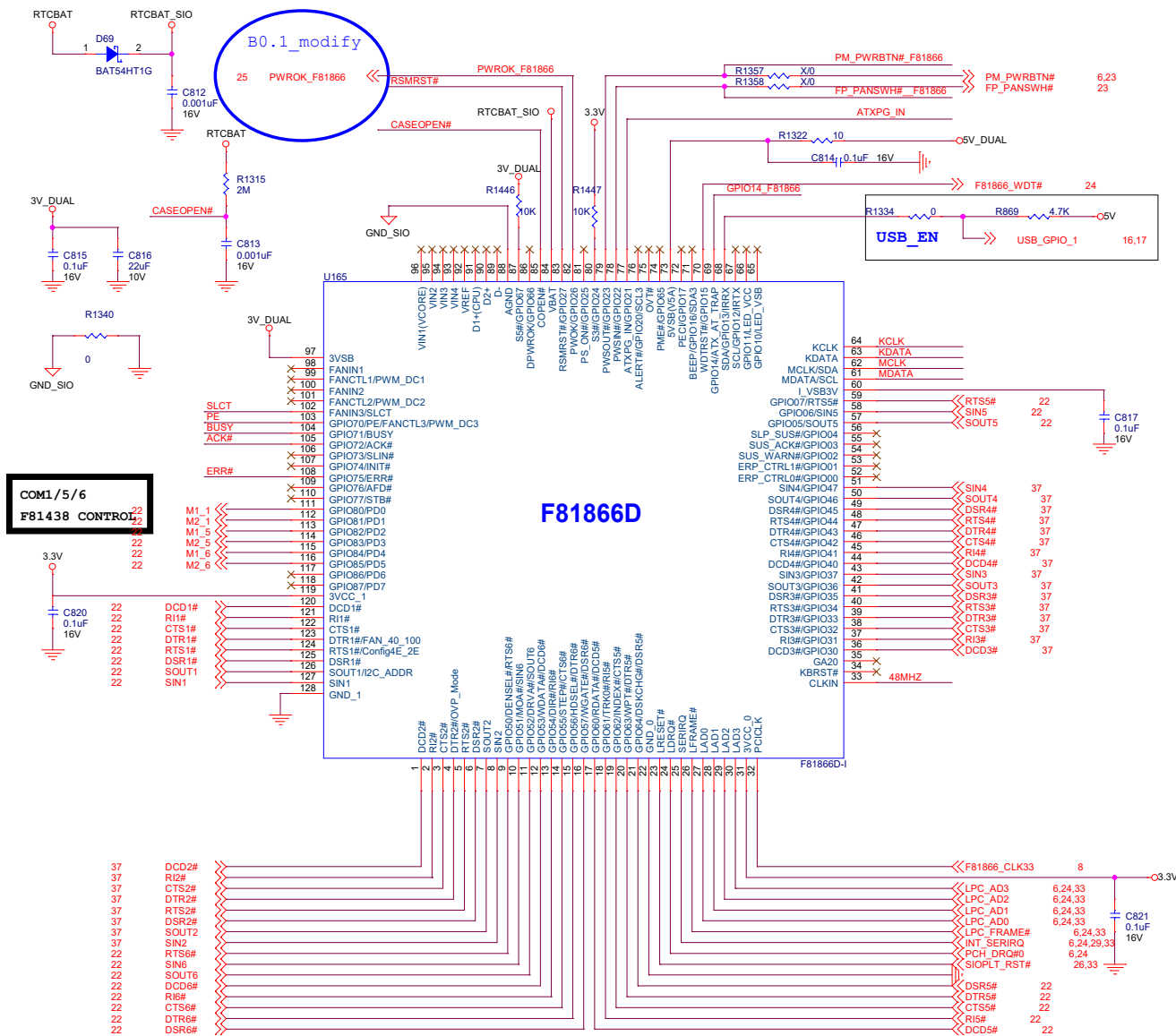
# CB-RESET



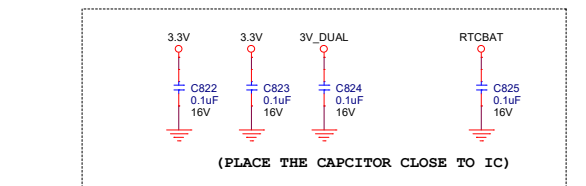
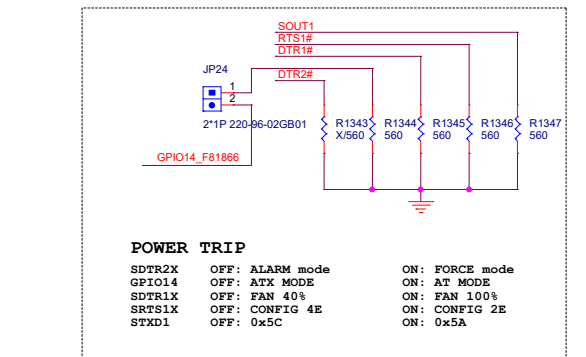
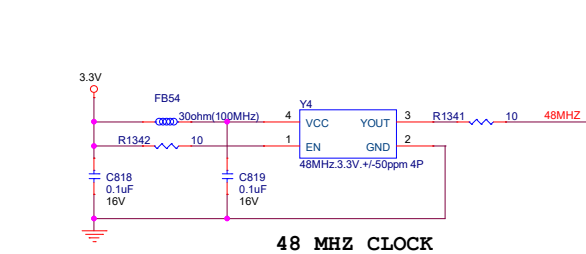
	5	4	3	2	1
D					
C					
B					
A					
	5	4	3	2	1

		AAEON TECHNOLOGY CO.			
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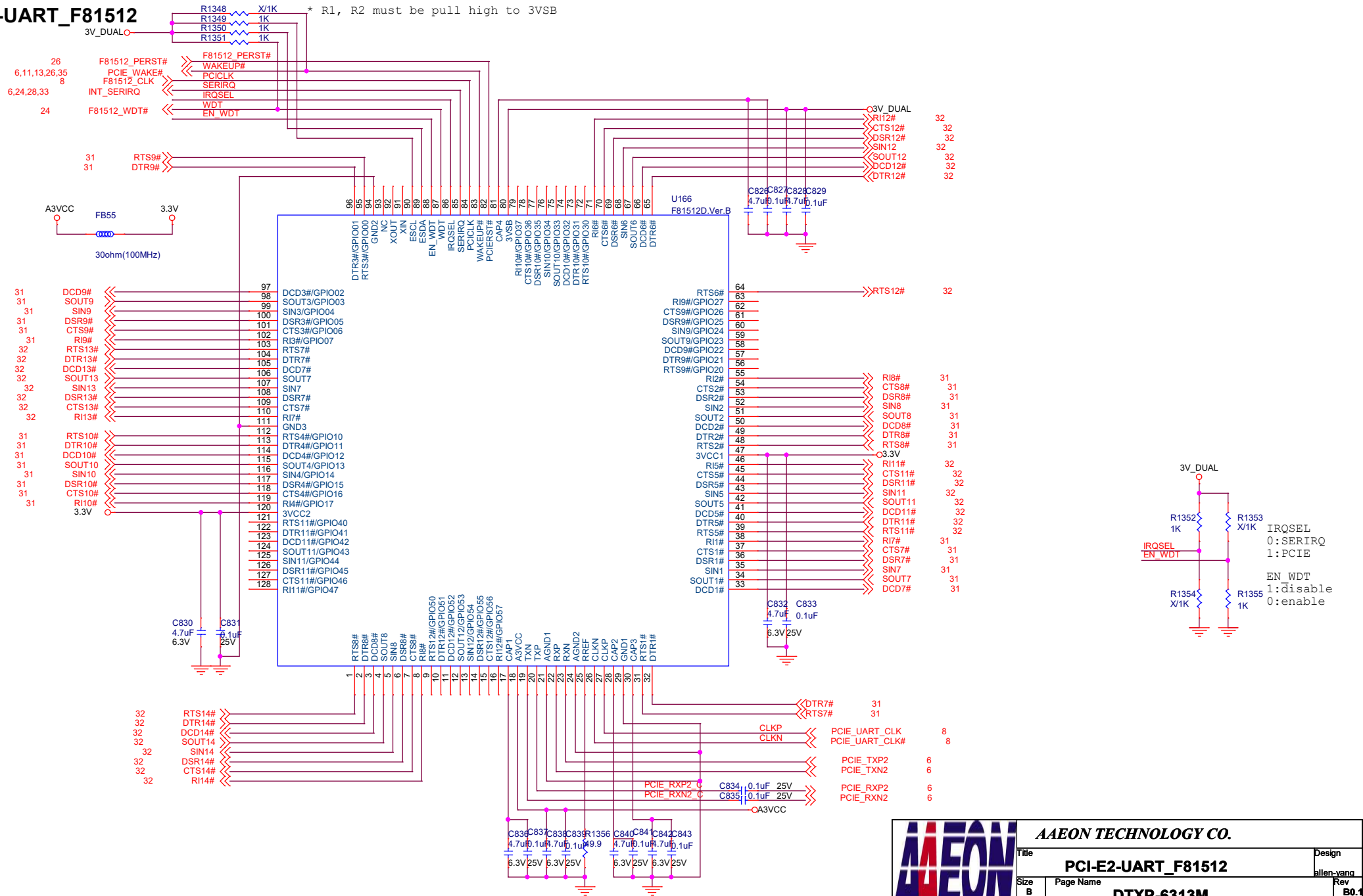
# LPC-UART\_F81866

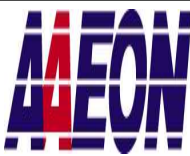
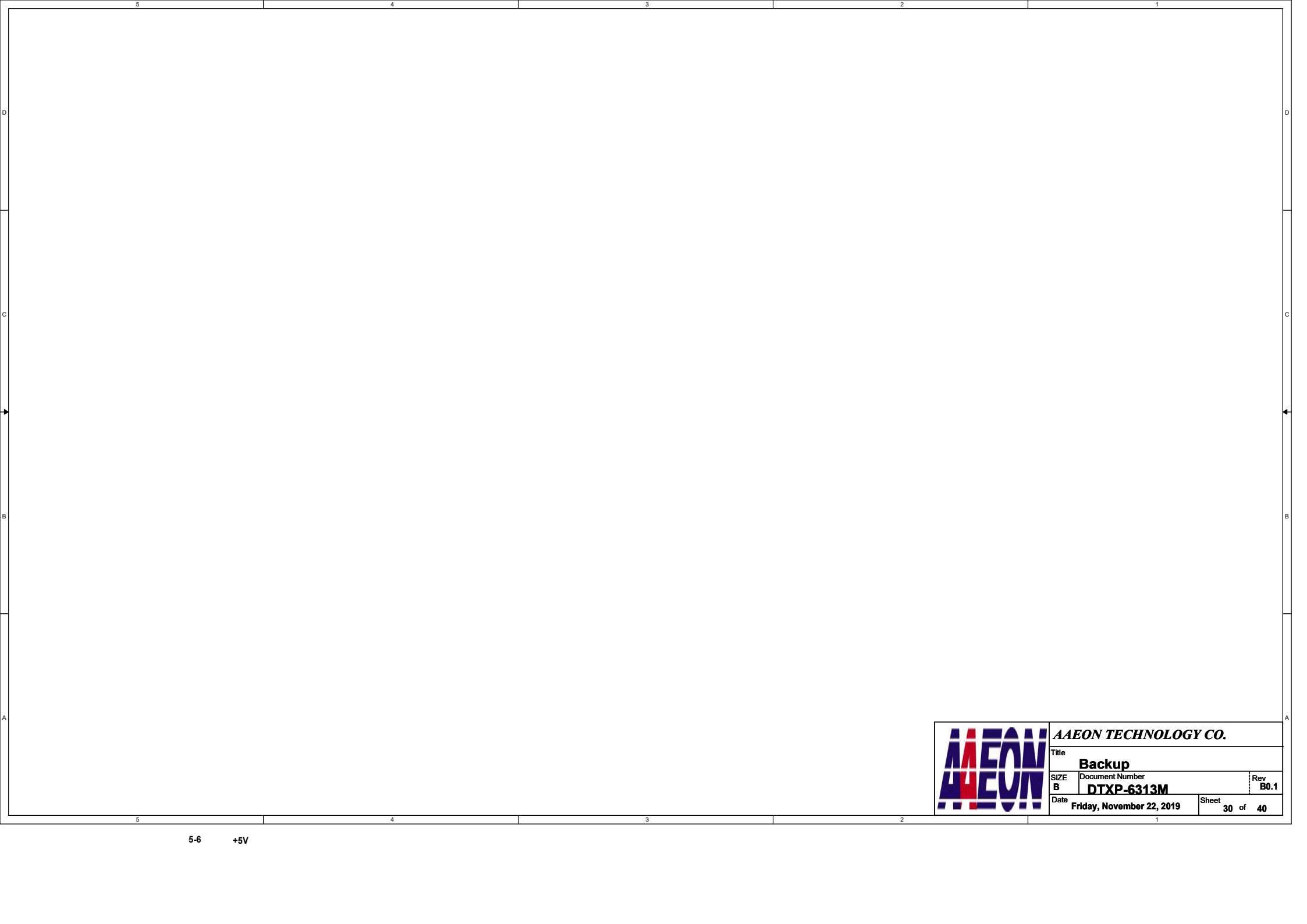


## FOR LPT DISABLE



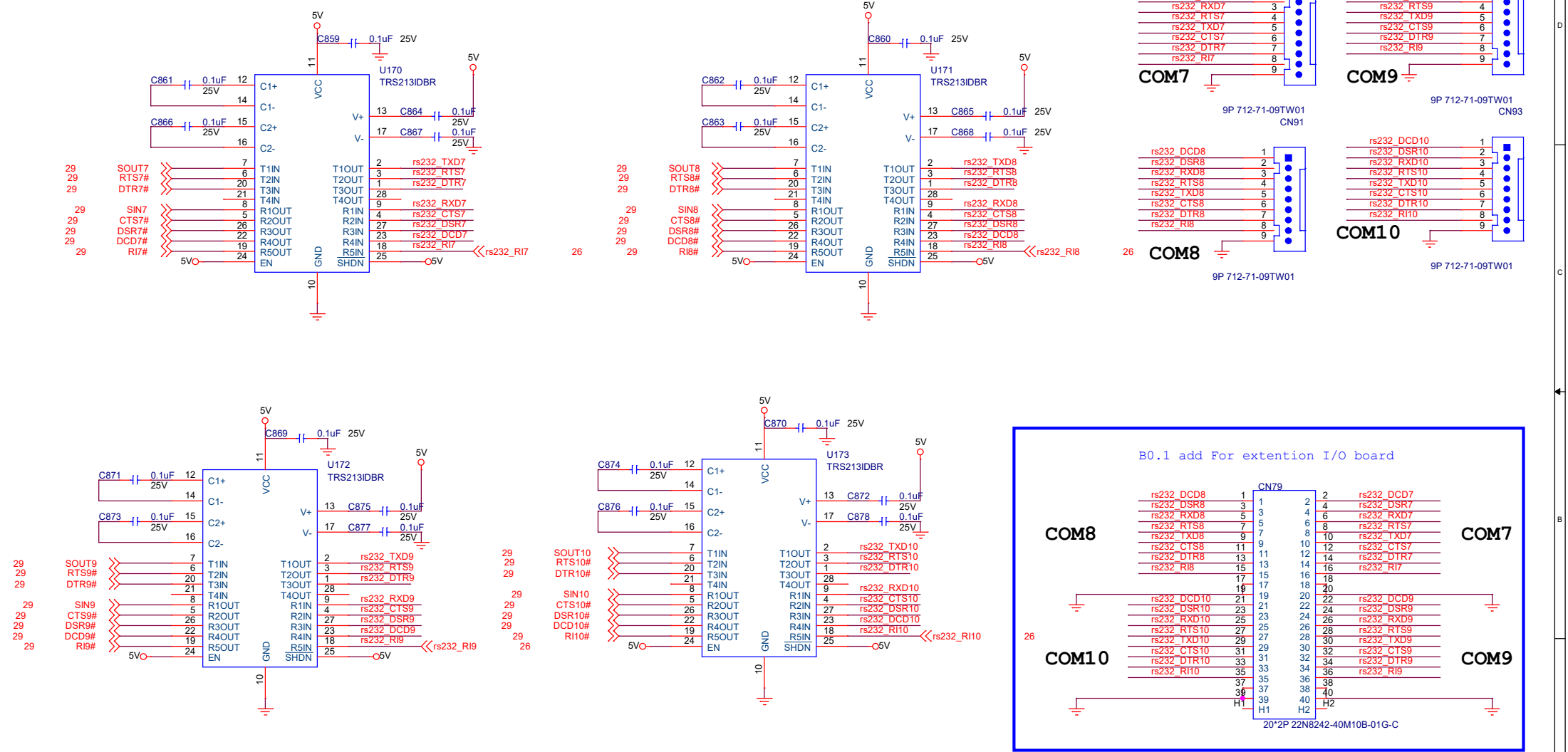
## PCI-E2-UART\_F81512



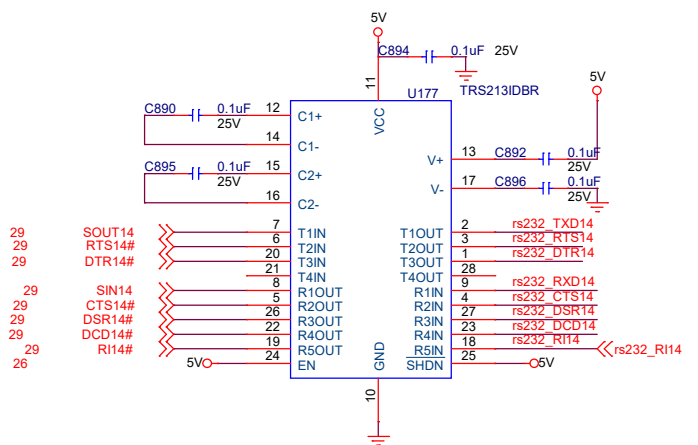
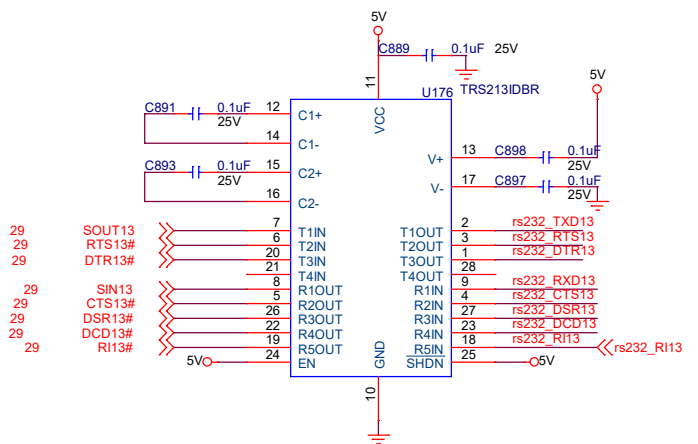
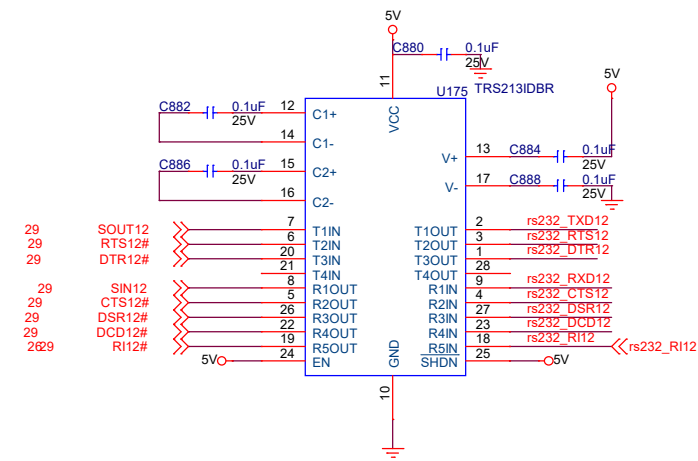
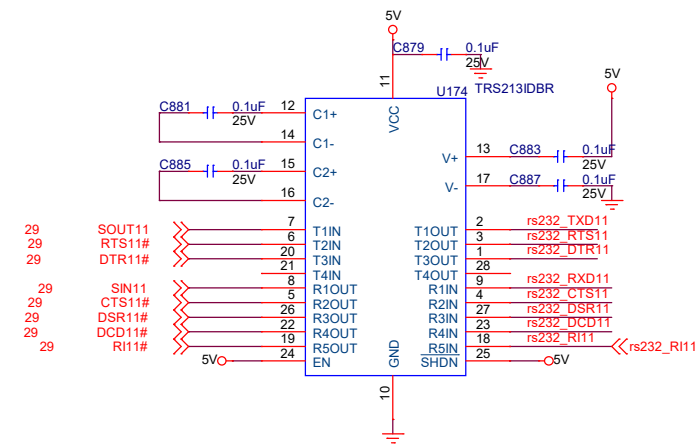


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Title		
Backup		
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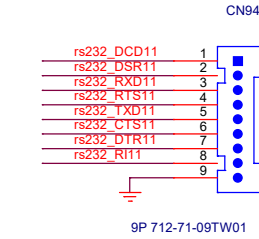
RS232\_COM7-10



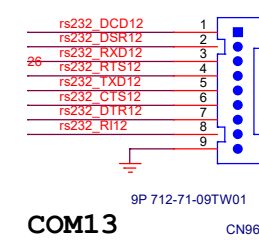
# RS232\_COM11-14



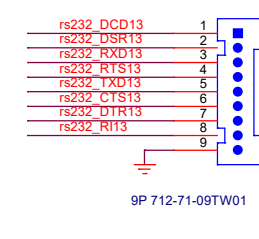
## COM11



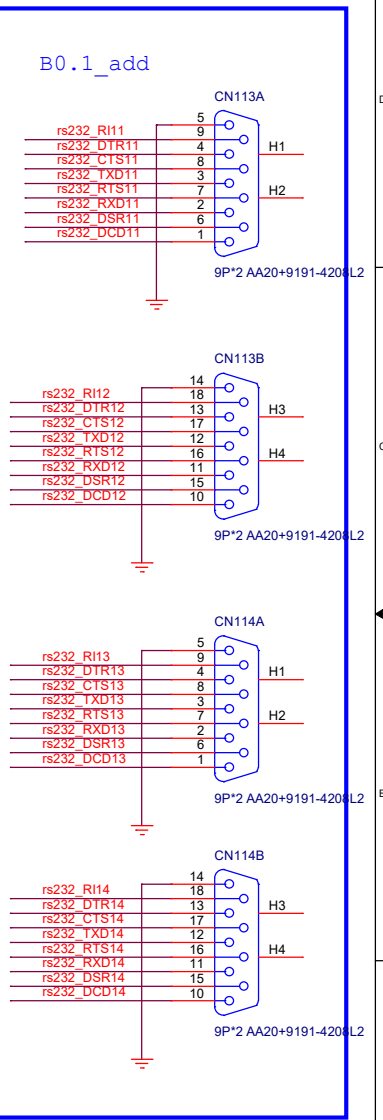
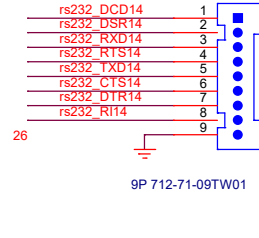
## COM12



## COM13



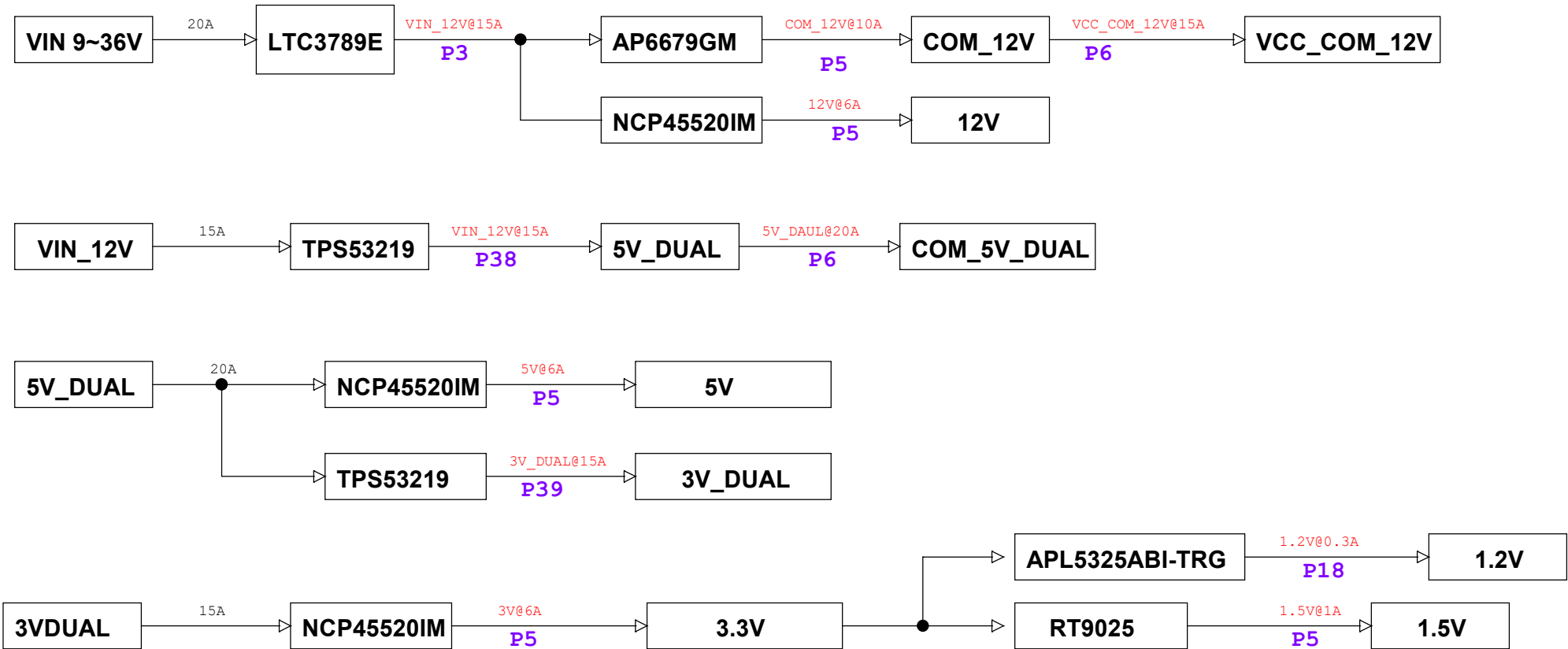
## COM14







Power Block

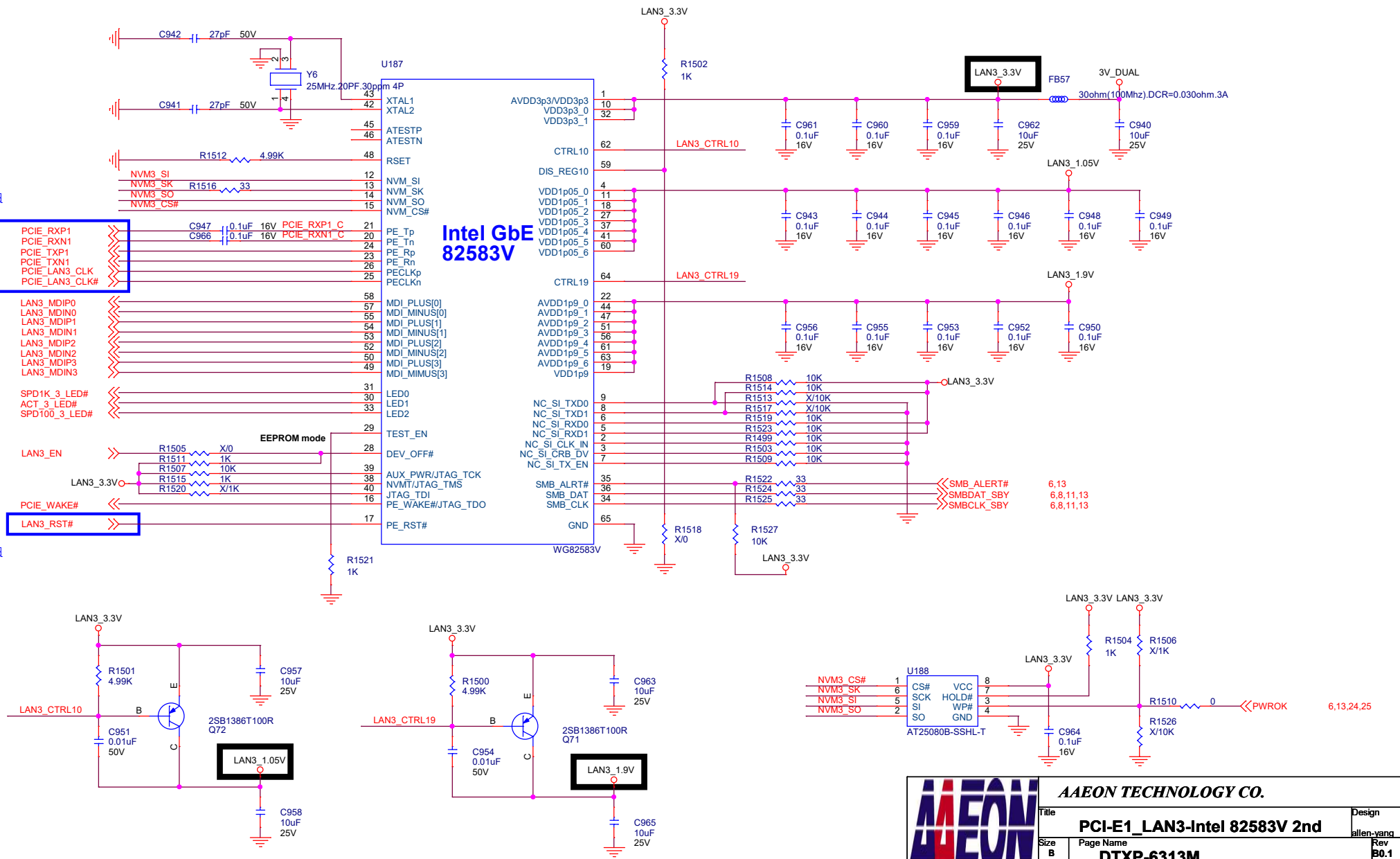



PCI-E1\_LAN3 Intel 82583V 2nd

B0.1\_add

B0.1\_add

6,11,13,26,29

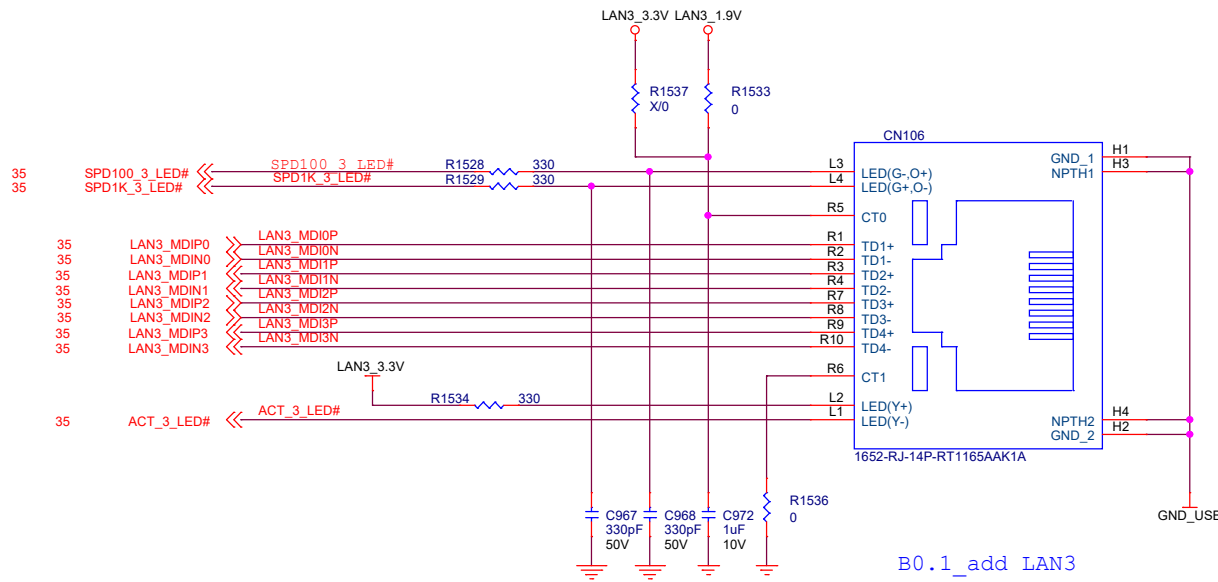




**AAEON TECHNOLOGY CO.**

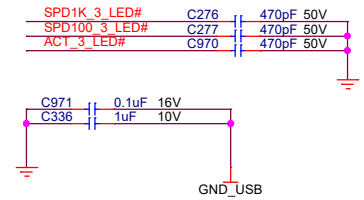
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# LAN3 RJ45 from Intel 82583V

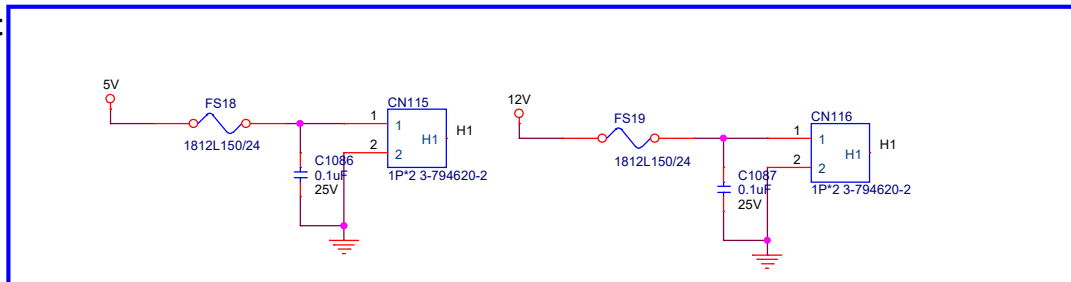


LEDs	Mode	Function
LED0	0100	LINK/ACTIVITY
LED1	0111	LINK 1000
LED2	0110	LINK 100

Description	Function	LED
LINK SPEED (GRN/ORG LED)	10M 100M 1000M	OFF GREEN Light Orange light
LINK Status & Activity (YEL LED)	No link Connected Active	OFF YEL Steady on YEL blink



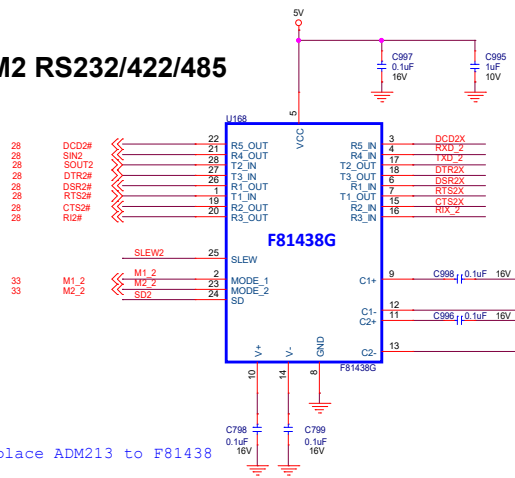
## 12V/5V Power test point



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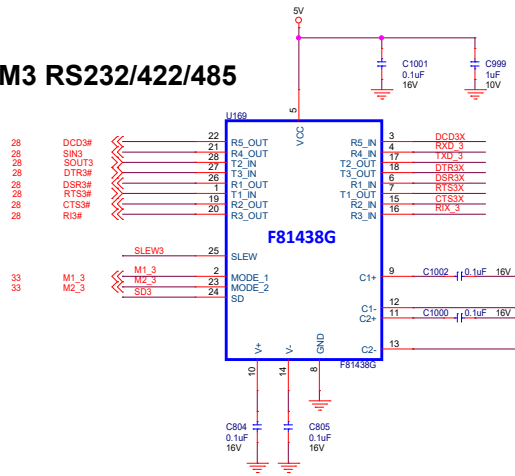
Title	LAN3-RJ45 + 12V/5V test poin		Design
Size	Page Name	allen-yang	
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**COM2 RS232/422/485**

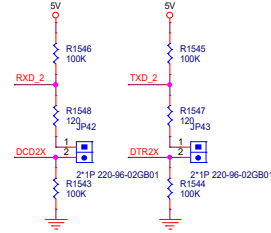
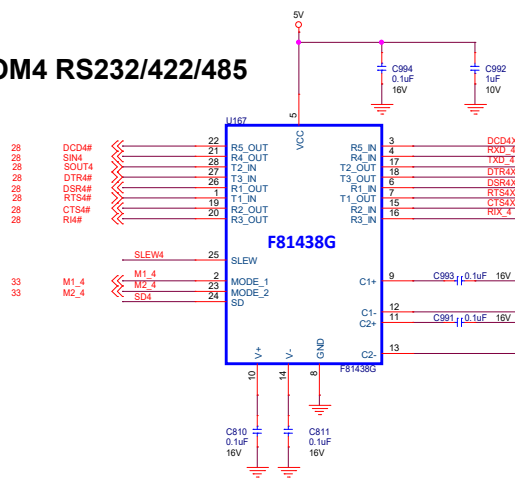


B0.1\_replace ADM213 to F81438

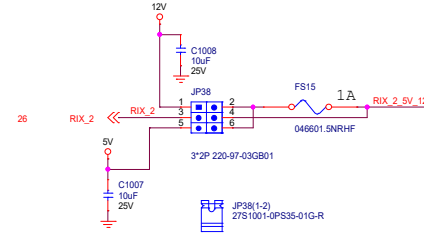
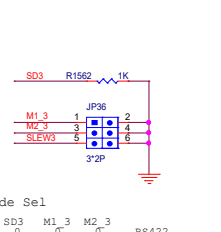
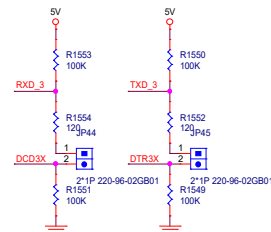
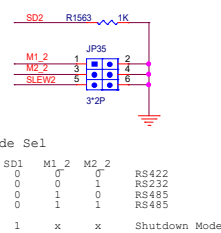
**COM3 RS232/422/485**



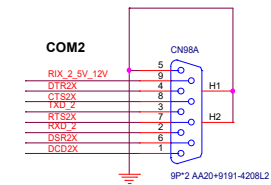
**COM4 RS232/422/485**



RS-422/485 Terminator

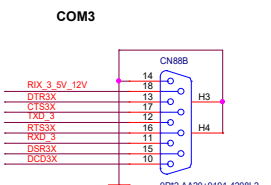


COM1 Pin9 Function Selection		
1-2	+12V	Default
3-4	Ring	
5-6	+5V	



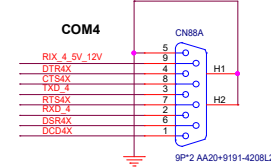
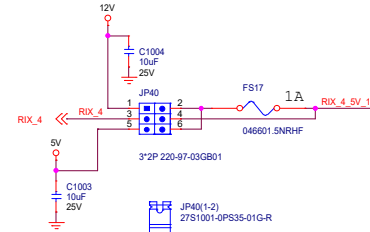
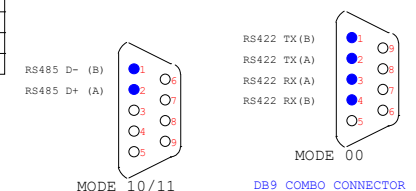
MODE 01

B0.1\_ (F) to (M)



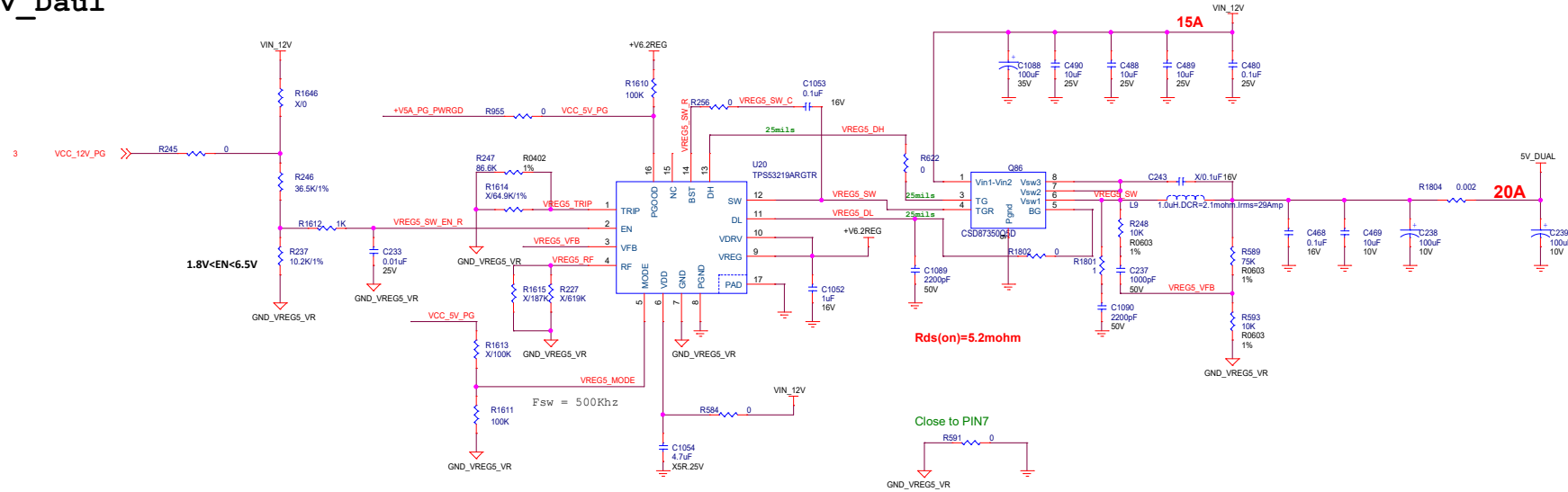
MODE 01

COM1 Pin9 Function Selection		
1-2	+12V	Default
3-4	Ring	
5-6	+5V	

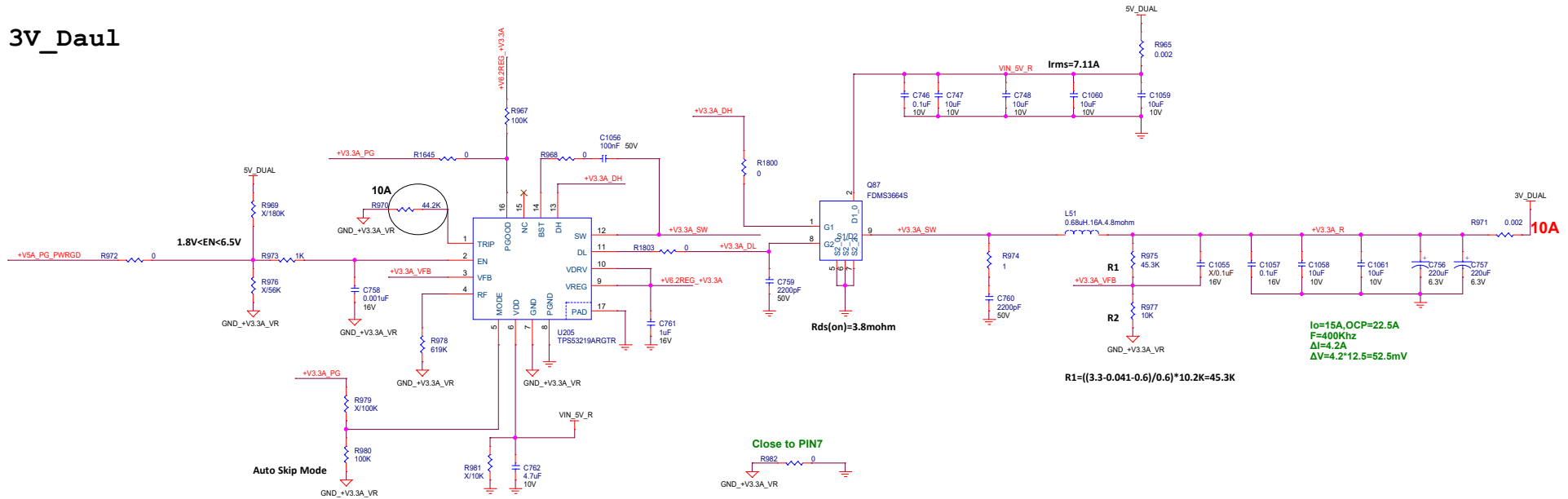


MODE 01

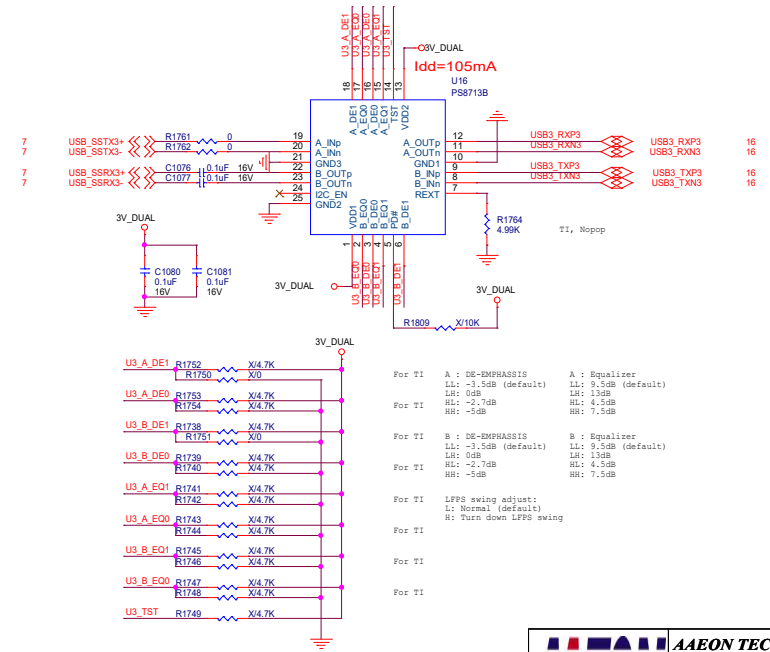
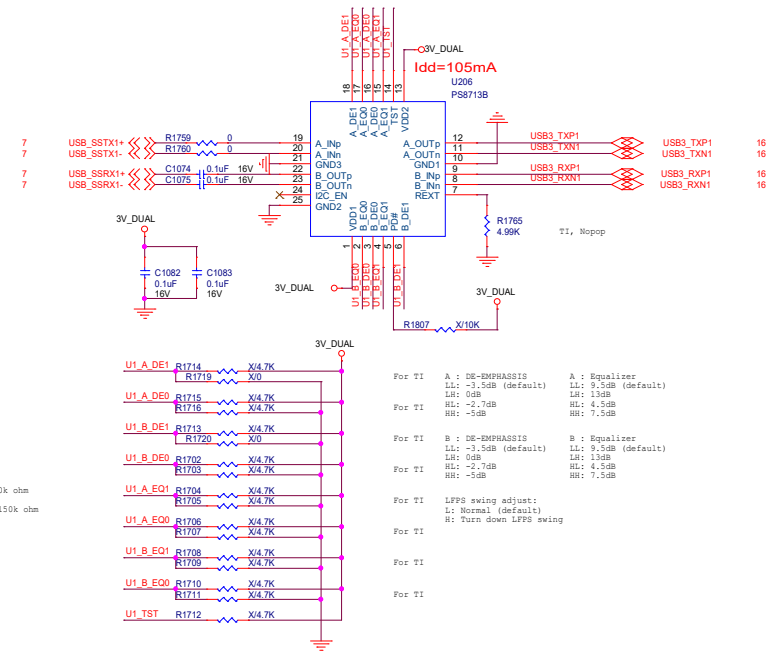
5V\_Daul



3V\_Dau1



B0.1\_add



[illegible]