

Revision:

- 1.SOM-DB4700 Rev. A1 01-1 2008/05/22
PCB Version: A1 01-1 P/N:19C6470000
- 2.SOM-DB4700 Rev. A1 01-2 2009/01/9
PCB Version: A1 01-2 P/N:19C6470001
- 3.SOM-DB4700 Rev. A1 01-3 2009/08/11
PCB Version: A1 01-3 P/N:19C6470002

NOTE:

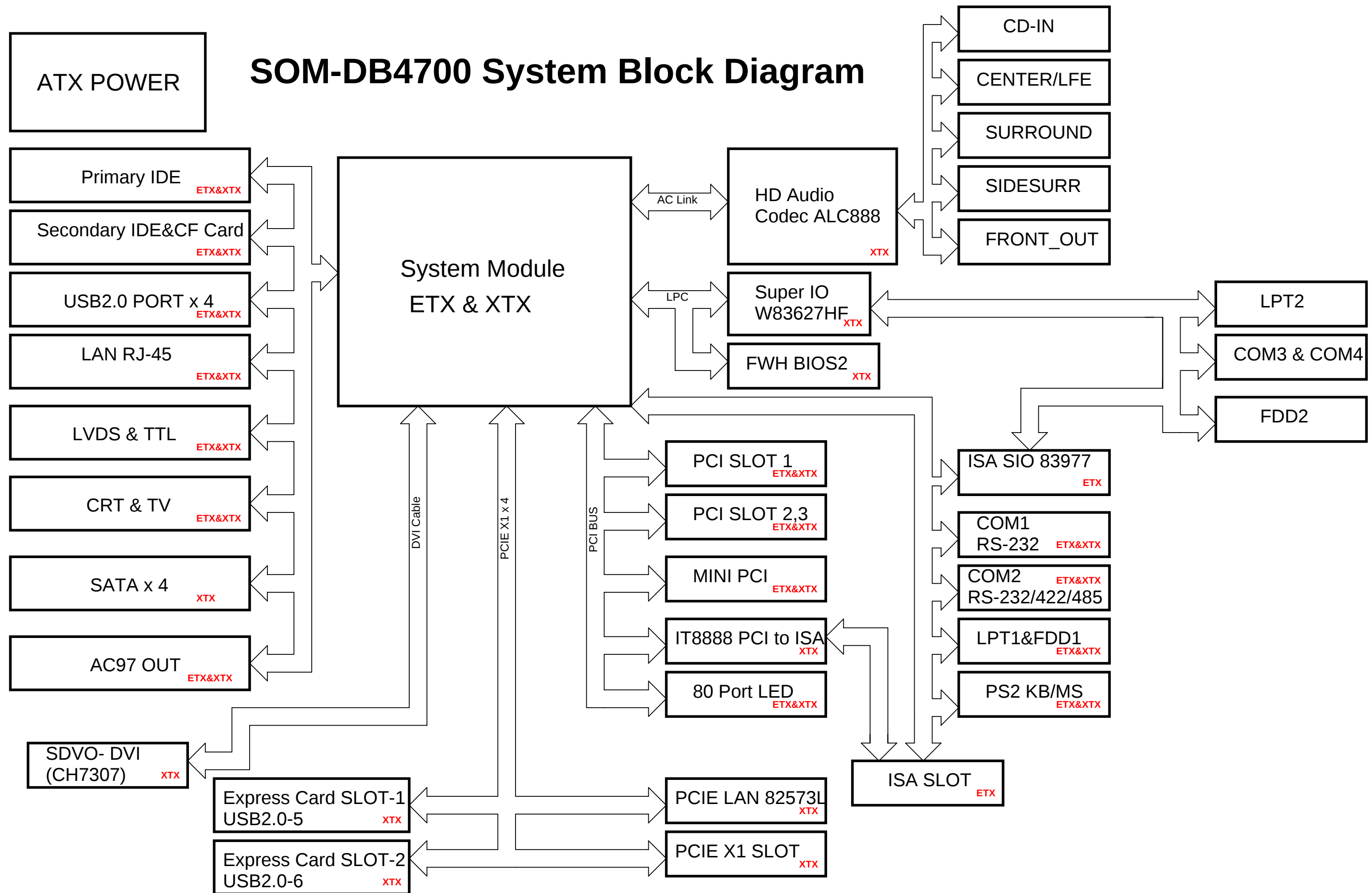
- 1.Mark ETX mean this part for ETX MODE carrier board
- 2.Mark XTX mean this part for XTX MODE carrier board
- 3.NL mean you can reserve this part for debug
- 4.No mark mean this part for ETX and XTX MODE carrier board

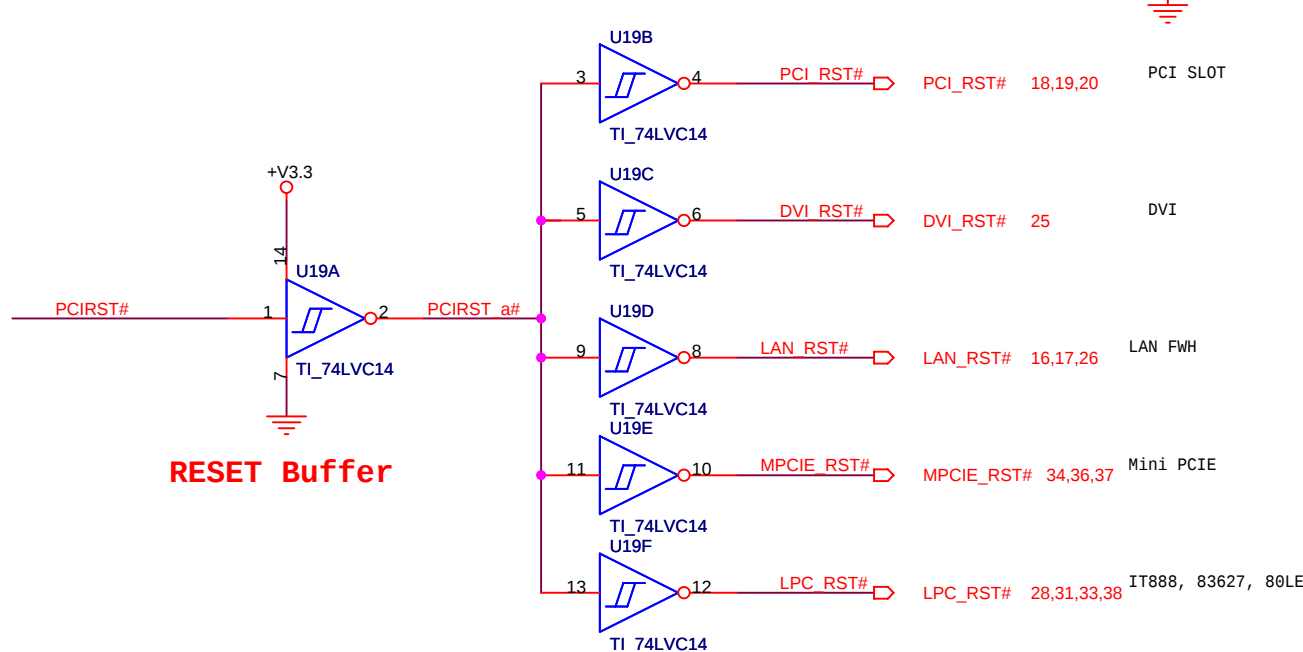
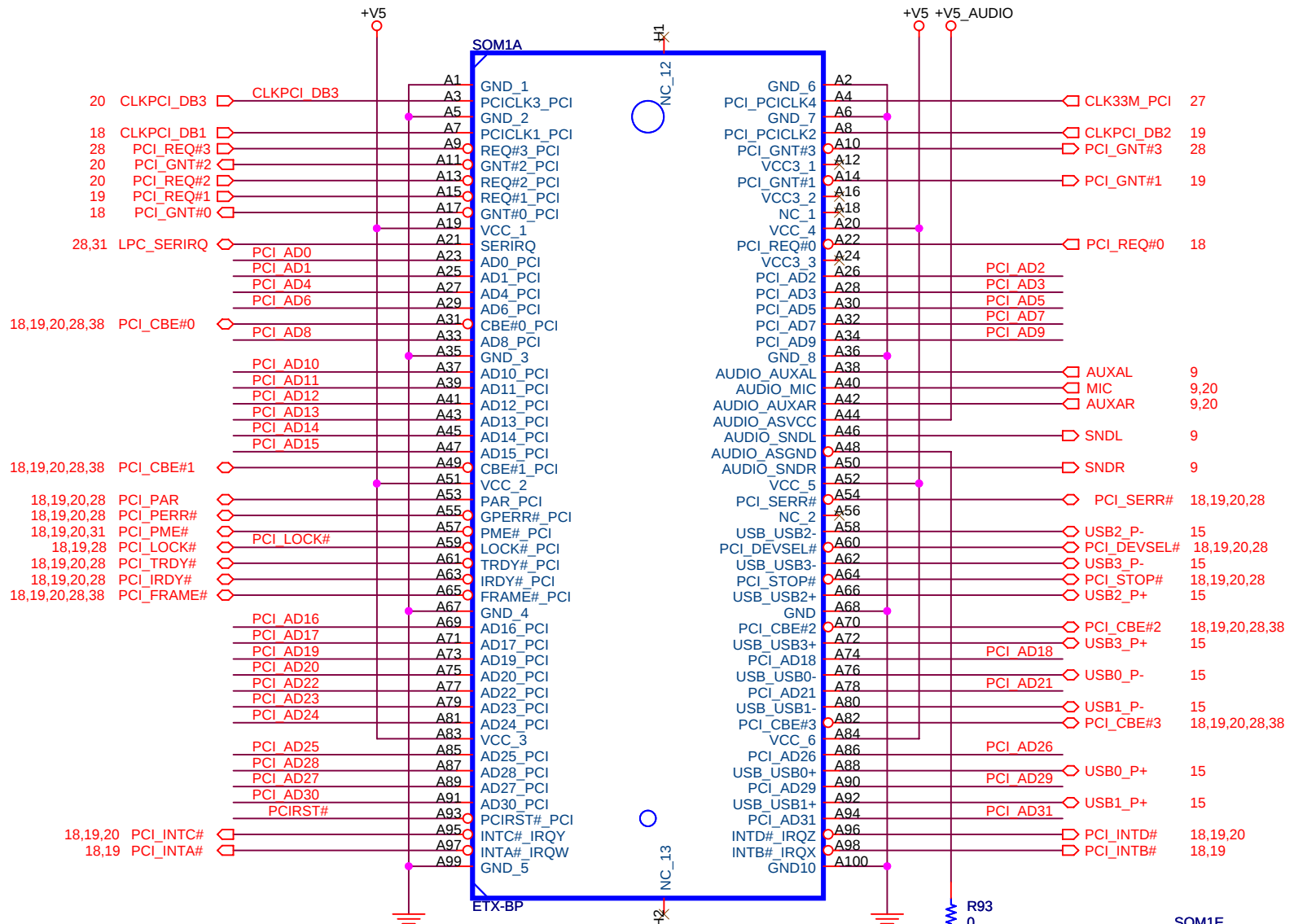
ADVANTECH	
Title	
Note	
Size	Document Number
	SOM-DB4700 A1 01-3
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SOM-DB4700 Schematics

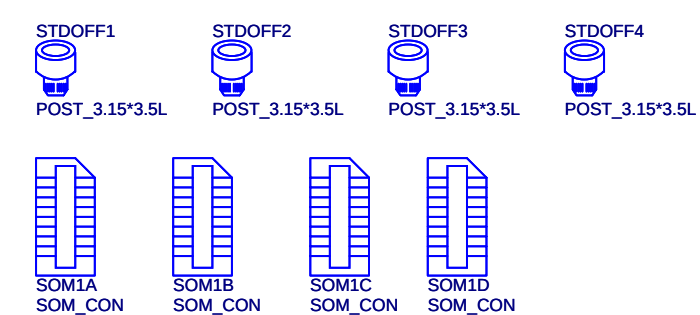
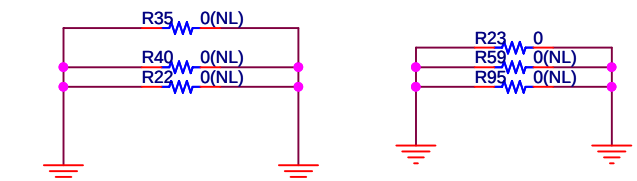
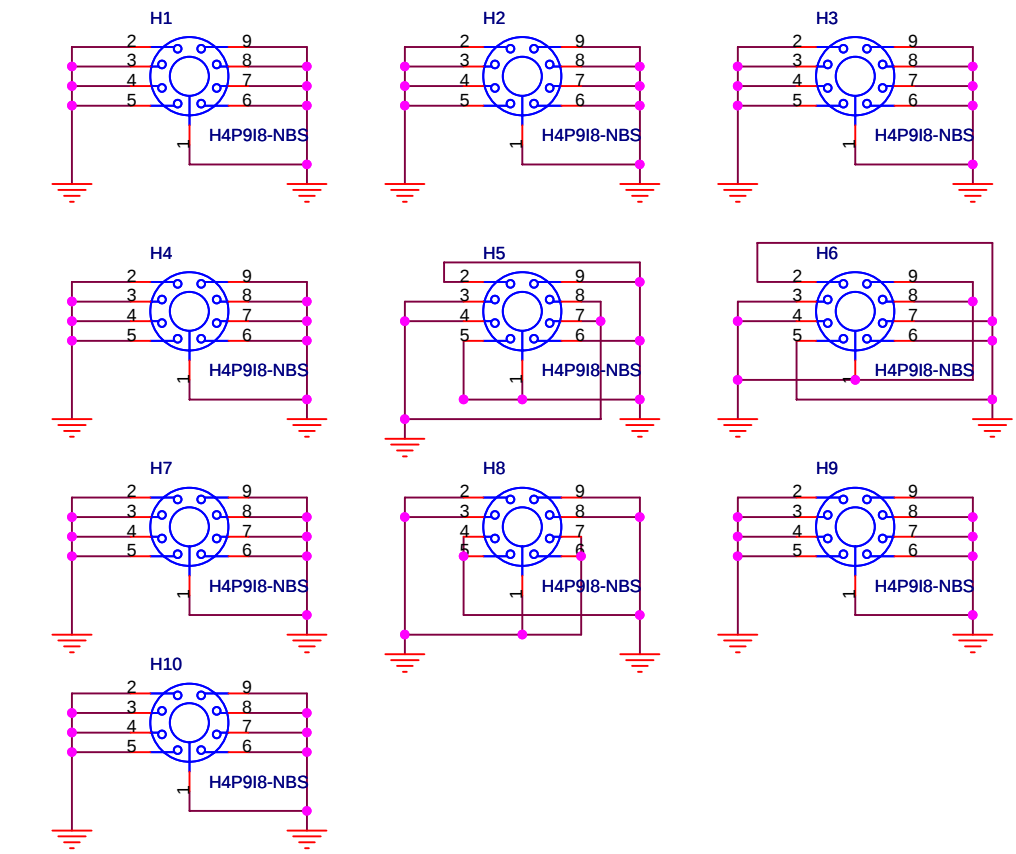
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20	MINI PCI	40	Power Map





18,19,20,28,38 PCI_AD[31..0] PCI_AD[31..0]
18,19,20,28,38 PCI_CBE#[3..0] PCI_CBE#[3..0]
18,19,20,28,38 PCI_AD[15..0] PCI_AD[15..0]

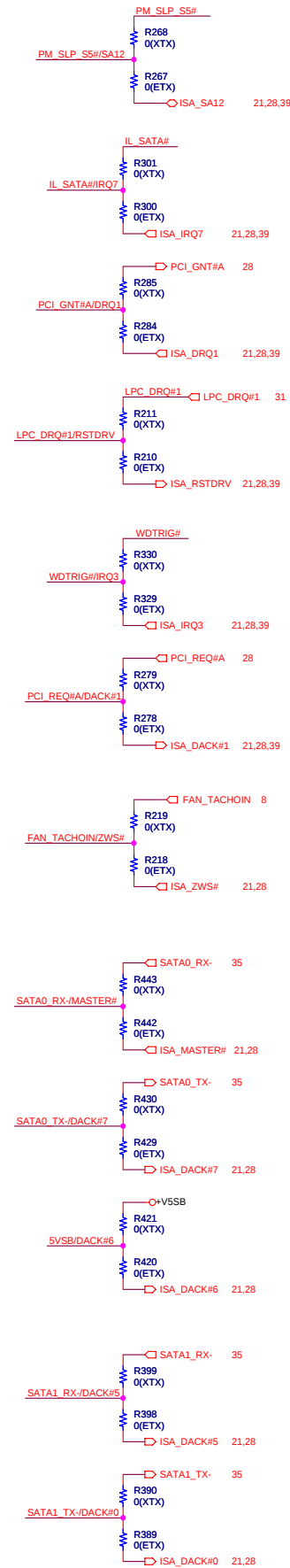
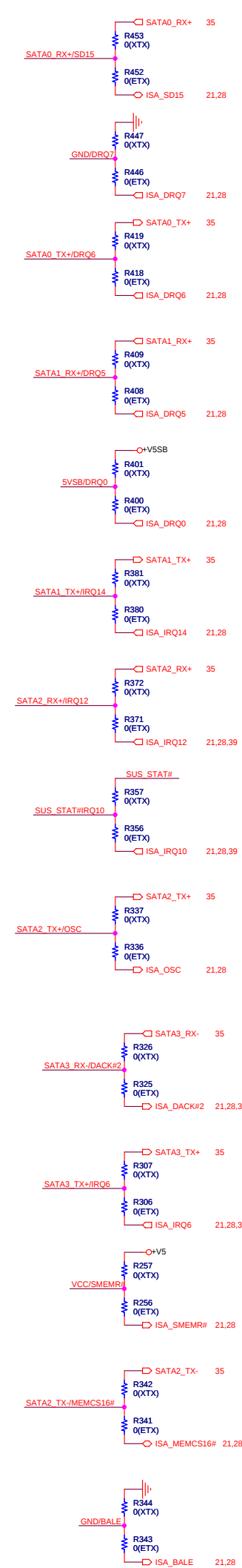
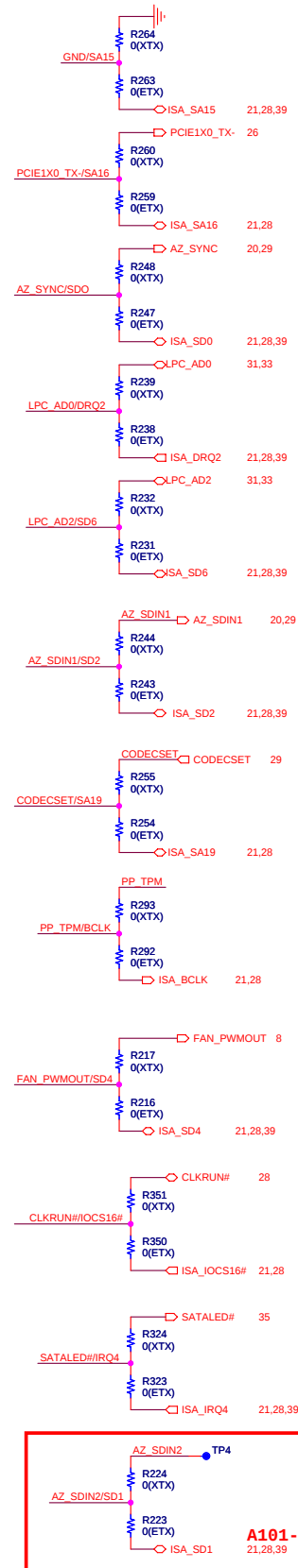
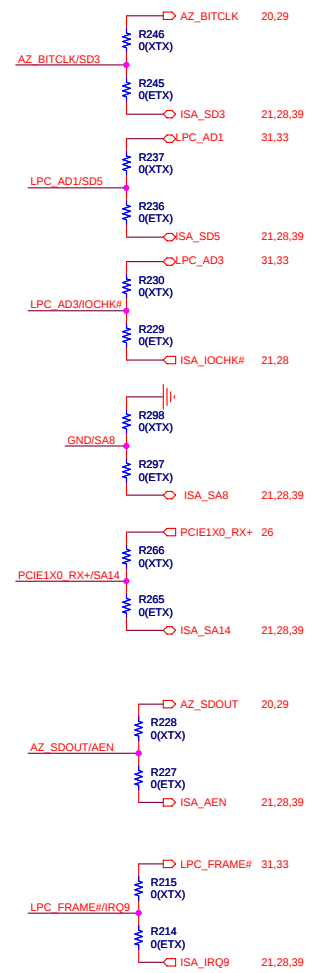
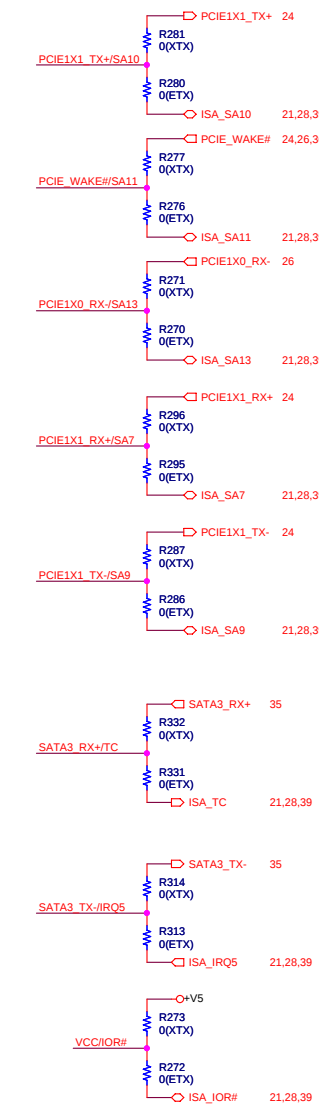
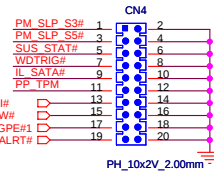


PCB1
19C6470002

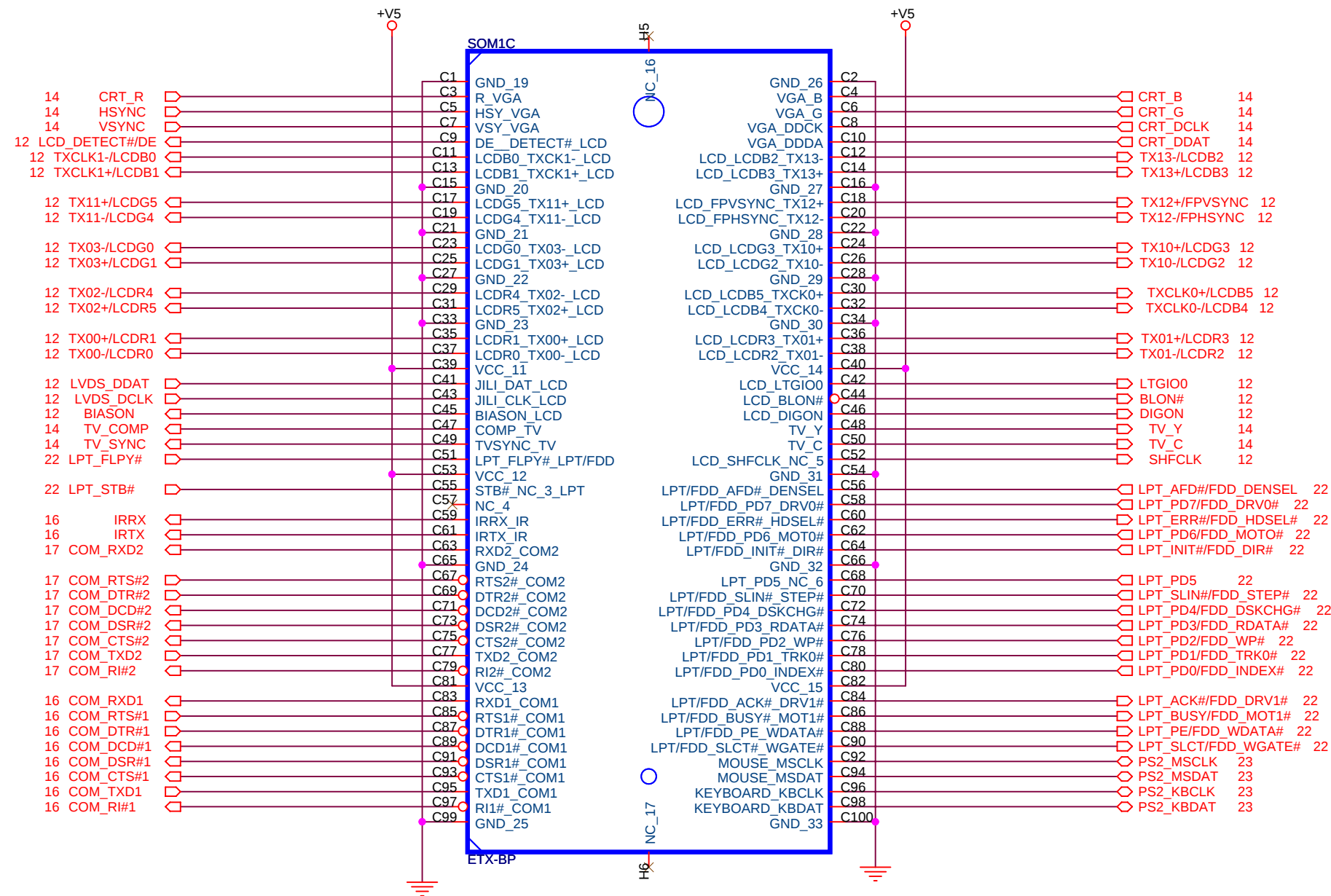
ADVANTECH		
Title		
SOM Carrier Connector X1		
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Pin-to-pin connection diagram for the SCS1B component. The diagram shows two 100-pin components connected via a central bus. The left component (pins 1-100) is labeled 'SCS1B' and the right component (pins 1-100) is labeled 'NC_14'. The connection is made through a central bus labeled 'NC_14'. The diagram includes various signal names and pin numbers, such as B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B11, B12, B13, B14, B15, B16, B17, B18, B19, B20, B21, B22, B23, B24, B25, B26, B27, B28, B29, B30, B31, B32, B33, B34, B35, B36, B37, B38, B39, B40, B41, B42, B43, B44, B45, B46, B47, B48, B49, B50, B51, B52, B53, B54, B55, B56, B57, B58, B59, B60, B61, B62, B63, B64, B65, B66, B67, B68, B69, B70, B71, B72, B73, B74, B75, B76, B77, B78, B79, B80, B81, B82, B83, B84, B85, B86, B87, B88, B89, B90, B91, B92, B93, B94, B95, B96, B97, B98, B99, B100. The diagram also shows various signal names like SAT0A RX+/SD15, SAT0A TX-/MASTER, GND00D0, SAT0A TX-/DACQ#7, SAT0A TX-/DRQ#6, V5VSD1ACK#4, SAT1A RX-/DRQ#5, SAT1A RX-/DACQ#5, V5VSDRQ0, SAT1A TX-/DACQ#0, SAT1A TX-/IRQ#14, GNDI0R15, SAT2A RX-/IRQ#12, SAT2A RX-/IRQ#11, V5S STATI0R10, CLKFRUN#I0CS16#, SAT2A TX-/MOSC, SAT2A TX-/MOSC, SAT2A RX-/ITC, SAT3A RX-/DACQ#1, WDTG#I0R1Q3, SAT4EDW#I0RQ4, SAT3A TX-/RQ#5, SAT3A TX-/IRQ#6, IL SAT4/RQ#6, PP TPMBCLK, ISA REFRESH#, PCI CNT4/ADRQ#1, ISA DRQ#3, ISA DACQ#3, VCCI0R#1, ISA IOW#, VCCS#MEMR#, ASDOUT#AEN, A2 SDI0#S/MEMW#, A2 SDI2#SD1, FAN TACHIN#DZWSM#, FAN PWMQ#D0, FAN FRM#I0RQ#9, LNC PNC#I0D57, LNC DRQ#I0R5TDRV. The diagram also shows various power and ground connections like +V5, GND, and NC_14.

CN4
For RD debug

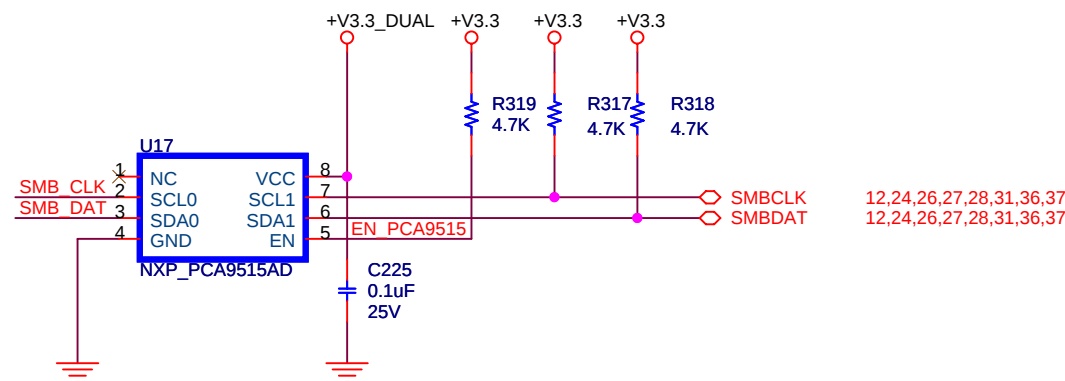
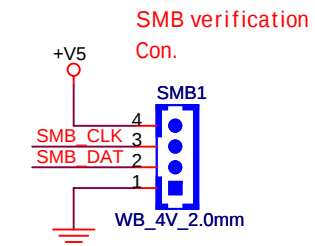
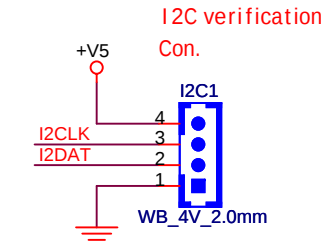
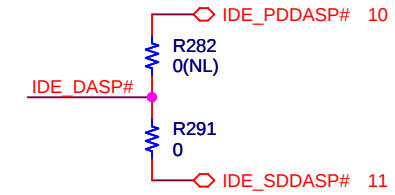
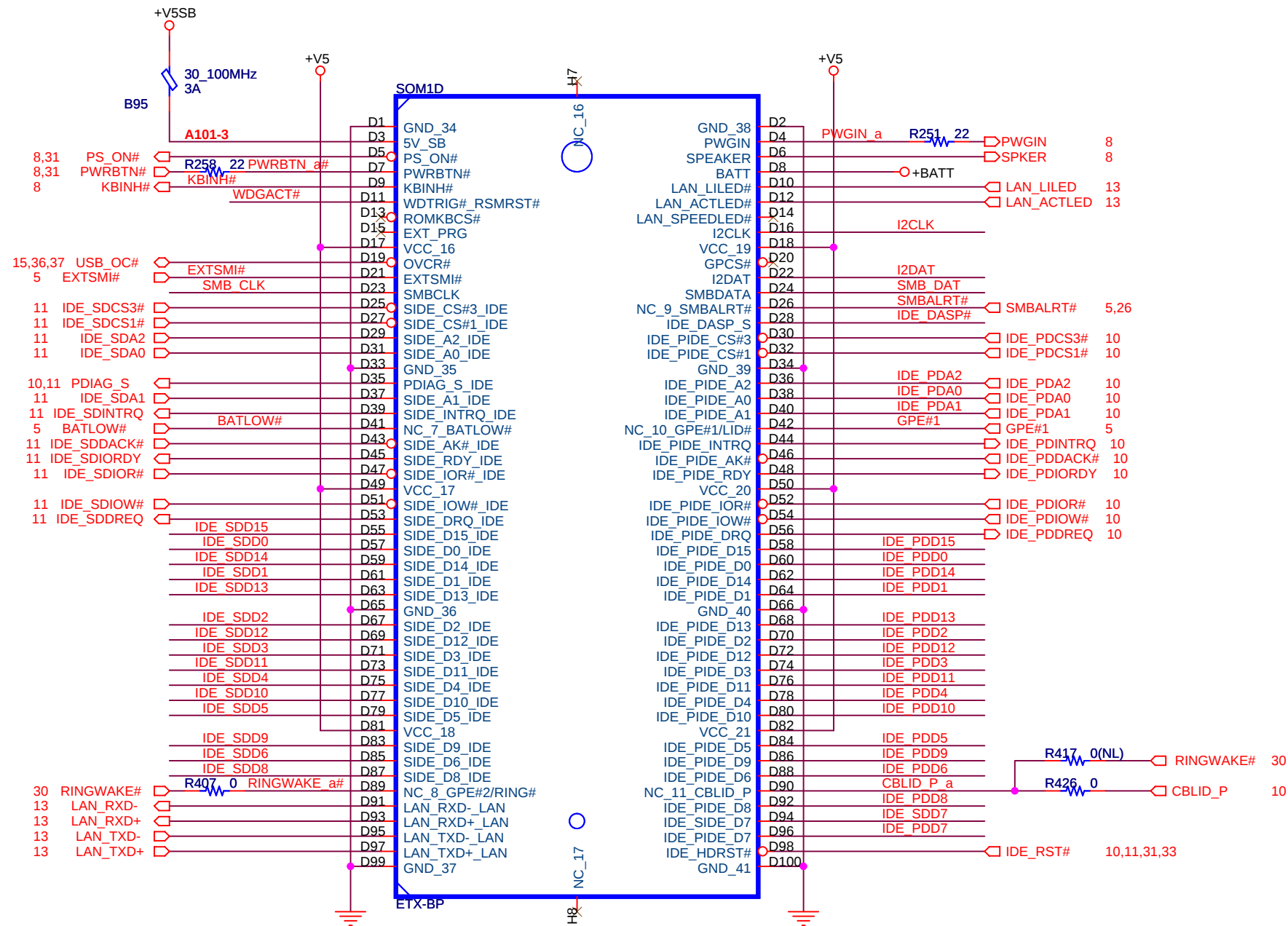
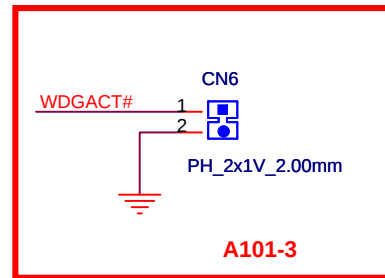


CRT TV LVDS/TTL IR COM LPT/FDD PS2

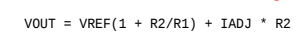
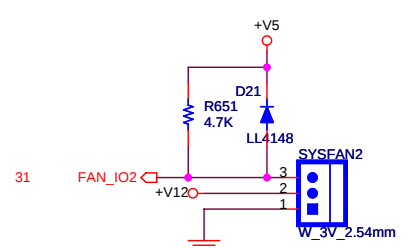
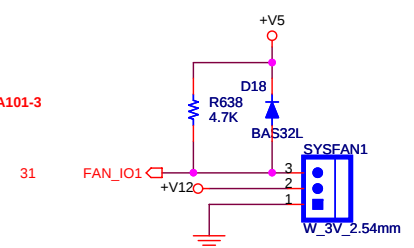
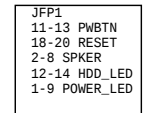
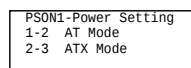
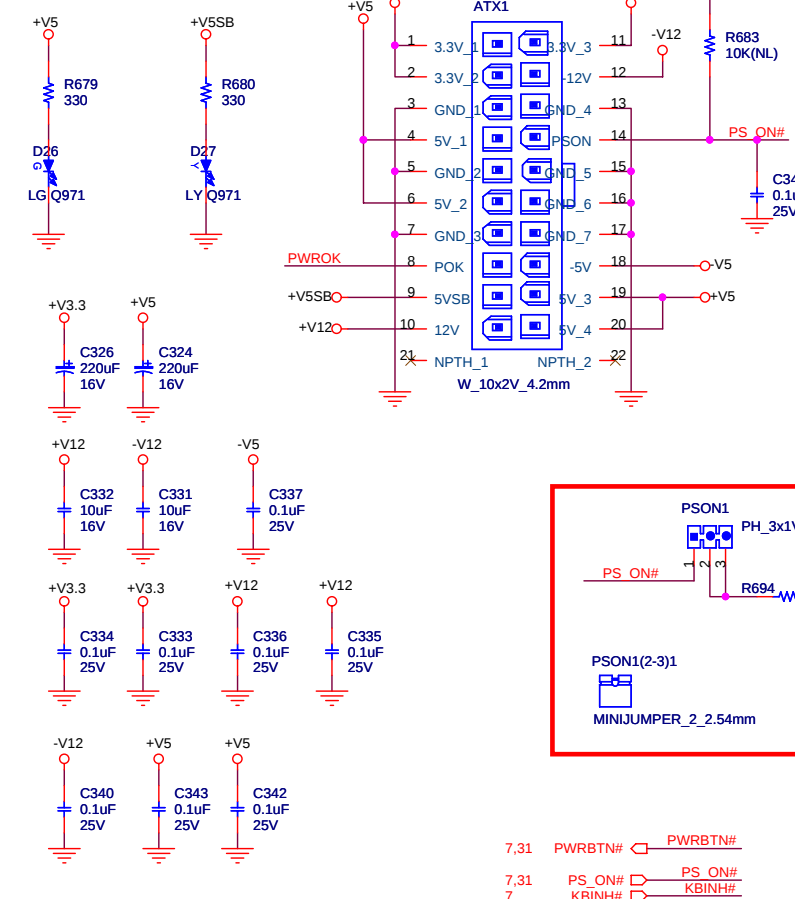


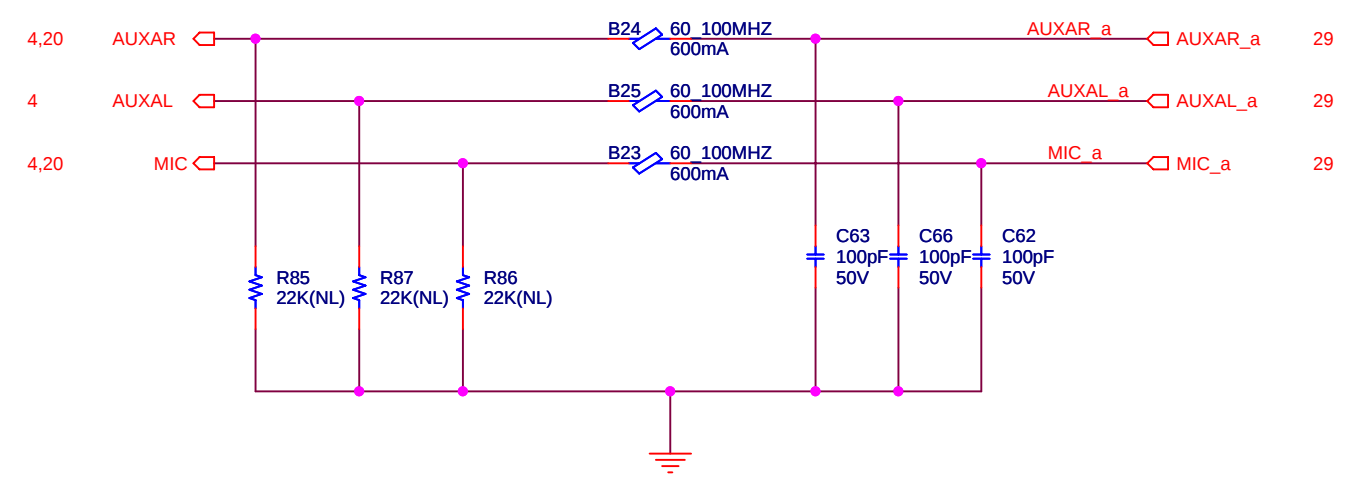
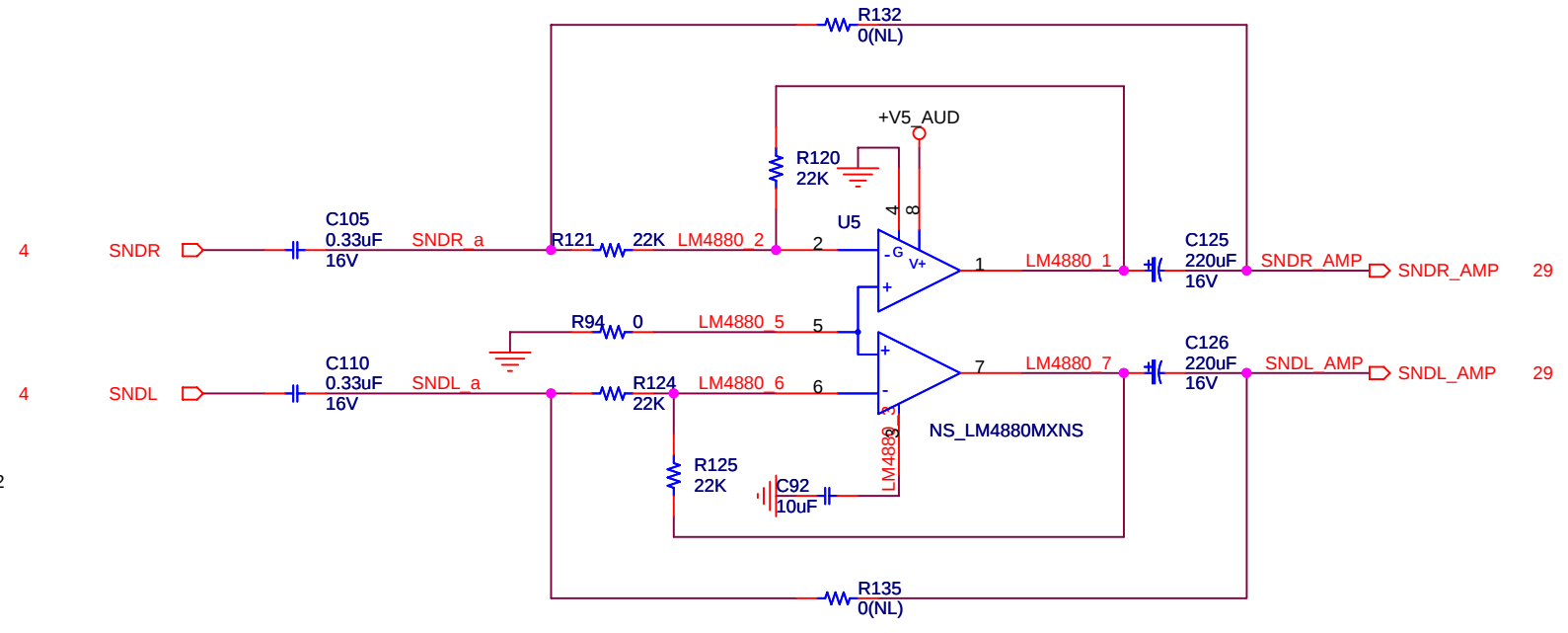
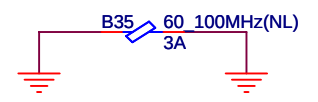
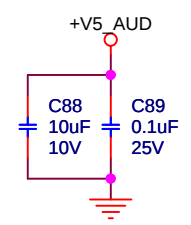
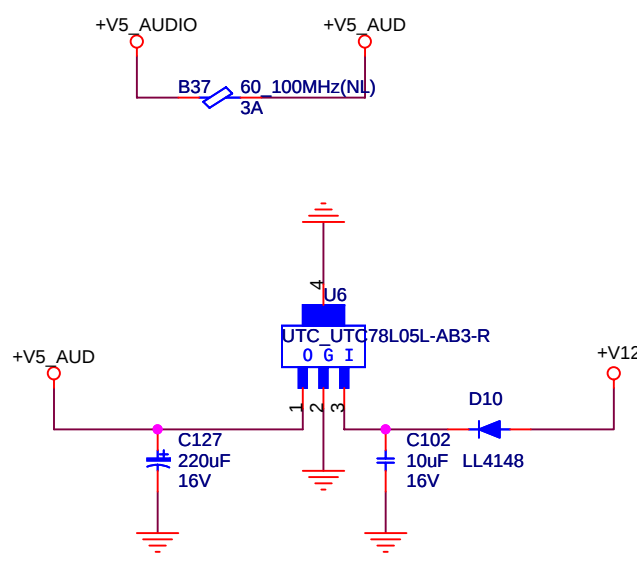
Power-ON IDE LAN

10 IDE_PDD[15:0] IDE_PDD[15:0]
11 IDE_SDD[15:0] IDE_SDD[15:0]

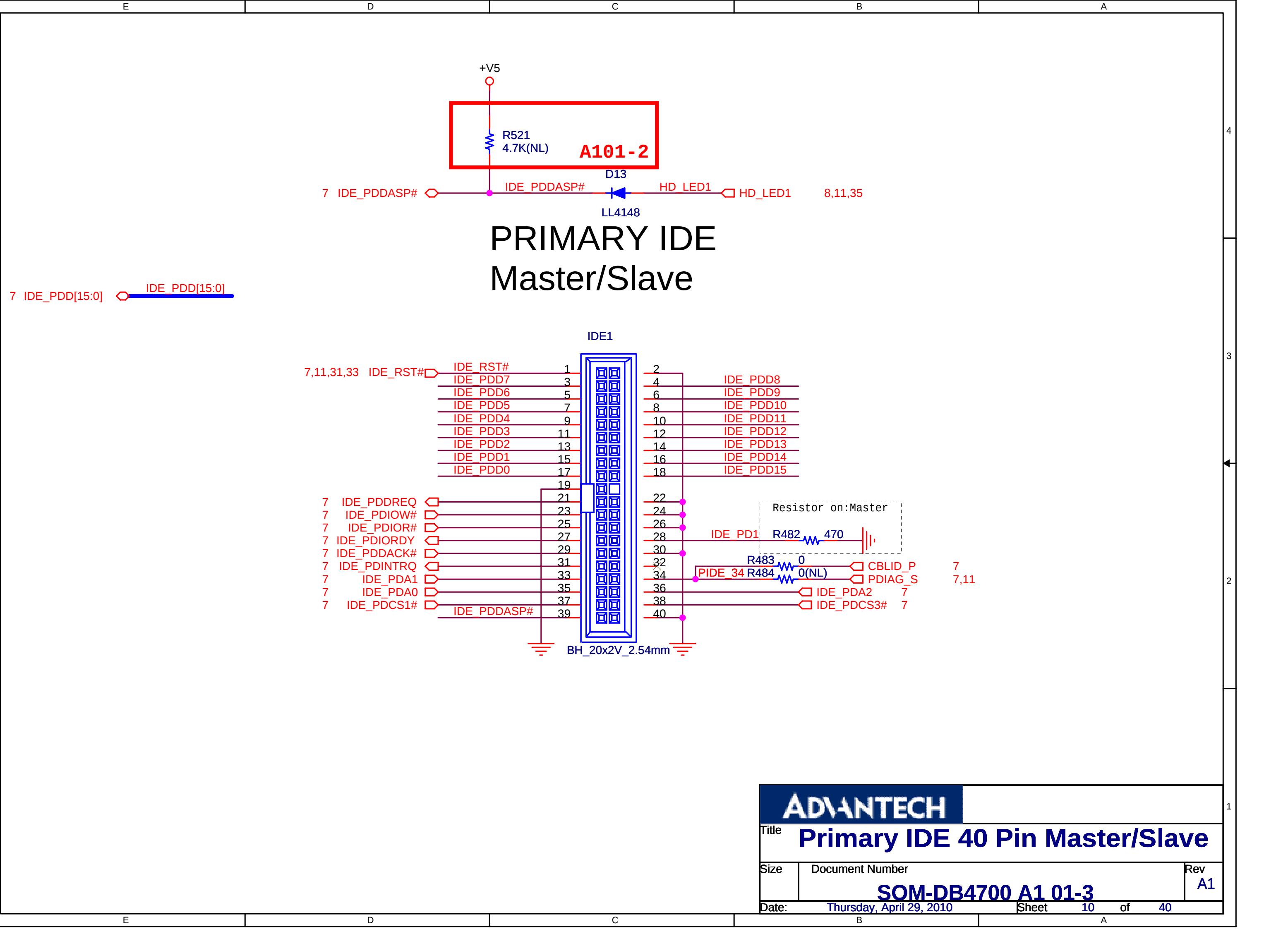


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SOM Carrier Connector X4		
Size	Document Number	Rev
	SOM-DB4700 A1 01-3	A1
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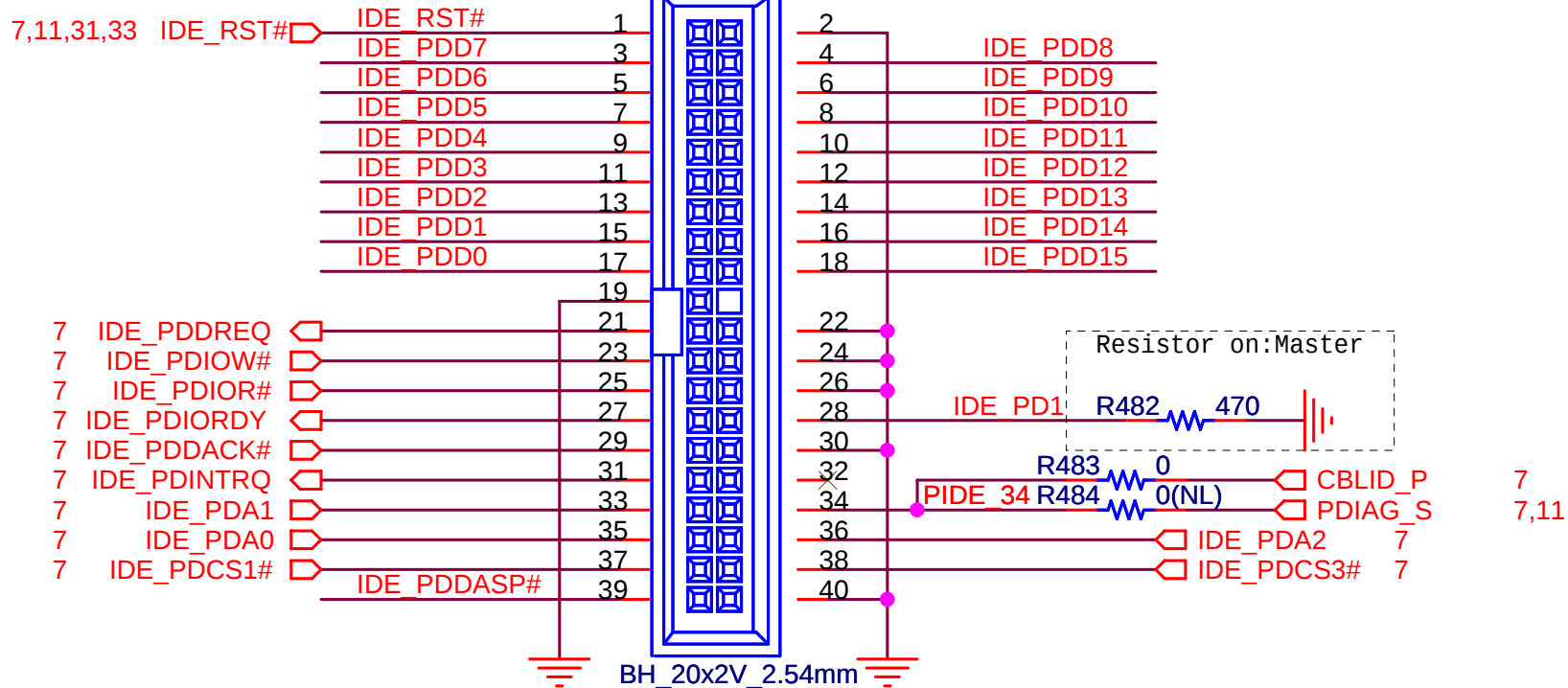


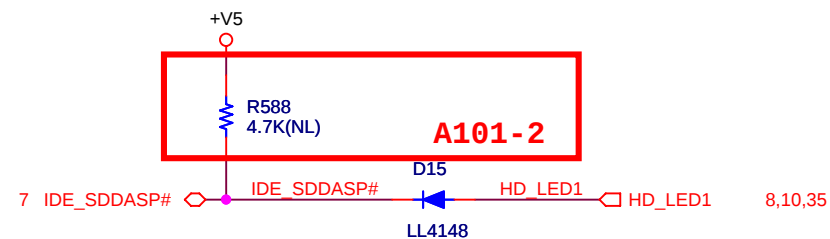
ADVANTECH		
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Size	Document Number	Rev
	SOM-DB4700 A1 01-3	A1
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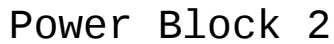
PRIMARY IDE Master/Slave

IDE1



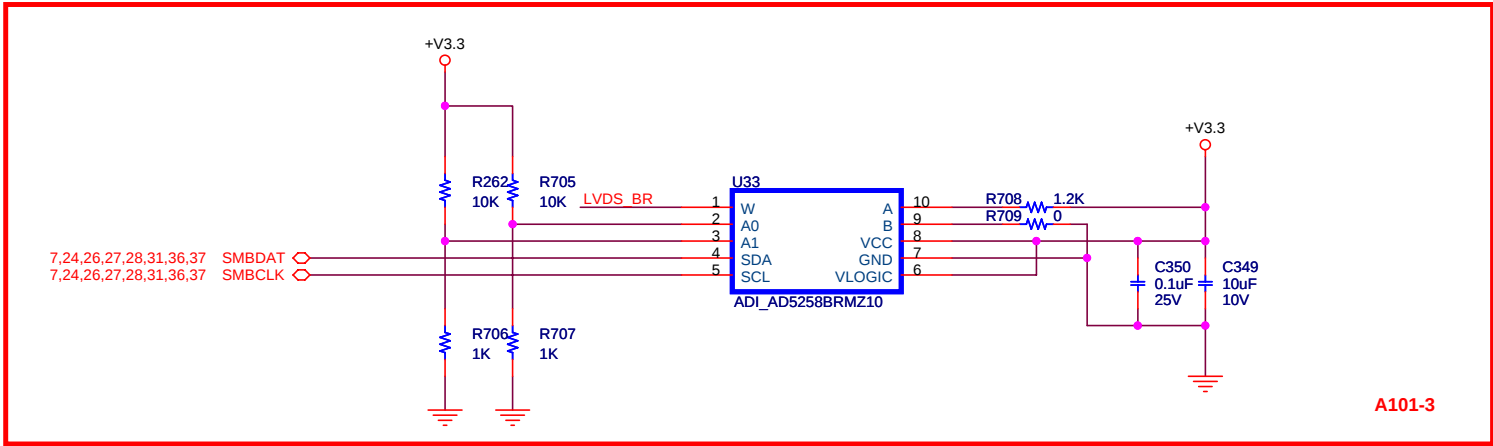


A101-2



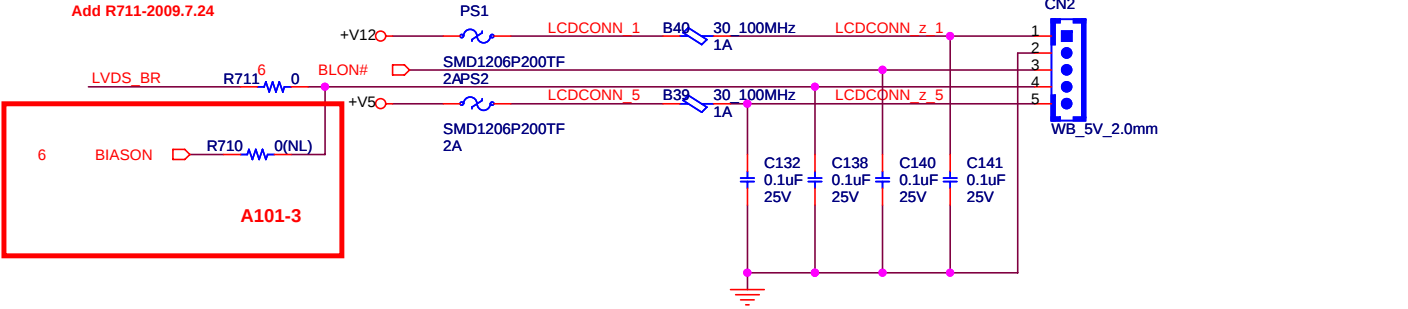
Power Block 1

Note: If need power switch supprt add it on the schematic



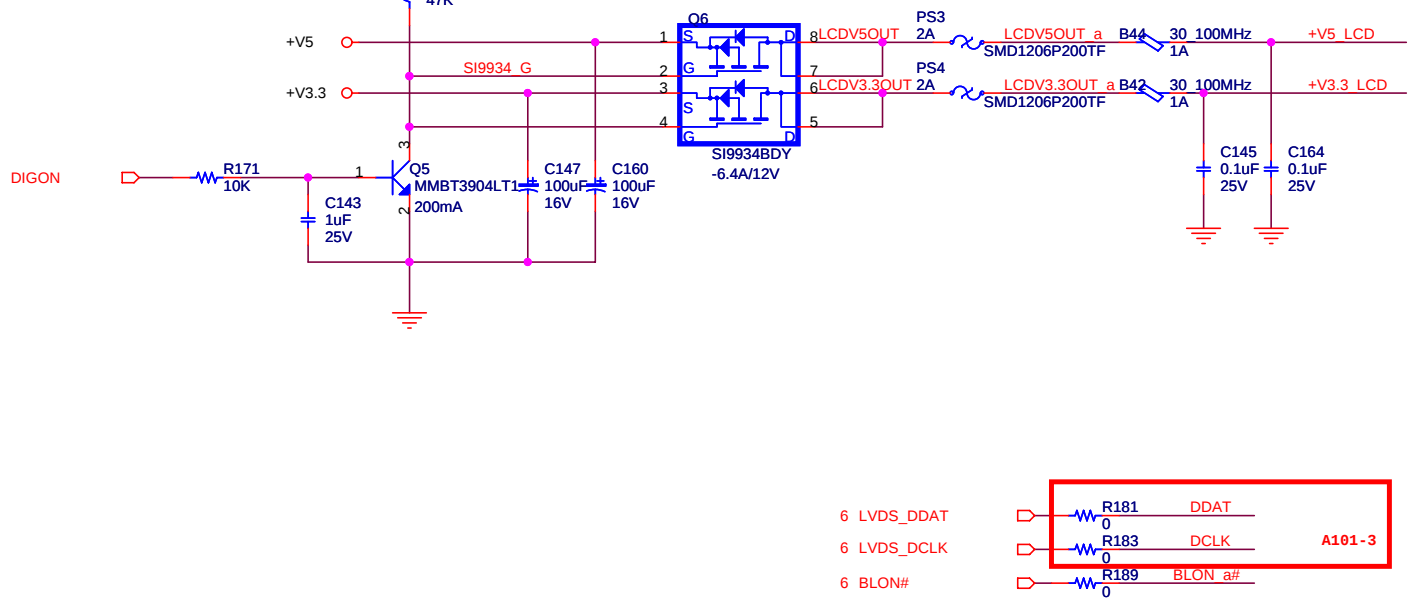
INVERTER POWER

LCD INVERTER CONN.

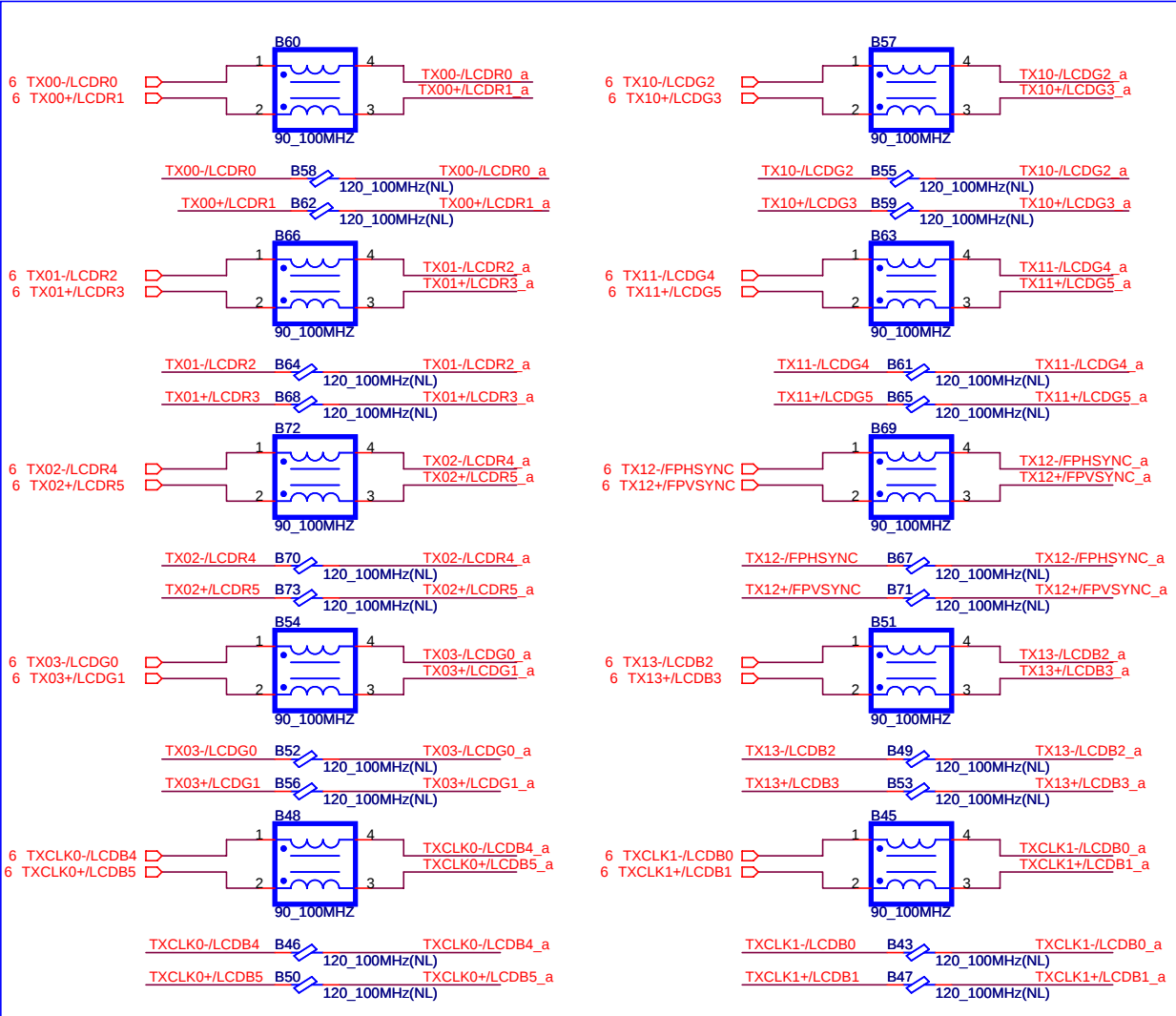


LCD POWER

LCD POWER EMI SOLUTION

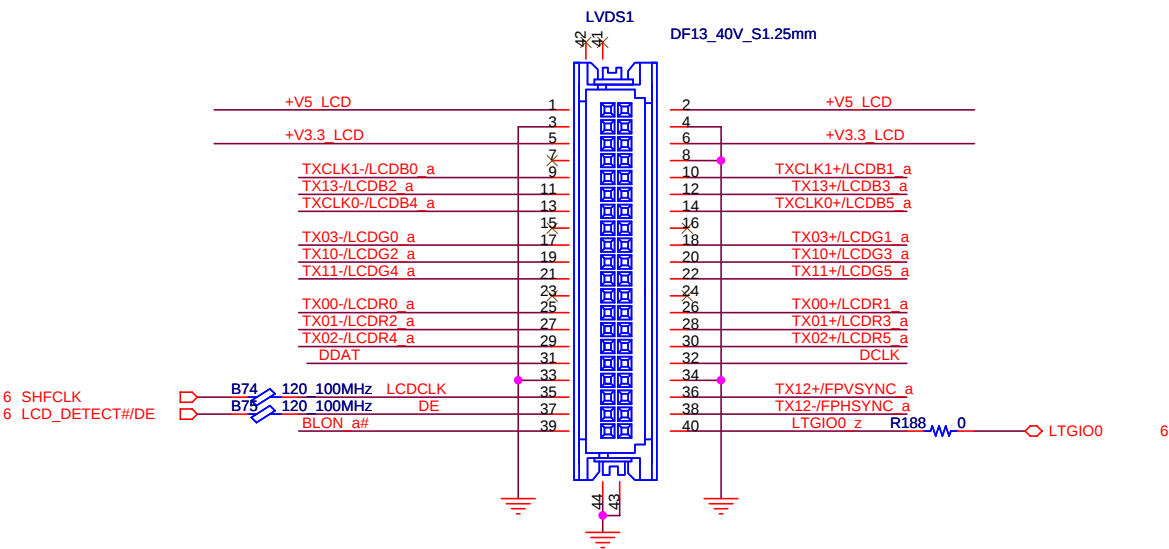


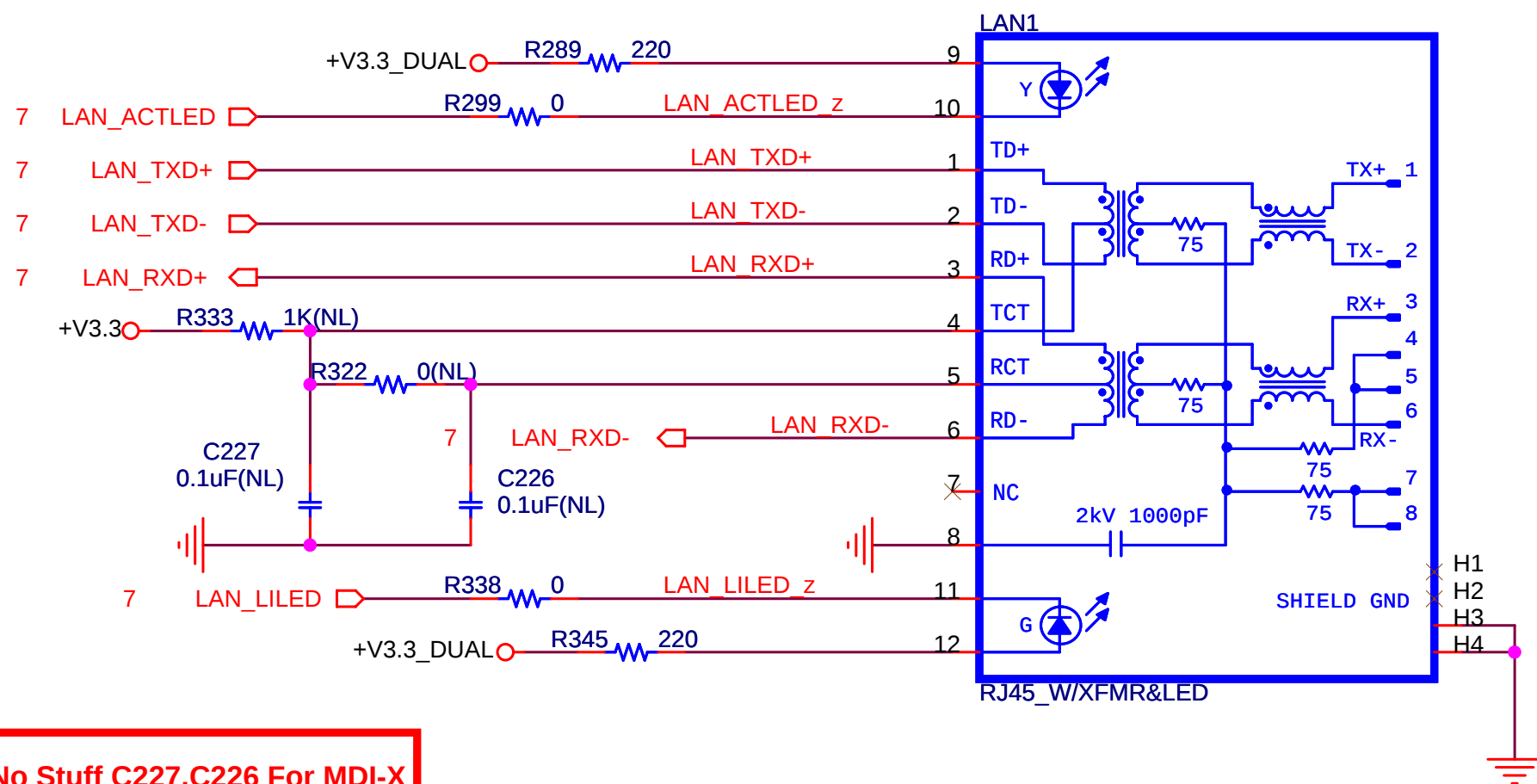
LVDS EMI SOLUTION



B60,B57...B45 Inductor Common-MODE FILTER For LVDS
B58,B62...B43,B47 Bead For TTL

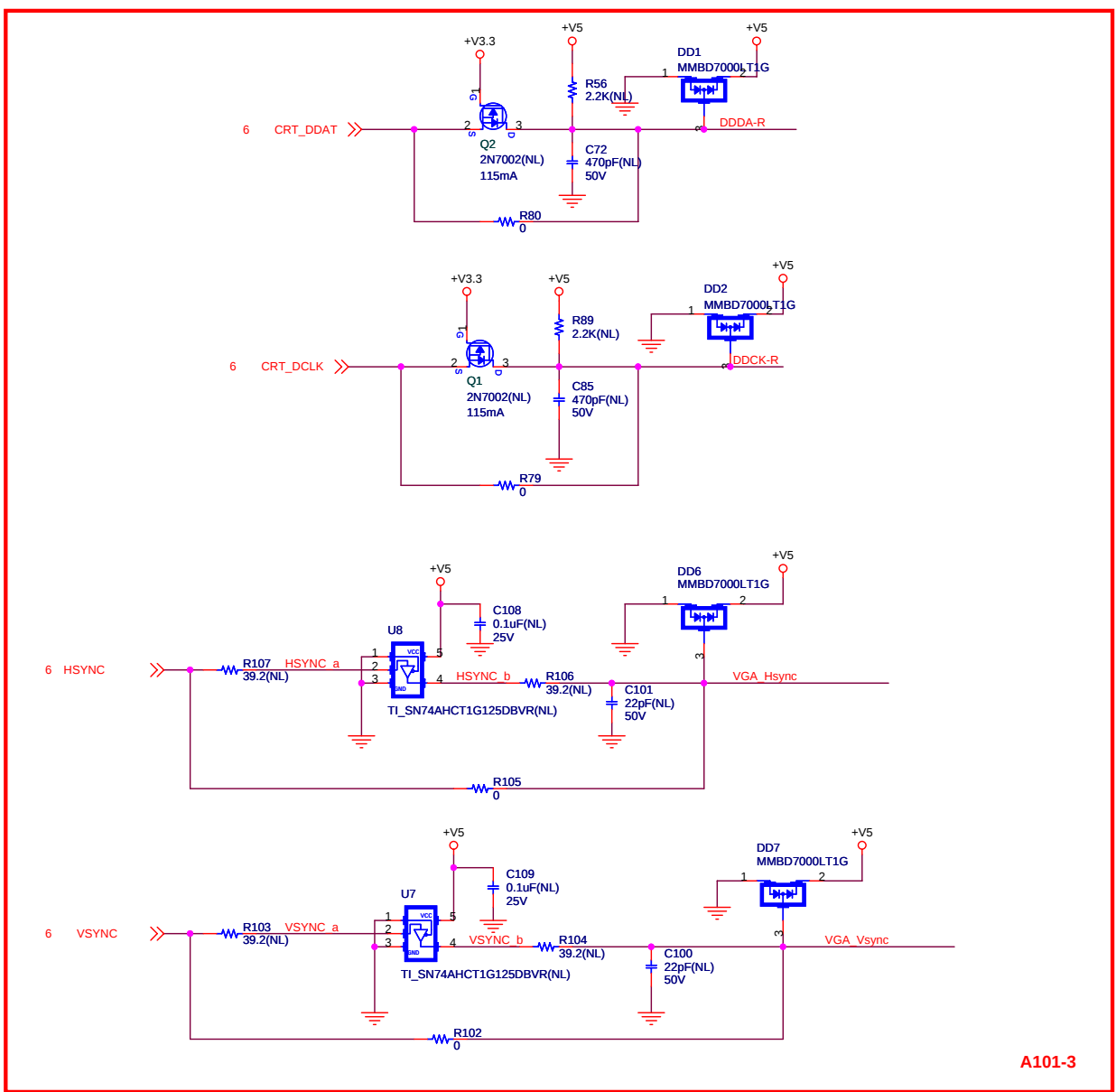
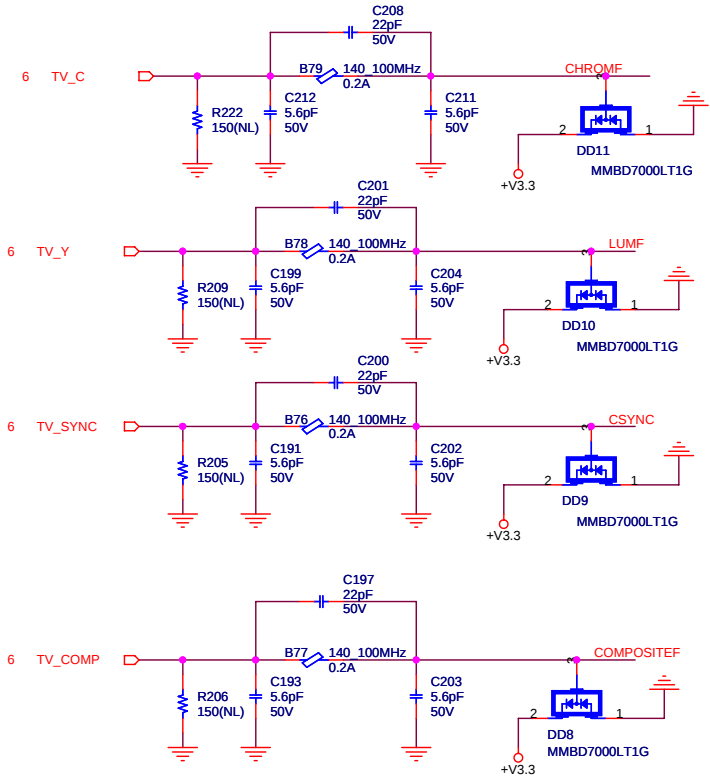
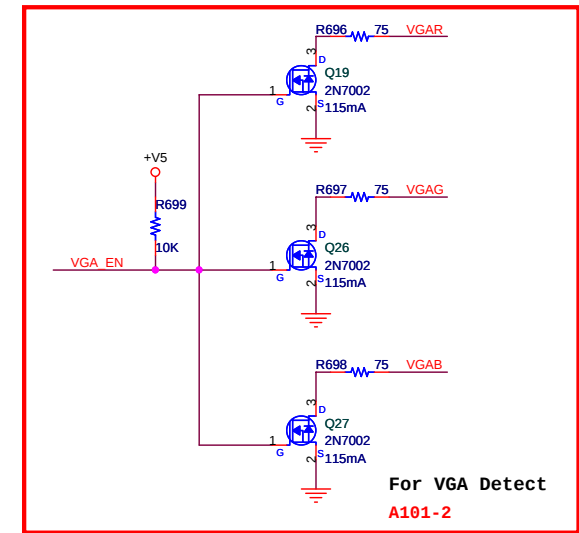
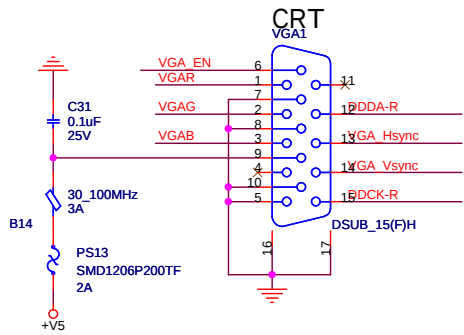
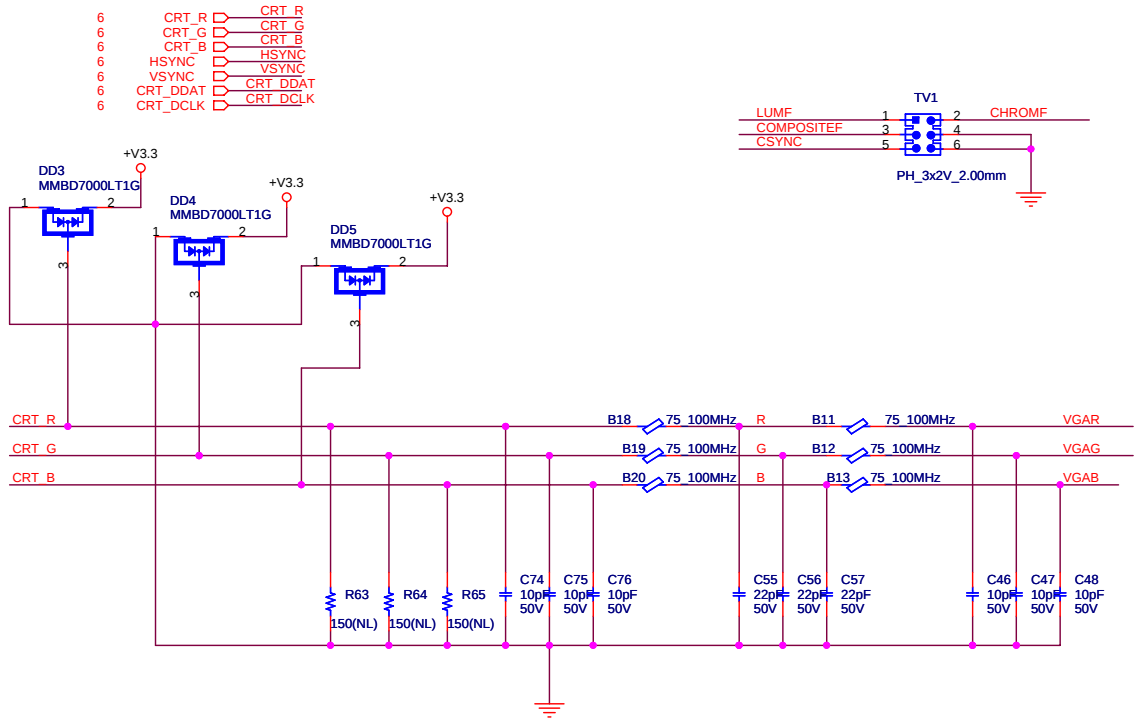
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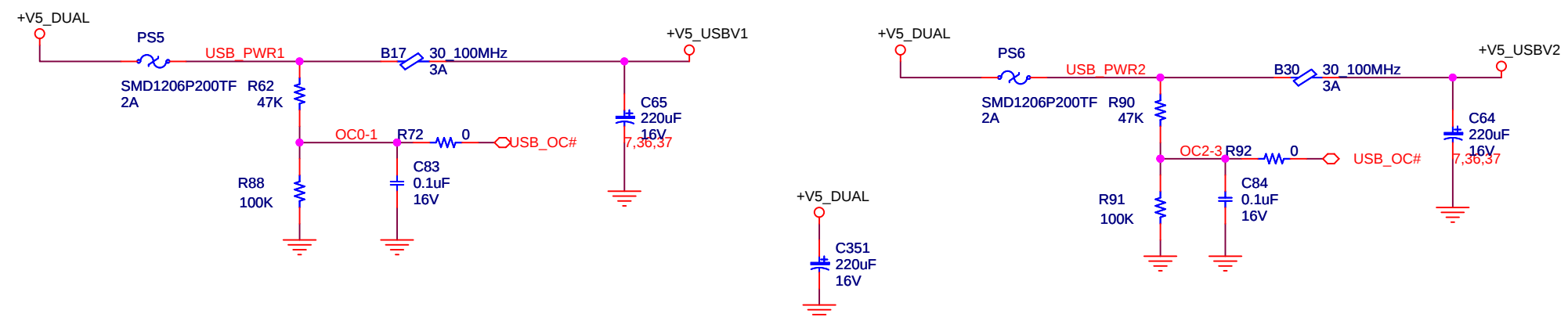




No Stuff C227,C226 For MDI-X

A101-2

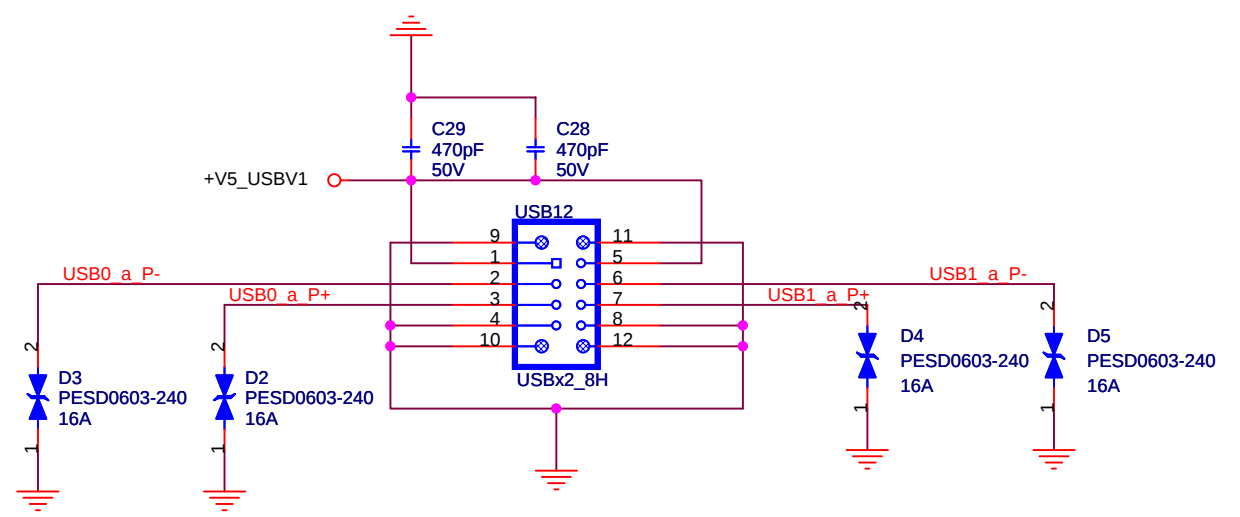
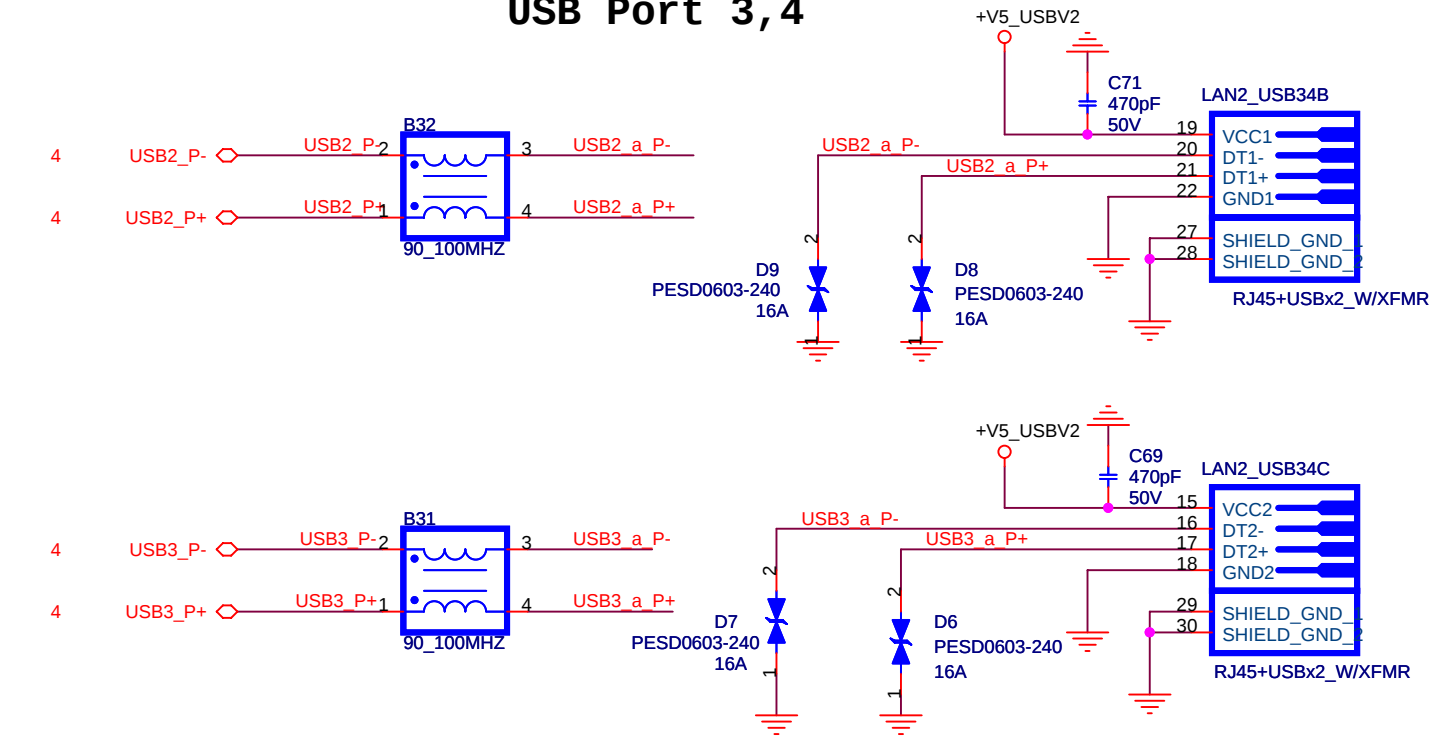




USB Port 1,2

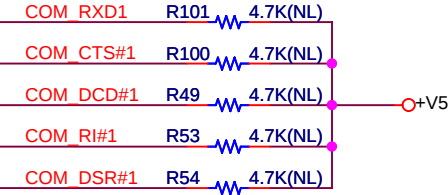
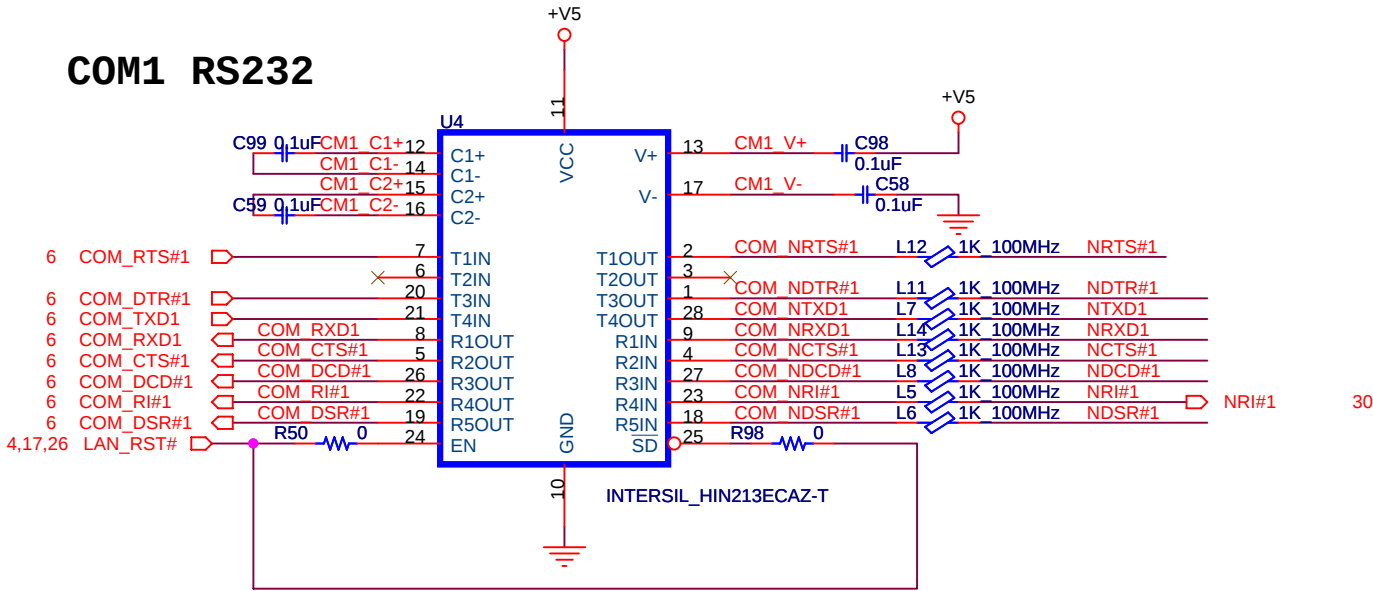


USB Port 3,4

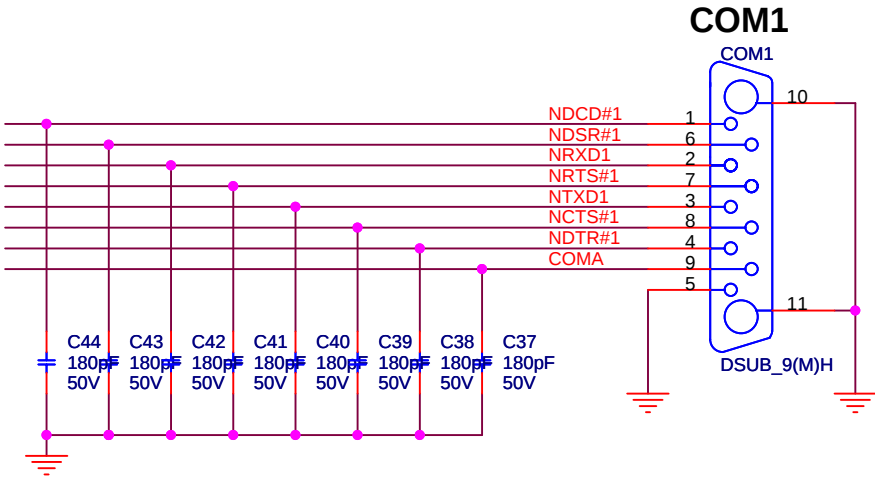
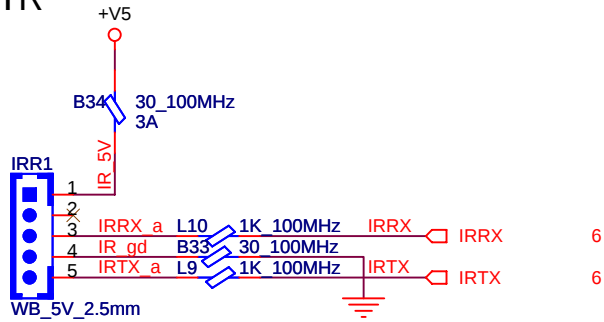


XTX MODE: LAN2_USB34B used for USB and G-LAN function
ETX MODE: only need USB function connector

COM1 RS232

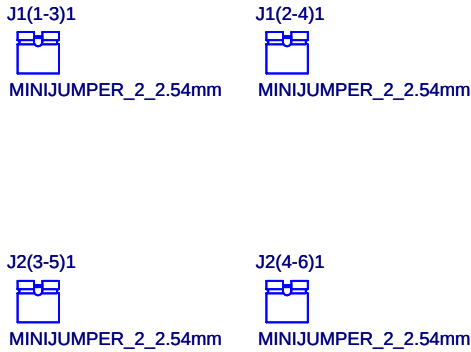
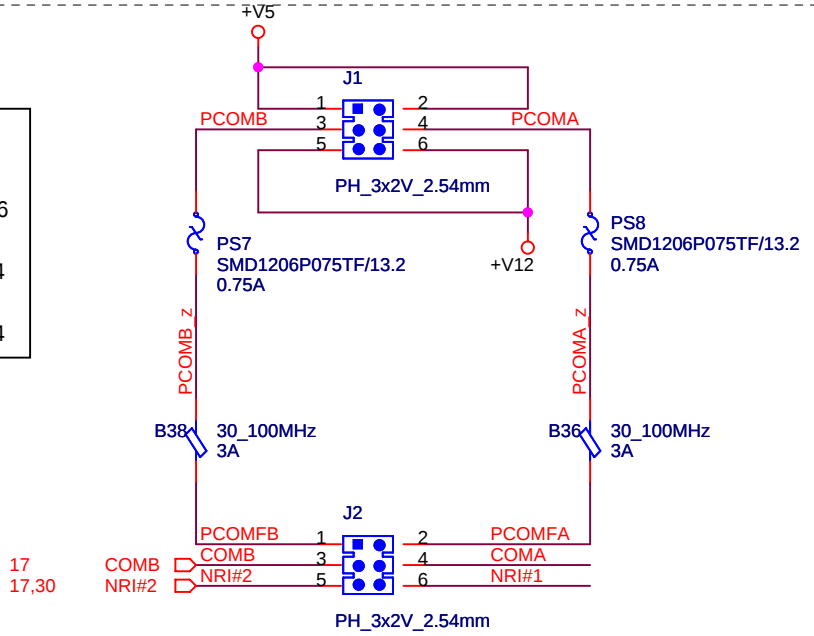
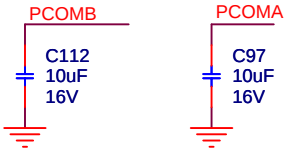


SIR

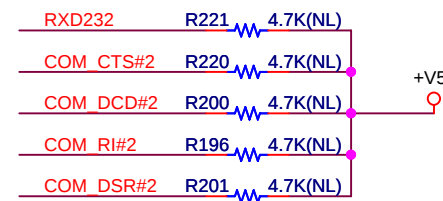
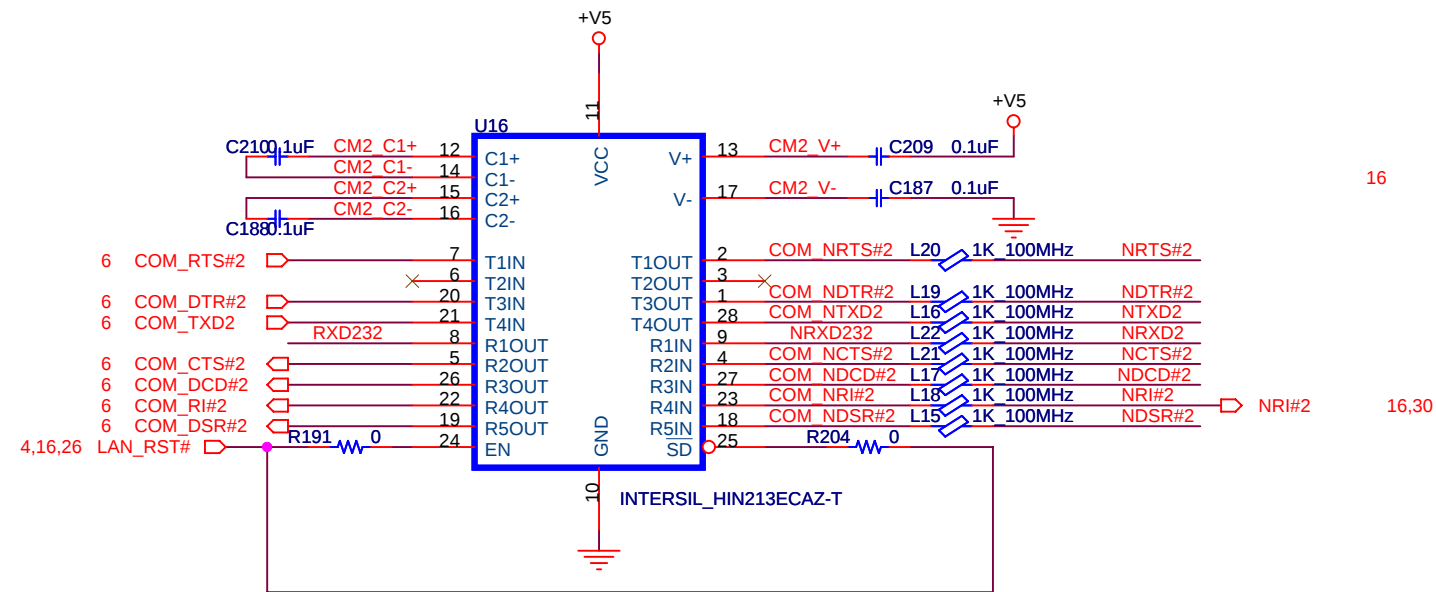


COM 1/COM 2 :

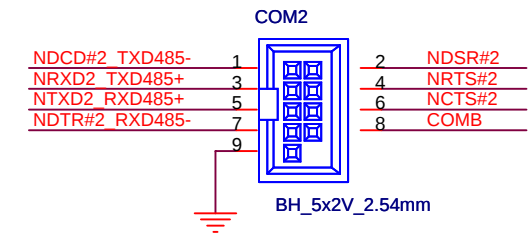
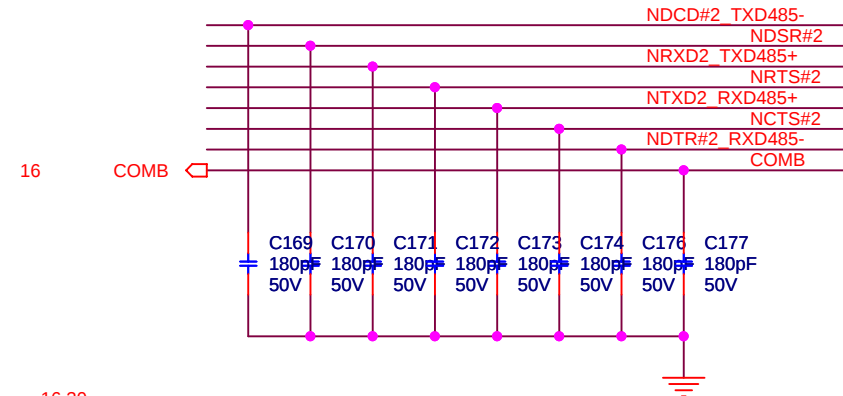
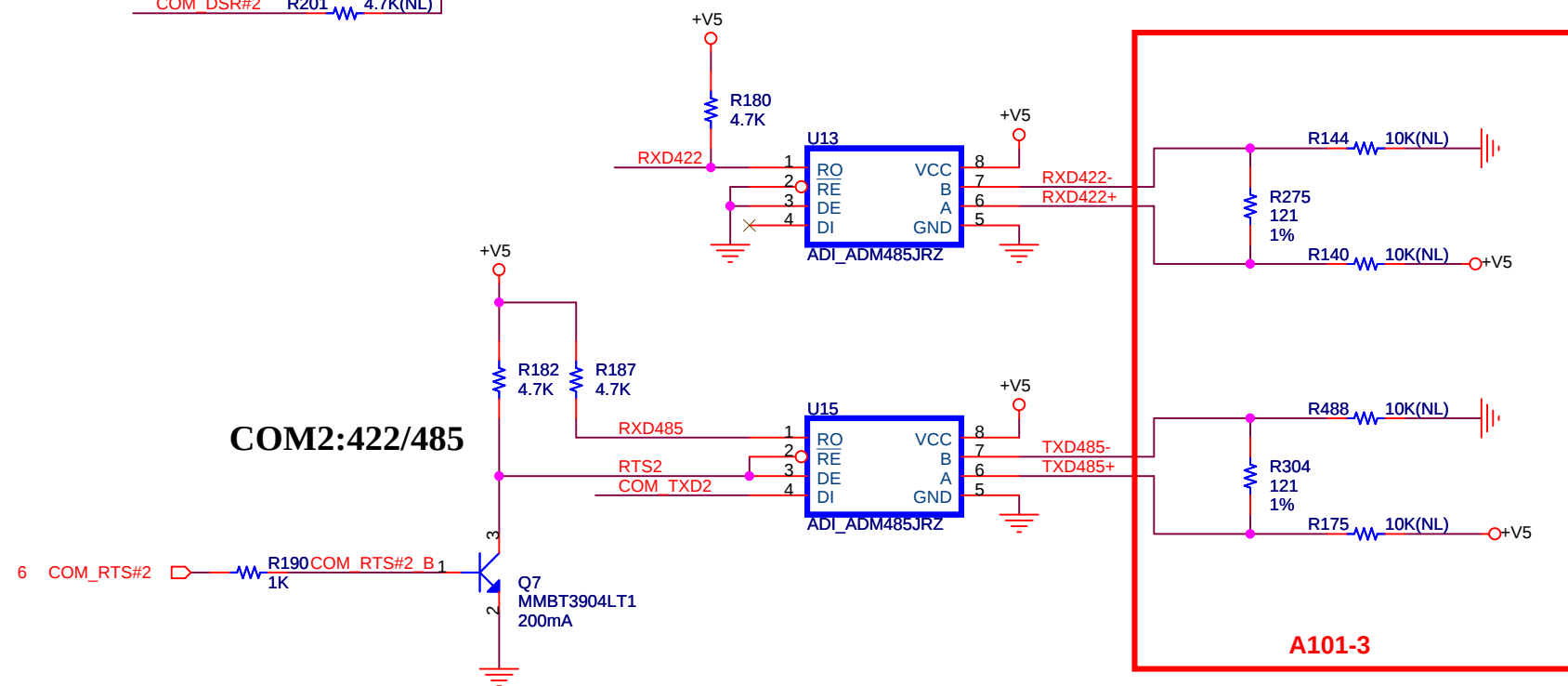
	J1	J2
RING	DON'T CARE	3-5/4-6
VCC5	1-3/2-4	1-3/2-4
+12V	3-5/4-6	1-3/2-4



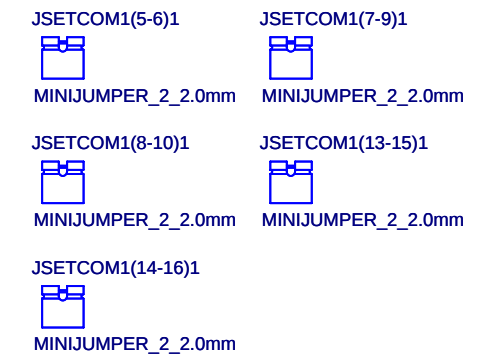
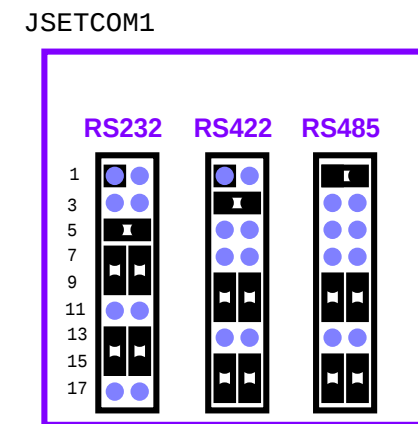
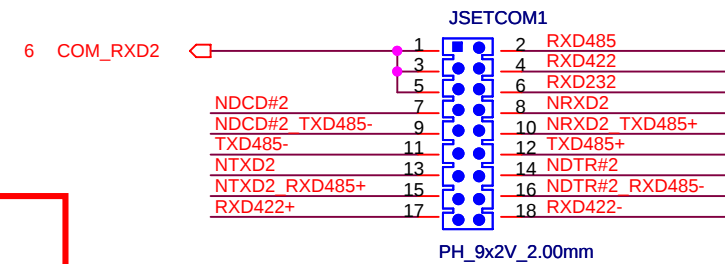
COM2:RS232



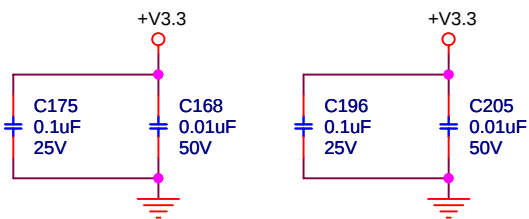
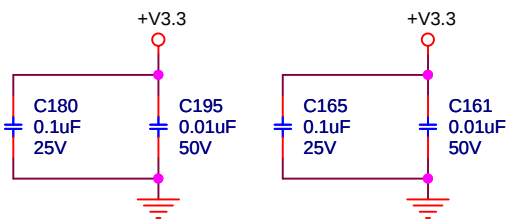
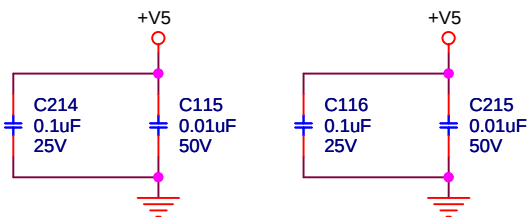
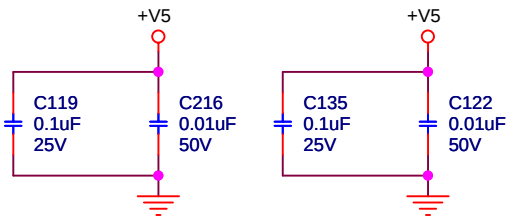
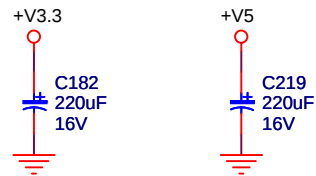
COM2:422/485



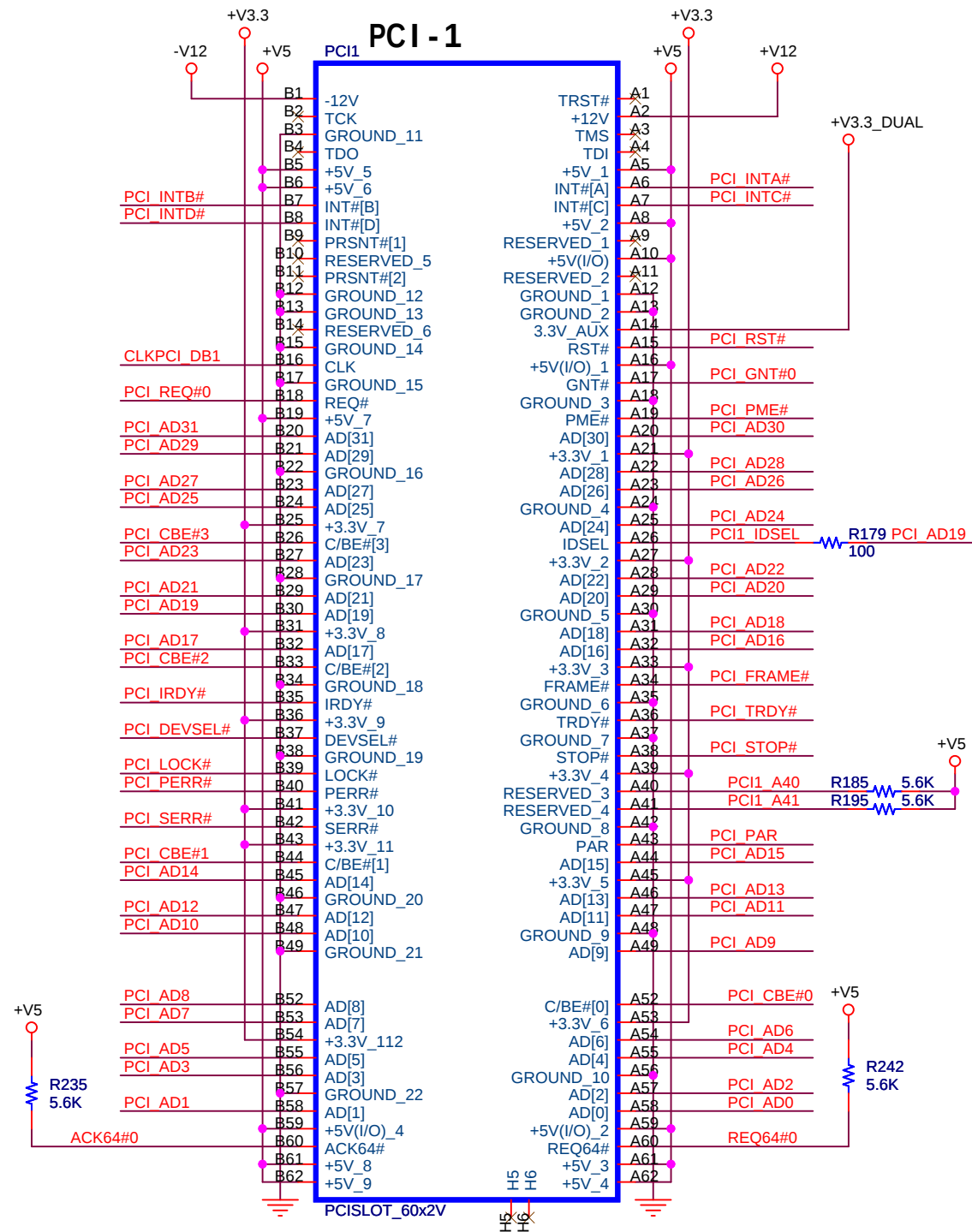
COM2 :RS232/422/485
SEL. JUMPER



4,19,20,28,38 PCI_AD[31..0] PCI_AD[31..0]
4,19,20,28,38 PCI_CBE#[3..0] PCI_CBE#[3..0]



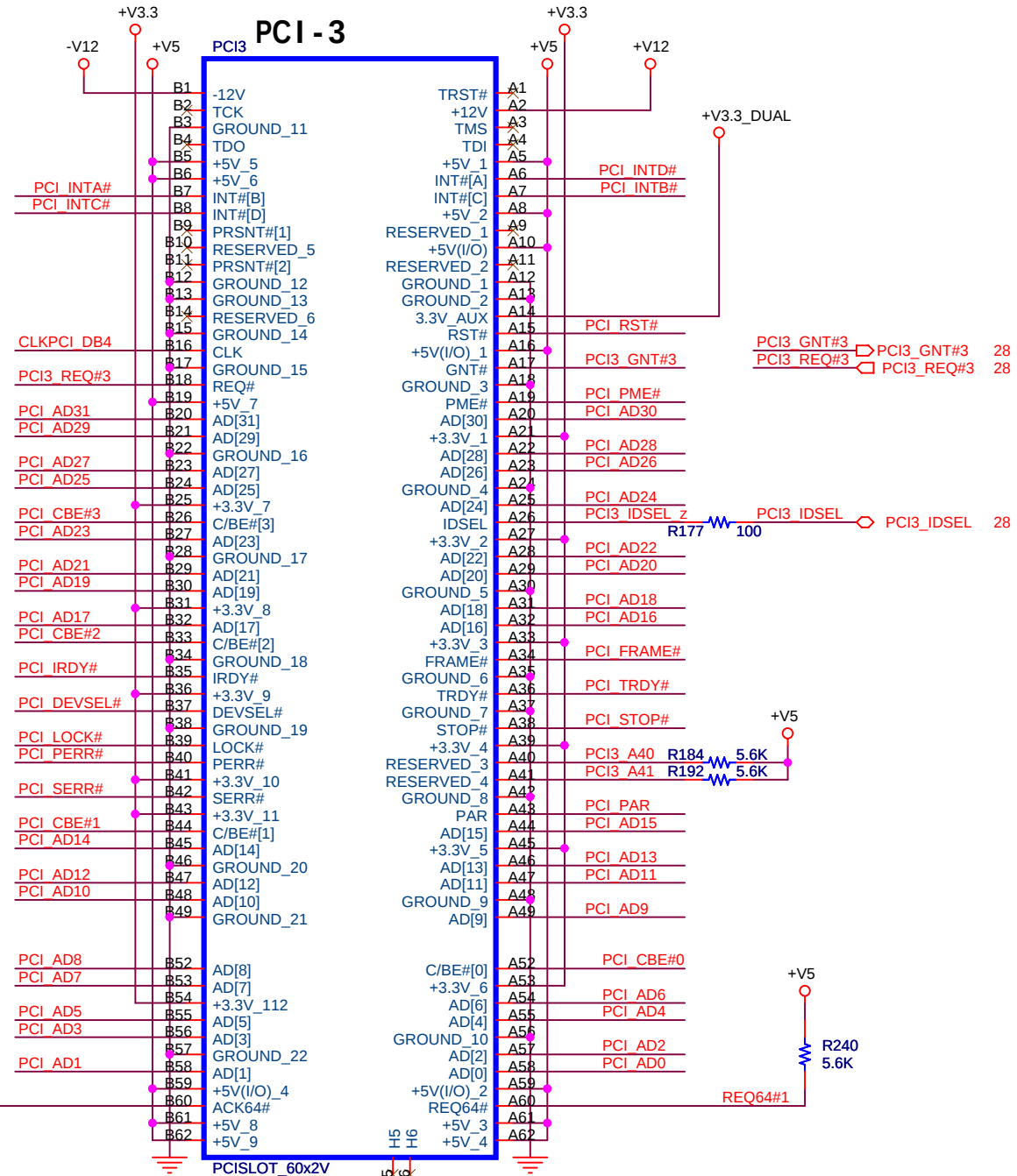
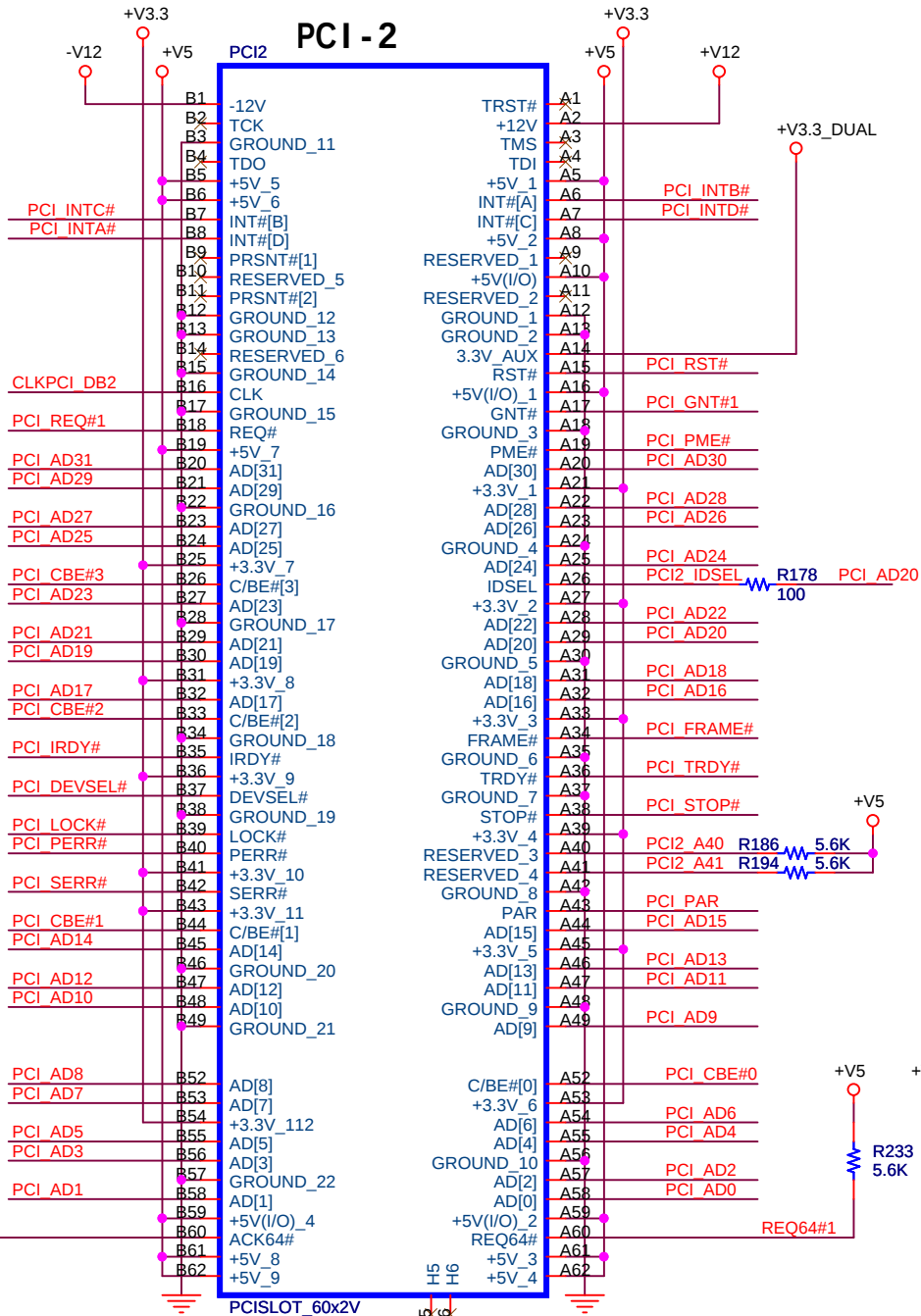
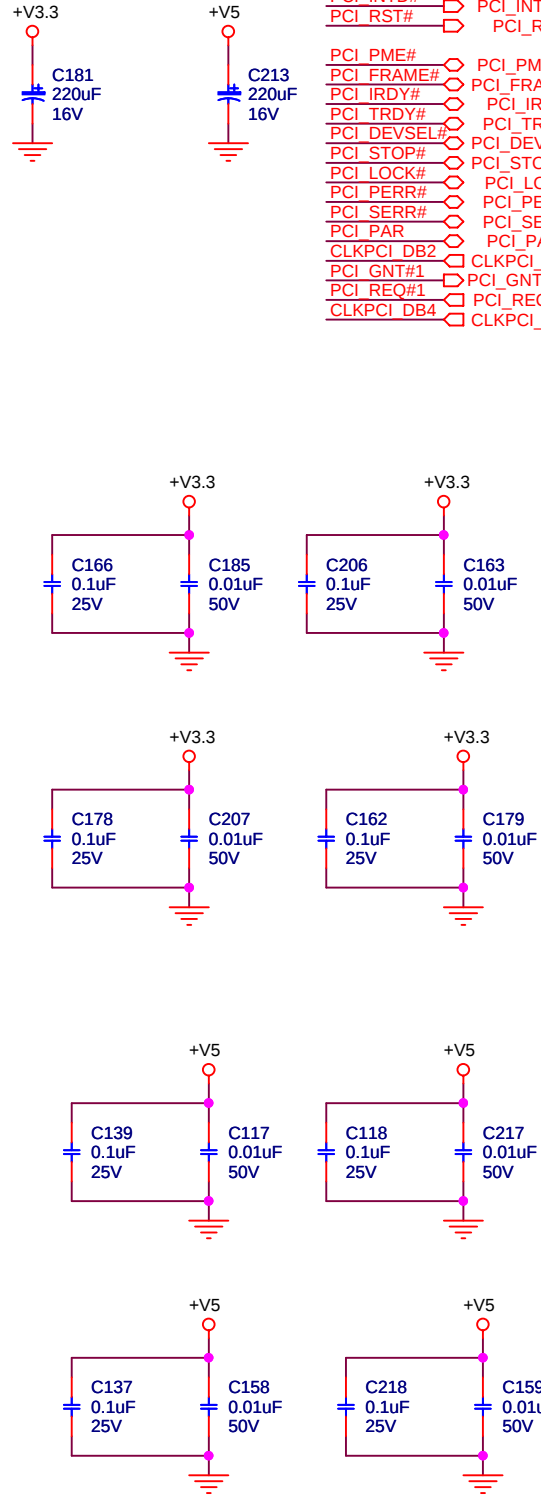
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PCI_INTB#	PCI_INTB#	4,19
PCI_INTC#	PCI_INTC#	4,19,20
PCI_INTD#	PCI_INTD#	4,19,20
PCI_RST#	PCI_RST#	4,19,20
PCI_PME#	PCI_PME#	4,19,20,31
PCI_FRAME#	PCI_FRAME#	4,19,20,28,38
PCI_IRDY#	PCI_IRDY#	4,19,20,28
PCI_TRDY#	PCI_TRDY#	4,19,20,28
PCI_DEVSEL#	PCI_DEVSEL#	4,19,20,28
PCI_STOP#	PCI_STOP#	4,19,20,28
PCI_LOCK#	PCI_LOCK#	4,19,28
PCI_PERR#	PCI_PERR#	4,19,20,28
PCI_SERR#	PCI_SERR#	4,19,20,28
PCI_PAR	PCI_PAR	4,19,20,28
CLKPCI_DB1	CLKPCI_DB1	4
PCI_GNT#0	PCI_GNT#0	4
PCI_REQ#0	PCI_REQ#0	4
CLKPCI_DB3	CLKPCI_DB3	4,20
PCI_GNT#2	PCI_GNT#2	4,20
PCI_REQ#2	PCI_REQ#2	4,20



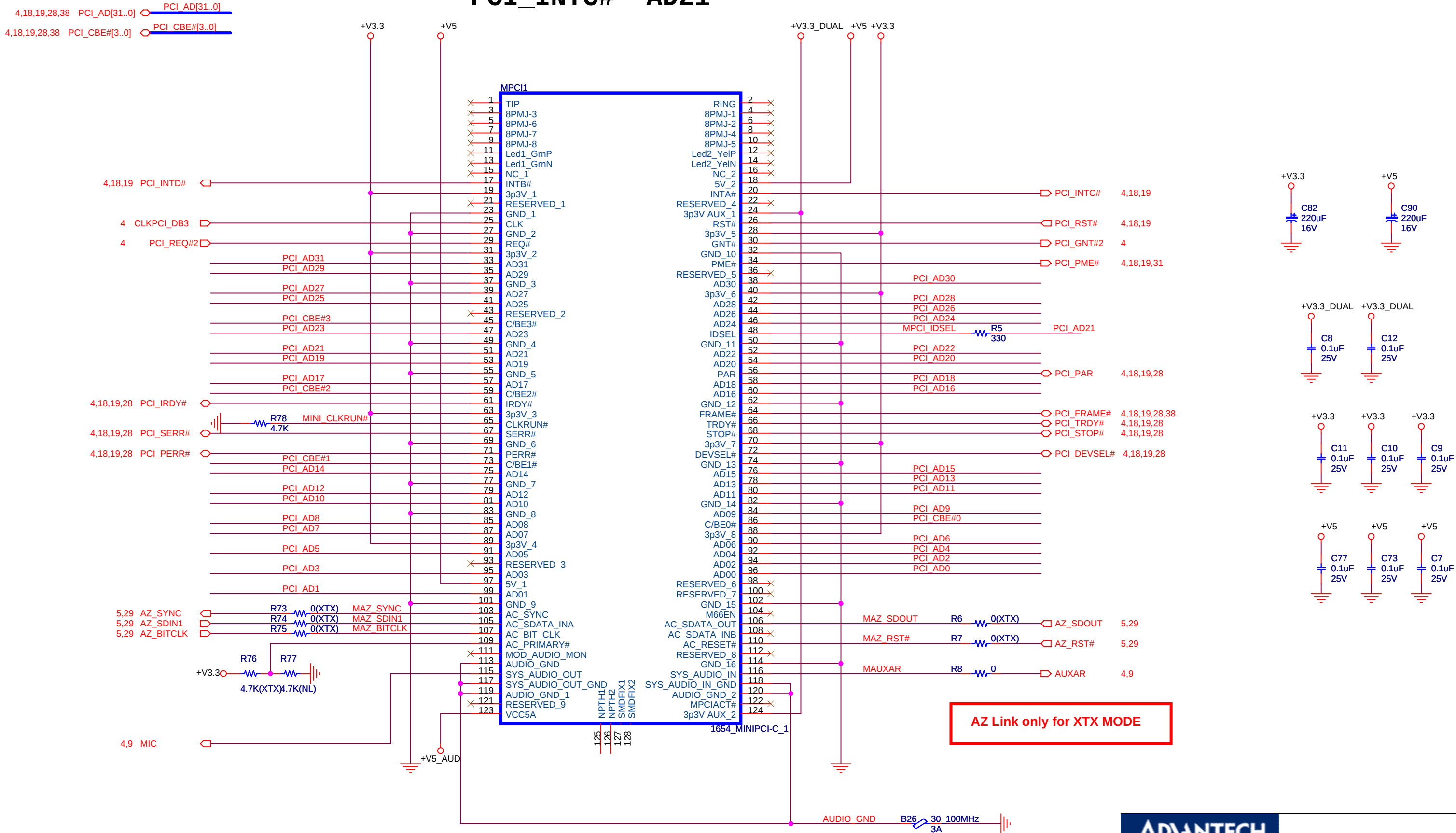
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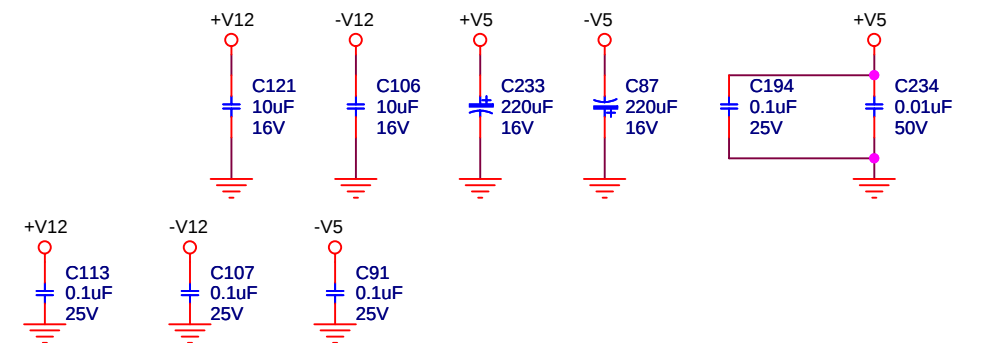
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PCI_INTB# PCI_INTB# 4,18
PCI_INTC# PCI_INTC# 4,18,20
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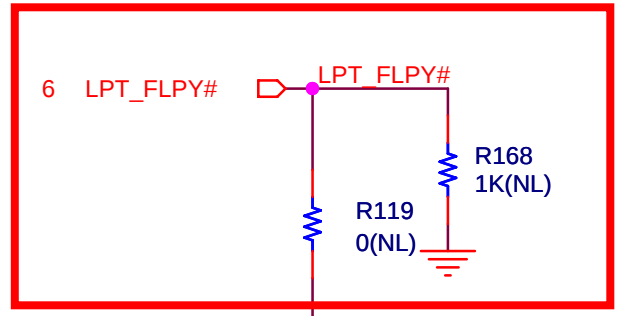
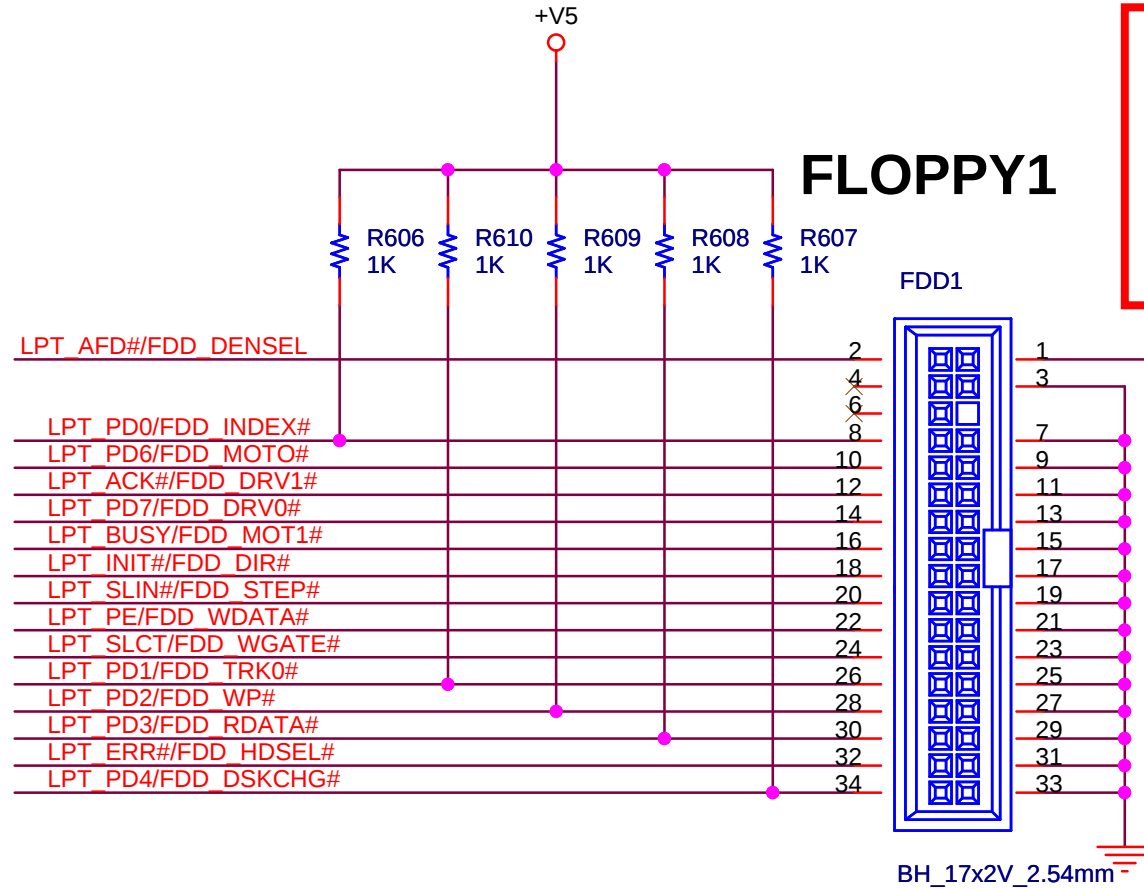
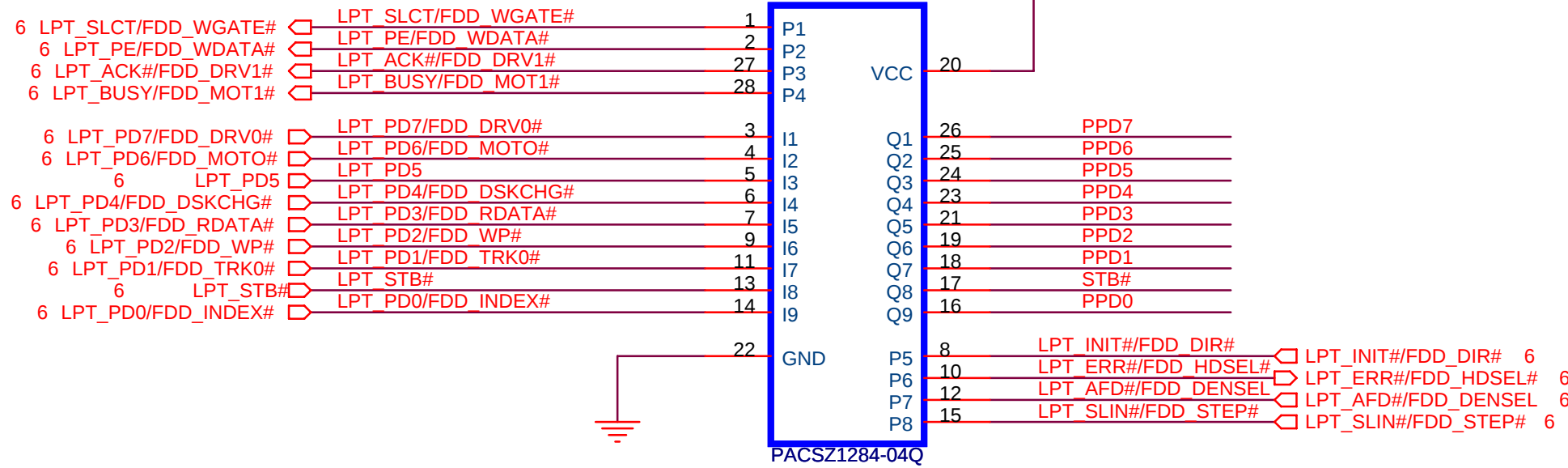
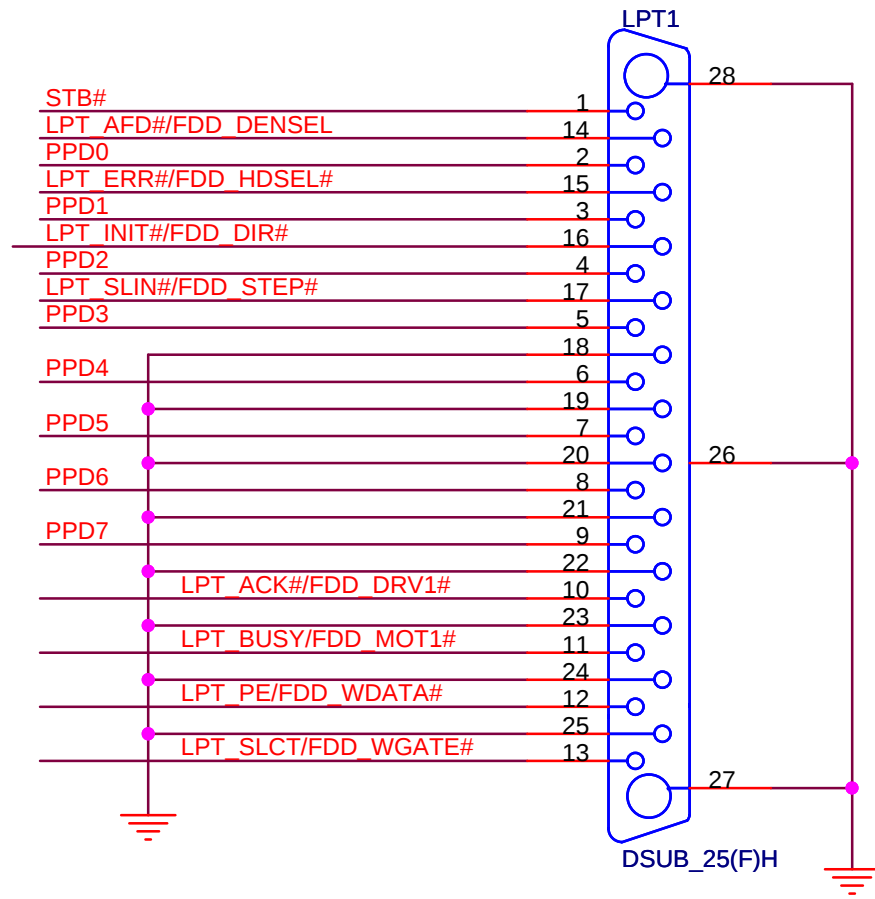
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PCI_DEVSEL# PCI_DEVSEL# 4,18,20,28
PCI_STOP# PCI_STOP# 4,18,20,28
PCI_LOCK# PCI_LOCK# 4,18,28
PCI_PERR# PCI_PERR# 4,18,20,28
PCI_SERR# PCI_SERR# 4,18,20,28
PCI_PAR# PCI_PAR# 4,18,20,28
CLKPCI_DB2# CLKPCI_DB2# 4
PCI_GNT#1 PCI_GNT#1 4
PCI_REQ#1 PCI_REQ#1 4
CLKPCI_DB4# CLKPCI_DB4# 27



PCI_INTC# AD21







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TitleParallel Port

Size

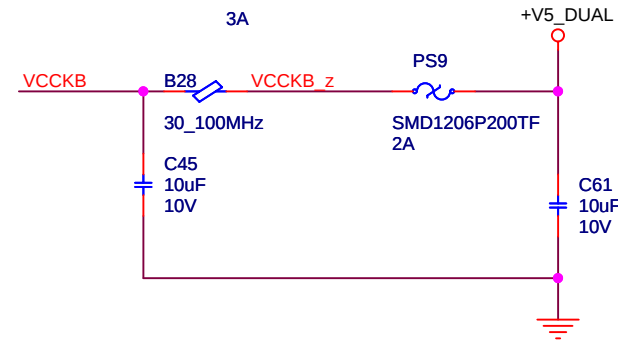
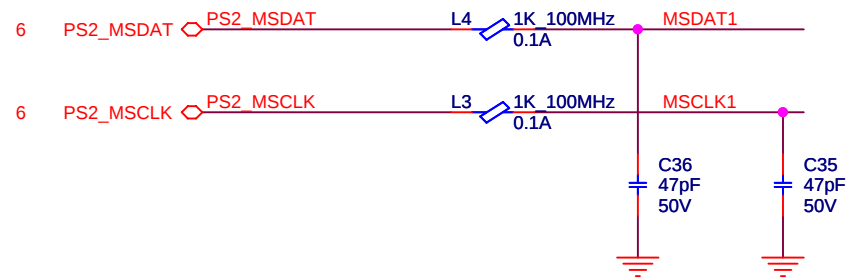
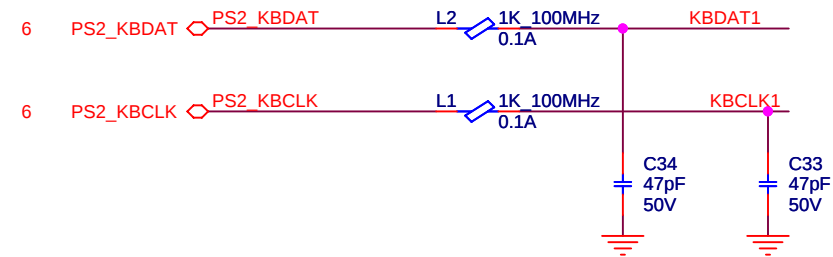
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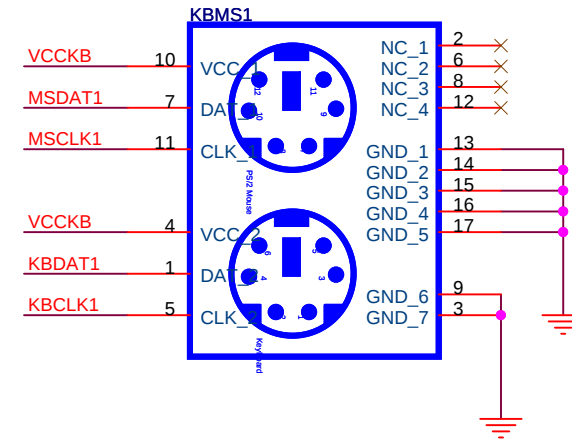
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A1

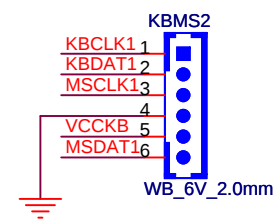
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KBD/MS PS/2



KBD/MS CONN 2.0mm



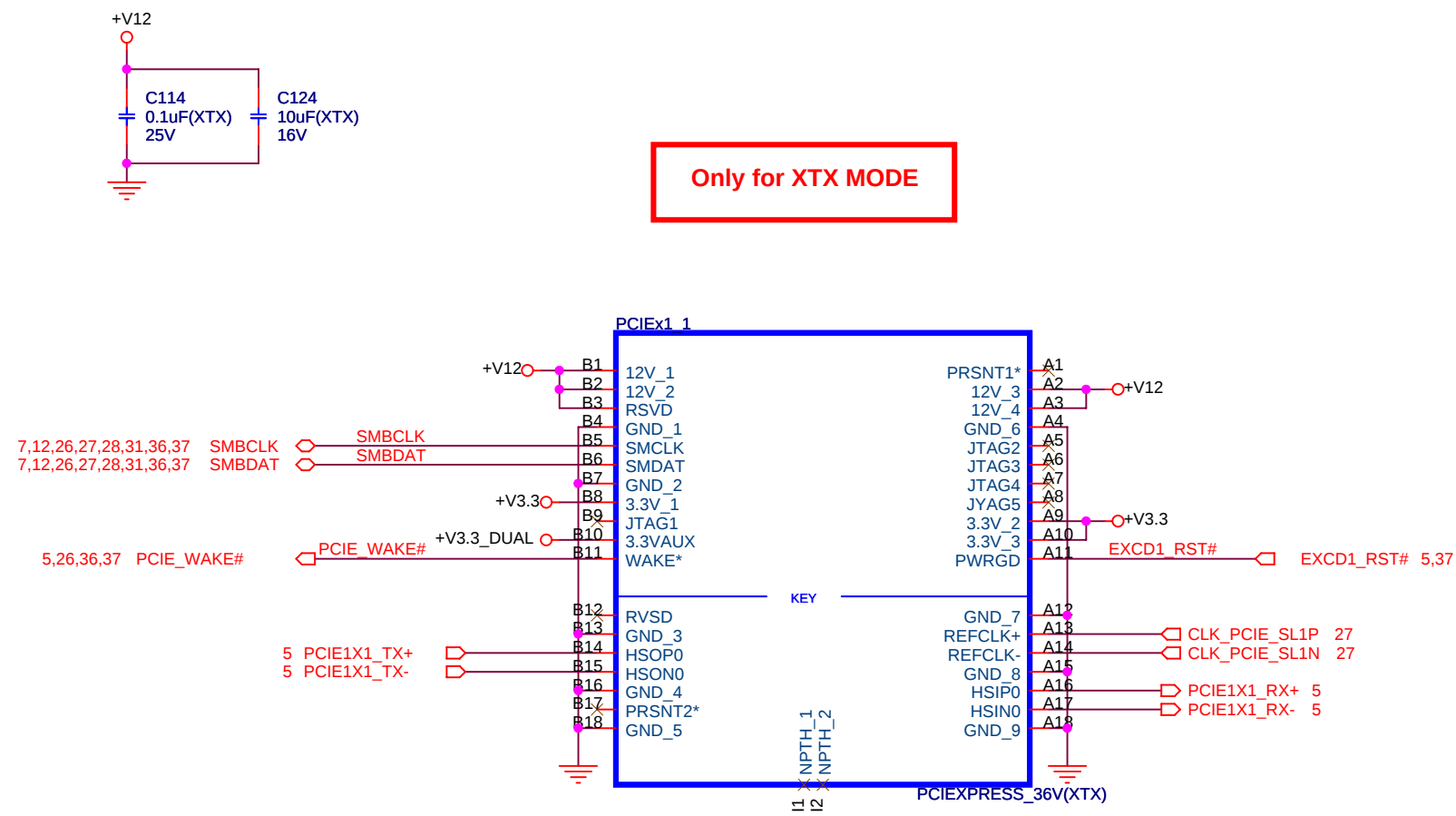
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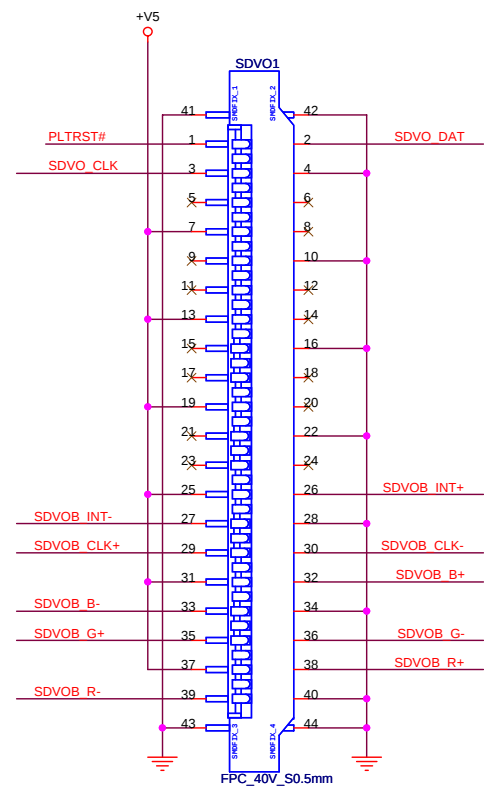
Size Document Number Rev A1

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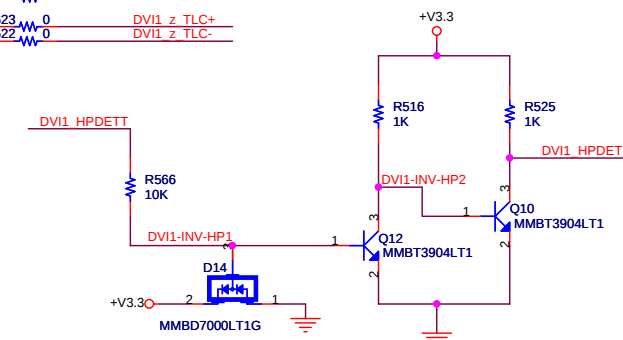
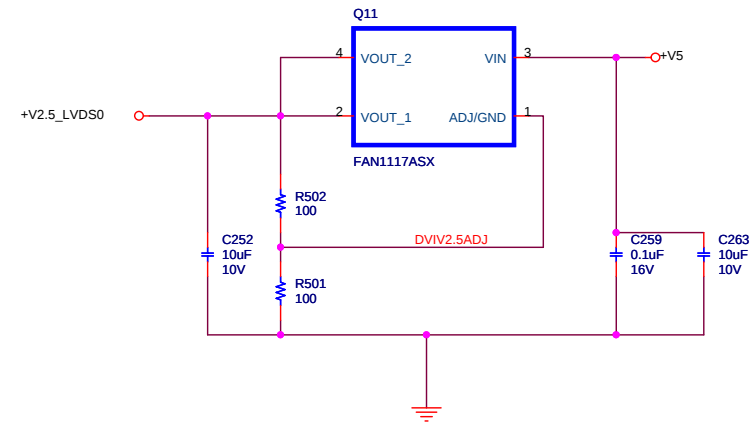
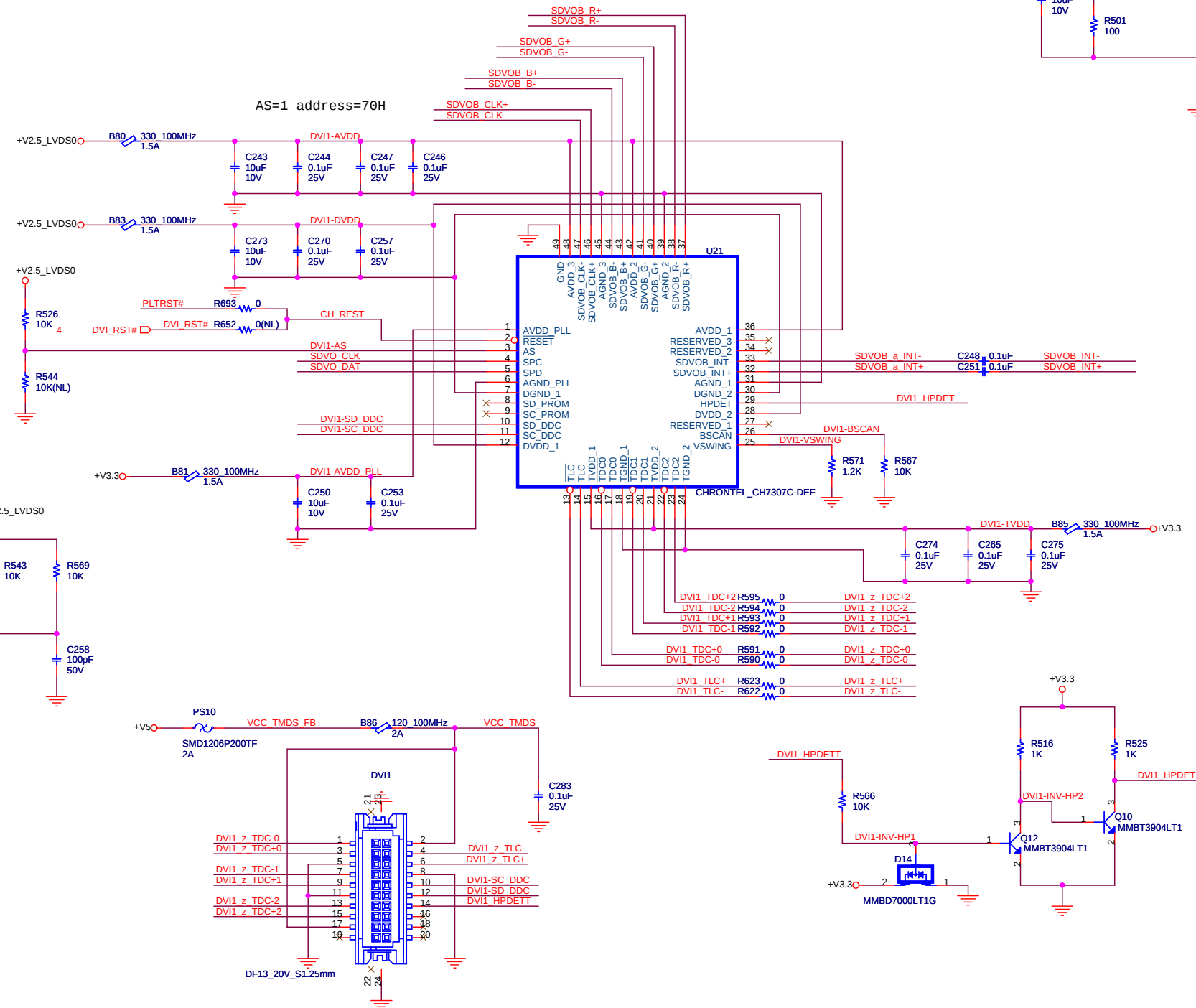
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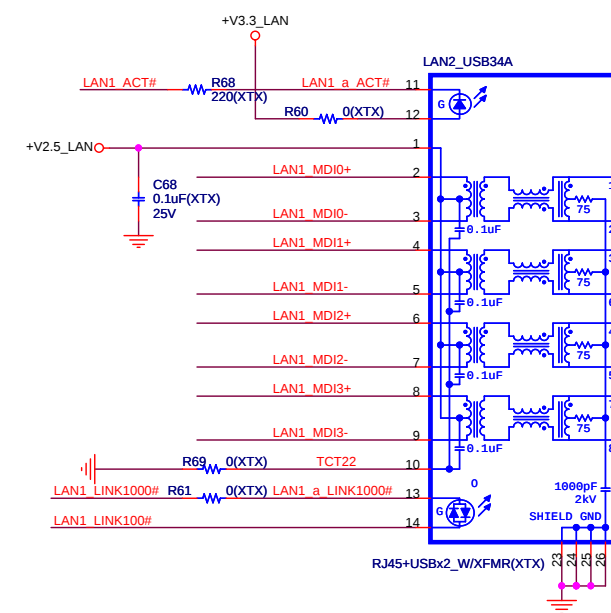
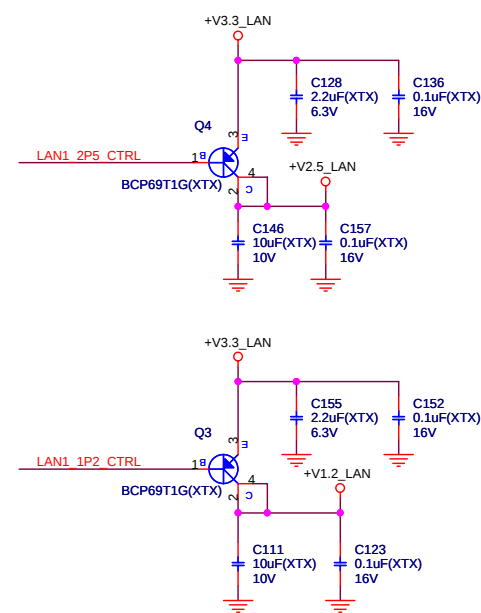
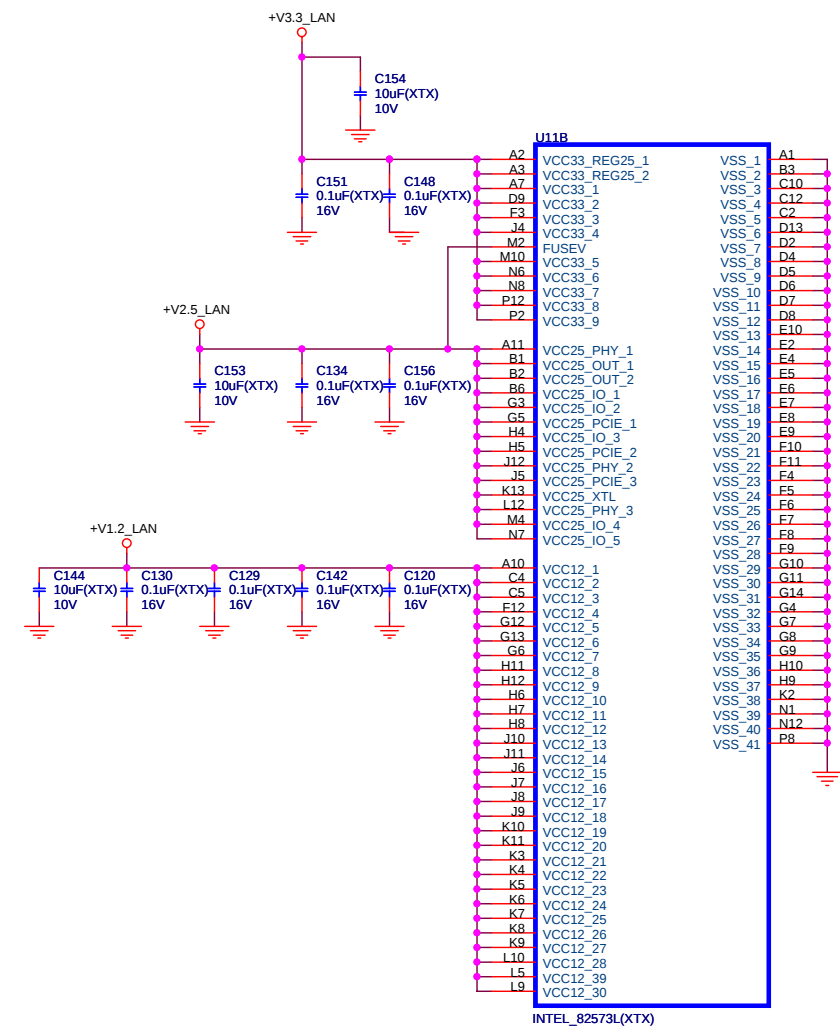


DVI

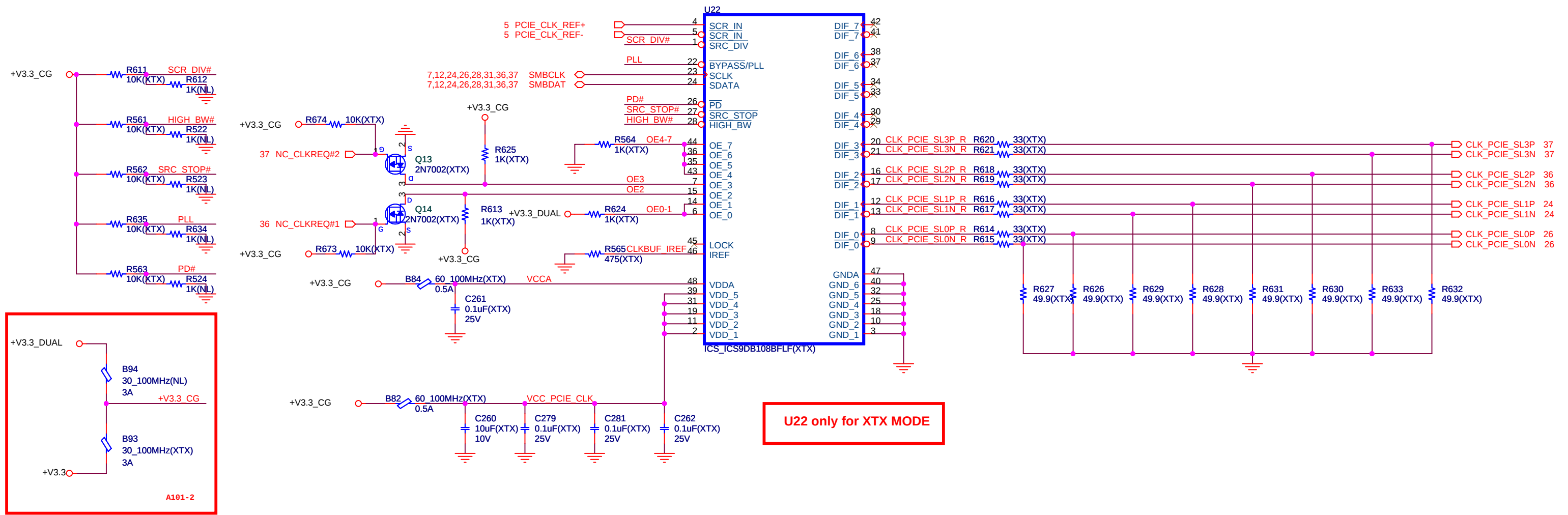


U21 RST# PLTRST#,DVI_RST# Colay--2009.7.24

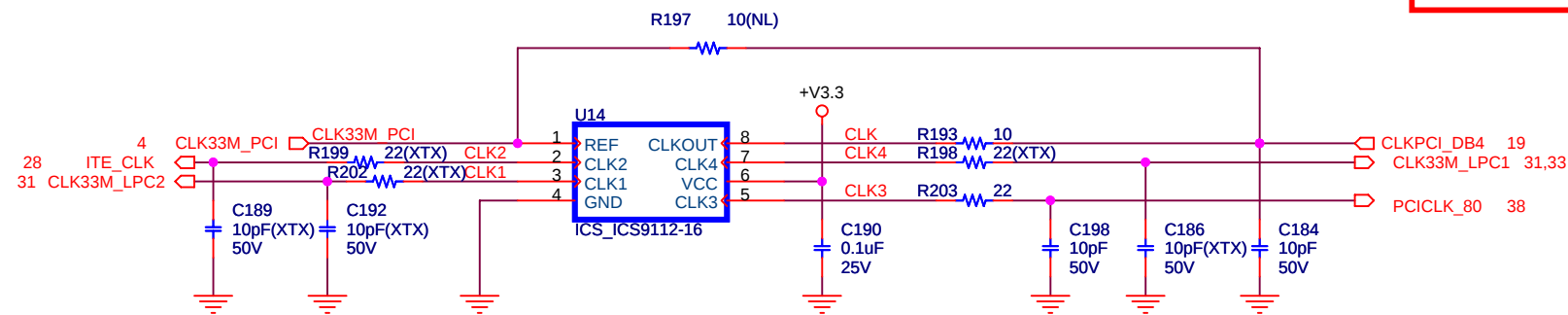




PCIE Clock Buffer



PCI Clock Buffer



	ITE_CLK	CLK33M_LPC2	CLKPCI_DB4	CLK33M_LPC1	PCICLK_80
ETX	NO	NO	YES	NO	YES
XTX	YES	YES	YES	YES	YES

ADVANTECH

TitleClock Buffer

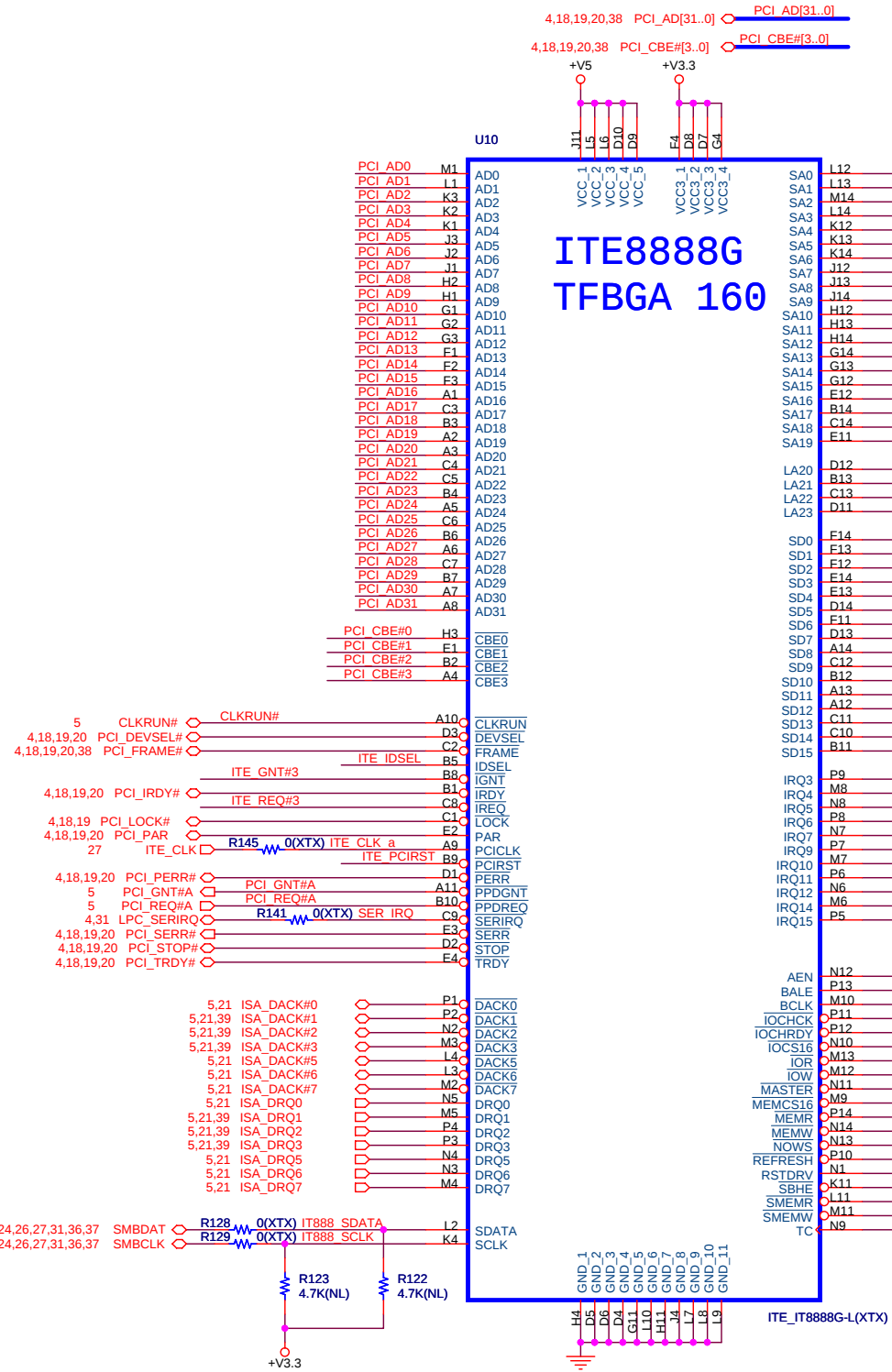
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Date:Thursday, April 29, 2010

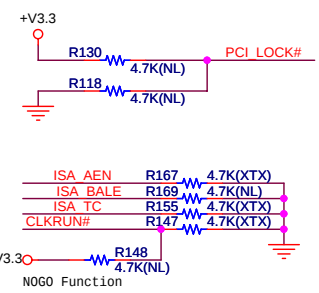
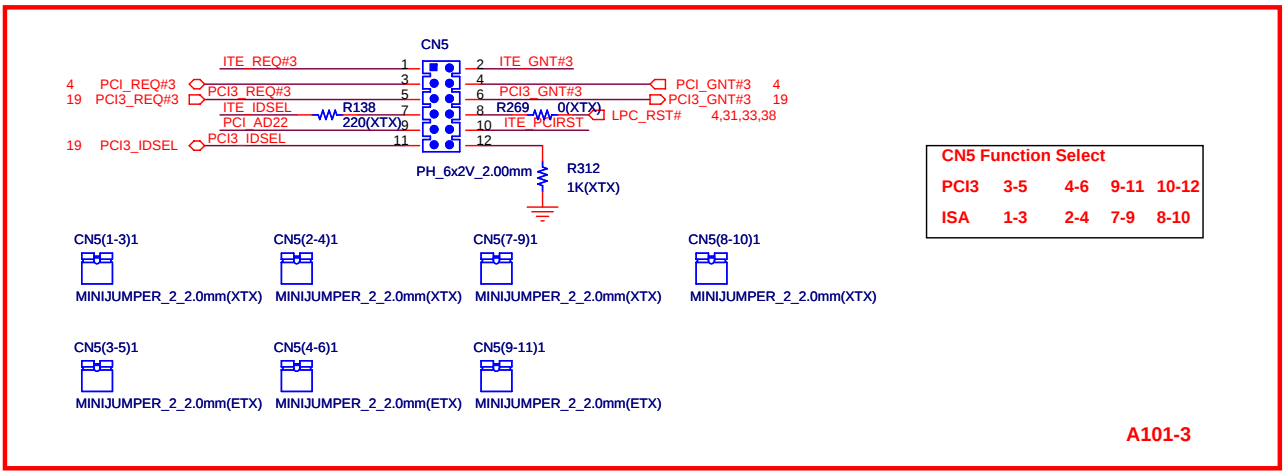
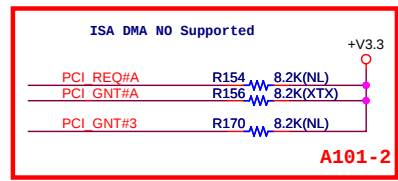
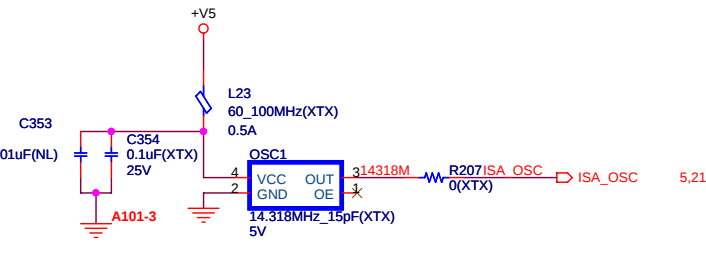
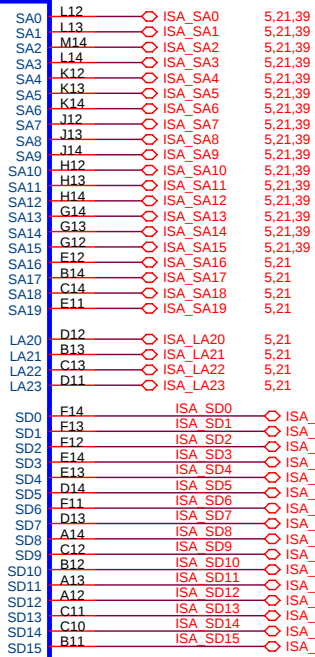
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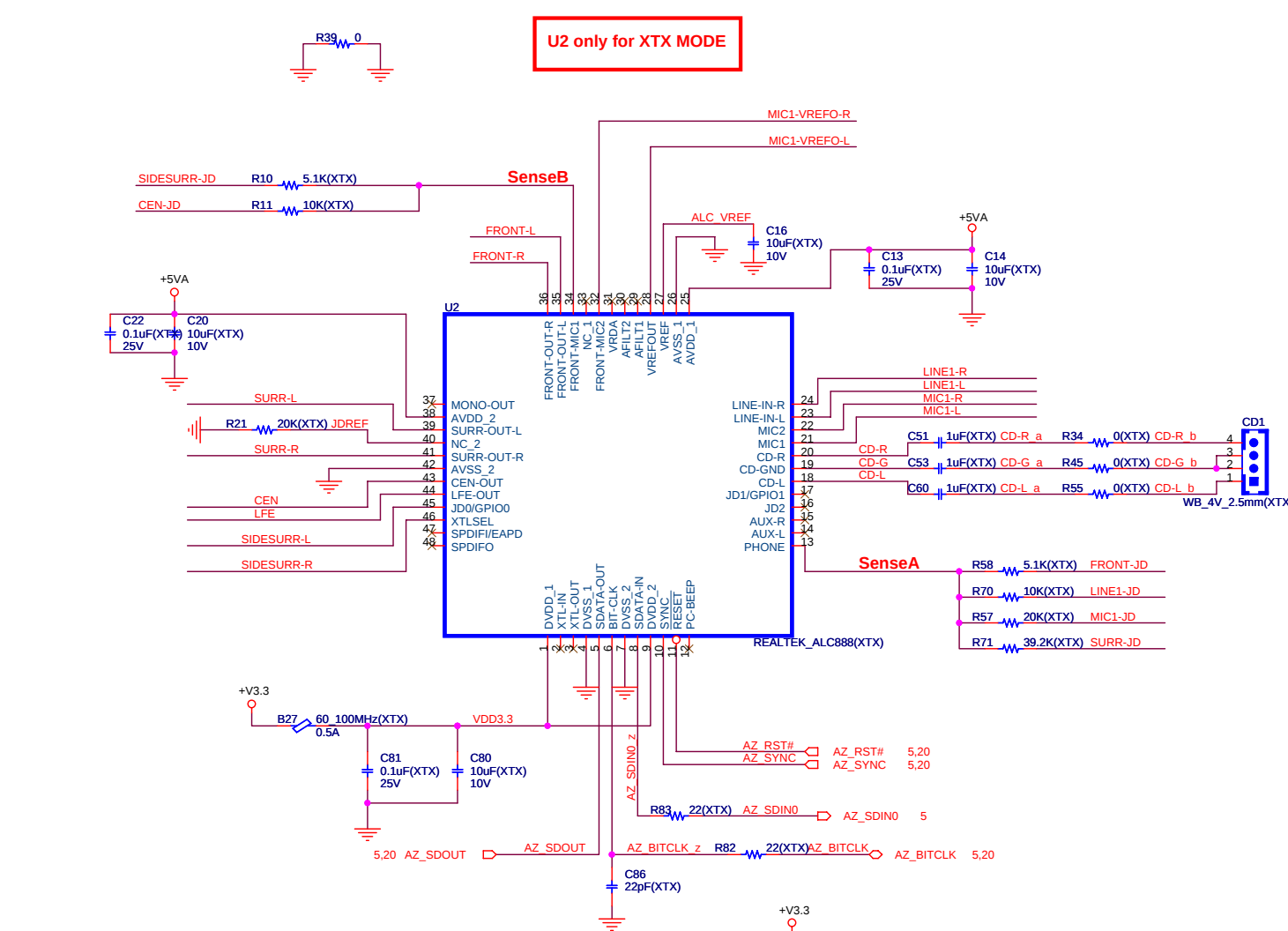
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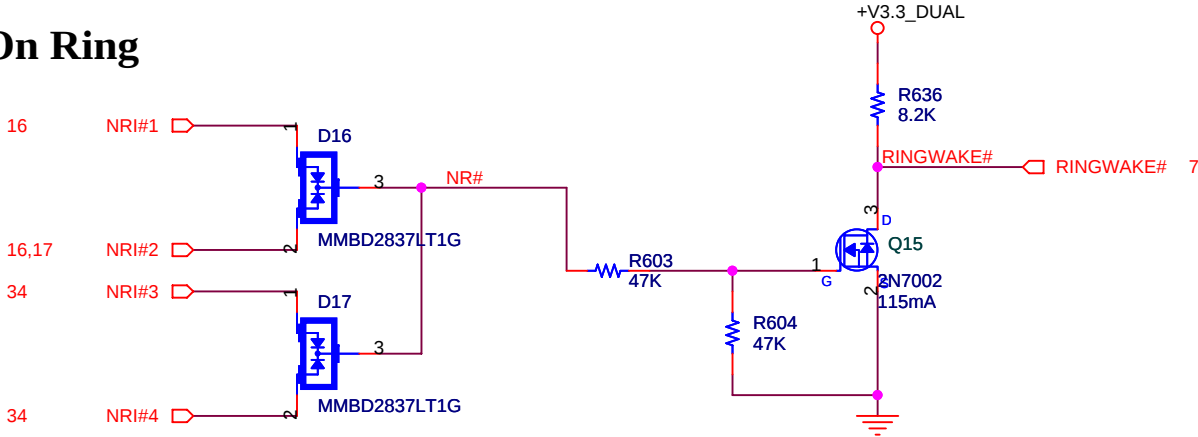


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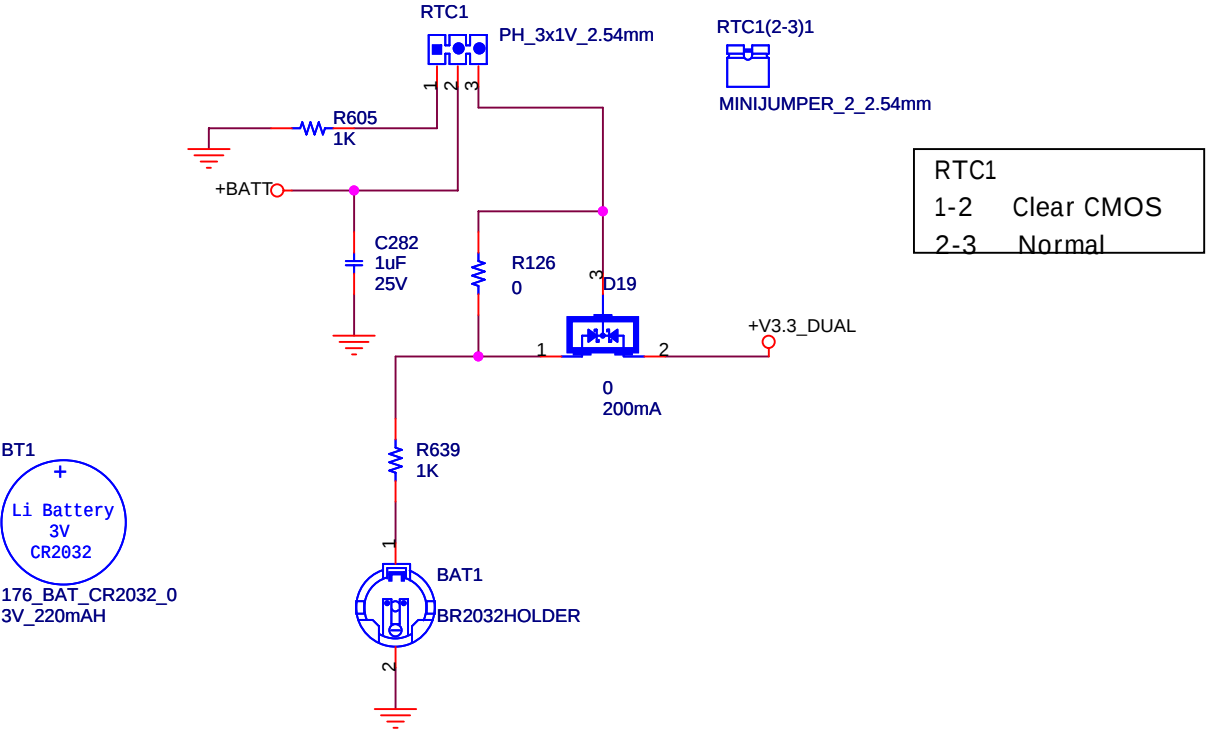


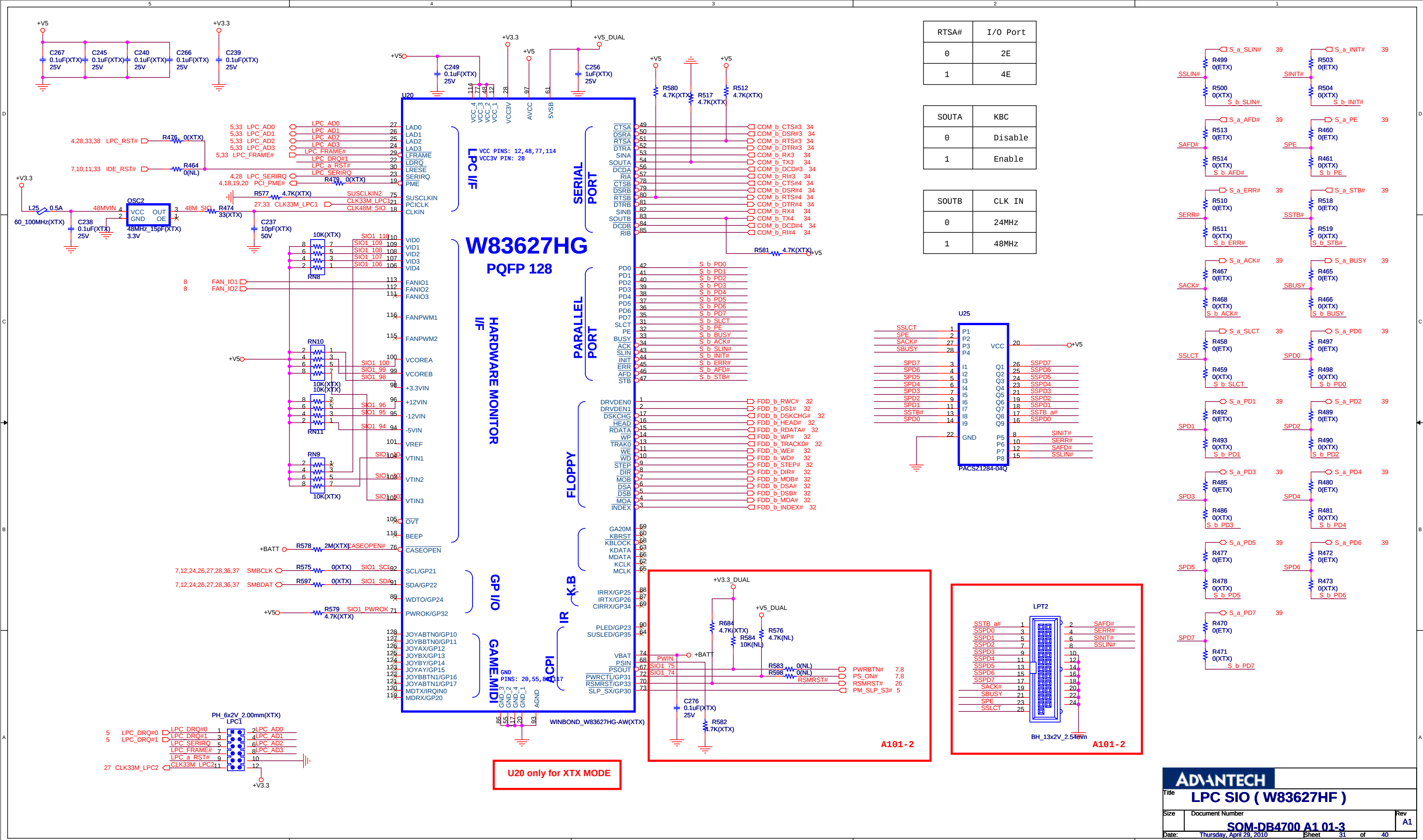


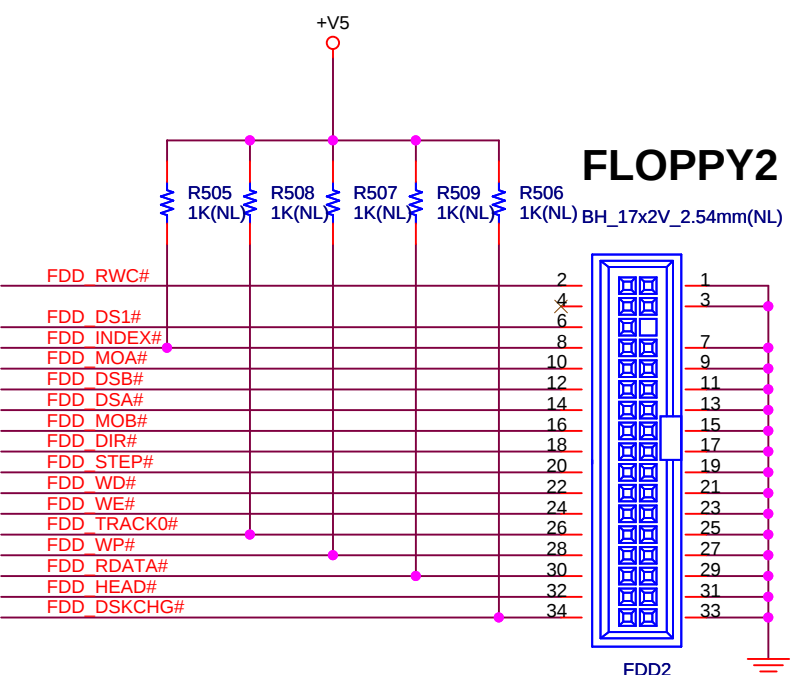
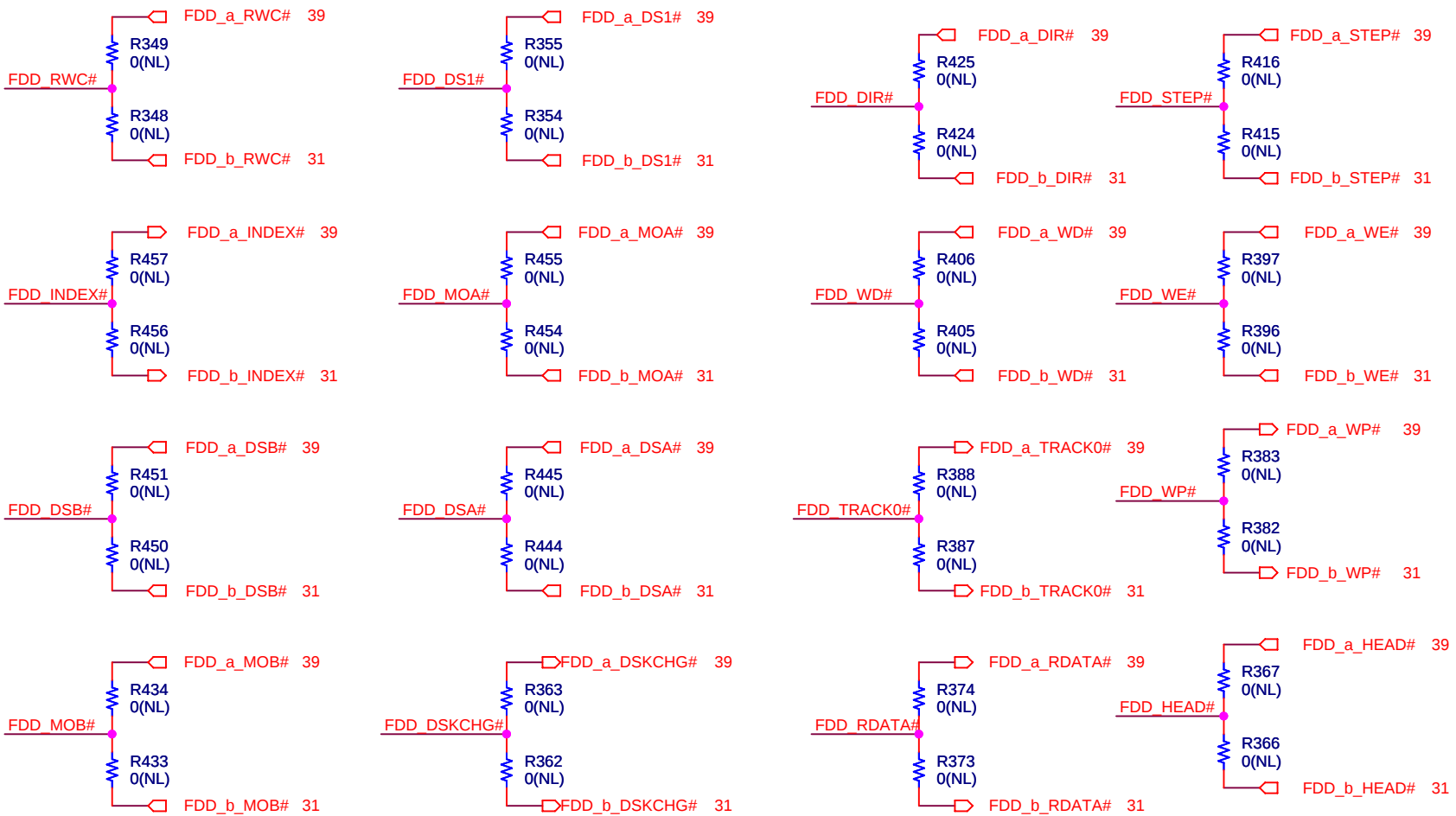
Wake On Ring

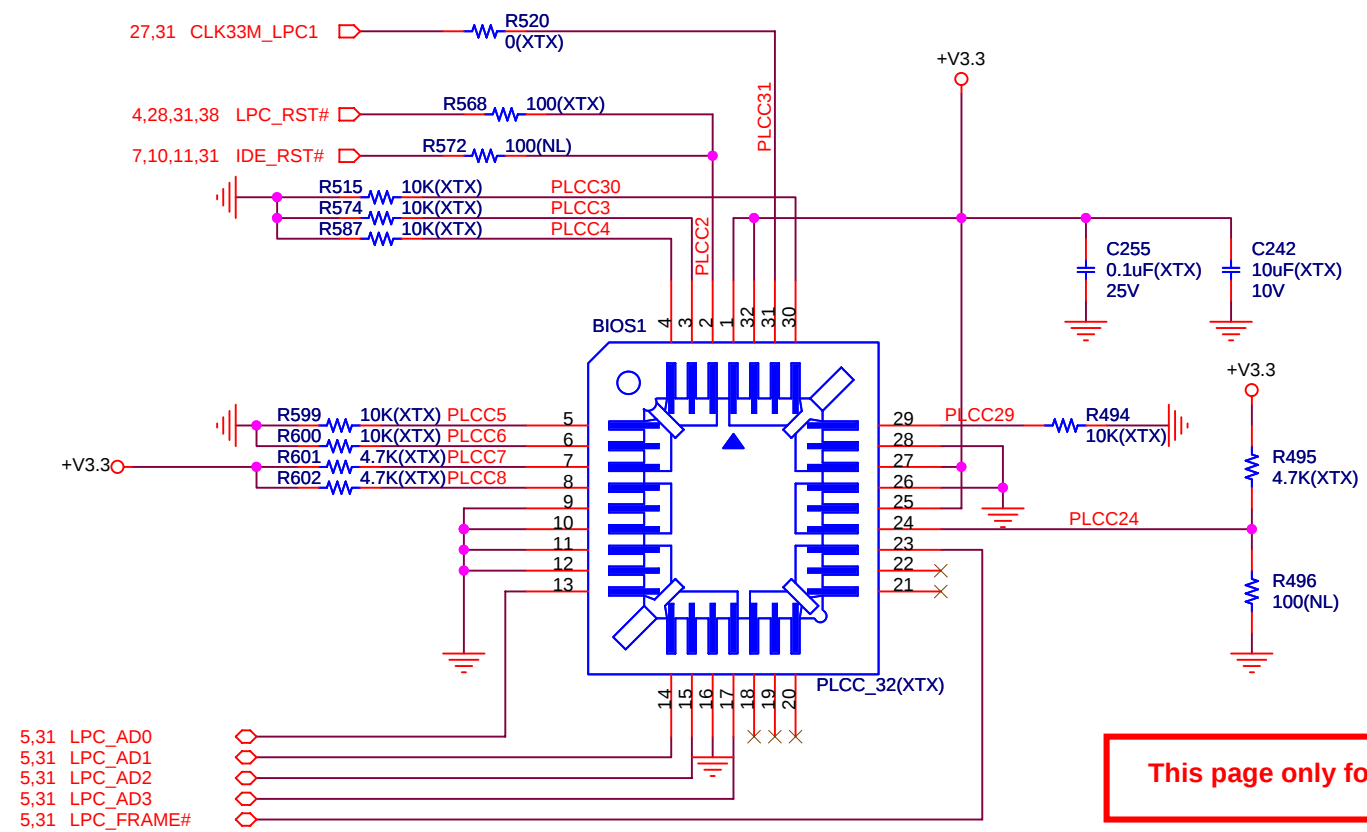


RTC POWER

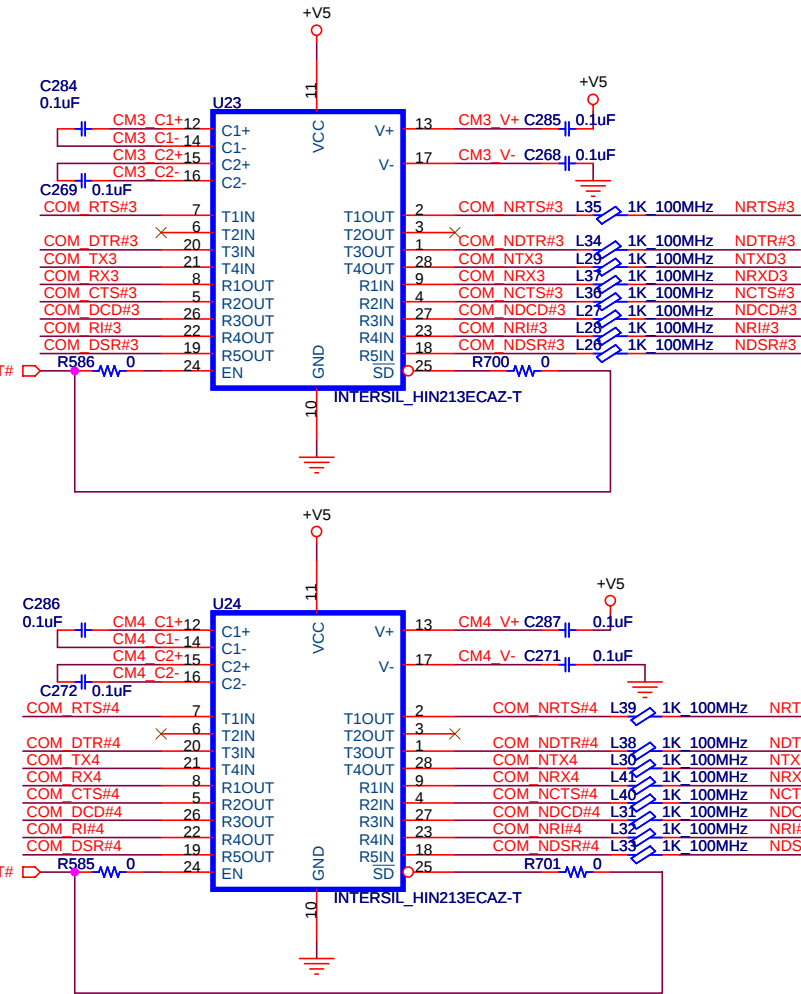
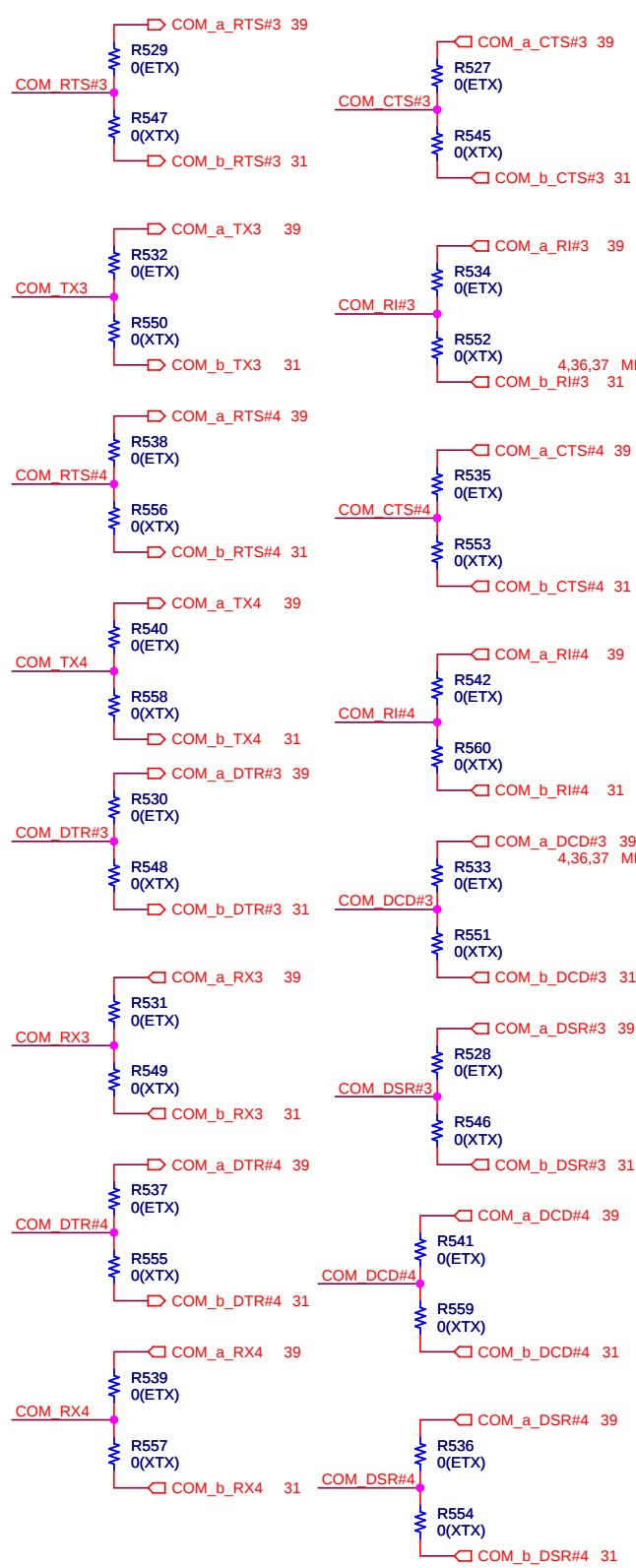




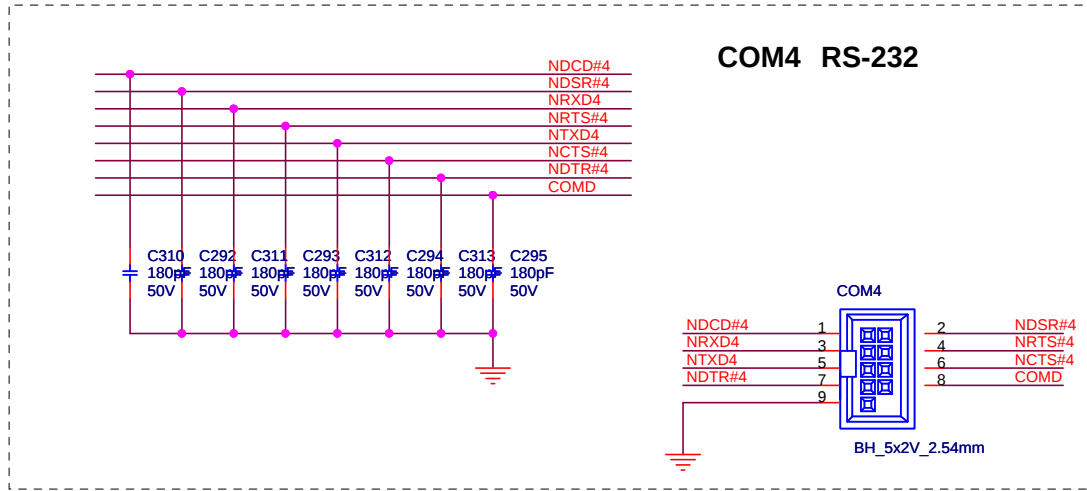
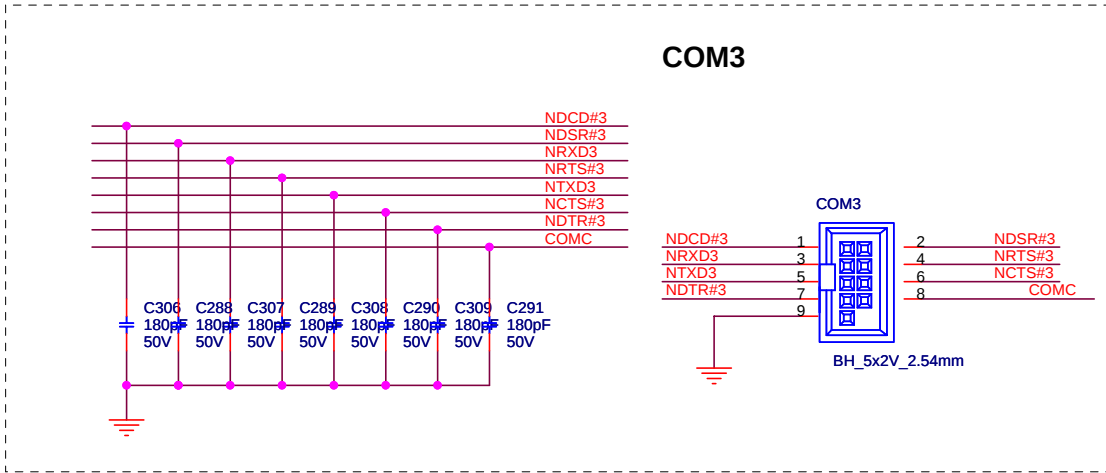
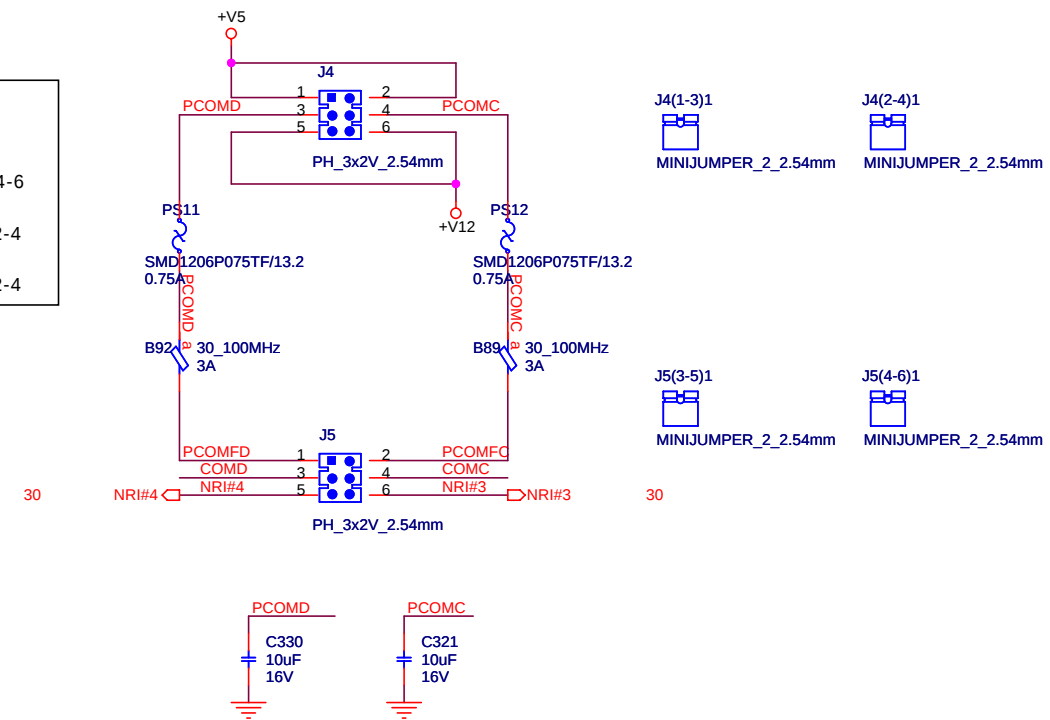




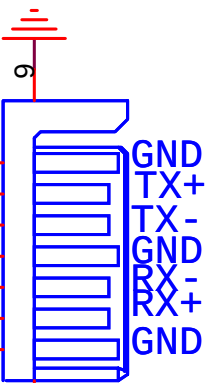
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COM 3/COM 4 :		
	J4	J5
RING	DON'T CARE	3-5/4-6
VCC5	1-3/2-4	1-3/2-4
+12V	3-5/4-6	1-3/2-4

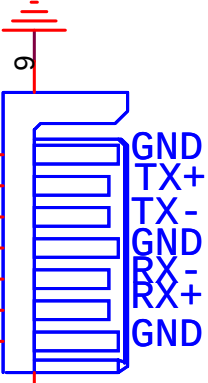


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5 SATA0_TX-
5 SATA0_RX-
5 SATA0_RX+



SATA_7V(XTX)
SATA1

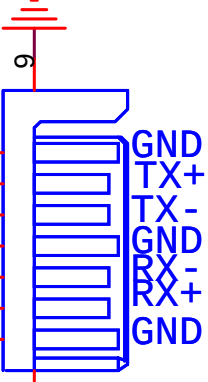
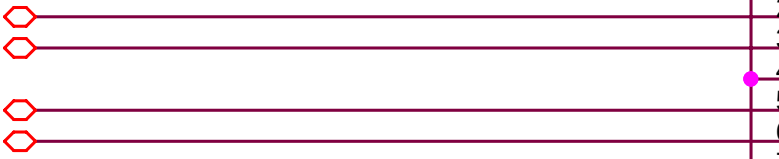
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5 SATA1_TX-
5 SATA1_RX-
5 SATA1_RX+



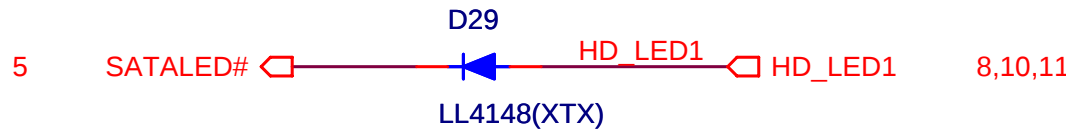
SATA_7V(XTX)
SATA2

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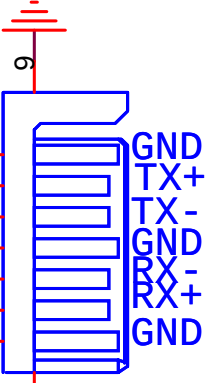
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5 SATA2_RX-
5 SATA2_RX+



SATA_7V(XTX)
SATA3



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5 SATA3_TX-
5 SATA3_RX-
5 SATA3_RX+



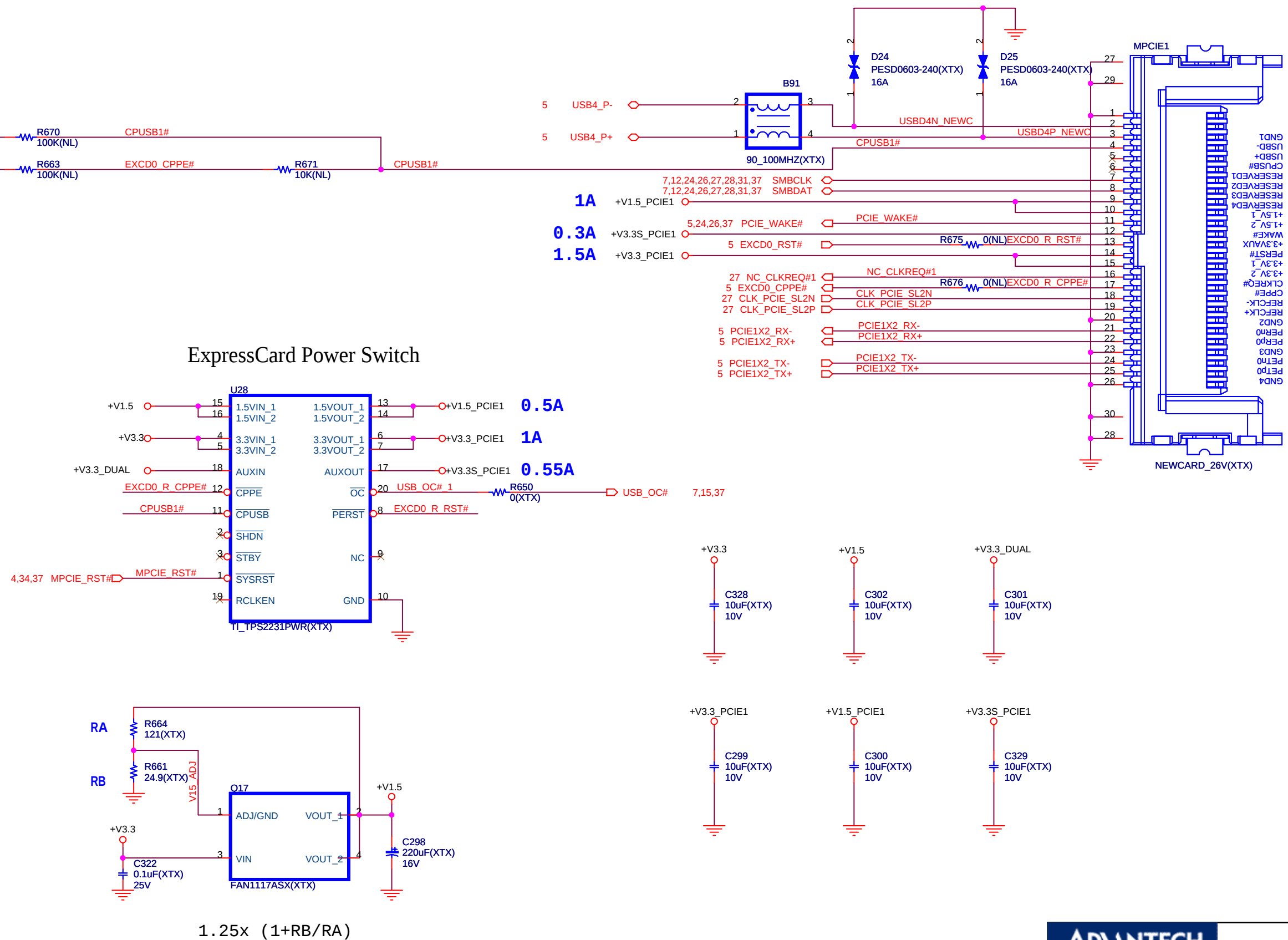
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SATA4

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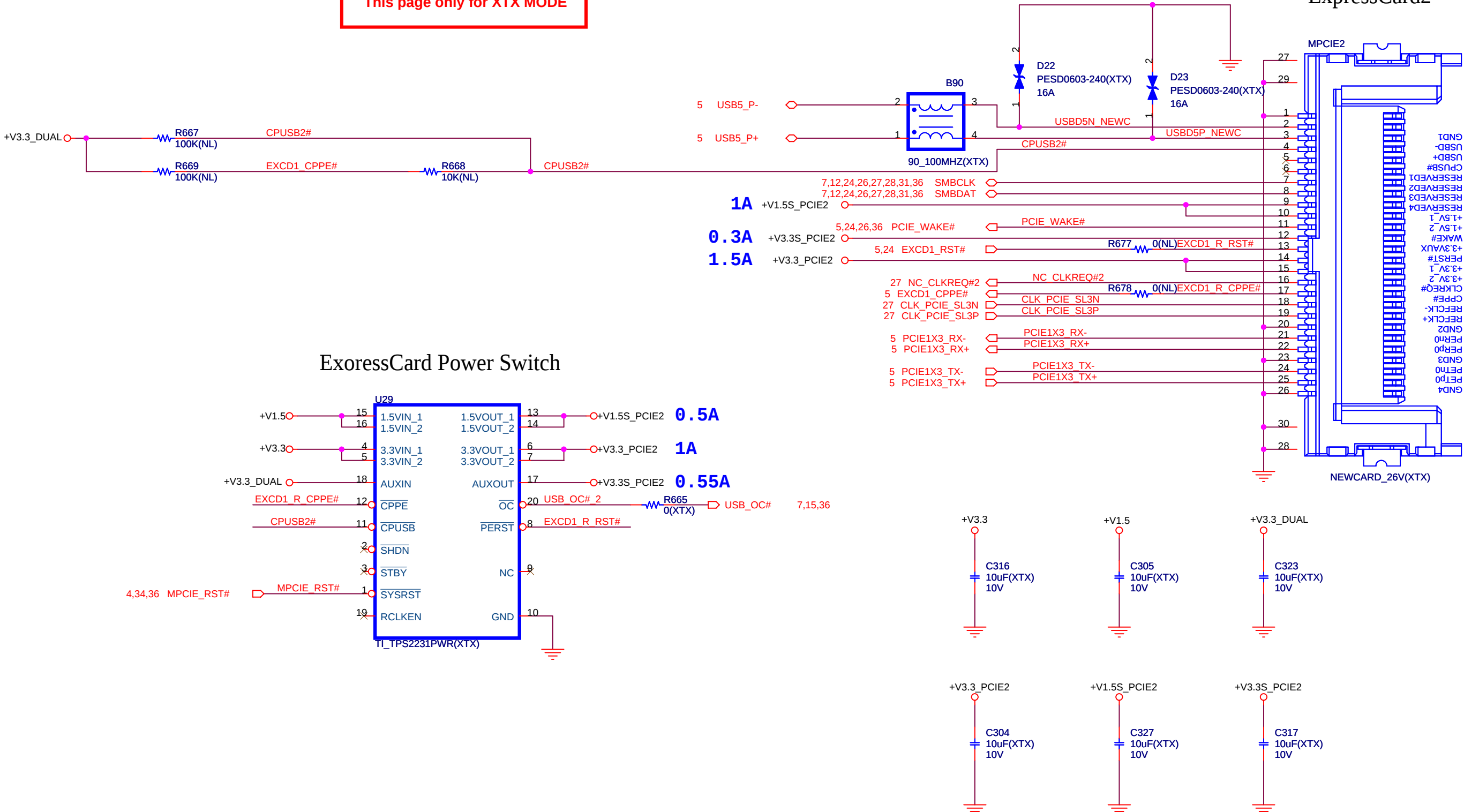
ExpressCard1

ExpressCard Power Switch



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ExpressCard2



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Title	Express Card Slot 2
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