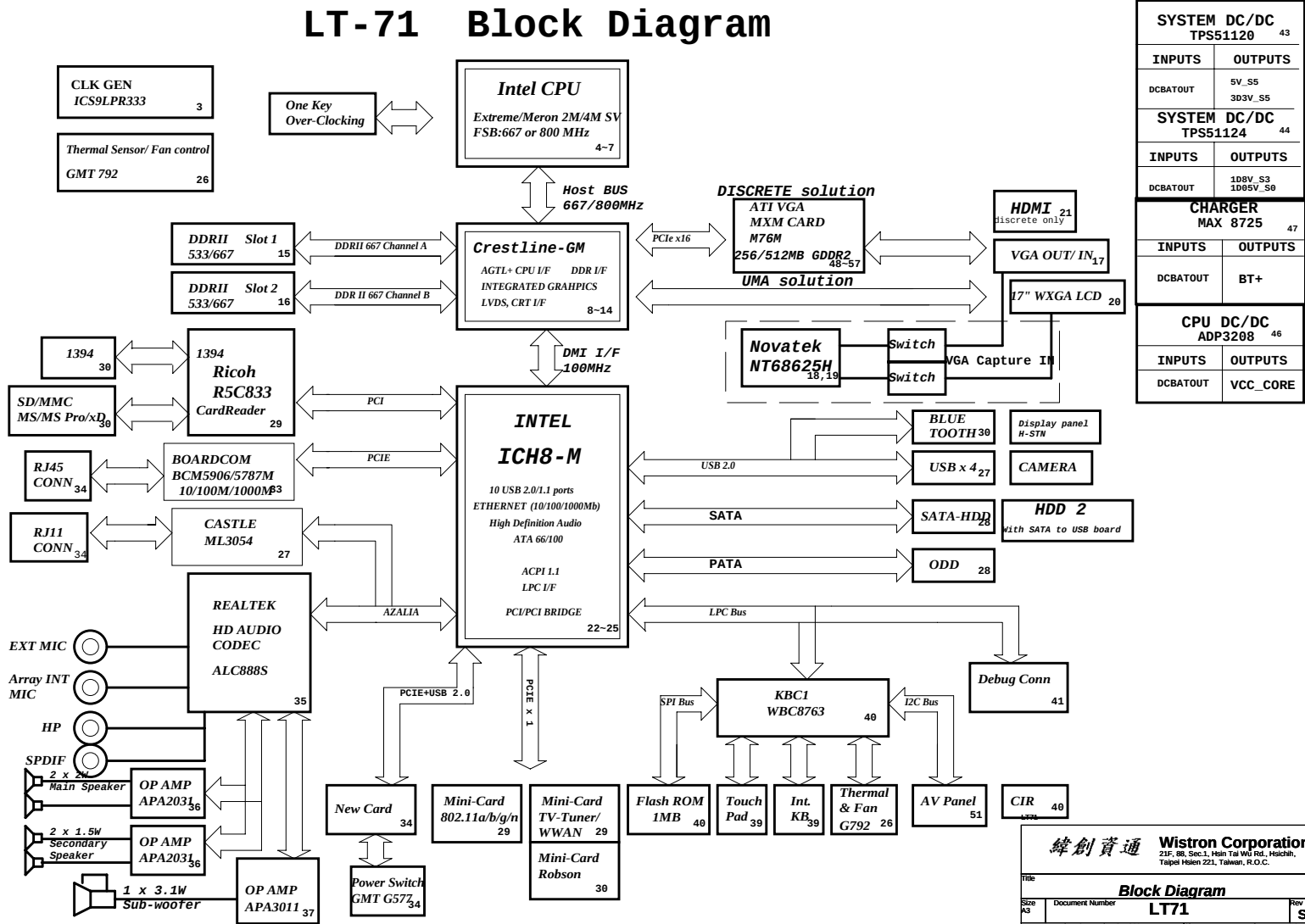


LT-71 Block Diagram



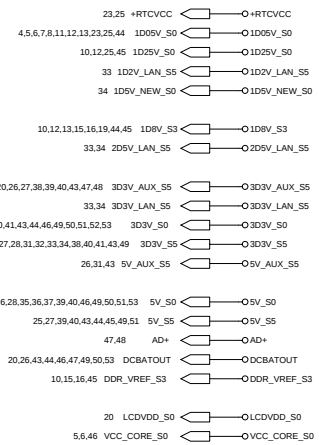
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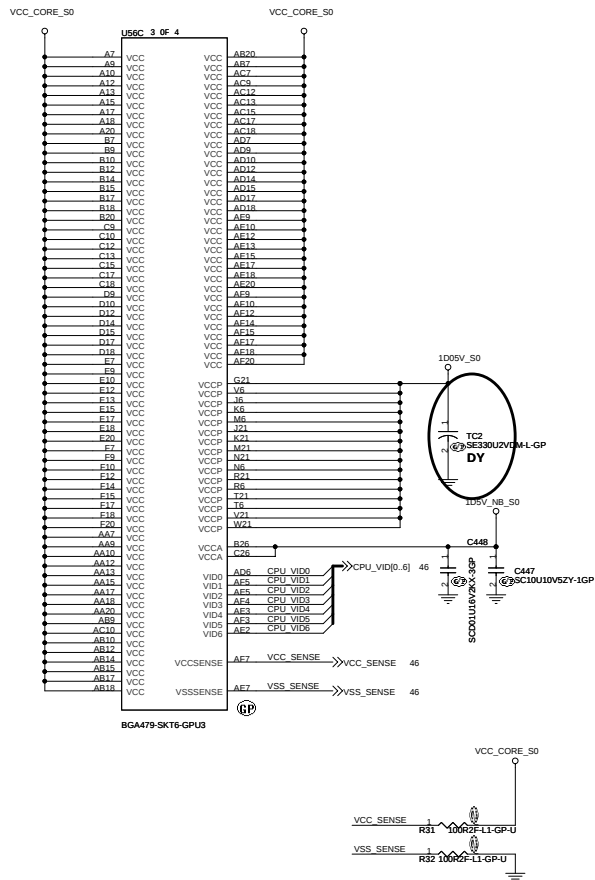
緯創資通		Wistron Corporation	
		21F, 8B, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
Table of Content			
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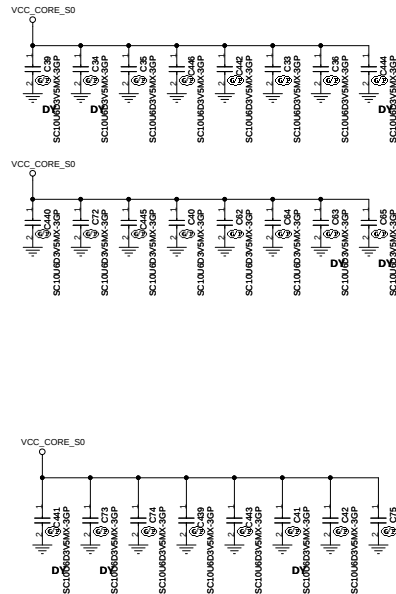
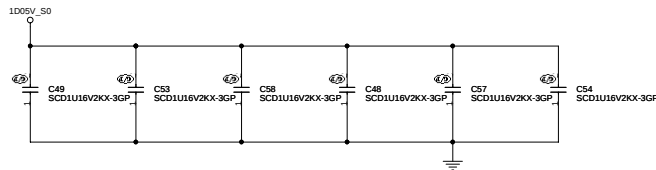
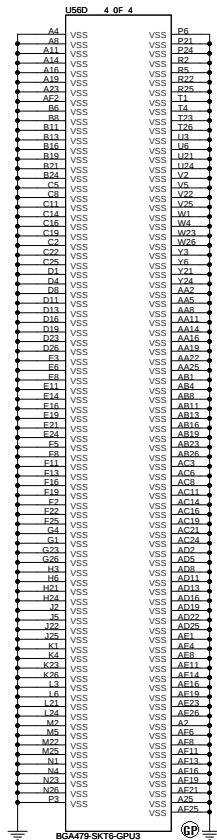
緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title	
Merion(2/3)-AGTL+/PWR	
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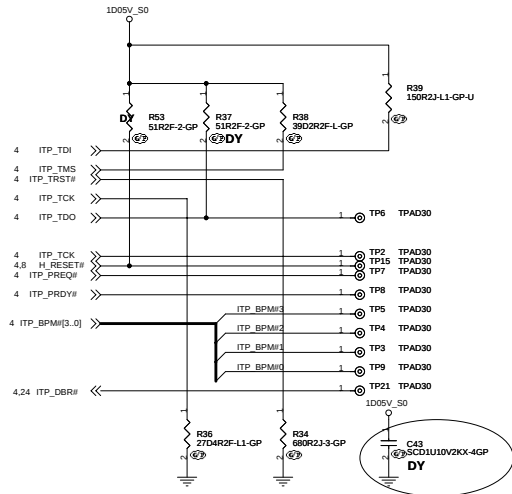
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Title: Meron(3/3)-GND&Bypass	
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ITP Connector



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<< DDR_A_D[0..63] 15
 << DDR_A_BS[0..2] 15
 << DDR_A_DM[0..7] 15
 << DDR_A_DQS[0..7] 15
 << DDR_A_DQS[0..7] 15
 << DDR_A_MA[0..14] 15

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DDR A D0	AR43	SA_DQ0	SA_BS0	BB19	DDR A BS0	
DDR A D1	AW44	SA_DQ1	SA_BS1	BB19	DDR A BS1	
DDR A D2	BA45	SA_DQ2	SA_BS2	BB26	DDR A BS2	
DDR A D3	AV46	SA_DQ3				
DDR A D4	AB41	SA_DQ4	SA_CAS#	BB17	DDR A CAS#	>>> DDR_A_CAS# 15
DDR A D5	AR45	SA_DQ5				
DDR A D6	AT42	SA_DQ6				
DDR A D7	AW47	SA_DQ7				
DDR A D8	BS45	SA_DQ8				
DDR A D9	BF48	SA_DQ9				
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DDR A D15	BB48	SA_DQ15				
DDR A D16	AW43	SA_DQ16				
DDR A D17	BB44	SA_DQ17				
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DDR A D23	BB40	SA_DQ23				
DDR A D24	AB40	SA_DQ24				
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DDR A D29	AV41	SA_DQ29				
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DDR A D61	BB10	SA_DQ61				
DDR A D62	BB10	SA_DQ62				
DDR A D63	BB10	SA_DQ63				

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<< DDR_B_D[0..63] 16
 << DDR_B_BS[0..2] 16
 << DDR_B_DM[0..7] 16
 << DDR_B_DQS[0..7] 16
 << DDR_B_DQS[0..7] 16
 << DDR_B_MA[0..14] 16

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DDR B D0	AP49	SB_DQ0	SB_BS0	AV17	DDR B BS0	
DDR B D1	AB51	SB_DQ1	SB_BS1	BB18	DDR B BS1	
DDR B D2	AW50	SB_DQ2	SB_BS2	BB36	DDR B BS2	
DDR B D3	AW51	SB_DQ3				
DDR B D4	AW51	SB_DQ4	SB_CAS#	BB17	DDR B CAS#	>>> DDR_B_CAS# 15
DDR B D5	AW50	SB_DQ5				
DDR B D6	AW50	SB_DQ6				
DDR B D7	AW50	SB_DQ7				
DDR B D8	AW50	SB_DQ8				
DDR B D9	BB50	SB_DQ9				
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DDR B D11	BB50	SB_DQ11				
DDR B D12	BB51	SB_DQ12				
DDR B D13	AV49	SB_DQ13				
DDR B D14	BB50	SB_DQ14				
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DDR B D16	BB50	SB_DQ16				
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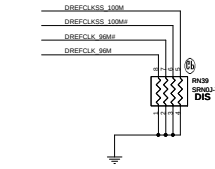
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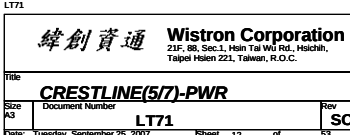


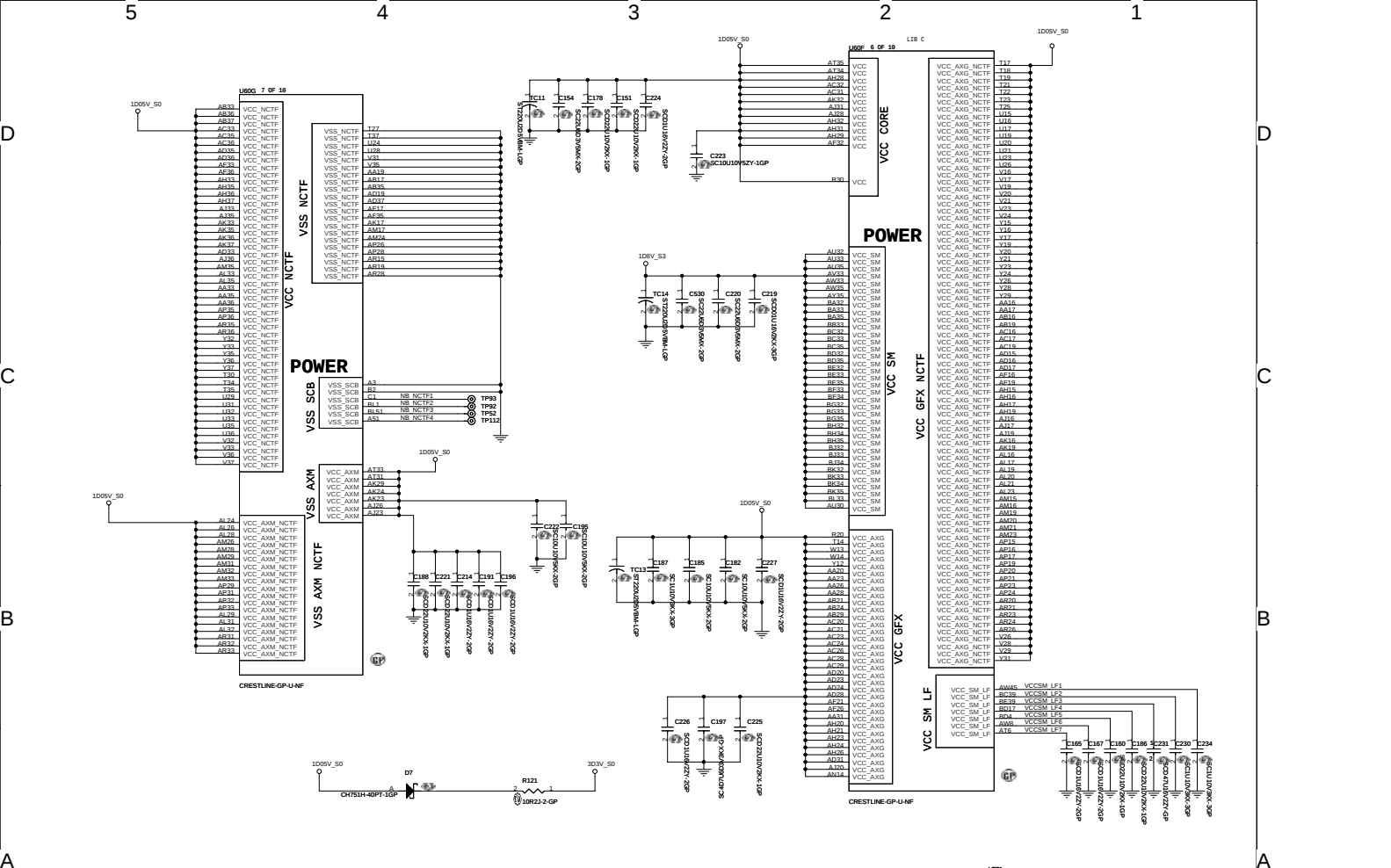
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Wistron Corporation
21F, Sec. 1, Hsin Tai Wu Rd., Hsinchu,
Taichung Hsien 321, Taiwan, R.O.C.







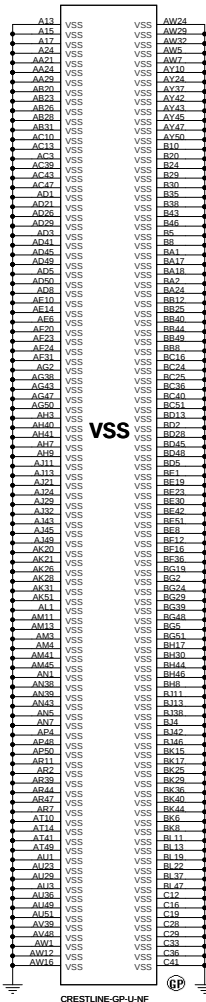
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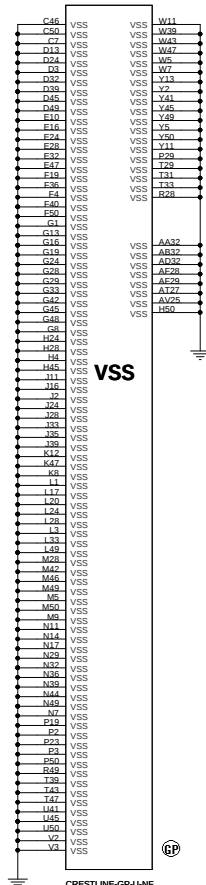
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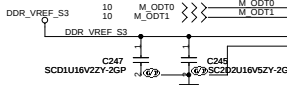
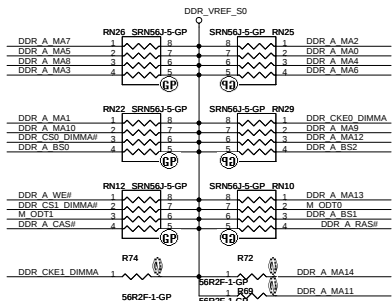
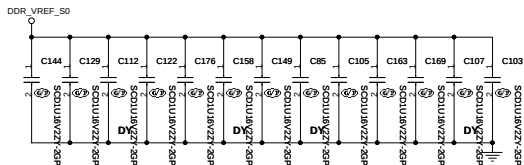
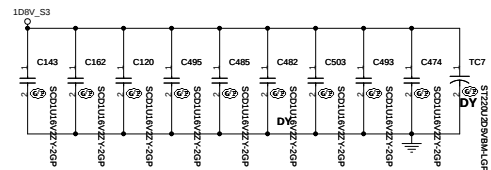


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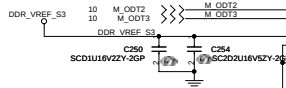
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緯創資通 Wistron Corporation 21F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
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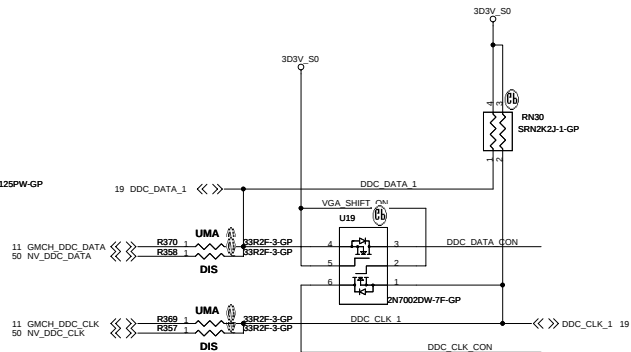
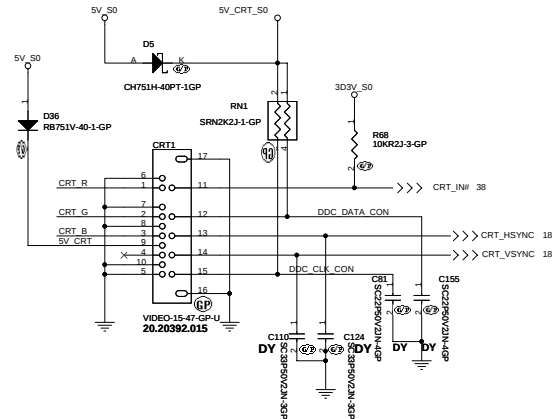
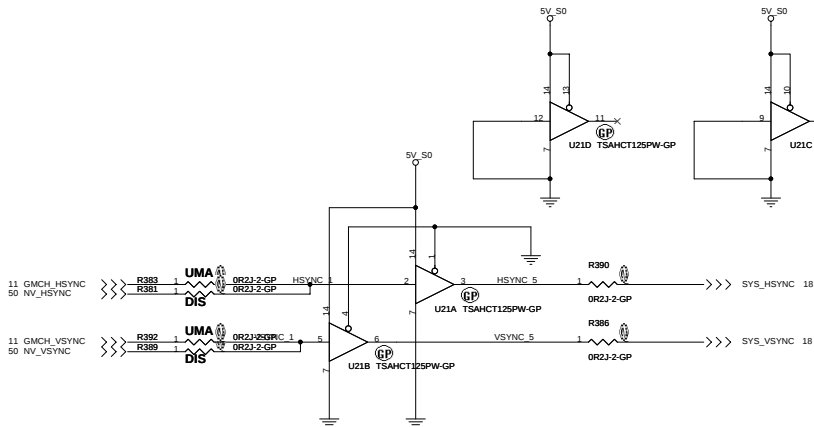
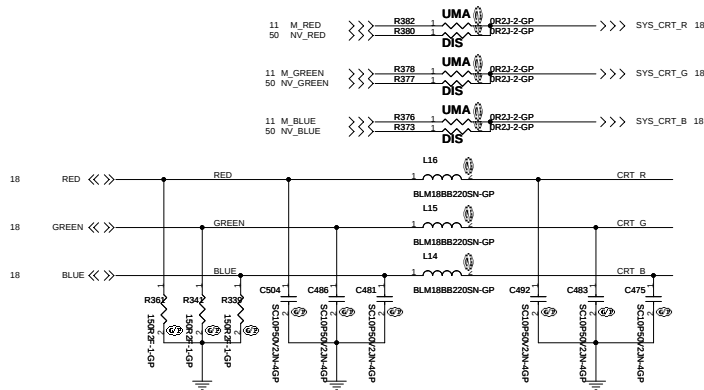
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DDR A DQSO176	70	DQSO176
DDR A DQSO177	131	DQSO177
DDR A DQSO178	146	DQSO178
DDR A DQSO179	167	DQSO179
DDR A DQSO180	186	DQSO180
DDR A DQSO181	11	DQSO181
DDR A DQSO182	31	DQSO182
DDR A DQSO183	51	DQSO183
DDR A DQSO184	70	DQSO184
DDR A DQSO185	131	DQSO185
DDR A DQSO186	146	DQSO186
DDR A DQSO187	167	DQSO187
DDR A DQSO188	186	DQSO188
DDR A DQSO189	11	DQSO189
DDR A DQSO190	31	DQSO190
DDR A DQSO191	51	DQSO191
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DDR A DQSO195	167	DQSO195
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DDR A DQSO279	51	DQSO279
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DDR A DQSO283	167	DQSO283
DDR A DQSO284	186	DQSO284
DDR A DQSO285	11	DQSO285
DDR A DQSO286	31	DQSO286
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DDR A DQSO288	70	DQSO288
DDR A DQSO289	131	DQSO289
DDR A DQSO290	146	DQSO290
DDR A DQSO291	167	DQSO291
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DDR A DQSO295	51	DQSO295
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DDR A DQSO300	186	DQSO300
DDR A DQSO301	11	DQSO301
DDR A DQSO302	31	DQSO302



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File			
Size		DDRII-SODIMM SLOT2	
Customer	Document Number	LT71	Rev SC
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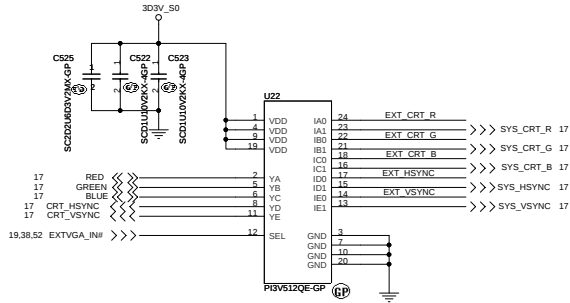
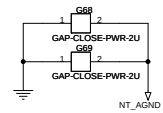
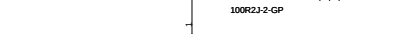
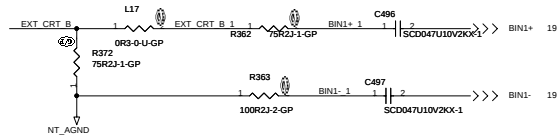
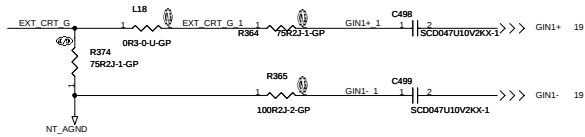
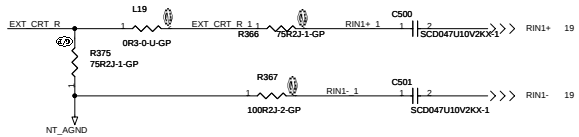
CRT I/F & CONNECTOR



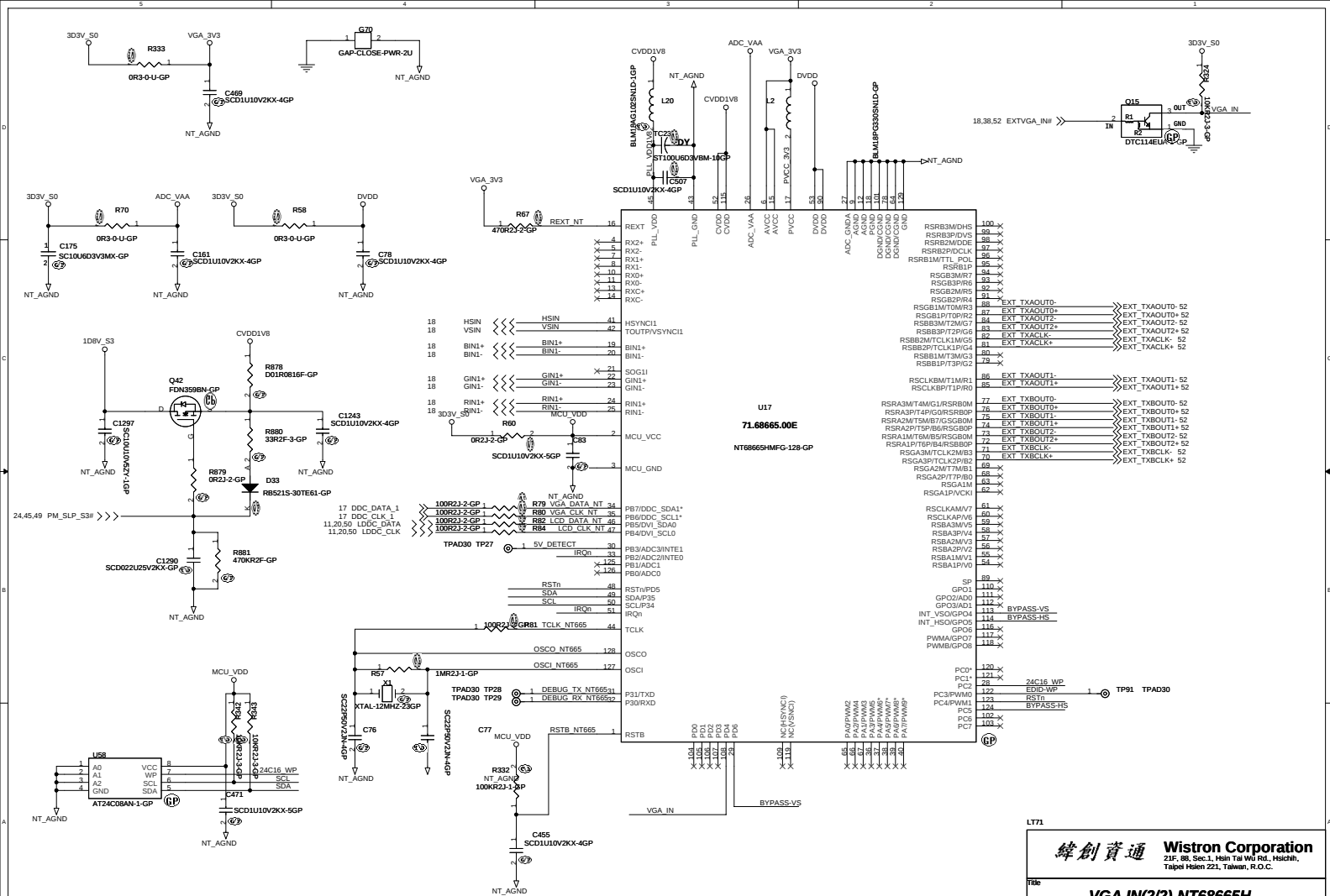
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Title			
CRT Connector			
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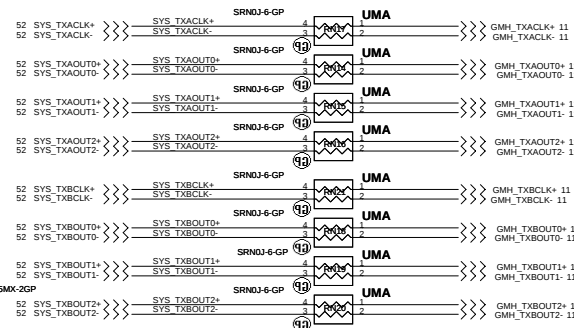
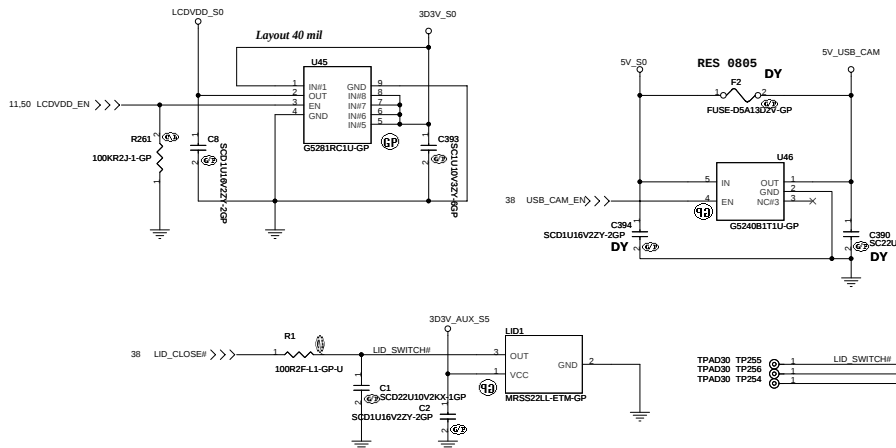
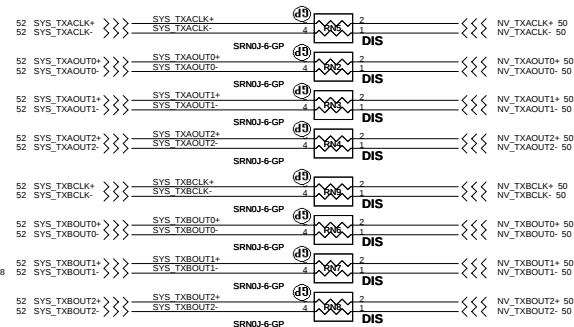
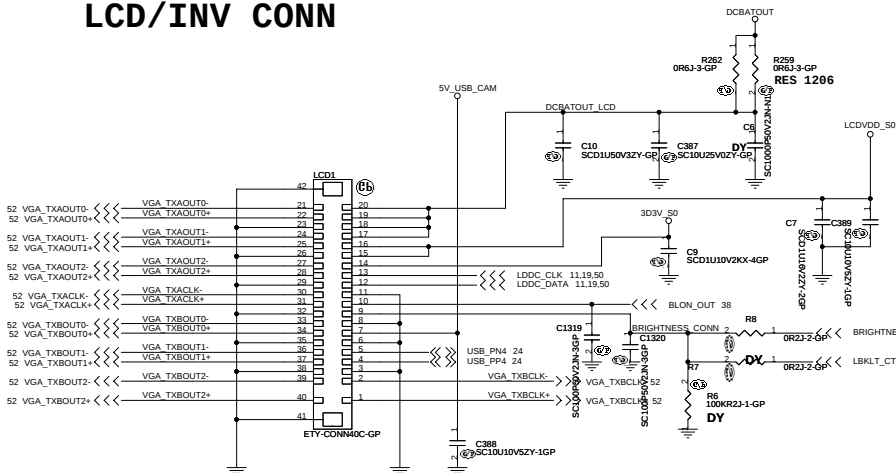


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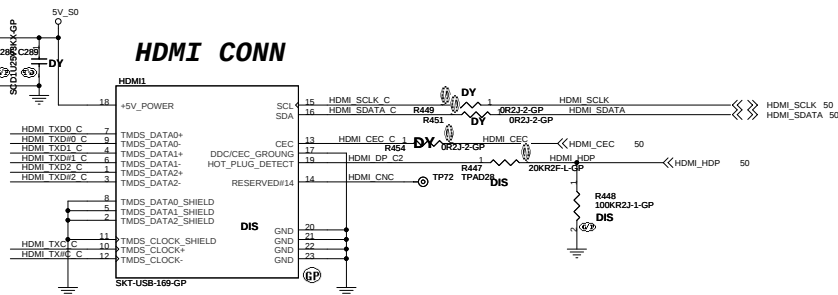
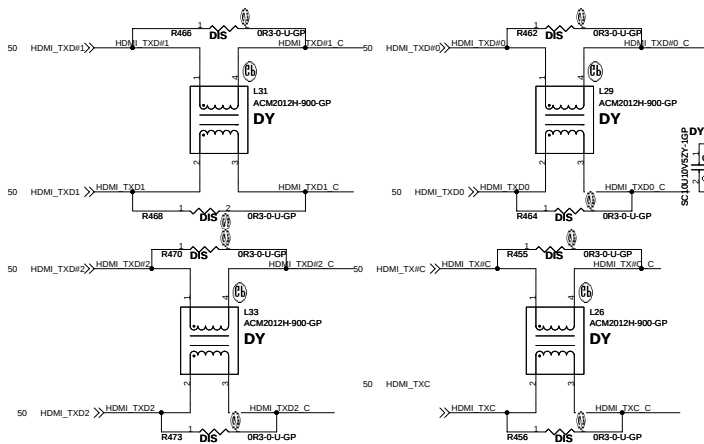
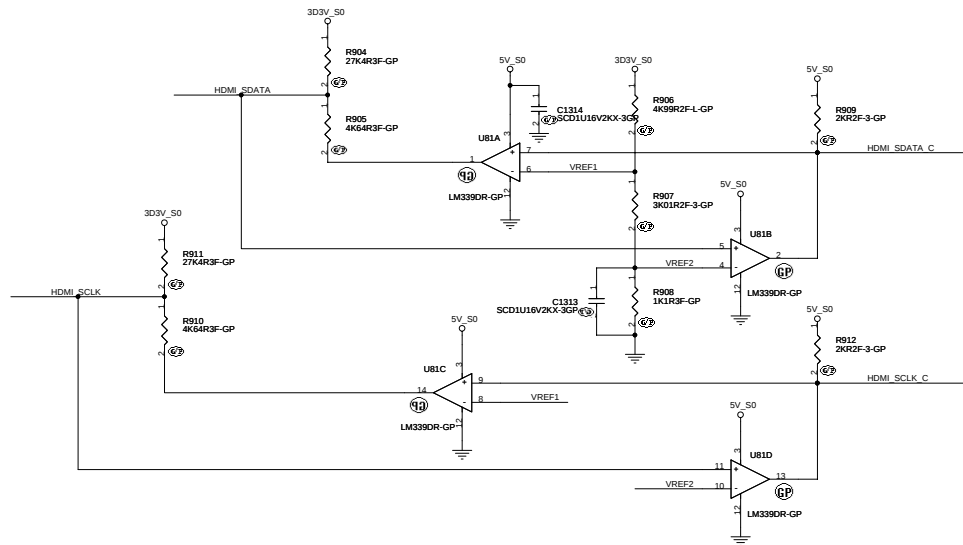


LED / INVERTER INTERFACE

LCD/INV CONN



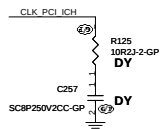
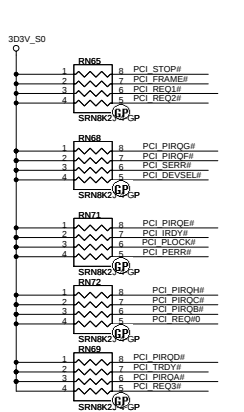
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29 PCI_AD[0..31] <<> PCI_AD[0..31]

PCI_A0	D20	AD0
PCI_A1	E18	AD1
PCI_A2	D19	AD2
PCI_A3	A20	AD3
PCI_A4	D17	AD4
PCI_A5	A21	AD5
PCI_A6	A18	AD6
PCI_A7	C19	AD7
PCI_A8	A18	AD8
PCI_A9	B16	AD9
PCI_AD10	A12	AD10
PCI_AD11	E16	AD11
PCI_AD12	A14	AD12
PCI_AD13	G16	AD13
PCI_AD14	A15	AD14
PCI_AD15	B6	AD15
PCI_AD16	C11	AD16
PCI_AD17	A9	AD17
PCI_AD18	B11	AD18
PCI_AD19	B12	AD19
PCI_AD20	C12	AD20
PCI_AD21	D10	AD21
PCI_AD22	C7	AD22
PCI_AD23	E11	AD23
PCI_AD24	E11	AD24
PCI_AD25	E13	AD25
PCI_AD26	C12	AD26
PCI_AD27	D8	AD27
PCI_AD28	E8	AD28
PCI_AD29	E8	AD29
PCI_AD30	D6	AD30
PCI_AD31	A3	AD31

3 OF 6 U23C

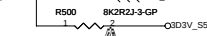
PCI

Interrupt I/F

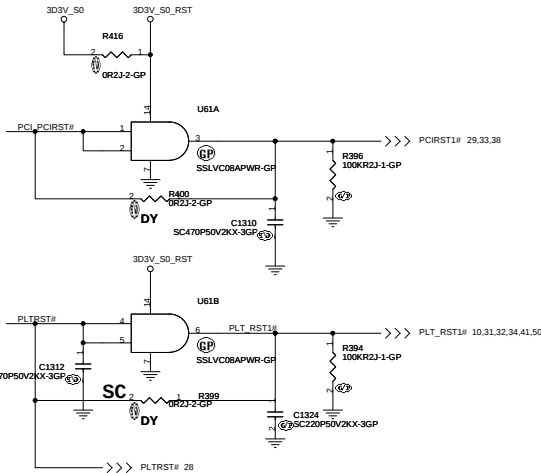
ICH8-M-1-GP-U-NF

29 PCI_PIRQA# >>>	PCI_PIRQA# F9C	PIRQA#	PIRQA#GPI0
29 PCI_PIRQB# >>>	PCI_PIRQB# B5C	PIRQB#	PIRQB#GPI03
29 PCI_PIRQC# >>>	PCI_PIRQC# C5C	PIRQC#	PIRQC#GPI04
	PCI_PIRQD# A10C	PIRQD#	PIRQD#GPI05

REQ0#	A4	PCI_REQ0# 29
GNT0#	D7	PCI_GNT0# 29
REQ1#/GPI05	E18	PCI_REQ1# 29
GNT1#/GPI01	C18-X	PCI_REQ2# 29
REQ2#/GPI02	B13-X	PCI_GNT3# 29
GNT2#/GPI03	E18-X	PCI_GNT3# 29
GNT3#/GPI05	C10	PCI_GNT3# 29
REQ3#/GPI04	A11	PCI_GNT3# 29
CBE0#	C17	PCI_CBE#0 29
CBE1#	E15	PCI_CBE#1 29
CBE2#	C16	PCI_CBE#2 29
CBE3#	E17	PCI_CBE#3 29
IRDY#	C8	PCI_IRDY# 29
PAR	D9	PCI_PAR 29
PCIRST#	D6	PCI_PCIRST# 29
DEVSEL#	D16	PCI_DEVSEL# 29
PERR#	A7	PCI_PERR# 29
FRAME#	A17	PCI_FRAME# 29
CLOCK#	B7	PCI_CLOCK# 29
SERR#	C10	PCI_SERR# 29
STOP#	C16	PCI_STOP# 29
TRDY#	C9	PCI_TRDY# 29
PLTRST#	AG24	PLTRST# 29
PCCLK#	B10	CLK PCI ICH 3
PME#	D7	ICH_PME# 29

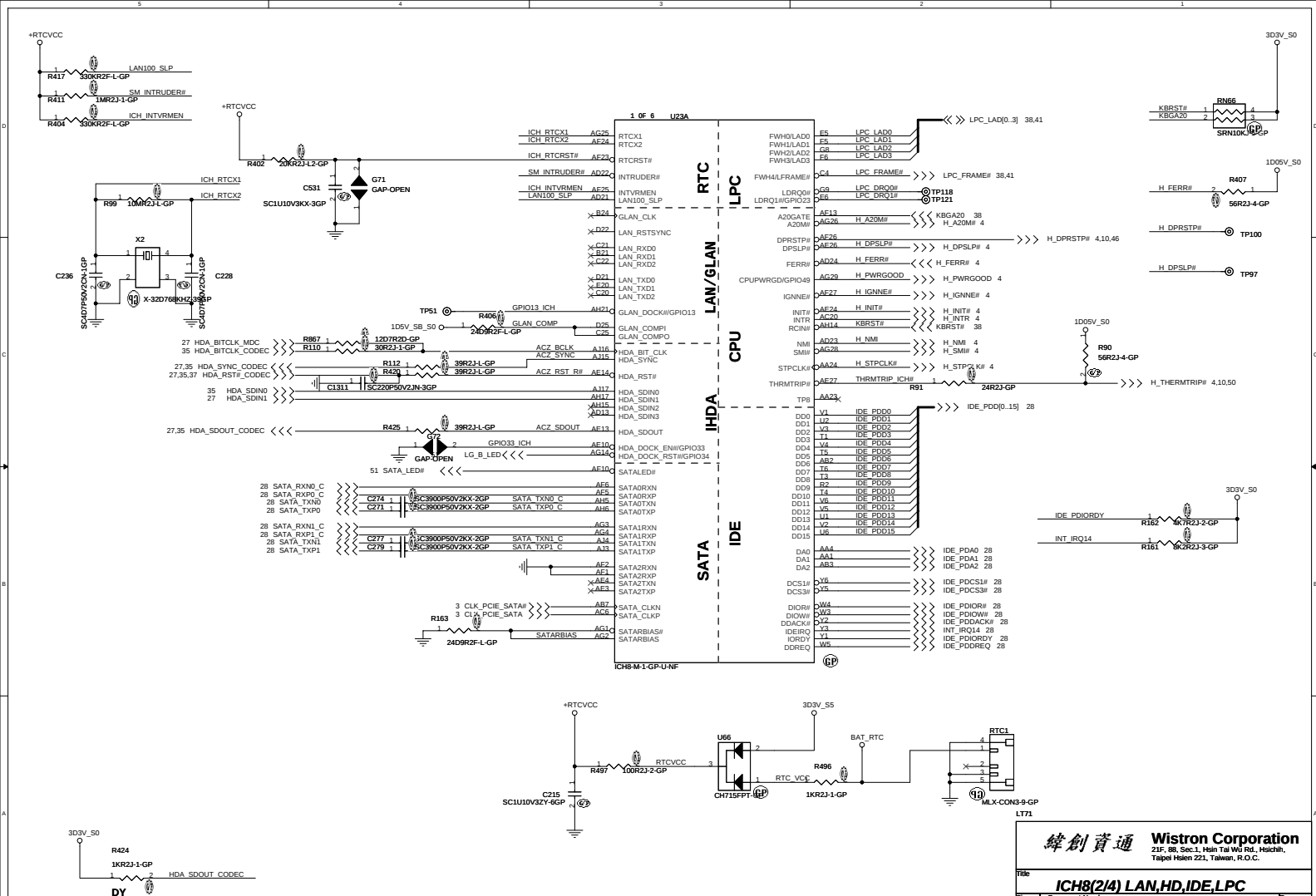


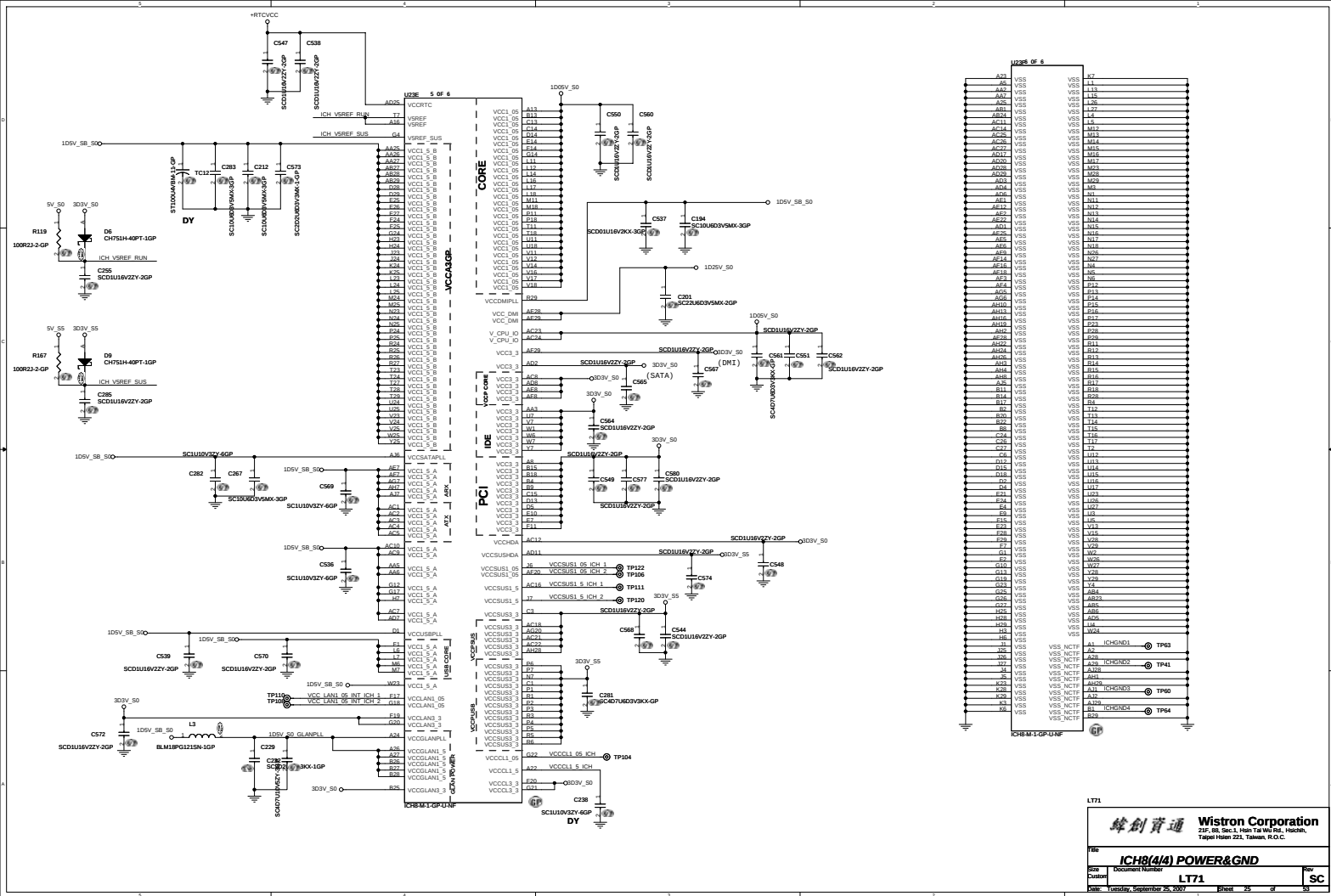
F8	PCI_PIRQE#
C11	PCI_PIRQF#
C12	PCI_PIRQG#
B3	PCI_PIRQH#

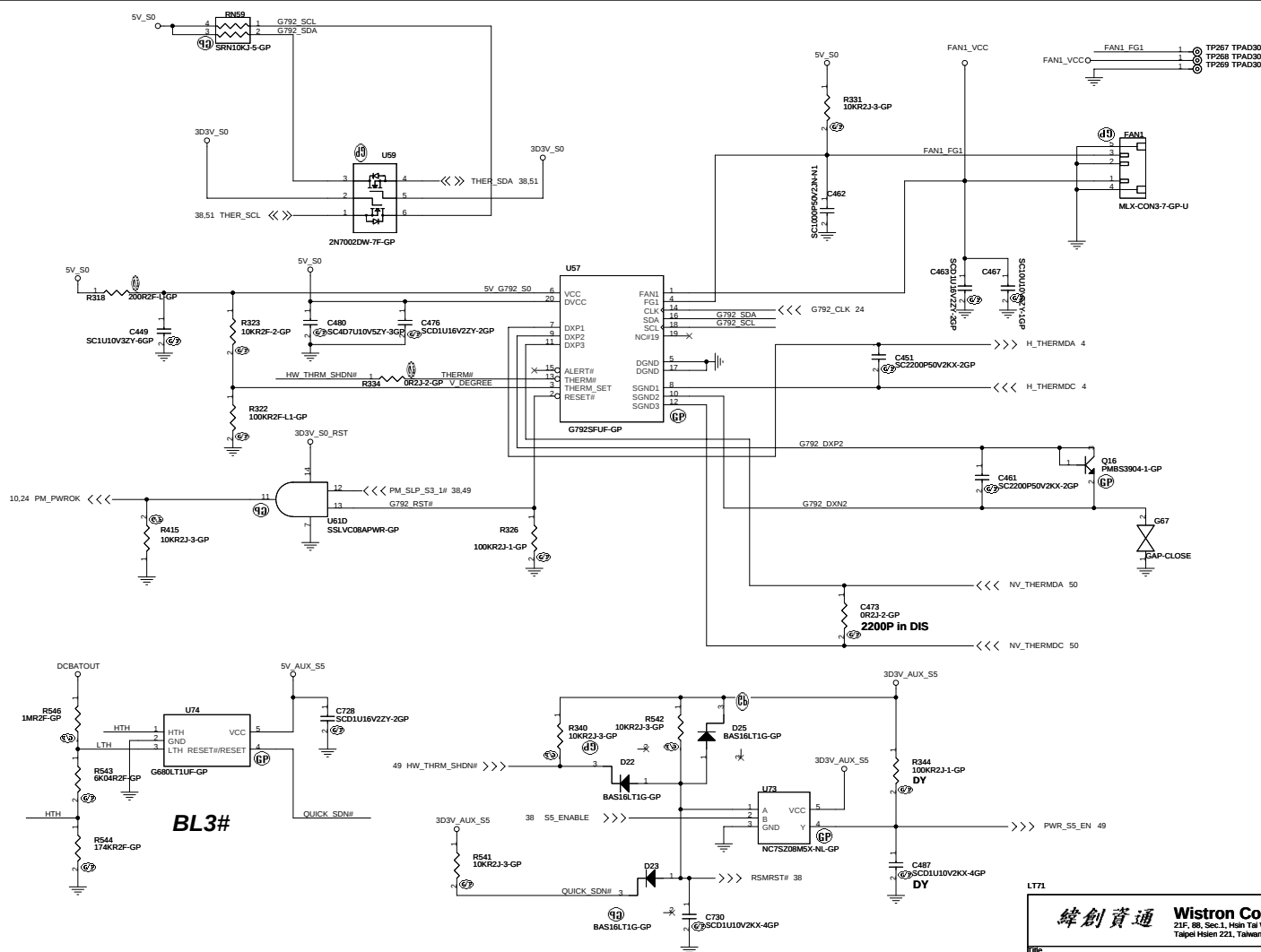


24 SPI_CS1# <<< SPI_CS1#

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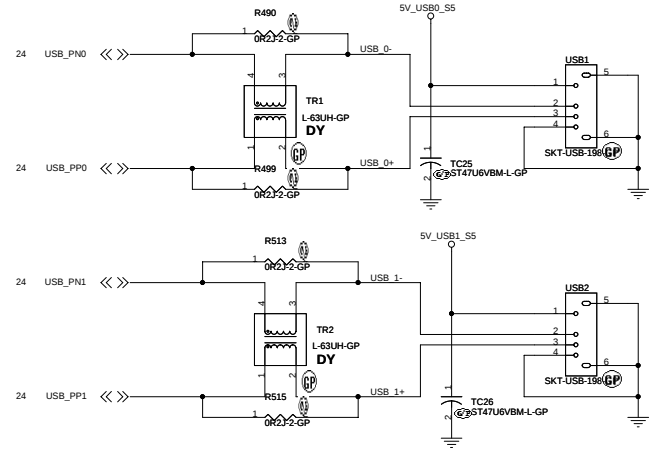
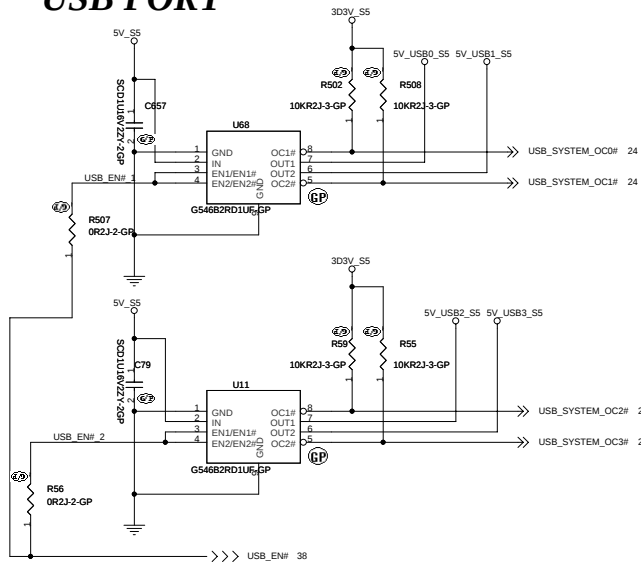




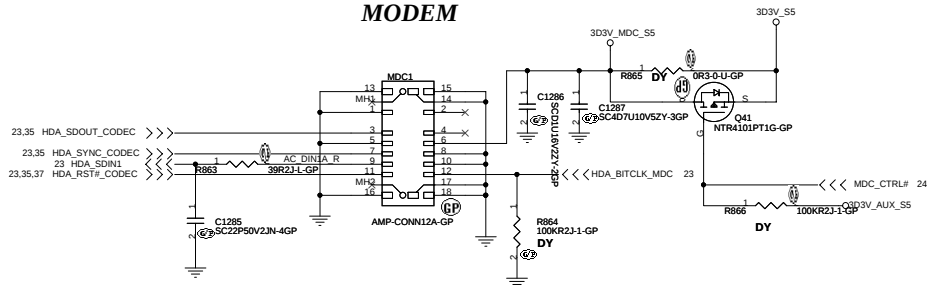
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Title	Thermal/Fan Controller G792
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USB PORT



MODEM

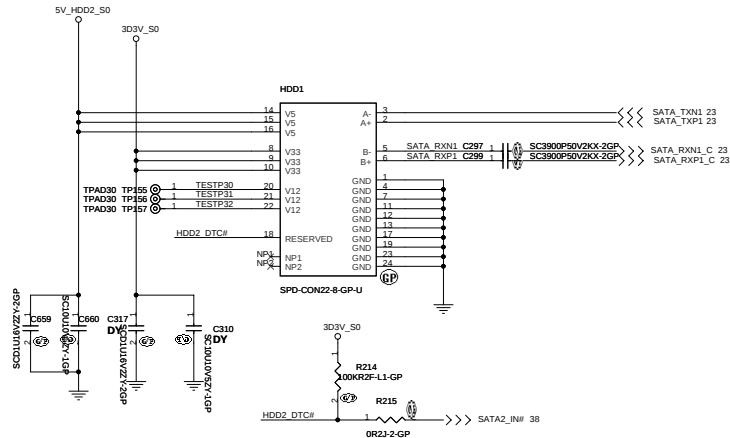
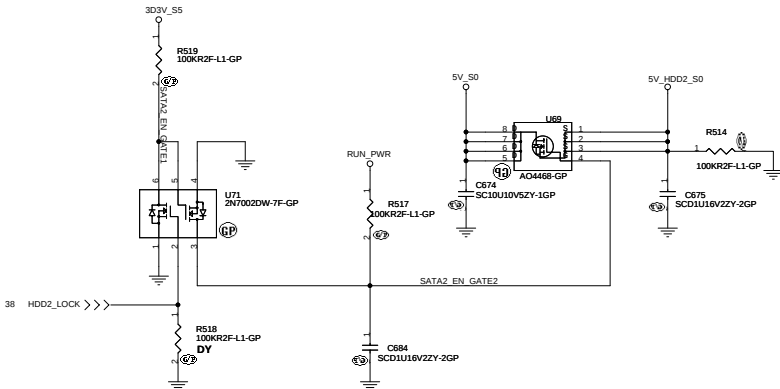


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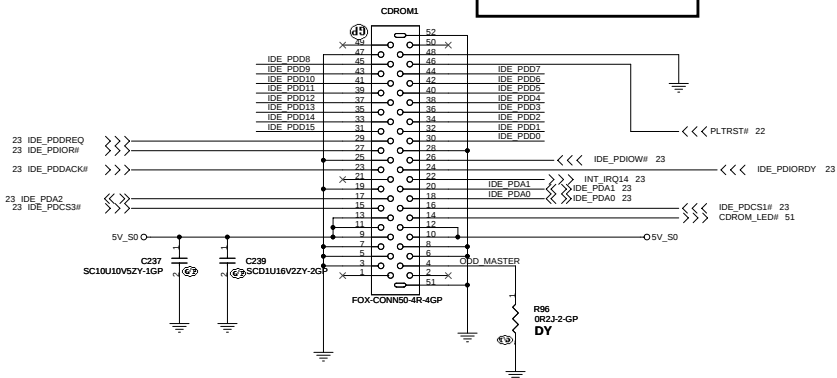
緯創資通 Wistron Corporation
23F, 88, Sec.1, Hsin Tai Wu Rd., Hsuehshih,
Taipet Hsien 221, Taiwan, R.O.C.

Title: **USB I/O**
Size: B Document Number: **LT71** Rev: **SC**
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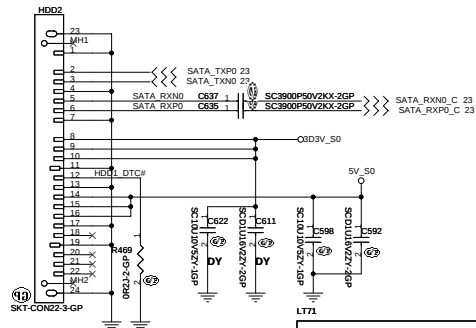
SATA HDD2 Connector

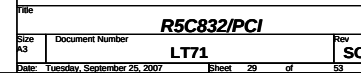


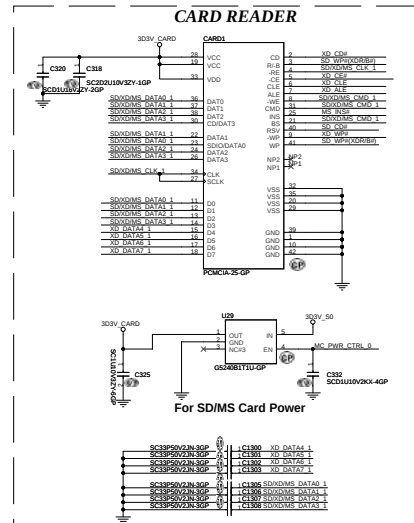
CD-ROM CONNECTOR



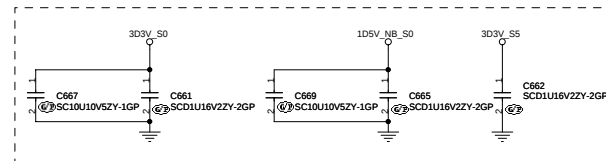
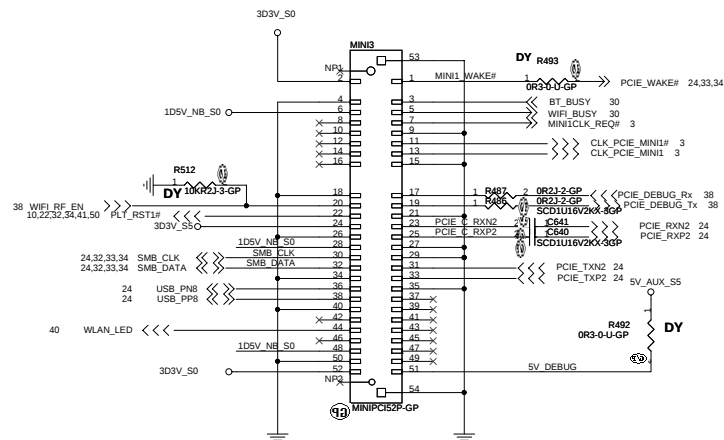
SATA HDD1 Connector







Wireless Card



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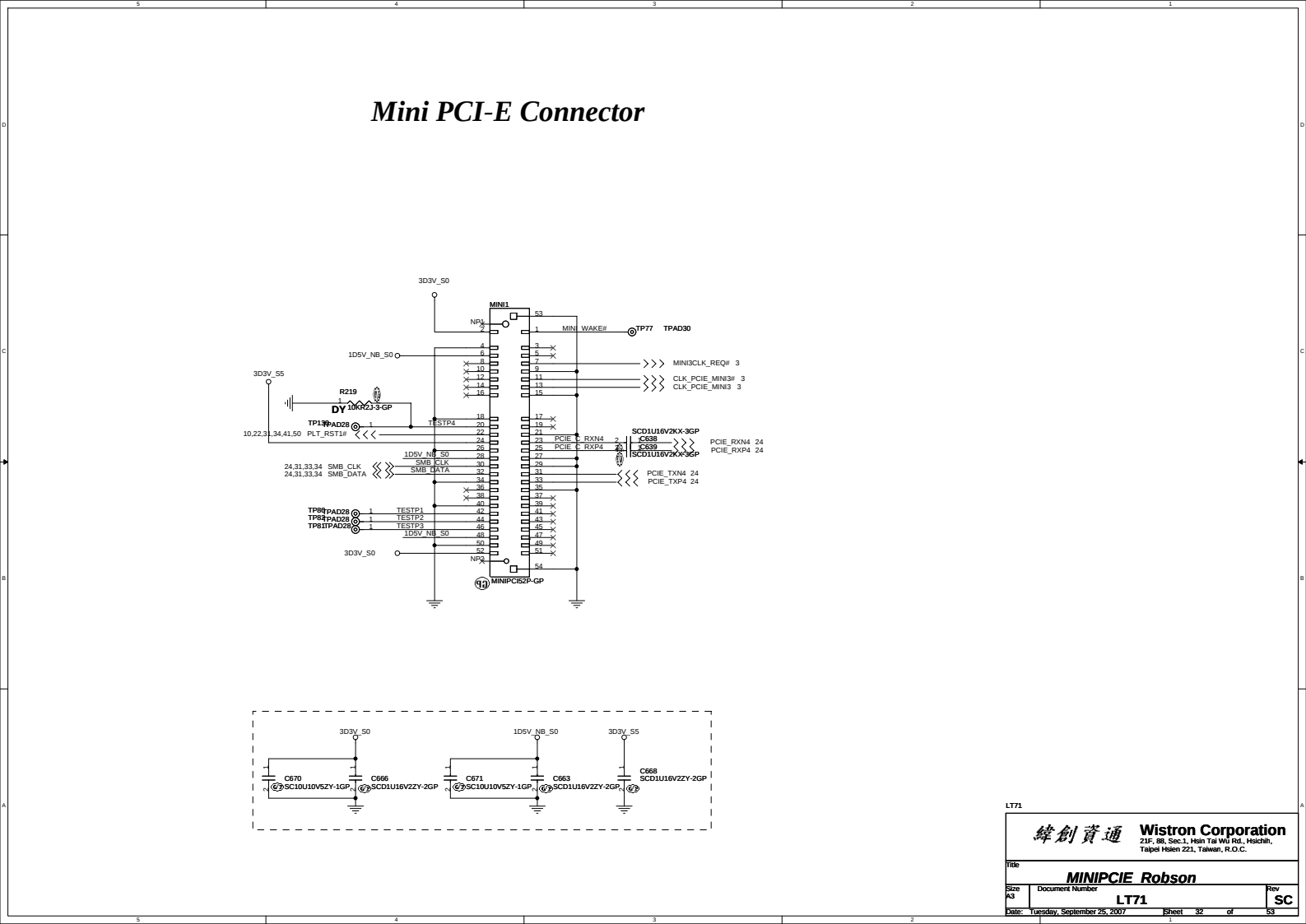
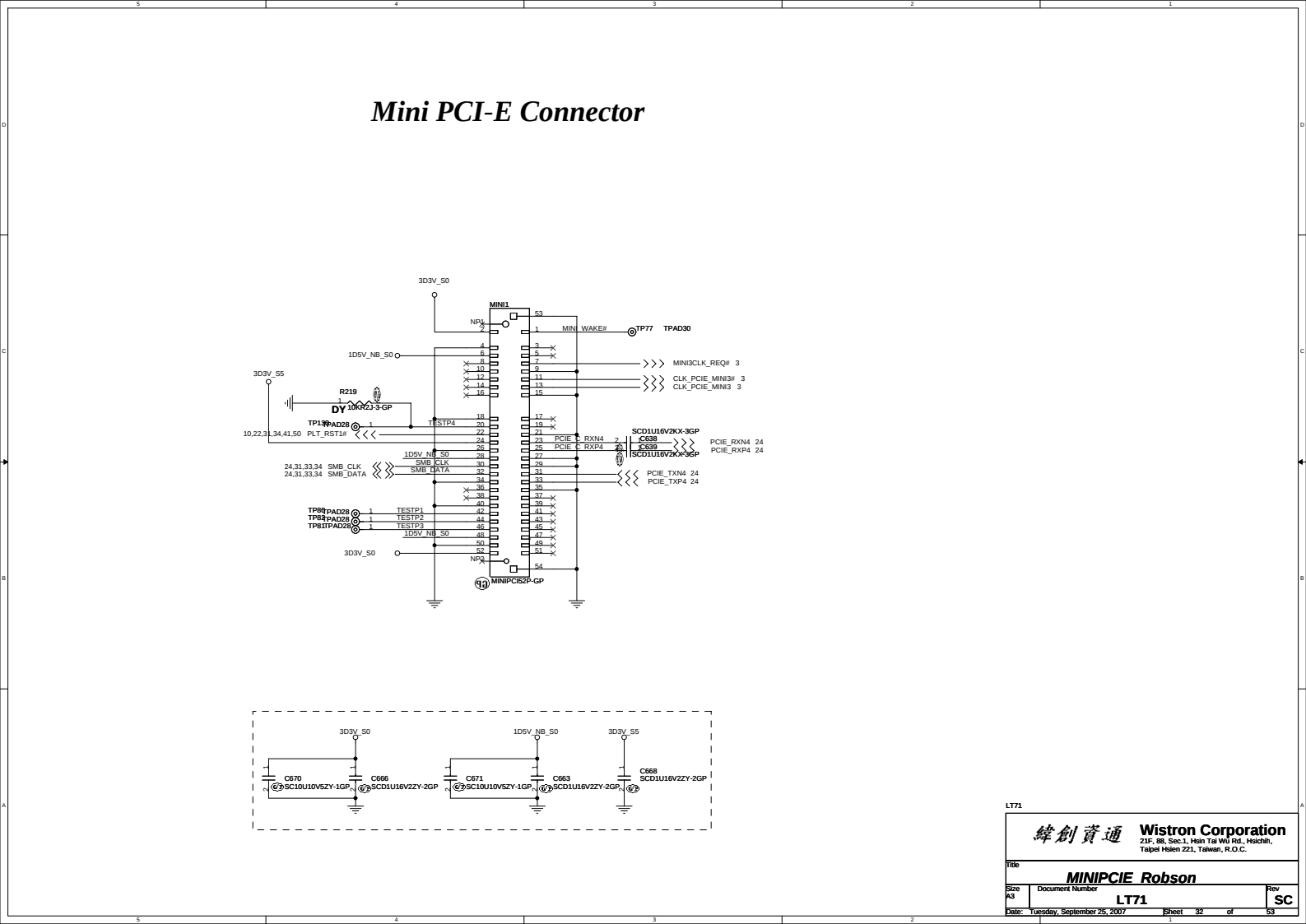
Mini PCI-E Connector

The diagram illustrates the electrical connections for a Mini PCI-E connector. It shows the following components and connections:

- Power Connections:**
 - 3D3V_S5: Connected to pin 10.
 - 1D5V_NB_S0: Connected to pin 24.
 - 3D3V_S0: Connected to pin 30.
- Signal Connections:**
 - MINI_WAKE#: Connected to pin 1.
 - TP77: Connected to pin 2.
 - TPAD30: Connected to pin 3.
 - MINI3CLK_REQ#: Connected to pins 4, 5, and 6.
 - CLK_PCIE_MINI3#: Connected to pins 7, 8, and 9.
 - CLK_PCIE_MINI3: Connected to pins 10, 11, and 12.
 - PCIE_RXN4: Connected to pins 13, 14, and 15.
 - PCIE_RXP4: Connected to pins 16, 17, and 18.
 - PCIE_TXN4: Connected to pins 19, 20, and 21.
 - PCIE_TXP4: Connected to pins 22, 23, and 24.
- Test Points:**
 - TP1: Connected to pin 25.
 - TP8: Connected to pin 26.
 - TP9: Connected to pin 27.
 - TP10: Connected to pin 28.
- Component Values:**
 - R219: 10kΩ
 - C670: 10µF
 - C666: 10µF
 - C671: 10µF
 - C663: 10µF
 - C668: 10µF

The detailed view at the bottom shows the following connections:

- 3D3V_S5: Connected to pin 10.
- 1D5V_NB_S0: Connected to pin 24.
- 3D3V_S0: Connected to pin 30.
- PCIE_RXN4: Connected to pins 13, 14, and 15.
- PCIE_RXP4: Connected to pins 16, 17, and 18.
- PCIE_TXN4: Connected to pins 19, 20, and 21.
- PCIE_TXP4: Connected to pins 22, 23, and 24.



Mini PCI-E Connector

The diagram illustrates the electrical connections for a Mini PCI-E connector. It shows the following components and connections:

- Power Connections:**
 - 3D3V_S5: Connected to pin 10, 22, 31, 34, 41, 50.
 - 1D5V_NB_S0: Connected to pin 1, 15, 25, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50.
 - 3D3V_S0: Connected to pin 1, 15, 25, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50.
- Signal Connections:**
 - MINI_WAKE#: Connected to pin 1.
 - TP77: Connected to pin 2.
 - TPAD30: Connected to pin 3.
 - MINI3CLK_REQ#: Connected to pins 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.
 - CLK_PCIE_MINI3#: Connected to pins 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.
 - CLK_PCIE_MINI3: Connected to pins 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.
 - PCIE_RXN4: Connected to pins 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.
 - PCIE_RXP4: Connected to pins 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.
 - PCIE_TXN4: Connected to pins 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.
 - PCIE_TXP4: Connected to pins 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.
- Test Points:**
 - TP1: Connected to pin 1.
 - TP8: Connected to pin 8.
 - TP9: Connected to pin 9.
 - TP10: Connected to pin 10.
- Capacitors:**
 - C670: 10µF, 50V, connected to 3D3V_S5.
 - C666: 10µF, 50V, connected to 1D5V_NB_S0.
 - C671: 10µF, 50V, connected to 1D5V_NB_S0.
 - C663: 10µF, 50V, connected to 1D5V_NB_S0.
 - C668: 10µF, 50V, connected to 3D3V_S5.

The diagram also includes a detailed view of the power and signal pins at the bottom, showing the connection of the capacitors to the pins.

Mini PCI-E Connector

The diagram illustrates the electrical connections for a Mini PCI-E connector. It includes the following components and connections:

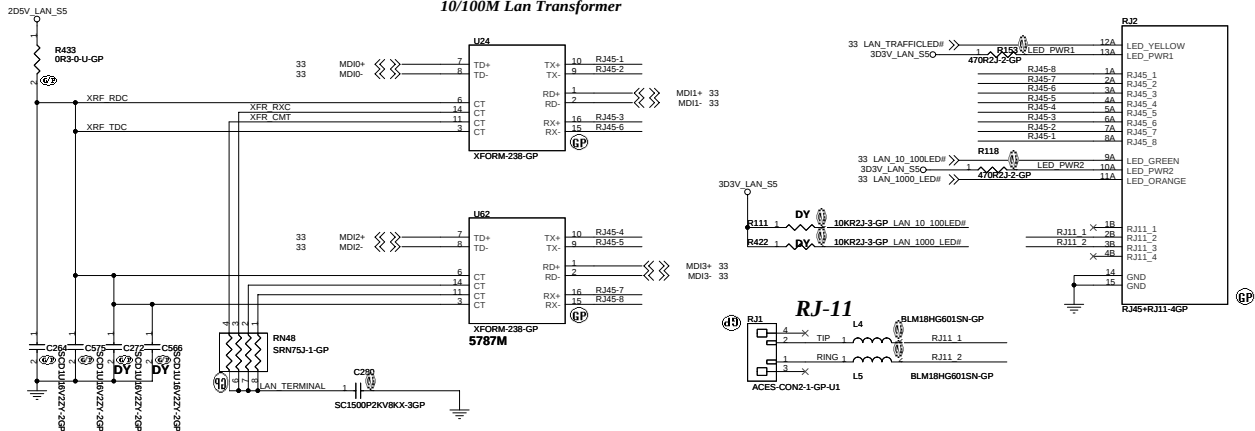
- Power and Ground:**
 - 303V_50: Connected to pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.
 - 105V_NB_50: Connected to pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.
 - 303V_55: Connected to pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.
- Control and Data:**
 - MINI_WAKE#: Connected to pin 1.
 - TP77: Connected to pin 2.
 - TPAD30: Connected to pin 3.
 - MINI3CLK_REQ#: Connected to pins 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.
 - CLK_PCIE_MINI3#: Connected to pins 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.
 - CLK_PCIE_MINI3: Connected to pins 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.
 - PCIE_RXN4: Connected to pins 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.
 - PCIE_RXP4: Connected to pins 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.
 - PCIE_TXN4: Connected to pins 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.
 - PCIE_TXP4: Connected to pins 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.
- Test Points:**
 - TP1: Connected to pin 1.
 - TP8: Connected to pin 8.
 - TP9: Connected to pin 9.
 - TP77: Connected to pin 77.
- Capacitors and Resistors:**
 - C670: 10µF, 50V, 10%.
 - C666: 10µF, 50V, 10%.
 - C671: 10µF, 50V, 10%.
 - C663: 10µF, 50V, 10%.
 - C668: 10µF, 50V, 10%.
 - R219: 10kΩ, 1%.
 - R220: 10kΩ, 1%.

The diagram is divided into three sections: 303V_50, 105V_NB_50, and 303V_55. A detailed view of the capacitor connections is shown in a dashed box at the bottom.

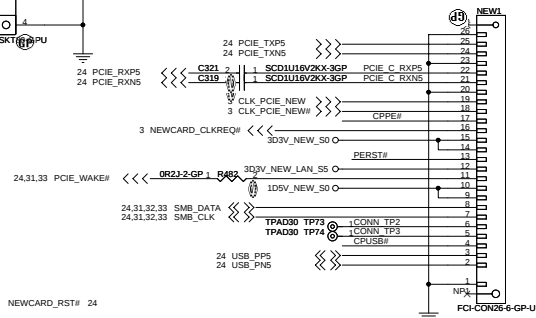
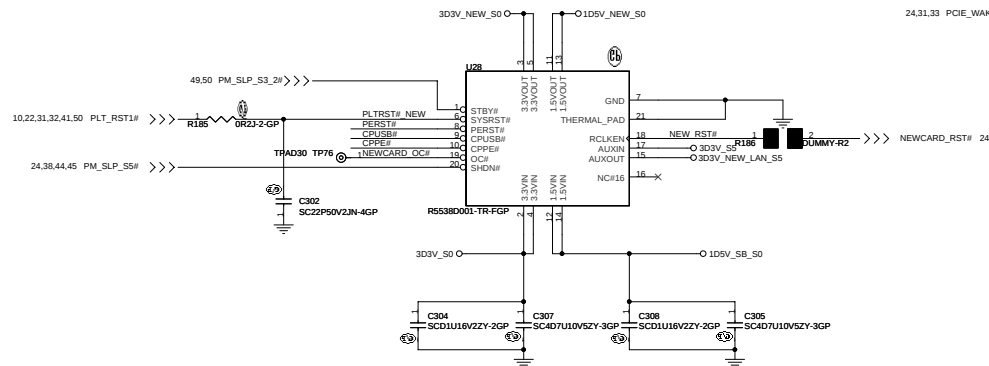
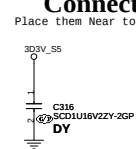
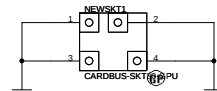
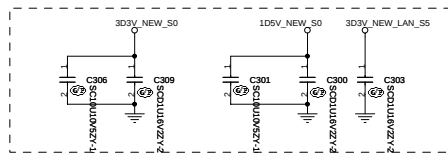
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10/100M Lan Transformer



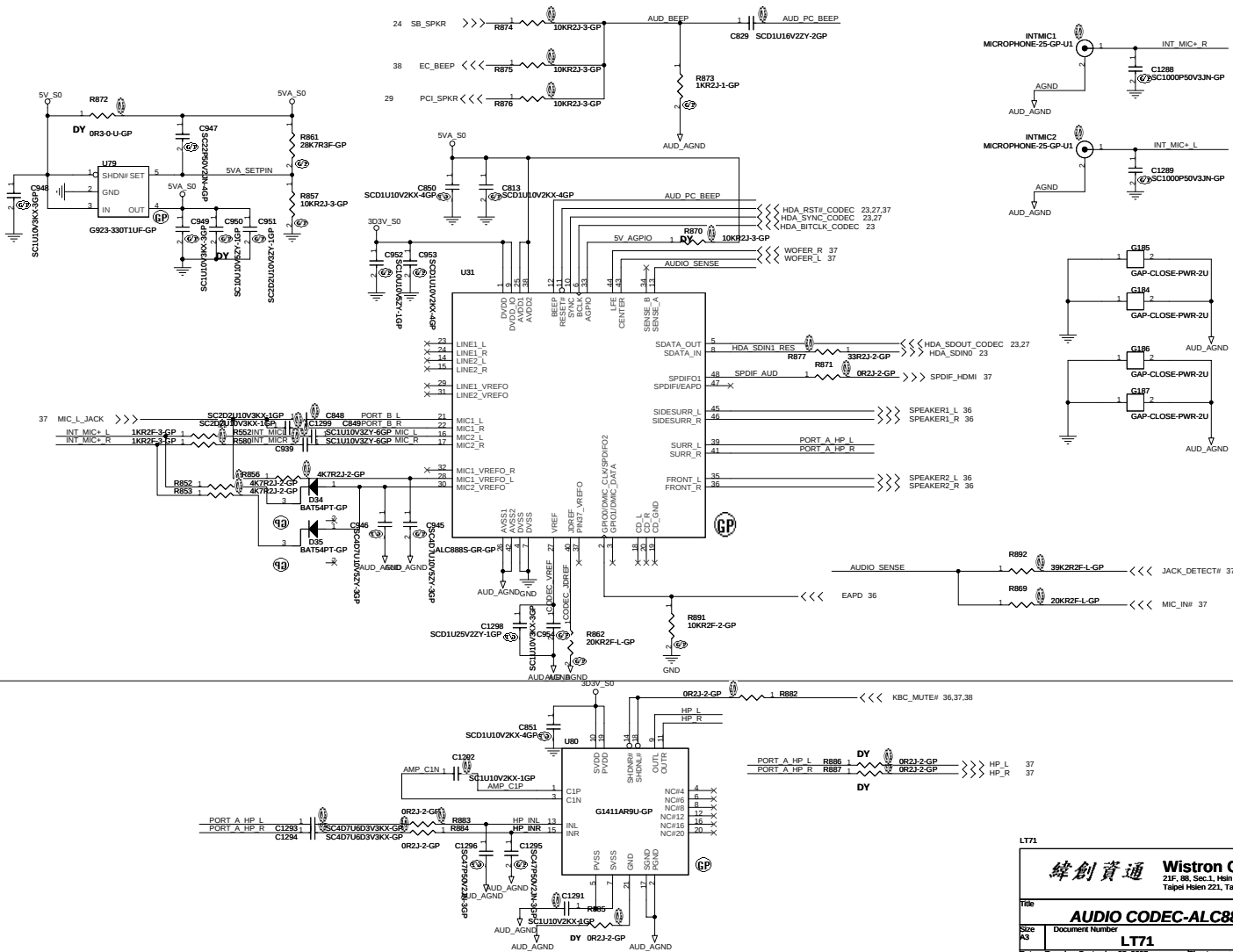
NEWCARD Connector



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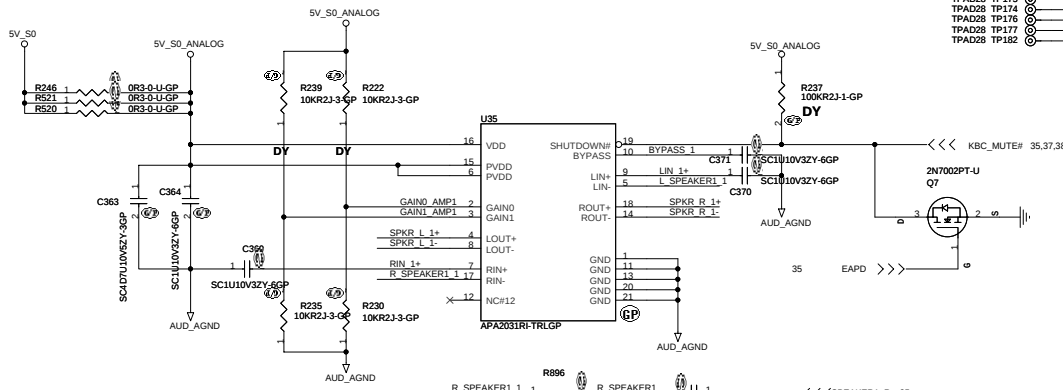
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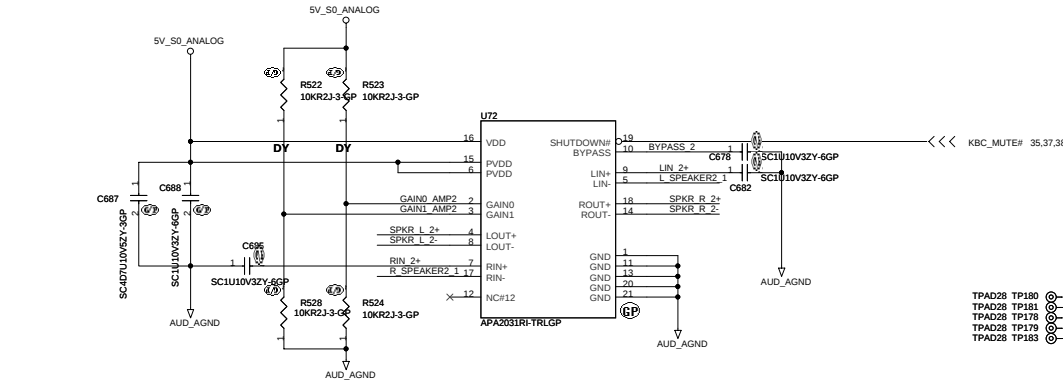
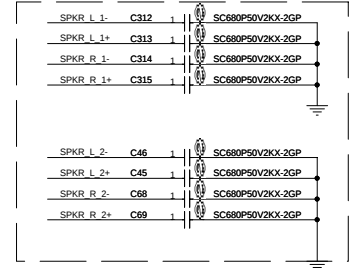
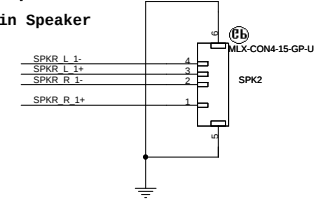
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Taichung Hsien 221, Taiwan, R.O.C.

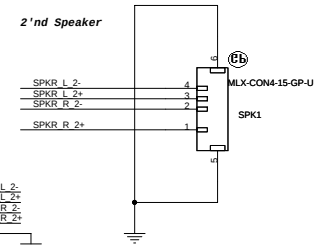
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AUDIO CODEC-ALC888S		LT71		SC	
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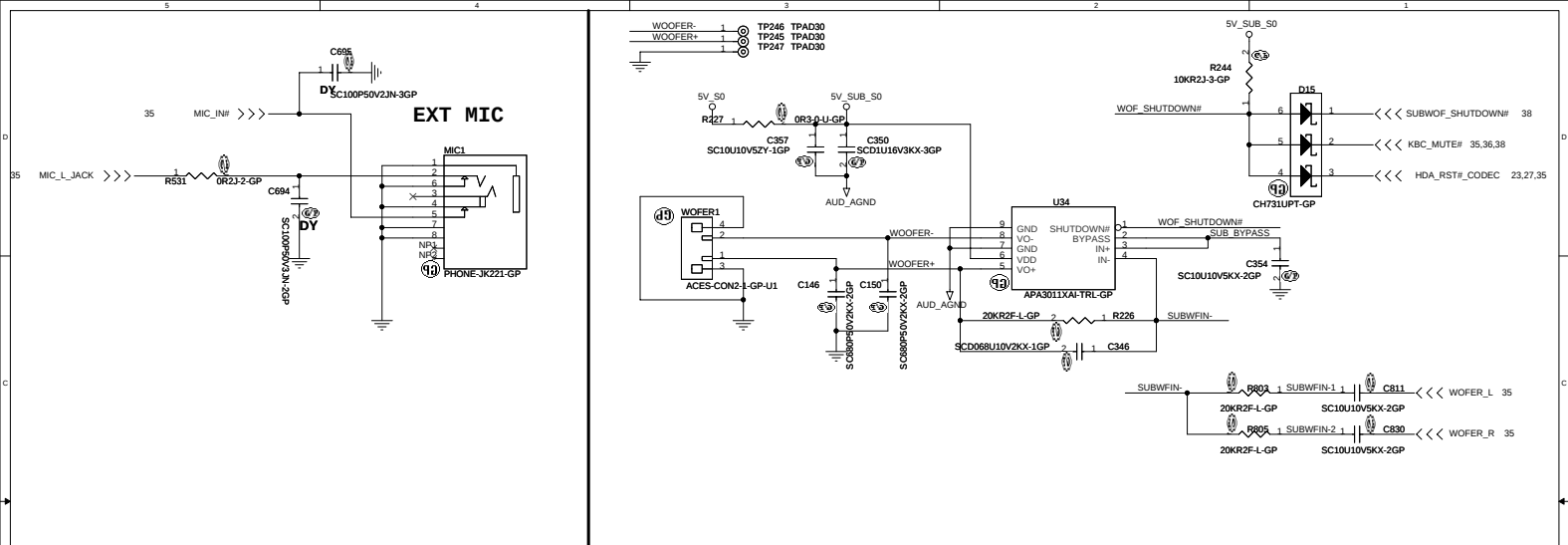
Main Speaker



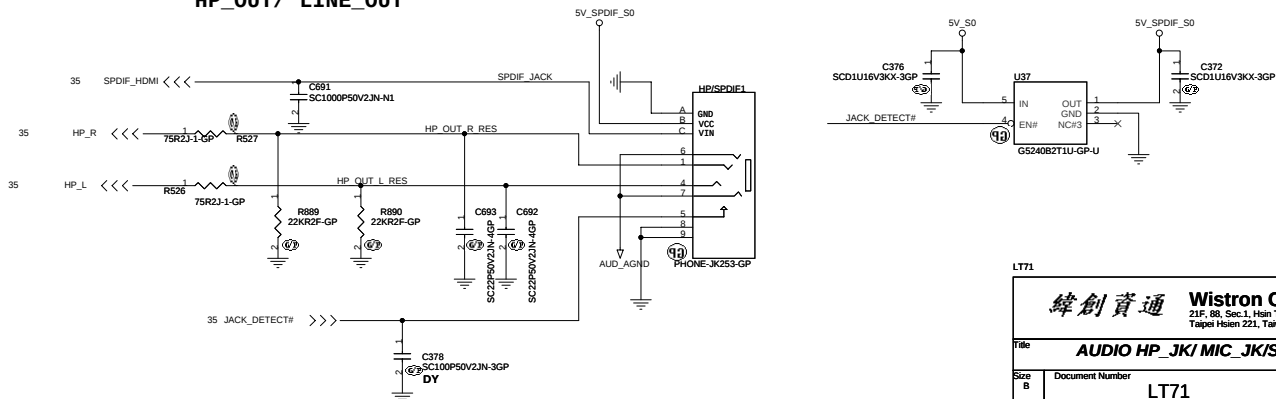
2'nd Speaker



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AUDIO AMP/SPEAKER	
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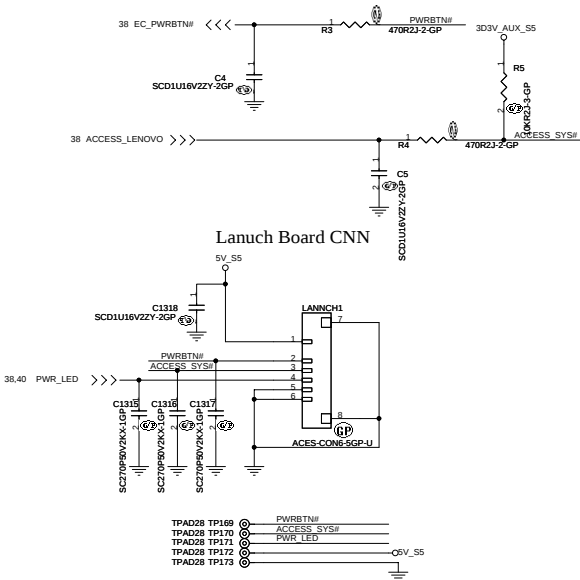
HP_OUT/ LINE_OUT



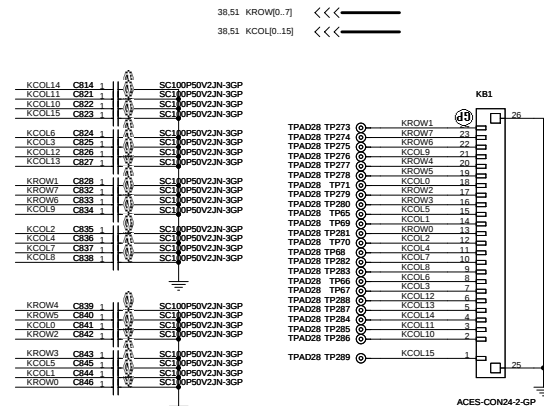
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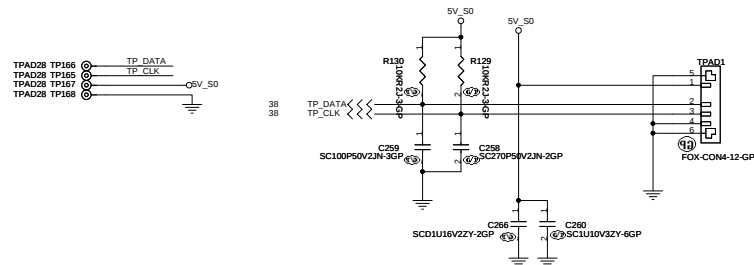




Internal KeyBoard Connector

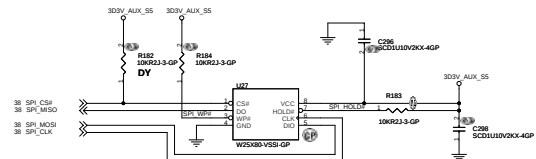


TouchPad Connector



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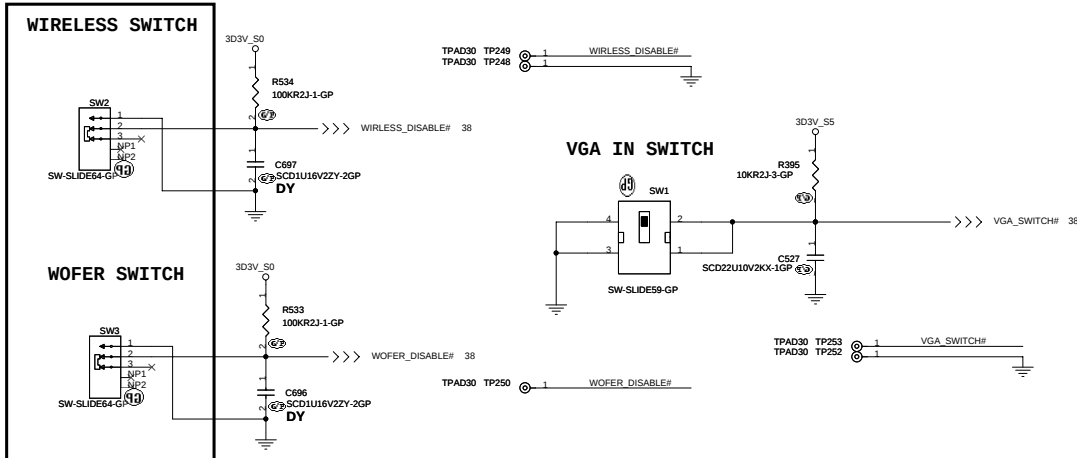
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GOLDEN FINGER FOR DEBUG BOARD

23,38 LPC_LAD[0..3] << >> —

TPAD28	TP57	1	EXT_FWH#
TPAD28	TP62	1	LPC_LAD0
TPAD28	TP61	1	LPC_LAD1
TPAD28	TP58	1	LPC_LAD2
TPAD28	TP56	1	LPC_LAD3

TPAD28	TP58	1	PCLK_FWH	>>>	PCLK_FWH	3
TPAD28	TP55	1	LPC_FRAME#	>>>	LPC_FRAME#	23,38
TPAD28	TP129	1	PLT_RST1#	>>>	PLT_RST1#	10,22,31,32,34,50



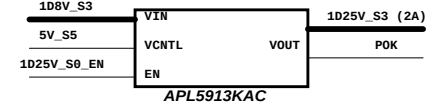
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FWH and Debug	
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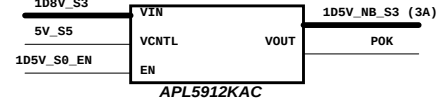
CPU_CORE
ADP3208

3.3V/5V
TI TPS51120

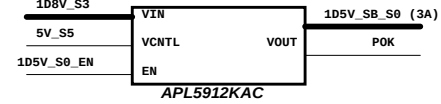
1D25V S3



1D5V NB_S0



1D5V_SB_S0

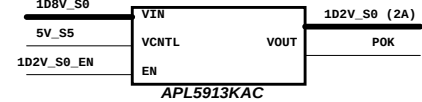


DDR_0D9V_S0

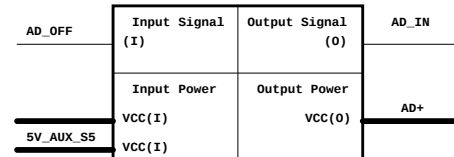


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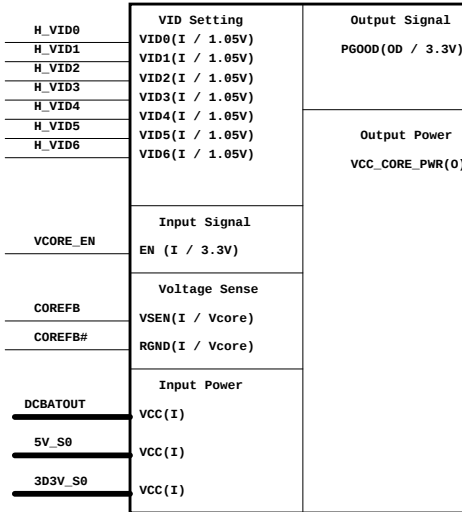
1D2V_S0



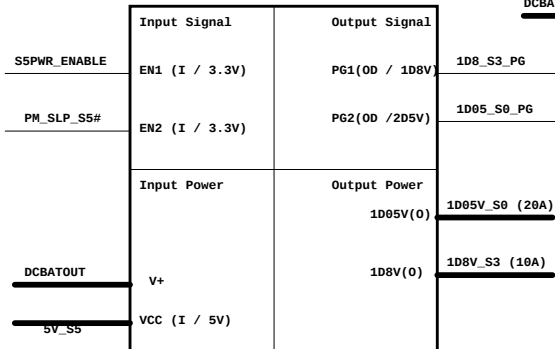
Adapter



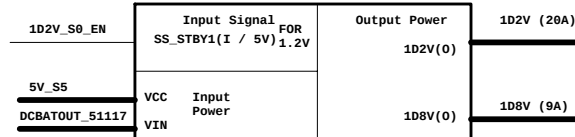
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Power Block Diagram	
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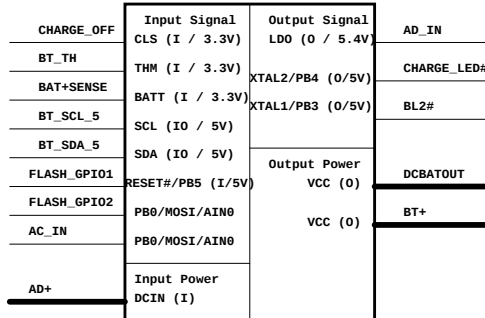
1D8V/1D05V
TI TPS51124

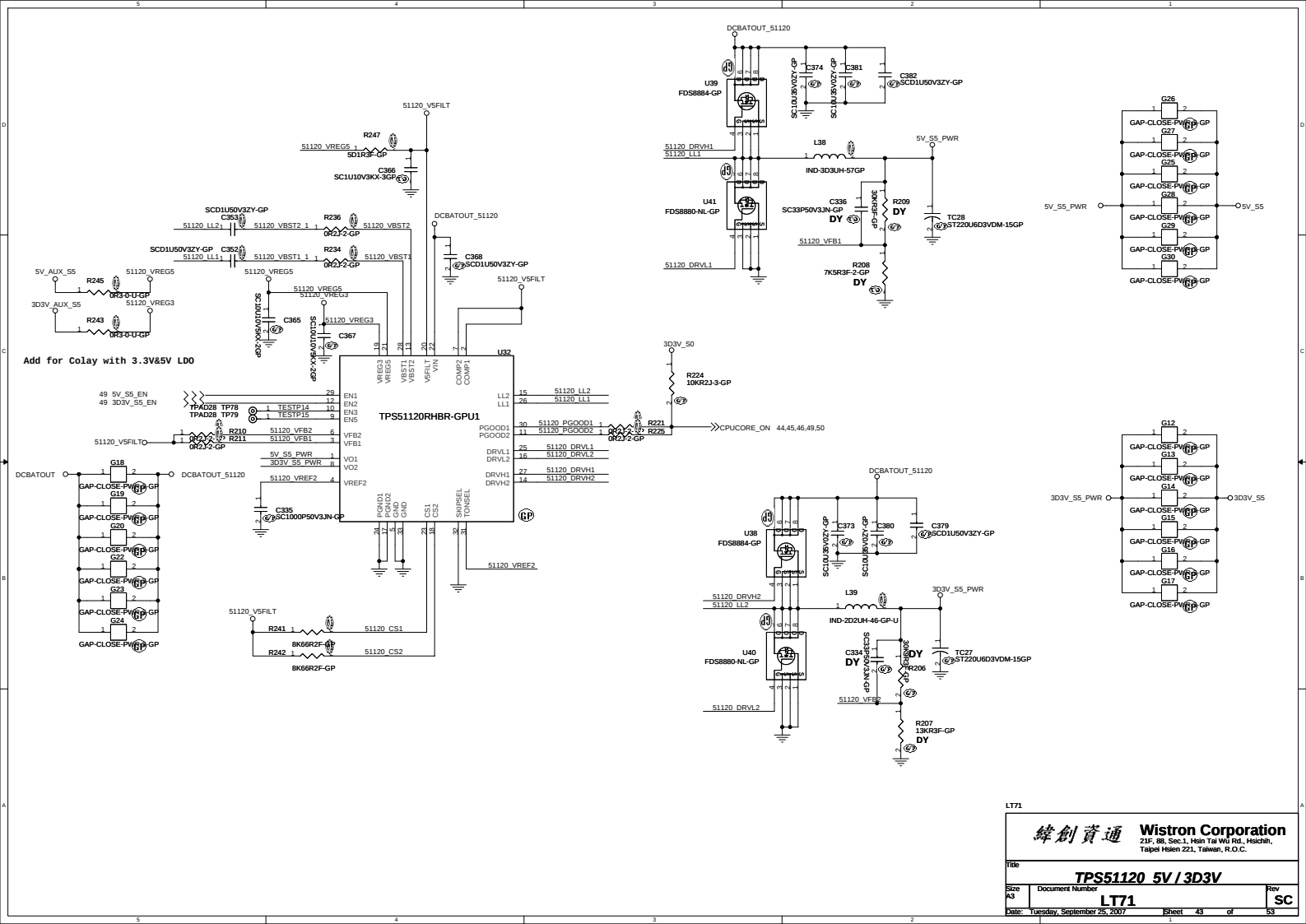


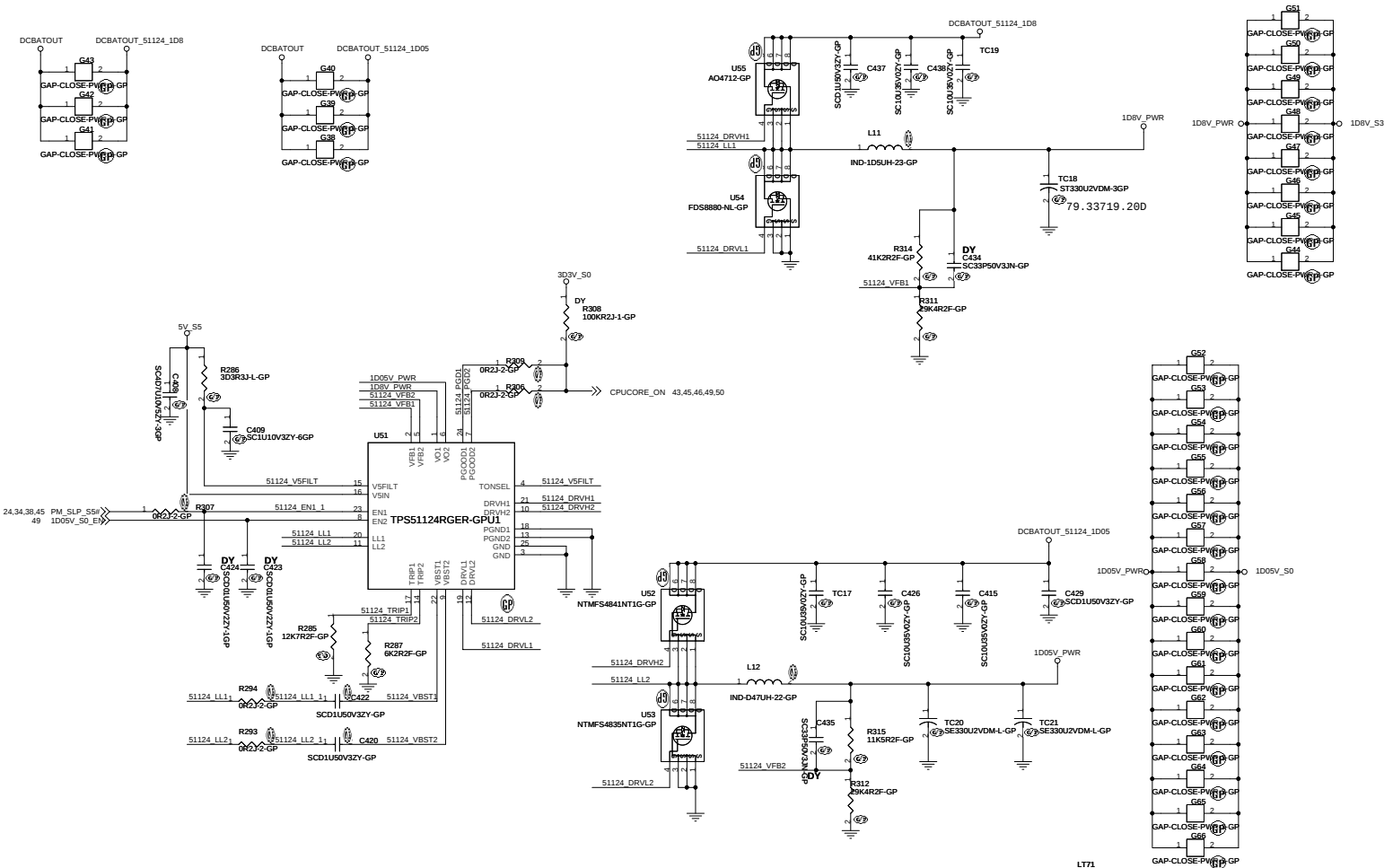
TPS51117 *2 for VGA 1.2 V / 1.15V and 1D8V .



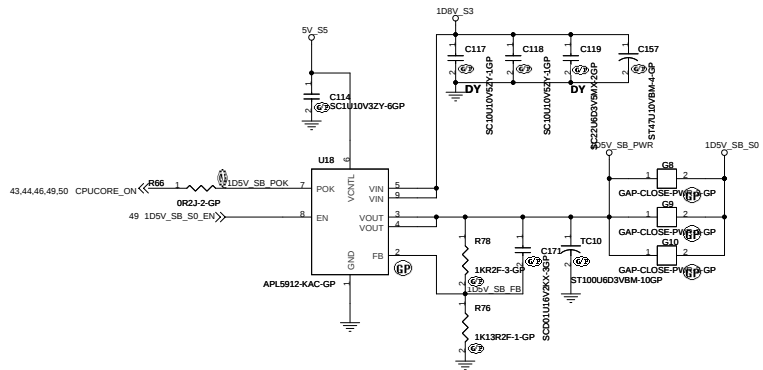
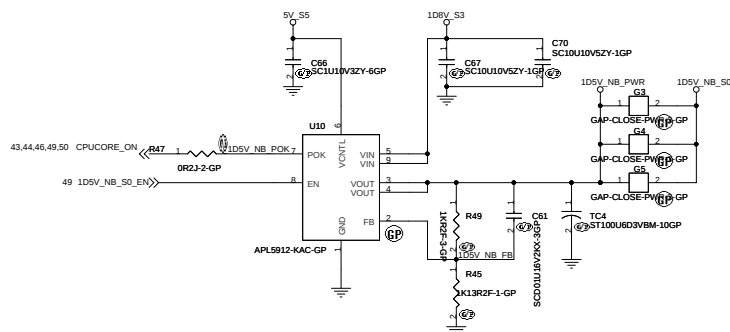
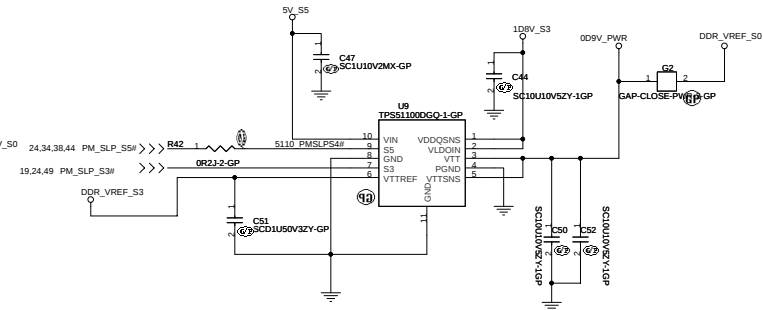
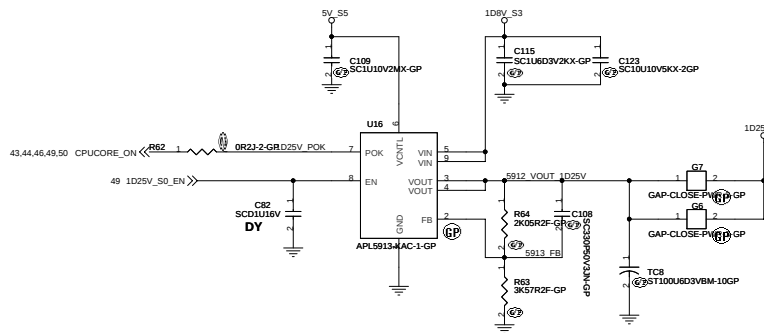
Charger_Max8725







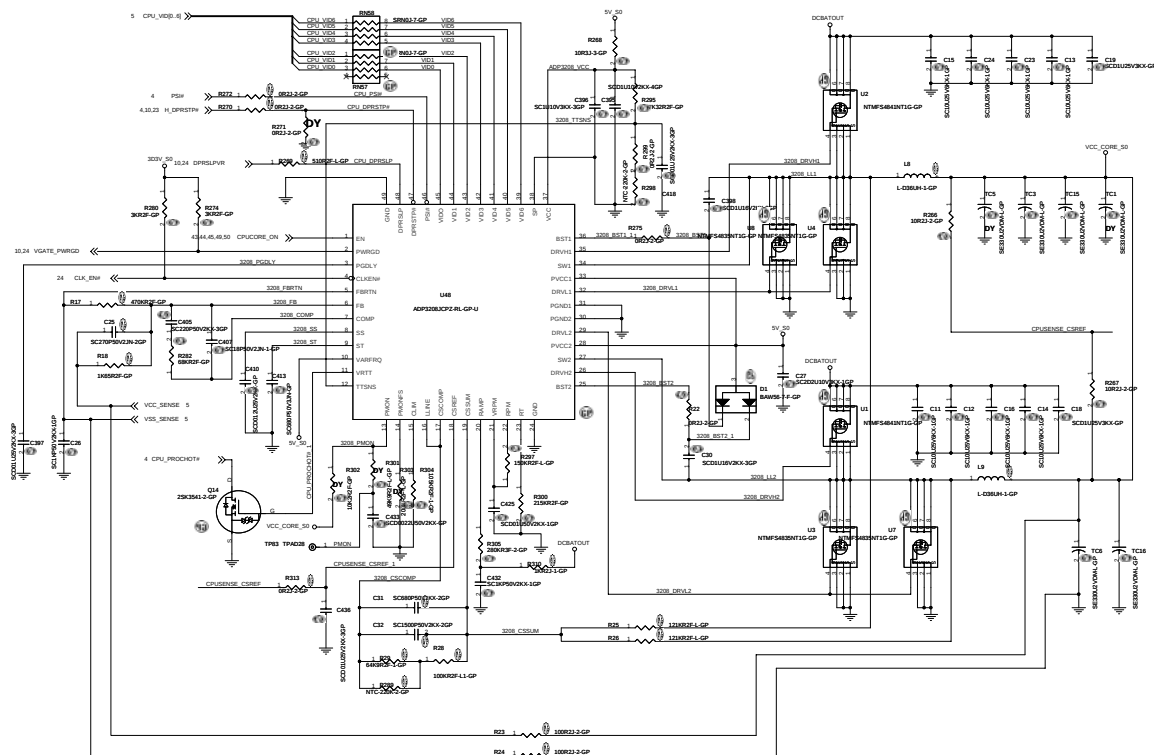
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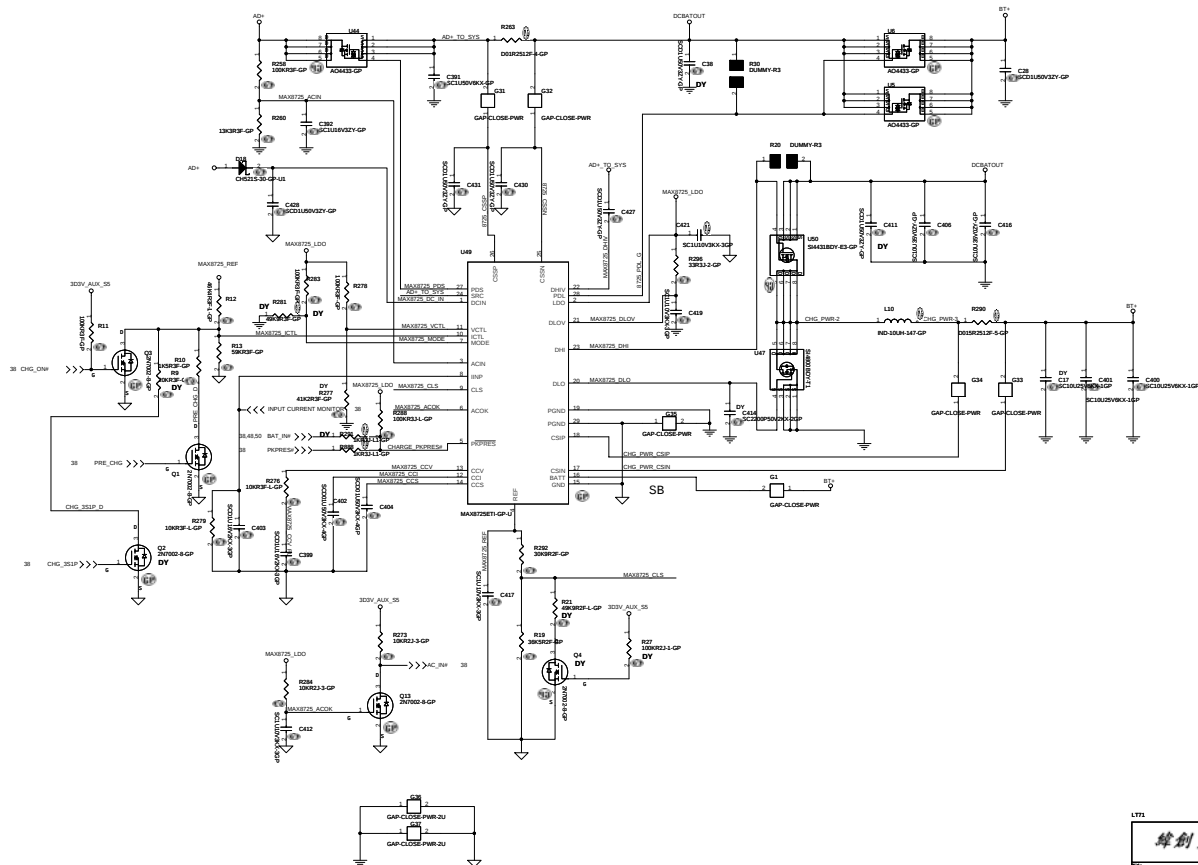
LT75

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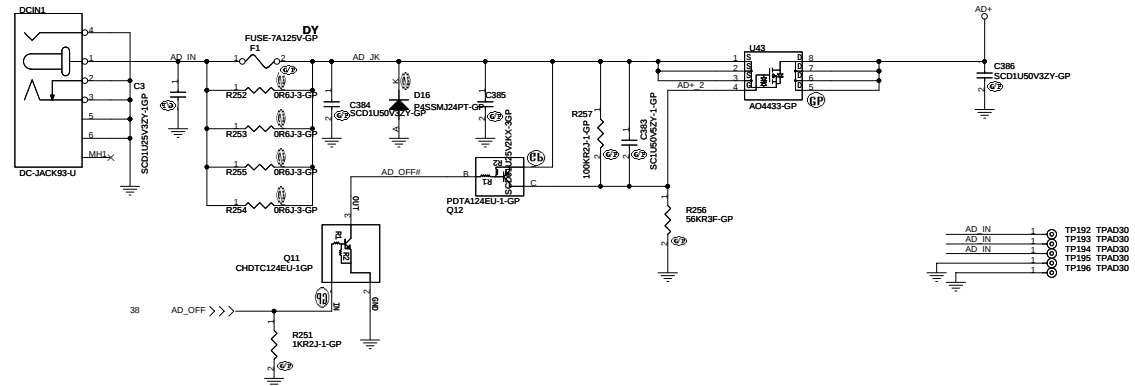
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CHARGER MAX8725

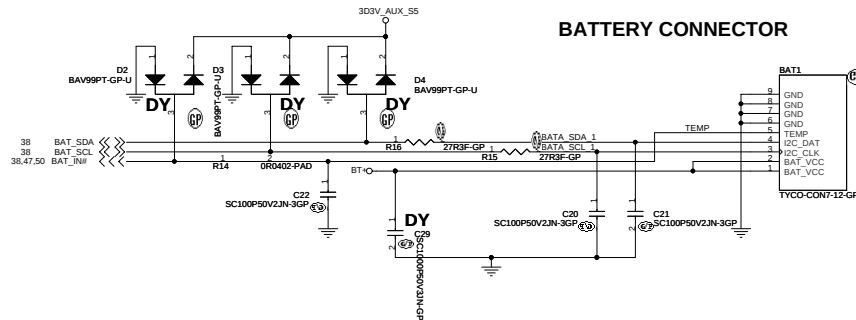
LT71

Rev. 1.0

Adaptor in to generate DCBATOUT



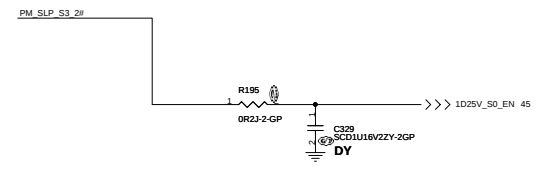
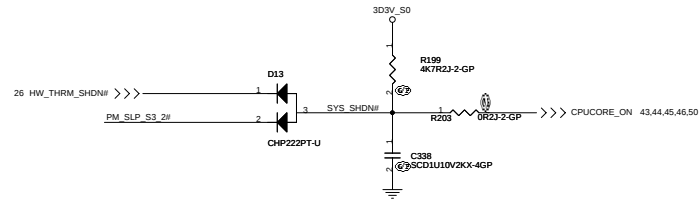
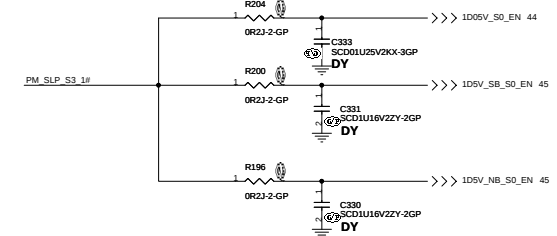
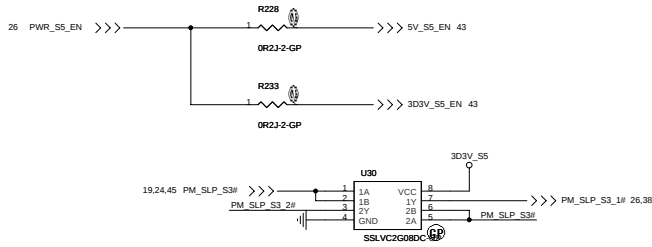
BATTERY CONNECTOR



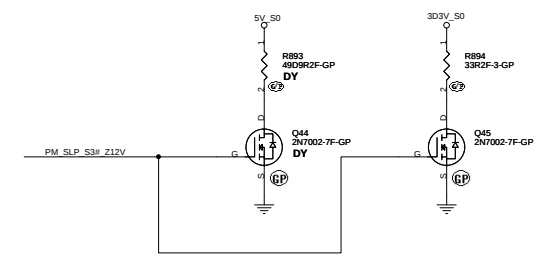
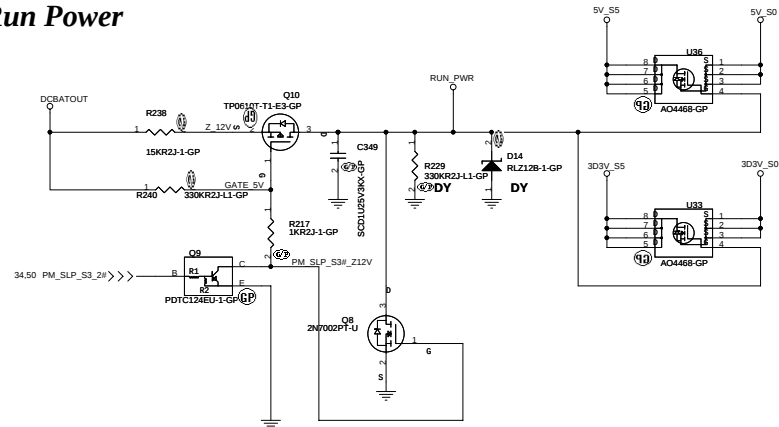
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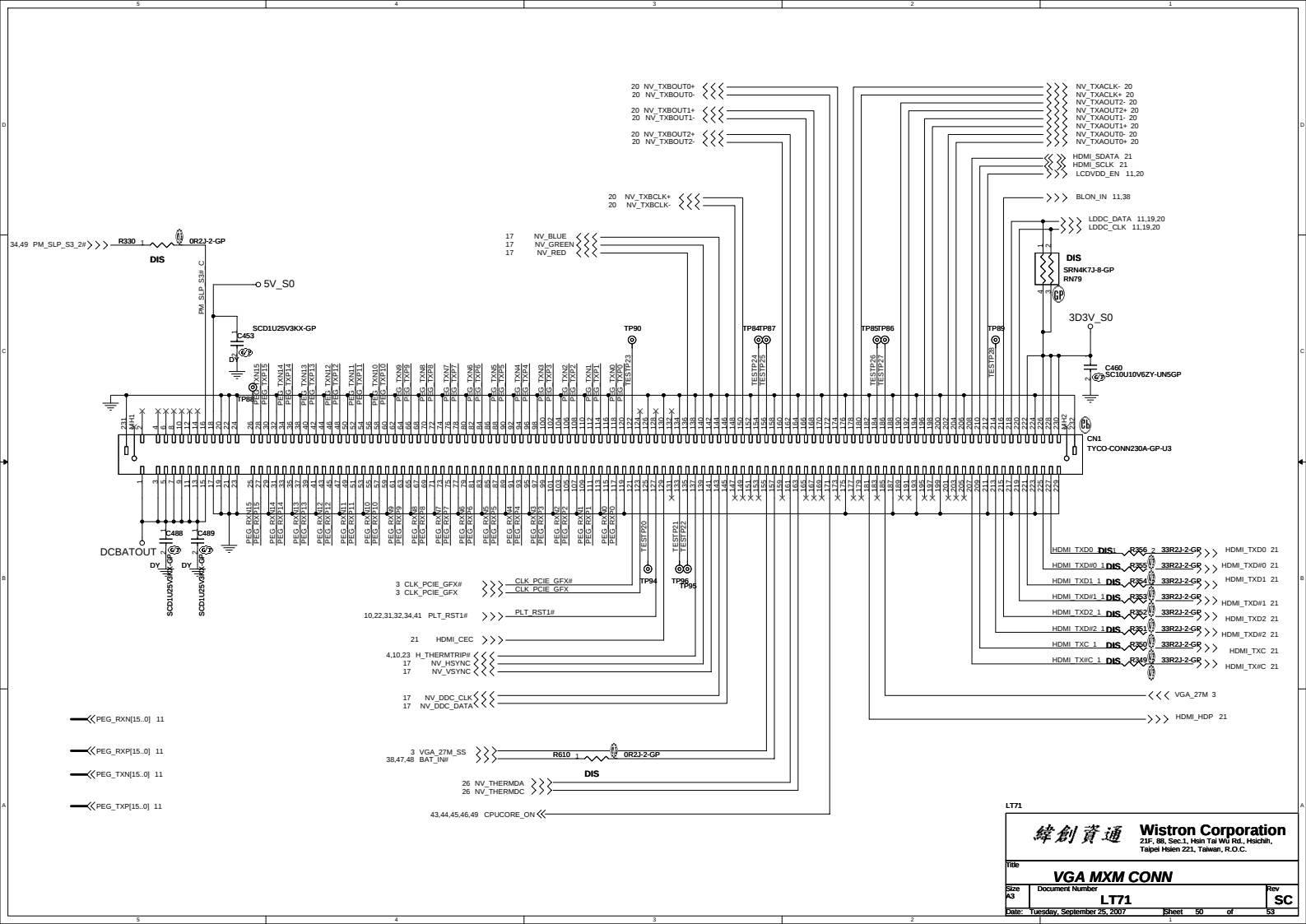
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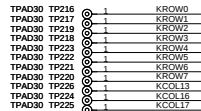
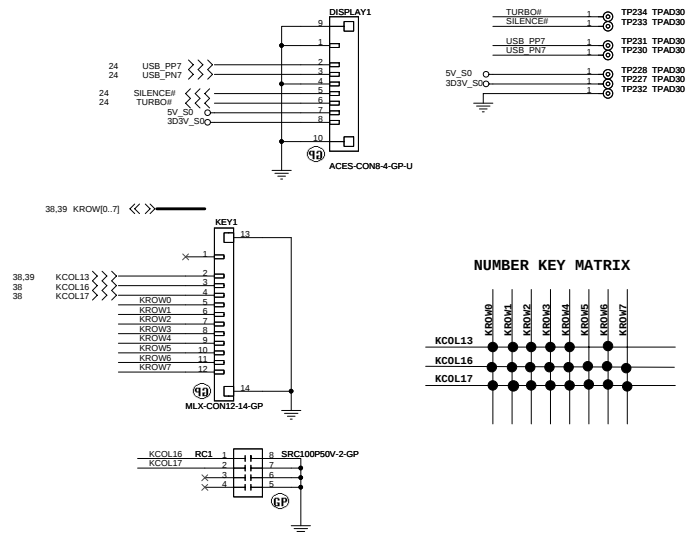
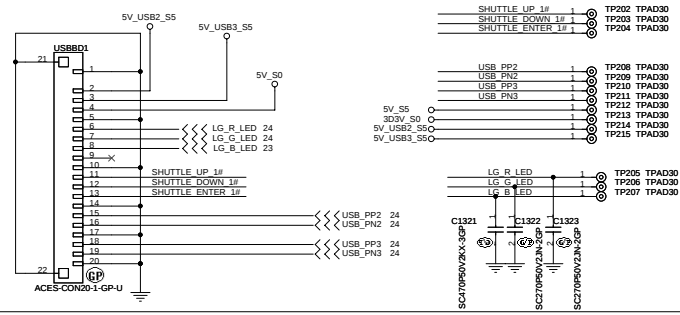


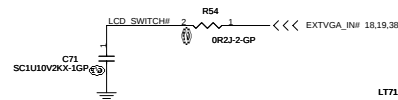
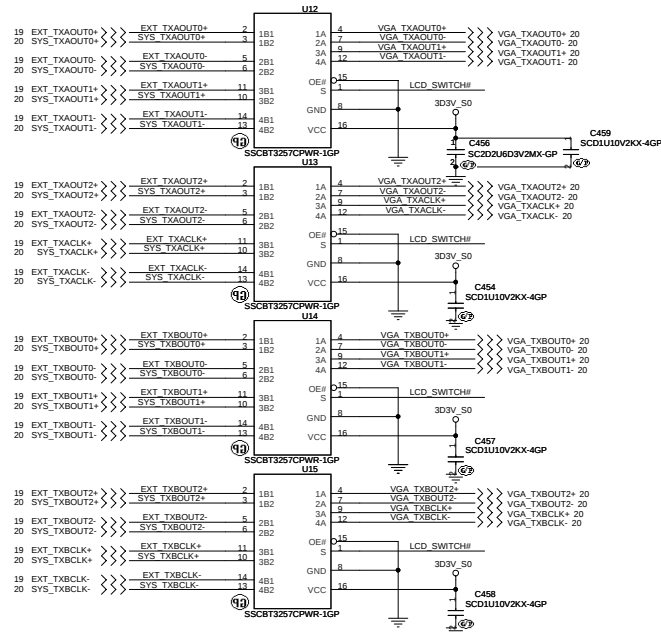
Run Power



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