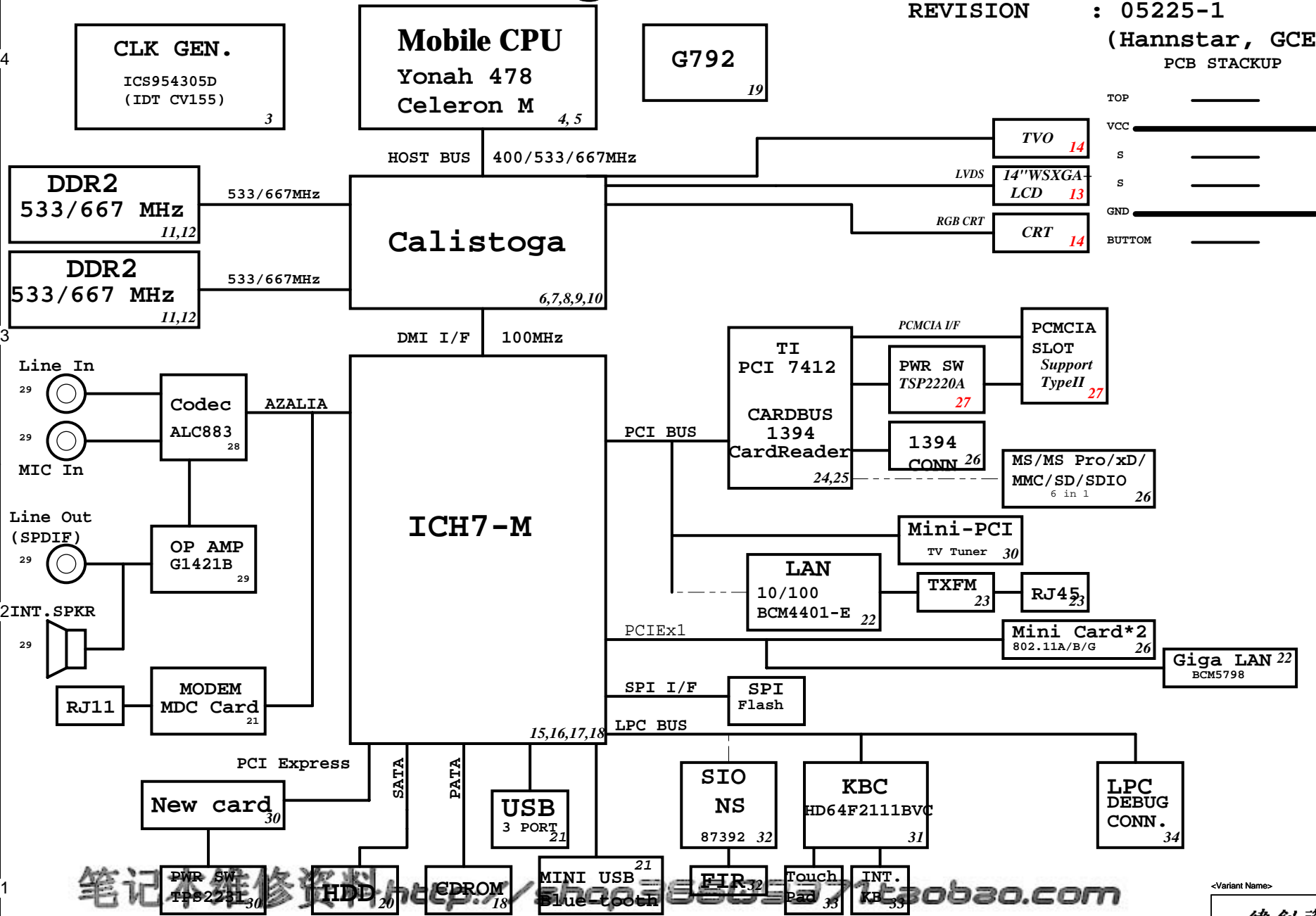


AG1 Block Diagram

Project code: 91.4A901.001
PCB P/N : 55.4A903.XXX
REVISION : 05225-1
(Hannstar, GCE)
PCB STACKUP



SYSTEM DC/DC TPS51120 <i>41</i>	
INPUTS	OUTPUTS
DCBATOUT	5V_S5
	3V_S5
SYSTEM DC/DC MAX8743EE <i>42</i>	
INPUTS	OUTPUTS
DCBATOUT	1D05V_S0
	1D8V_S3
TPS51100 <i>44</i>	
1D8V_S3	DDR_VREF
APL5332KAC <i>44</i>	
3D3V_S5	2D5V_S0
APL5912-U <i>44</i>	
3D3V_S5	1D5V_S0

MAXIM CHARGER MAX8725+Max1773 <i>43</i>	
INPUTS	OUTPUTS
DCBATOUT	BT+
	18V 4.0A
	UP+5V
	5V 100mA

CPU DC/DC ISL6262 <i>39,40</i>	
INPUTS	OUTPUTS
DCBATOUT	VCC_CORE 0~1.3V 48A

ICH7M Integrated Pull-up and Pull-down Resistors

ICH7-M EDS 17837 1.5V1

EE_DIN,EE_DOUT, GNT[3:0], GPIO[25], GNT[4]#/GPIO48, GNT[5]#/GPO17, PME#, LAD[3:0]#/FWH[3:0]#, LAN_RXD[2:0] LDRQ[0], LDRQ[1]/GPIO[41], PWRBTN#, TP[3]	ICH7 internal 20K pull-ups
DD[7], DDREQ	ICH7 internal 11.5K pull-downs
ACZ_BIT_CLK, ACZ_RST#, ACZ_SDIN[2:0], ACZ_SDOUT,ACZ_SYNC, DPRSLPVR/GPIO16, EE_CS,SPI_ARB, SPI_CLK, SPKR,	ICH7 internal 20K pull-downs
USB[7:0][P,N]	ICH7 internal 15K pull-downs
SATALED#	ICH7 internal 15K pull-up
LAN_CLK	ICH7 internal 100K pull-down

ICH7M IDE Integrated Series Termination Resistors

DD[15:0], DIOW#, DIOR#, DREQ, DDACK#, IORDY, DA[2:0], DCS1#, DCS3#, IDEIRQ	approximately 33 ohm
--	----------------------

ICH7M Functional Strap Definitions

page 16

Signal	Usage/When Sampled	Comment
ACZ_SDOUT	XOR Chain Entrance/ PCIE Port Config bit1, Rising Edge of PWROK	Allows entrance to XOR Chain testing when TP3 pulled low.When TP3 not pulled low at rising edge of PWROK,sets bit1 of RPC.PC(Config Registers: offset 224h)
ACZ_SYNC	PCIE bit0, Rising Edge of PWROK.	Sets bit0 of RPC.PC(Config Registers:Offset 224h)
EE_CS	Reserved	This signal should not be pull high.
EE_DOUT	Reserved	This signal should not be pull low.
GNT2#	Reserved	This signal should not be pull low.
GNT3#	Top-Block Swap Override. Rising Edge of PWROK.	Sampled low:Top-Block Swap mode(inverts A16 for all cycles targeting FWH BIOS space). Note: Software will not be able to clear the Top-Swap bit until the system is rebooted without GNT3# being pulled down.
GNT5#/ GPIO17#, GNT4#/ GPIO48	Boot BIOS Destination Selection. Rising Edge of PWROK.	Controllable via Boot BIOS Destination bit (Config Registers:Offset 3410h:bit 11:10). GNT5# is MSB, 01-SPI, 10-PCI, 11-LPC.
DPRSLPVR	Reserved	This signal should not be pull high.
GPIO25	Reserved. Rising Edge of RSMRST#.	This signal should not be pull low.
INTVRMEN	Integrated VccSus1_05 VRM Enable/Disable. Always sampled.	Enables integrated VccSus1_05 VRM when sampled high
LINKALERT#	Reserved	Requires an external pull-up resistor.
REQ[4:1]#/ XOR Chain Selection. Rising Edge of PWROK.	Reserved	Reserved
SATALED#	Reserved	This signal should not be pull low.
SPKR	No Reboot. Rising Edge of PWROK.	If sampled high, the system is strapped to the "No Reboot" mode(ICH7 will disable the TCO Timer system reboot feature). The status is readable via the NO_REBOOT bit.
TP3	XOR Chain Entrance. Rising Edge of PWROK.	This signal should not be pull low unless using XOR Chain testing.

954305D 27Mhz/LCDCLK Spread and Frequency Selection Table

SS3 Byte9 bit 7	SS2 bit6	SS1 bit5	SS0 bit4	Spread Amount%
0	0	0	0	-0.50 Down
0	0	0	1	-1.00 Down
0	0	1	0	-1.50 Down
0	0	1	1	-2.00 Down
0	1	0	0	-0.75 Down
0	1	0	1	-1.25 Down
0	1	1	0	-1.75 Down
0	1	1	1	-2.25 Down
1	0	0	0	+ -0.25 Center
1	0	0	1	+ -0.5 Center
1	0	1	0	+ -0.75 Center
1	0	1	1	+ -1.0 Center
1	1	0	0	+ -0.25 Center
1	1	0	1	+ -0.5 Center
1	1	1	0	+ -0.75 Center
1	1	1	1	+ -1.0 Center

page 3

PCI Routing

page 16

	IDSEL	INT -> PIRQ	REQ/GNT
7412	22	A->G, B->B, C->F, D->G,	0
MiniPCI	21	A/C B/D -> E	1
LAN	23	A -> H	2
1410	25	A->G, B->B,	0

History

6/6 drawing SA
7/11 Rename for placement

Calistoga Strapping Signals and Configuration

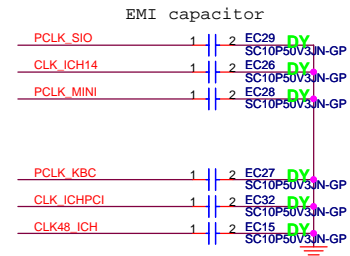
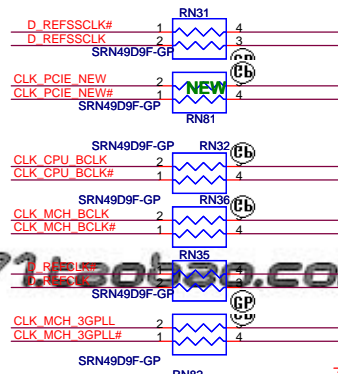
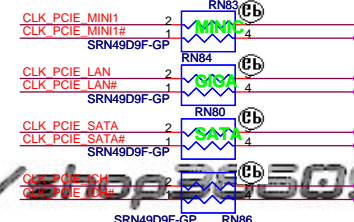
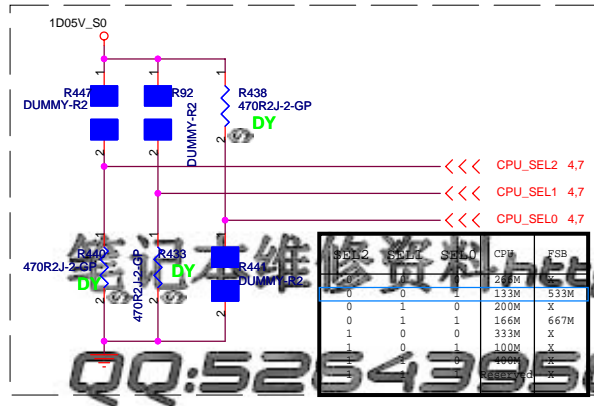
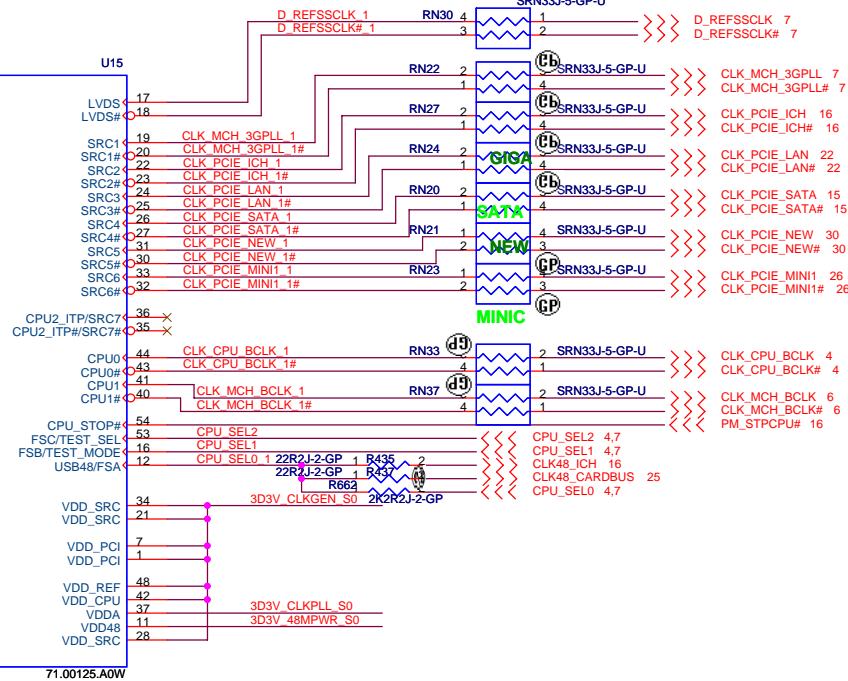
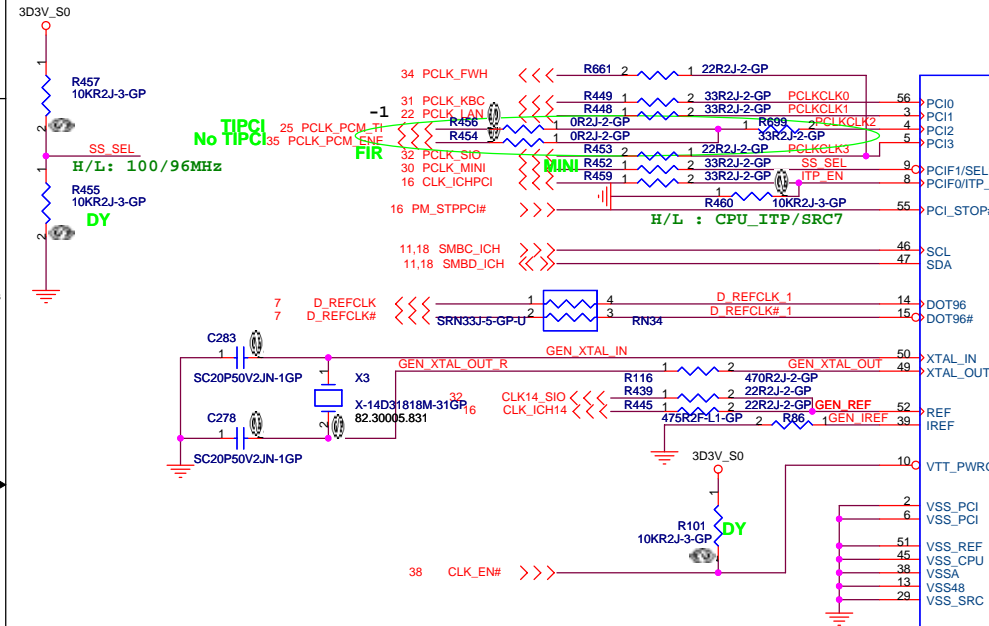
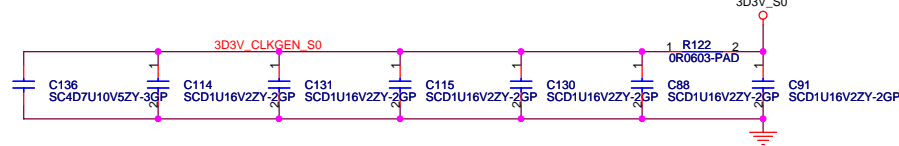
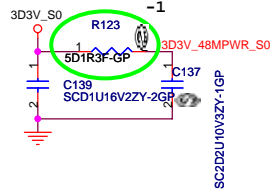
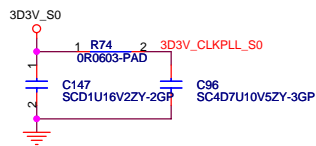
EDS 17050 0.71 page 7

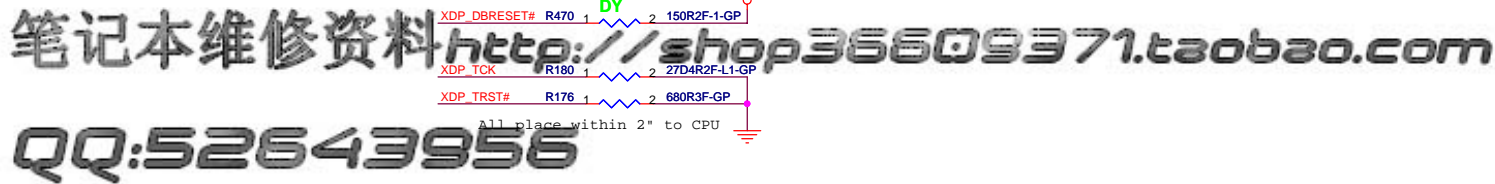
Pin Name	Strap Description	Configuration
CFG[2:0]	FSB Frequency Select	001 = FSB533 011 = FSB667 others = Reserved
CFG[4:3]	Reserved	
CFG5	DMI x2 Select	0 = DMI x2 1 = DMI x4 (Default)
CFG6	Reserved	
CFG7	CPU Strap	0 = Reserved 1 =Mobile CPU(Default)
CFG8	Reserved	
CFG9	PCI Express Graphics Lane Reversal	0 = Reverse Lanes,15->0,14->1 ect.. 1= Normal operation(Default):Lane Numbered in order
CFG[11:10]	Reserved	
CFG[13:12]	XOR/ALL Z test straps	00 = Reserved 01 = XOR mode enabled 10 = All Z mode enabled 11 = Normal Operation (Default)
CFG[15:14]	Reserved	Reserved
CFG16	FSB Dynamic ODT	0 = Dynamic ODT Disabled 1 = Dynamic ODT Enabled (Default)
CFG17	Global R-comp Disable (All R-comps)	0 = All R-comp Disable 1 = Normal Operation (Default)
CFG18	VCC Select	0 = 1.05V (Default) 1 = 1.5V
CFG19	DMI Lane Reversal	0 = Normal operation (Default):lane Numbered in order 1 =Reverse Lane,4->0,3->1 ect...
CFG20	SDVO/PCIE Concurrent	0 = Only SDVO or PCIE x1 is operational (Default) 1 =SDVO and PCIE x1 are operating simultaneously via the PEG port
SDVOCRTL _DATA	SDVO Present	0 = No SDVO Card present (Default) 1= SDVO Card present

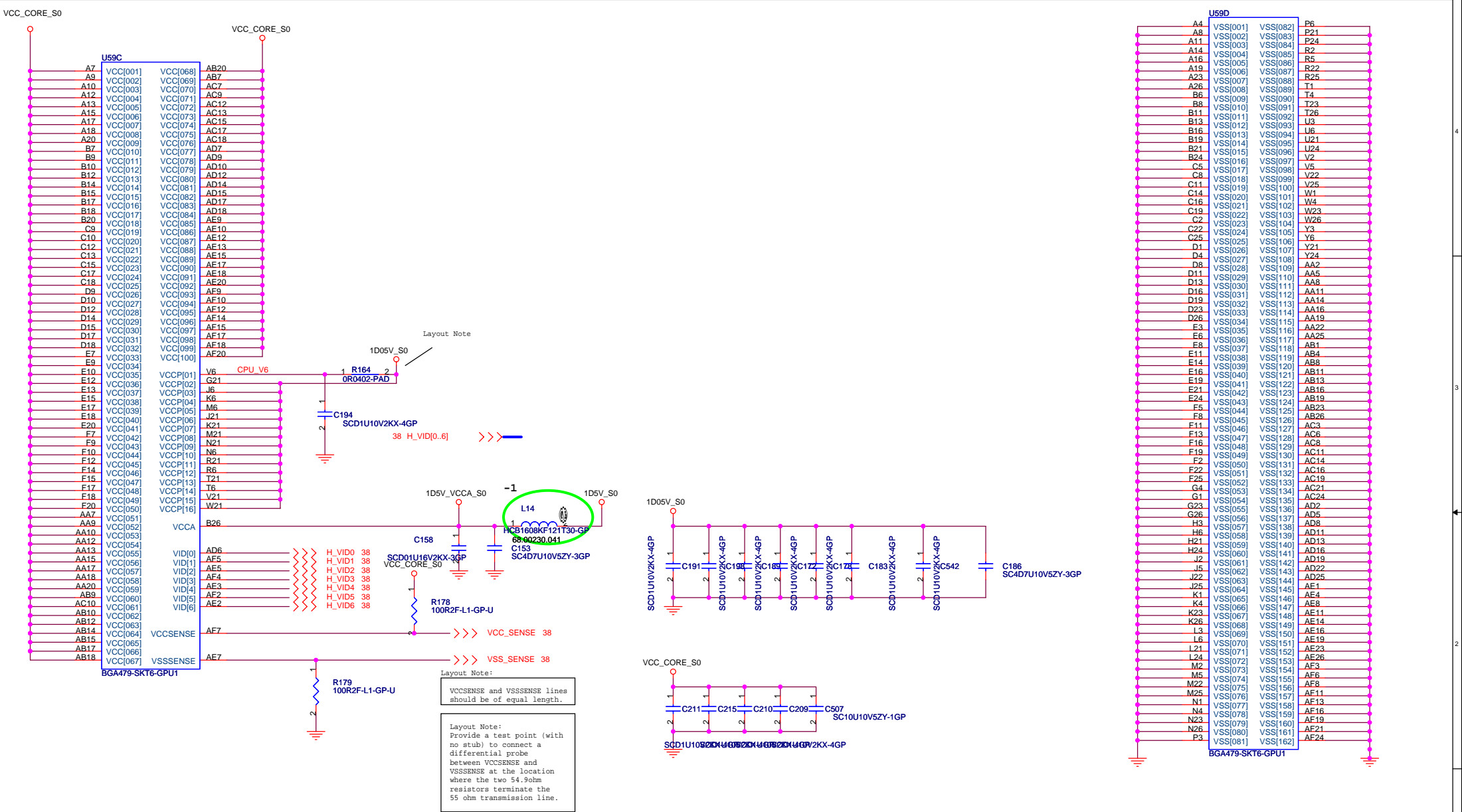
NOTE: All strap signals are sampled with respect to the leading edge of the Calistoga GMCH PWORK in signal.

<Variant Name>

緯創資通 Wistron Corporation		
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.		
Title		
Reference		
Size A3	Document Number AG1	Rev -1
Date: Monday, January 09, 2006 Sheet 2 of 45		



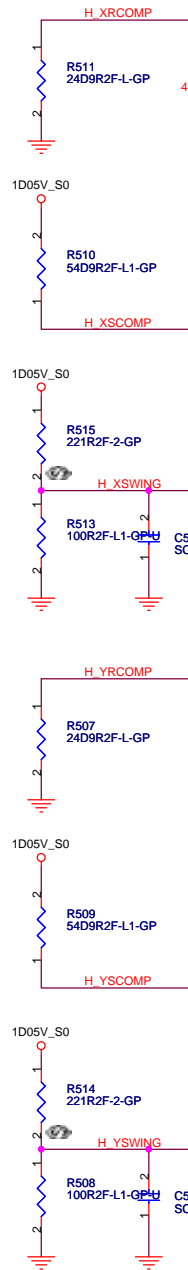




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QQ:52643956

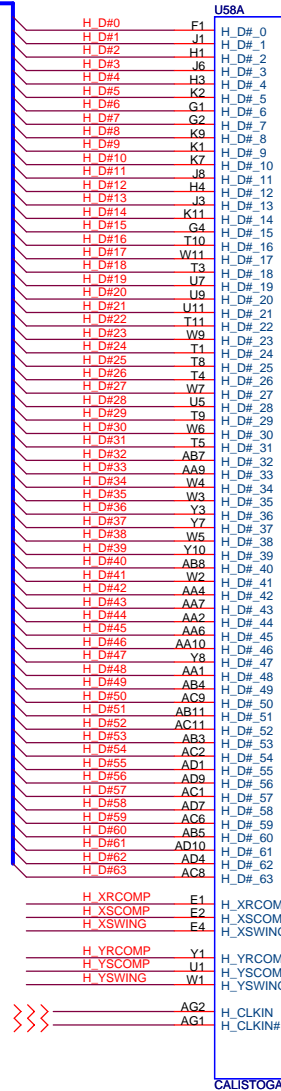
U59D		
A4	VSS[001]	P6
A8	VSS[002]	P21
A11	VSS[003]	P24
A14	VSS[004]	R2
A16	VSS[005]	R5
A19	VSS[006]	R22
A23	VSS[007]	R25
A26	VSS[008]	T1
B6	VSS[008]	T4
B8	VSS[009]	T23
B11	VSS[010]	T26
B13	VSS[012]	U3
B16	VSS[013]	U6
B19	VSS[014]	U21
B21	VSS[015]	U24
B24	VSS[016]	V2
C5	VSS[017]	V5
C8	VSS[018]	V22
C11	VSS[019]	V25
C14	VSS[020]	W1
C16	VSS[021]	W4
C19	VSS[022]	W23
C22	VSS[023]	W26
C25	VSS[024]	Y3
D1	VSS[025]	Y6
D4	VSS[026]	Y21
D8	VSS[027]	Y24
D11	VSS[028]	Y25
D13	VSS[029]	Y26
D16	VSS[030]	Y27
D19	VSS[031]	Y28
D23	VSS[032]	Y29
D26	VSS[033]	Y30
E3	VSS[034]	Y31
E6	VSS[035]	Y32
E8	VSS[036]	Y33
E11	VSS[037]	Y34
E14	VSS[038]	Y35
E16	VSS[039]	Y36
E19	VSS[040]	Y37
E21	VSS[041]	Y38
E24	VSS[042]	Y39
F5	VSS[043]	Y40
F8	VSS[044]	Y41
F11	VSS[045]	Y42
F14	VSS[046]	Y43
F16	VSS[047]	Y44
F19	VSS[048]	Y45
F22	VSS[049]	Y46
F25	VSS[050]	Y47
G4	VSS[051]	Y48
G11	VSS[052]	Y49
G23	VSS[053]	Y50
G26	VSS[054]	Y51
H3	VSS[055]	Y52
H6	VSS[056]	Y53
H21	VSS[057]	Y54
H24	VSS[058]	Y55
J2	VSS[059]	Y56
J5	VSS[060]	Y57
J22	VSS[061]	Y58
J25	VSS[062]	Y59
K1	VSS[063]	Y60
K4	VSS[064]	Y61
K23	VSS[065]	Y62
K26	VSS[066]	Y63
L3	VSS[067]	Y64
L6	VSS[068]	Y65
L21	VSS[069]	Y66
L24	VSS[070]	Y67
M2	VSS[071]	Y68
M5	VSS[072]	Y69
M22	VSS[073]	Y70
M25	VSS[074]	Y71
N1	VSS[075]	Y72
N4	VSS[076]	Y73
N23	VSS[077]	Y74
N26	VSS[078]	Y75
P3	VSS[079]	Y76
	VSS[080]	Y77
	VSS[081]	Y78
	VSS[082]	Y79
	VSS[083]	Y80
	VSS[084]	Y81
	VSS[085]	Y82
	VSS[086]	Y83
	VSS[087]	Y84
	VSS[088]	Y85
	VSS[089]	Y86
	VSS[090]	Y87
	VSS[091]	Y88
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	VSS[093]	Y90
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	VSS[095]	Y92
	VSS[096]	Y93
	VSS[097]	Y94
	VSS[098]	Y95
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	VSS[123]	Y120
	VSS[124]	Y121
	VSS[125]	Y122
	VSS[126]	Y123
	VSS[127]	Y124
	VSS[128]	Y125
	VSS[129]	Y126
	VSS[130]	Y127
	VSS[131]	Y128
	VSS[132]	Y129
	VSS[133]	Y130
	VSS[134]	Y131
	VSS[135]	Y132
	VSS[136]	Y133
	VSS[137]	Y134
	VSS[138]	Y135
	VSS[139]	Y136
	VSS[140]	Y137
	VSS[141]	Y138
	VSS[142]	Y139
	VSS[143]	Y140
	VSS[144]	Y141
	VSS[145]	Y142
	VSS[146]	Y143
	VSS[147]	Y144
	VSS[148]	Y145
	VSS[149]	Y146
	VSS[150]	Y147
	VSS[151]	Y148
	VSS[152]	Y149
	VSS[153]	Y150
	VSS[154]	Y151
	VSS[155]	Y152
	VSS[156]	Y153
	VSS[157]	Y154
	VSS[158]	Y155
	VSS[159]	Y156
	VSS[160]	Y157
	VSS[161]	Y158
	VSS[162]	Y159

Title		
CPU (2 of 2)		
Size	Document Number	Rev
A3	AG1	-1
Date:	Wednesday, January 18, 2006	Sheet 5 of 45

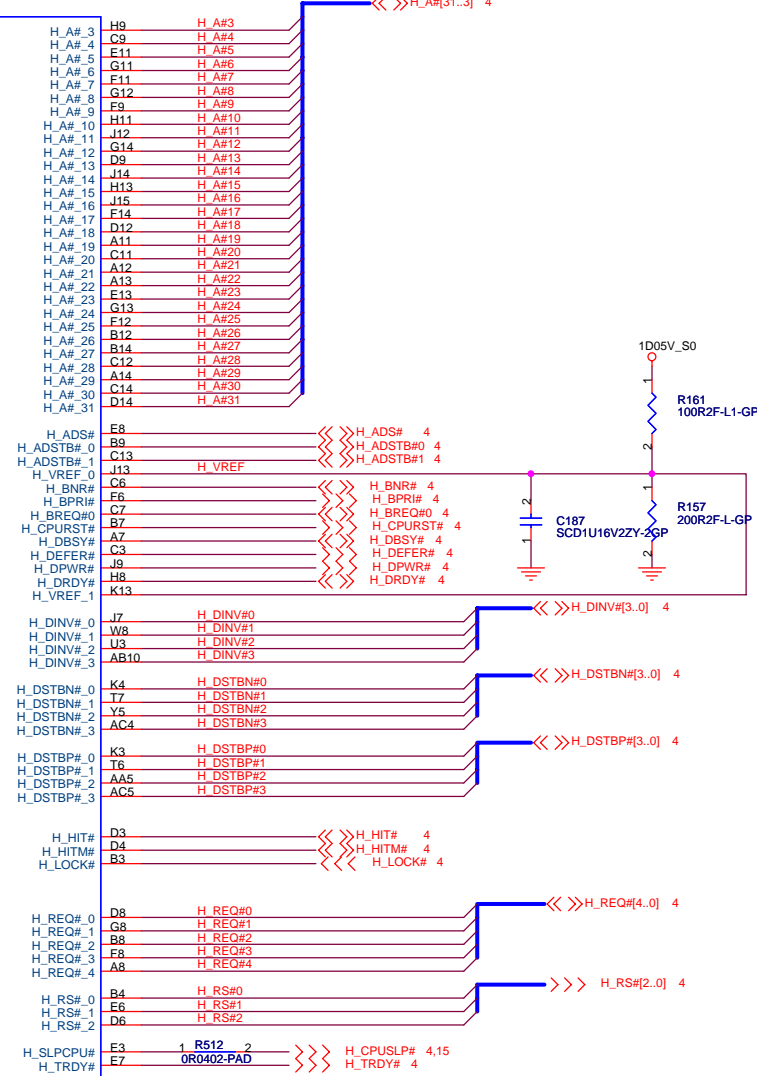


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3 CLK_MCH_BCLK
3 CLK_MCH_BCLK#

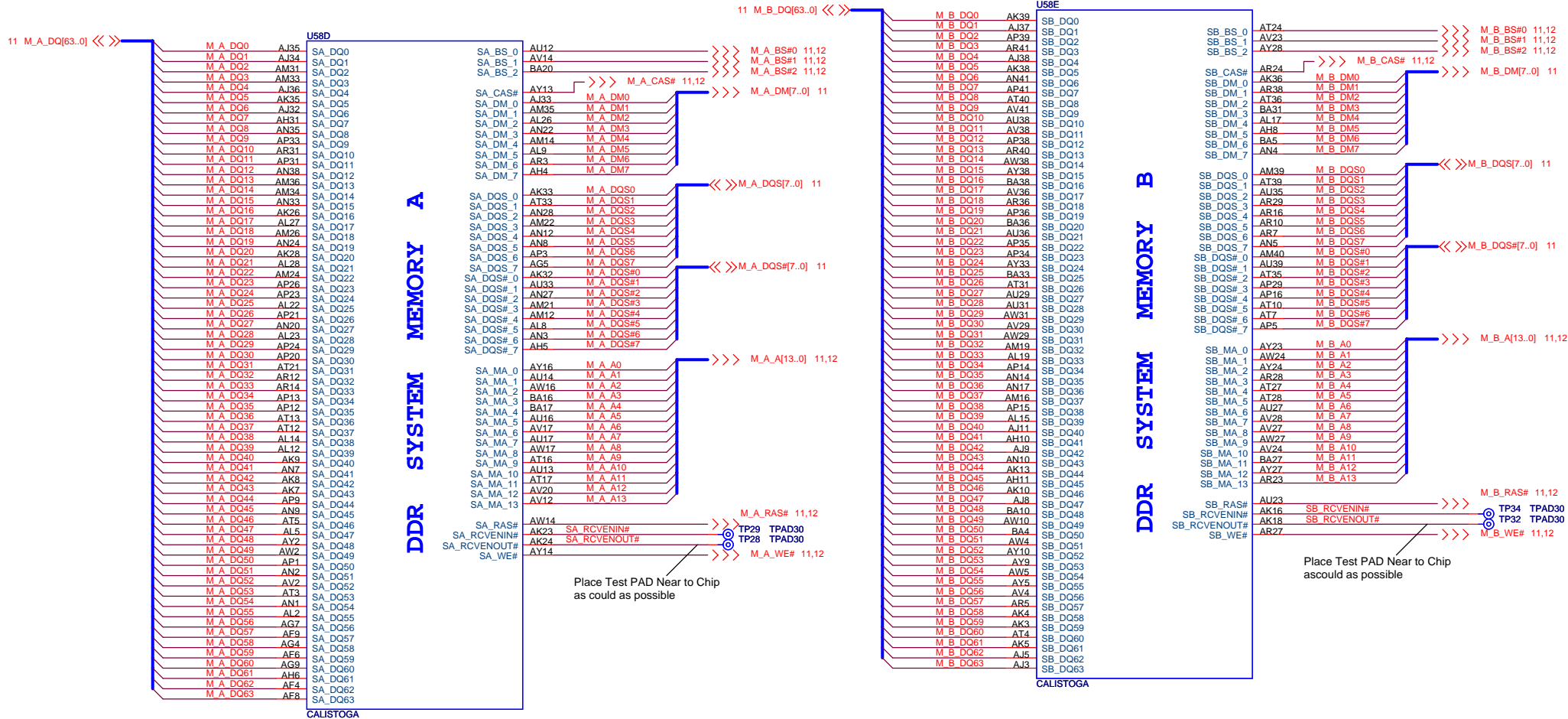


HOST



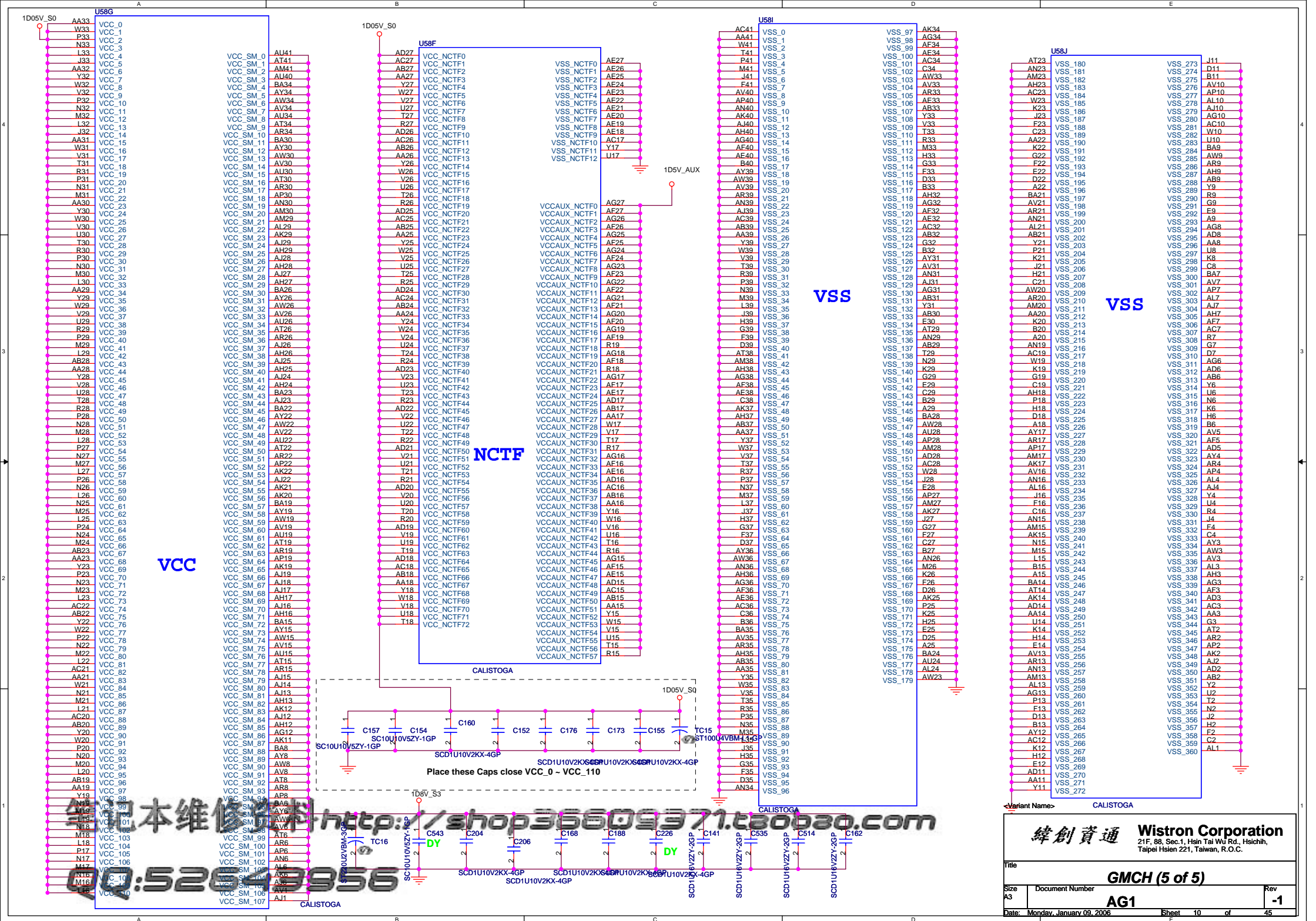
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QQ:52643956

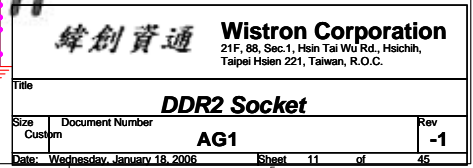




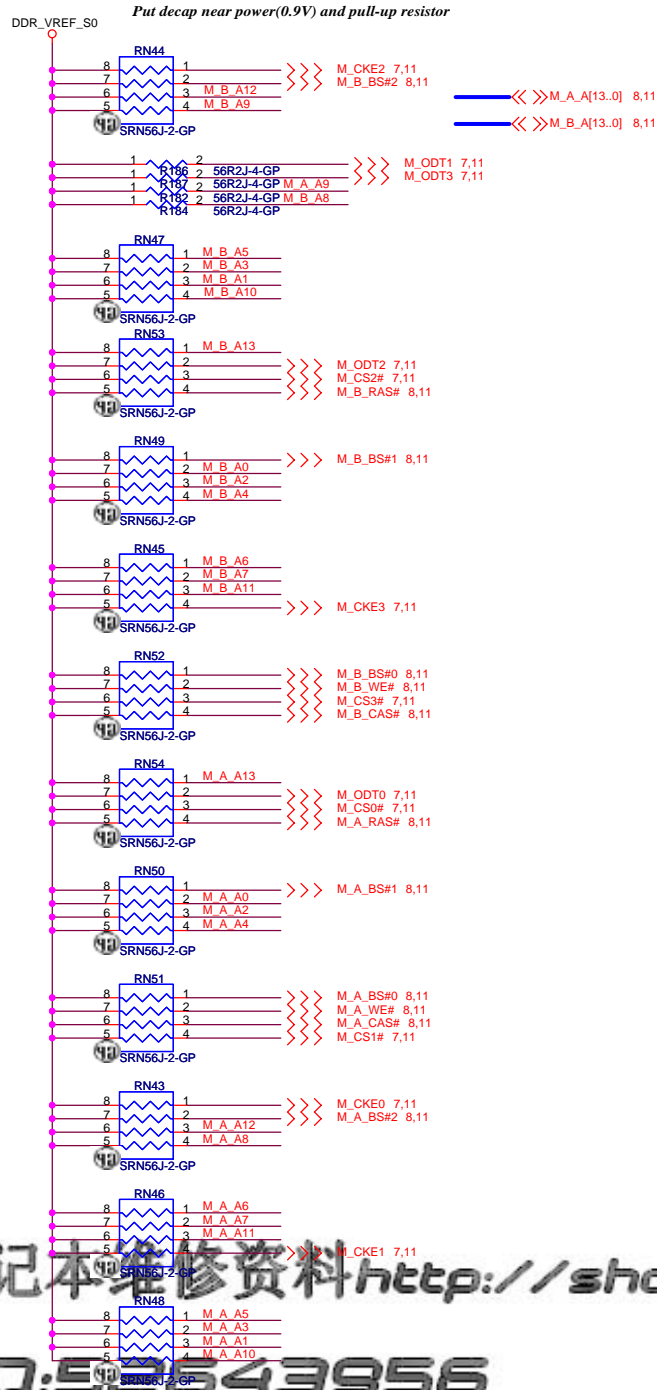
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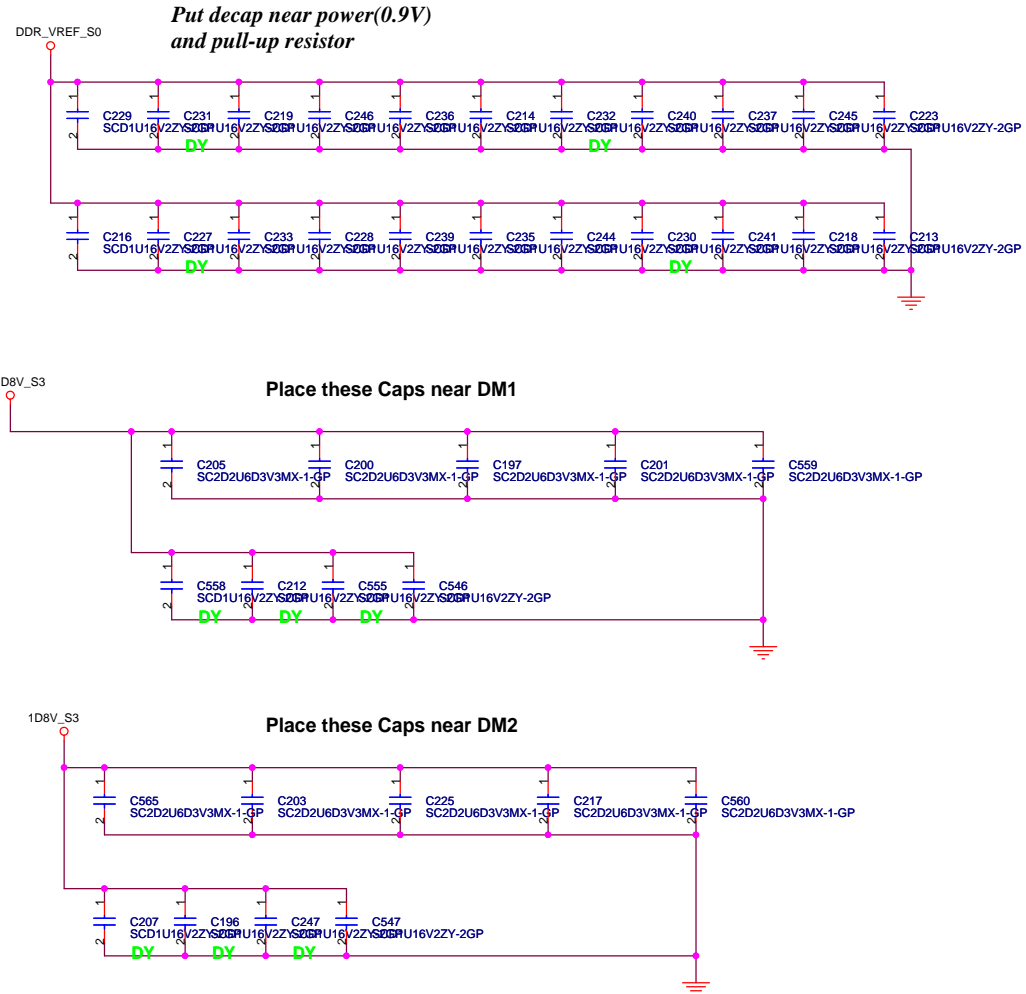




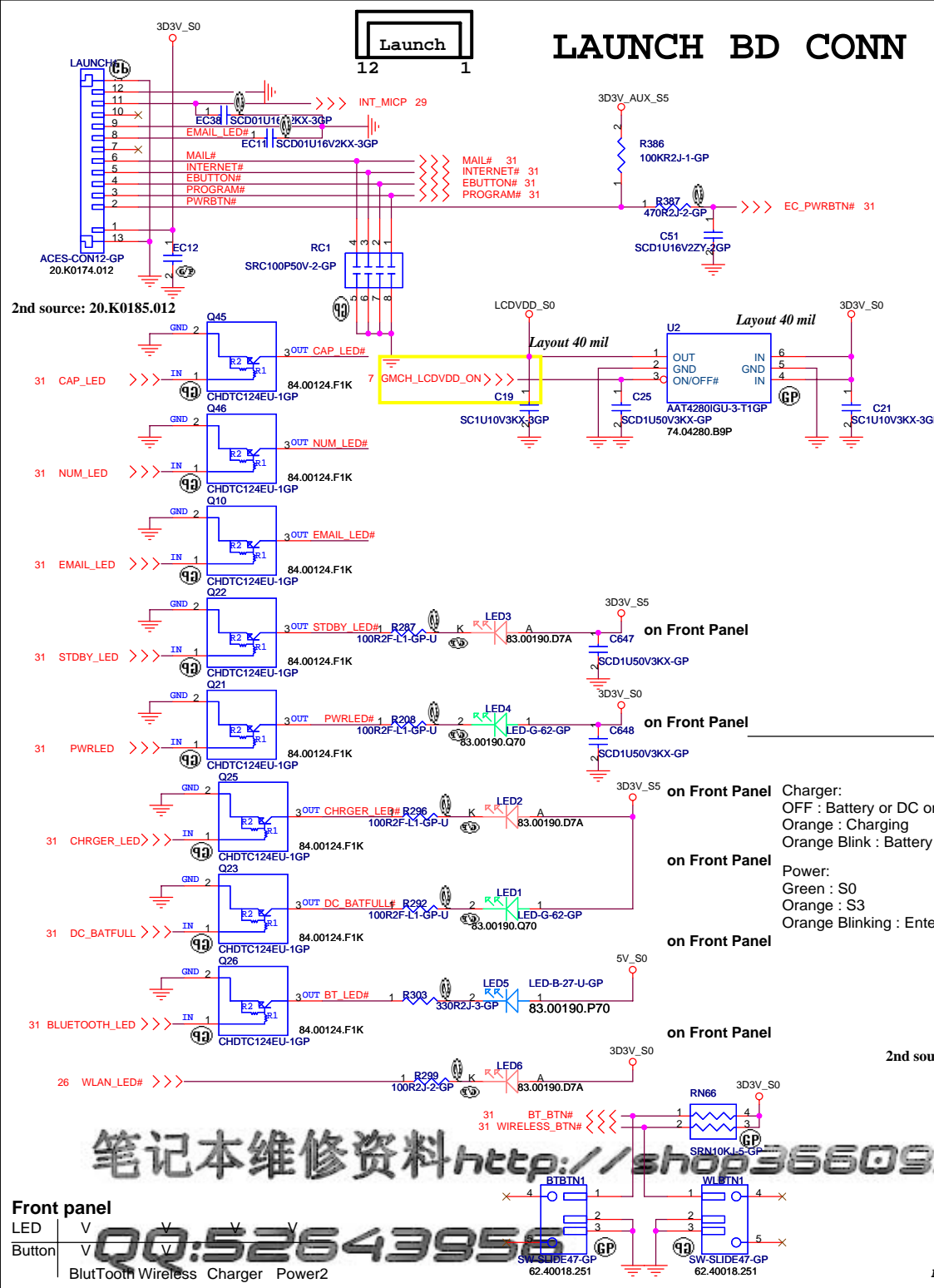
PARALLEL TERMINATION



Decoupling Capacitor



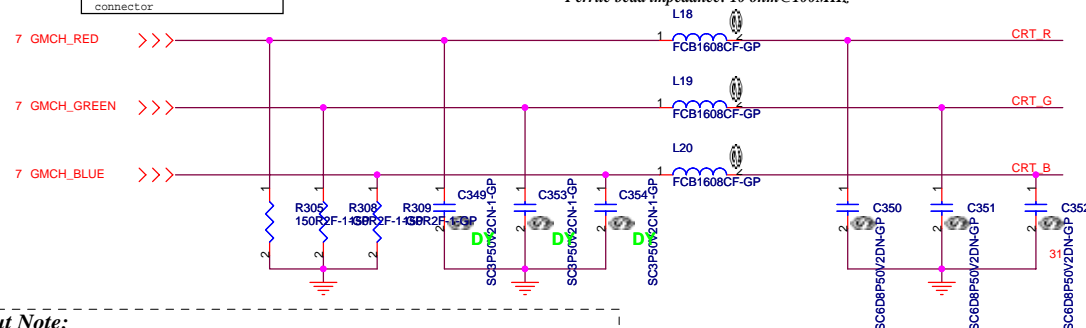
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QQ:52643956



CRT I/F & CONNECTOR

Layout Note:
Place these resistors
close to the CRT-out
connector

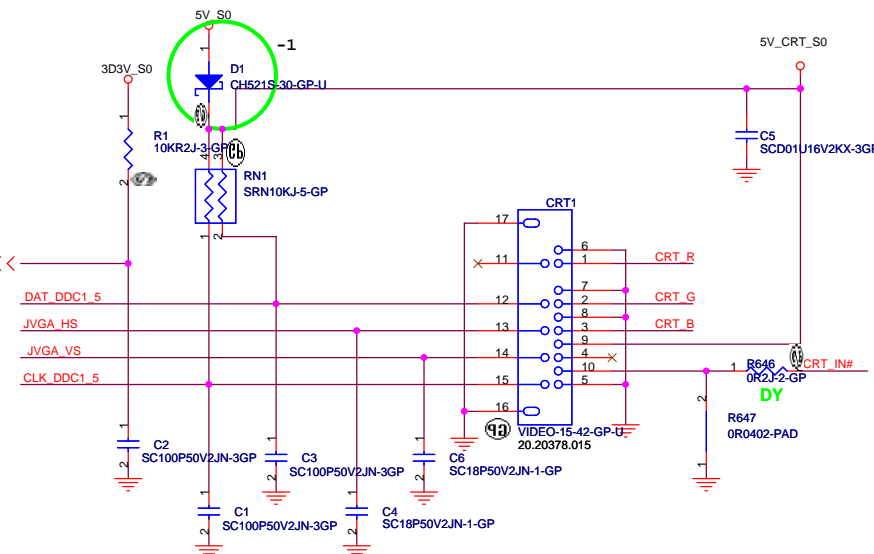
Ferrite bead impedance: 10 ohm@100MHz



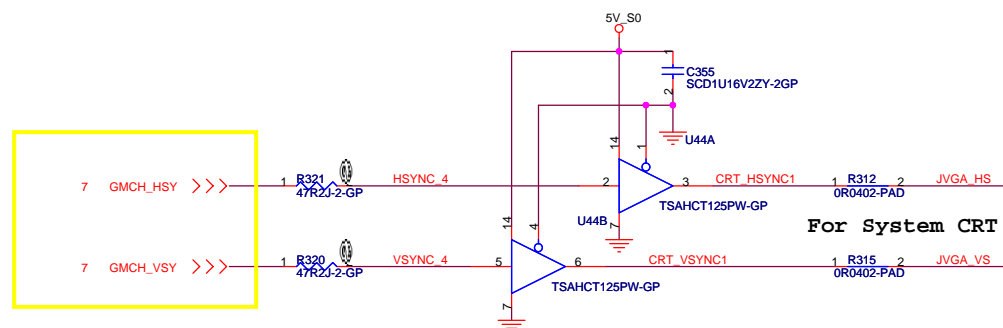
Layout Note:

** Must be a ground return path between this ground and the ground on the VGA connector.*

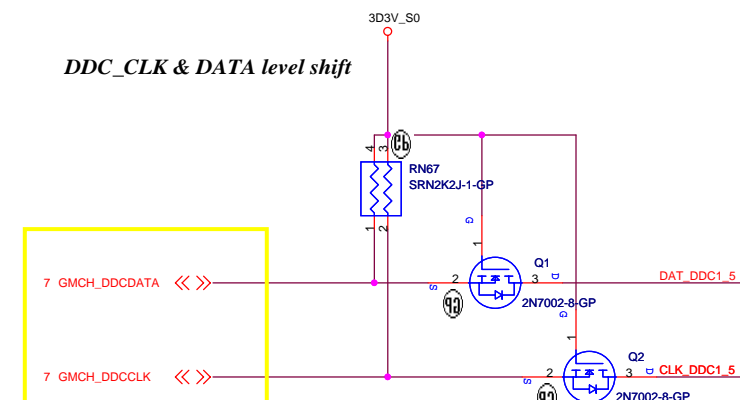
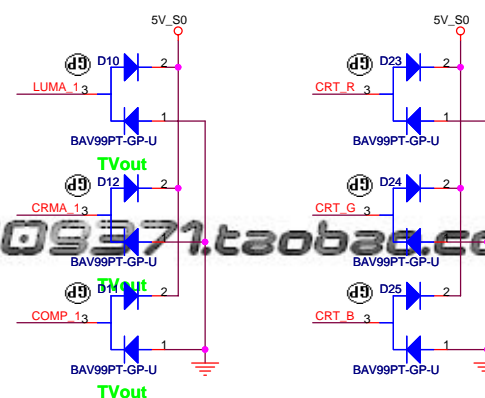
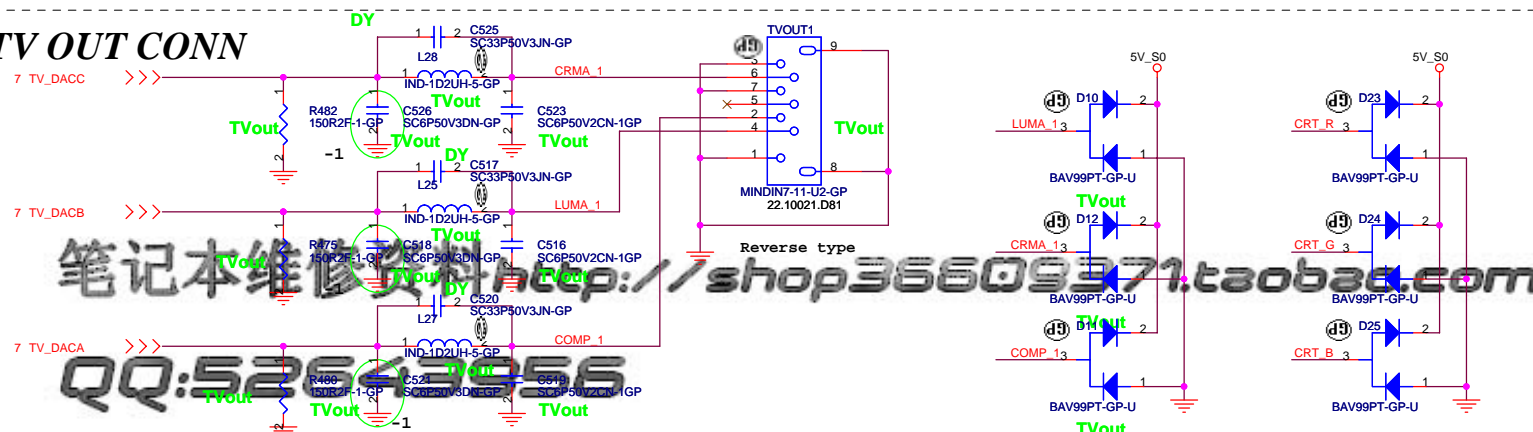
Pi-filter & 150 Ohm pull-down resistors should be as close as to CRT CONN. RGB will hit 75 Ohm first, pi-filter, then CRT CONN.



Hsync & Vsync level shift



DDC_CLK & DATA level shift

**TV OUT CONN**

<Variant Name:

緯創資通

Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title

CRT/TV Connector

Size

Document Number	
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AG1

Rev

-1

Date: Friday, February 24, 2006

Sheet 14

4

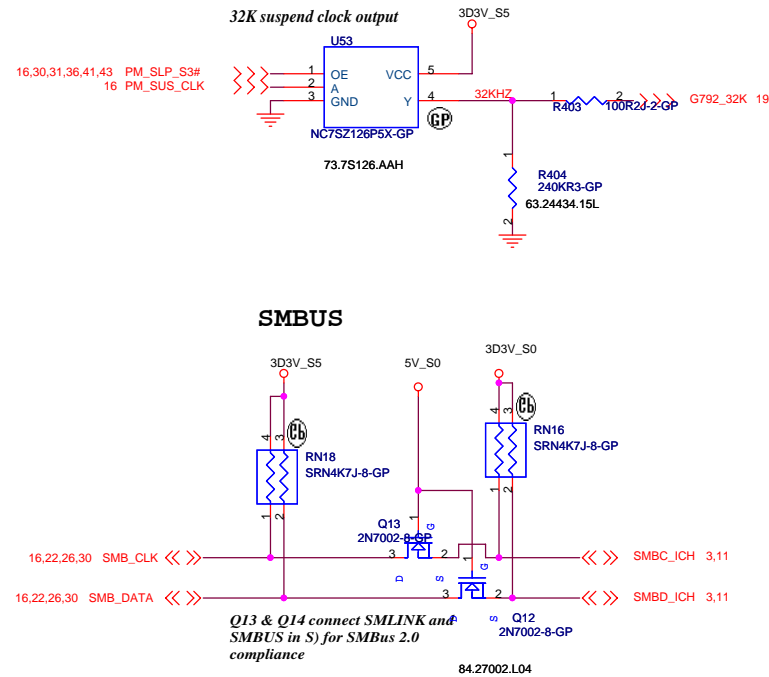




U12E		
A4	VSS[1]	VSS[98]
A23	VSS[2]	VSS[99]
B1	VSS[3]	VSS[100]
B8	VSS[4]	VSS[101]
B11	VSS[5]	VSS[102]
B14	VSS[6]	VSS[103]
B17	VSS[7]	VSS[104]
B20	VSS[8]	VSS[105]
B26	VSS[9]	VSS[106]
B28	VSS[10]	VSS[107]
C2	VSS[11]	VSS[108]
C6	VSS[12]	VSS[109]
C27	VSS[13]	VSS[110]
D10	VSS[14]	VSS[111]
D13	VSS[15]	VSS[112]
D18	VSS[16]	VSS[113]
D21	VSS[17]	VSS[114]
D24	VSS[18]	VSS[115]
E1	VSS[19]	VSS[116]
E2	VSS[20]	VSS[117]
E4	VSS[21]	VSS[118]
E8	VSS[22]	VSS[119]
E15	VSS[23]	VSS[120]
F3	VSS[24]	VSS[121]
F4	VSS[25]	VSS[122]
F5	VSS[26]	VSS[123]
F12	VSS[27]	VSS[124]
F27	VSS[28]	VSS[125]
F28	VSS[29]	VSS[126]
G1	VSS[30]	VSS[127]
G2	VSS[31]	VSS[128]
G5	VSS[32]	VSS[129]
G6	VSS[33]	VSS[130]
G9	VSS[34]	VSS[131]
G14	VSS[35]	VSS[132]
G18	VSS[36]	VSS[133]
G21	VSS[37]	VSS[134]
G24	VSS[38]	VSS[135]
G25	VSS[39]	VSS[136]
G26	VSS[40]	VSS[137]
H3	VSS[41]	VSS[138]
H4	VSS[42]	VSS[139]
H5	VSS[43]	VSS[140]
H24	VSS[44]	VSS[141]
H27	VSS[45]	VSS[142]
H28	VSS[46]	VSS[143]
J1	VSS[47]	VSS[144]
J2	VSS[48]	VSS[145]
J5	VSS[49]	VSS[146]
J24	VSS[50]	VSS[147]
J25	VSS[51]	VSS[148]
J26	VSS[52]	VSS[149]
K24	VSS[53]	VSS[150]
K27	VSS[54]	VSS[151]
K28	VSS[55]	VSS[152]
L13	VSS[56]	VSS[153]
L15	VSS[57]	VSS[154]
L24	VSS[58]	VSS[155]
L25	VSS[59]	VSS[156]
L26	VSS[60]	VSS[157]
M3	VSS[61]	VSS[158]
M4	VSS[62]	VSS[159]
M5	VSS[63]	VSS[160]
M12	VSS[64]	VSS[161]
M13	VSS[65]	VSS[162]
M14	VSS[66]	VSS[163]
M15	VSS[67]	VSS[164]
M16	VSS[68]	VSS[165]
M17	VSS[69]	VSS[166]
M24	VSS[70]	VSS[167]
M27	VSS[71]	VSS[168]
M28	VSS[72]	VSS[169]
N1	VSS[73]	VSS[170]
N2	VSS[74]	VSS[171]
N5	VSS[75]	VSS[172]
N6	VSS[76]	VSS[173]
N11	VSS[77]	VSS[174]
N12	VSS[78]	VSS[175]
N13	VSS[79]	VSS[176]
N14	VSS[80]	VSS[177]
N15	VSS[81]	VSS[178]
N16	VSS[82]	VSS[179]
N17	VSS[83]	VSS[180]
N18	VSS[84]	VSS[181]
N24	VSS[85]	VSS[182]
N25	VSS[86]	VSS[183]
N26	VSS[87]	VSS[184]
P3	VSS[88]	VSS[185]
P4	VSS[89]	VSS[186]
P12	VSS[90]	VSS[187]
P13	VSS[91]	VSS[188]
P14	VSS[92]	VSS[189]
P15	VSS[93]	VSS[190]
P16	VSS[94]	VSS[191]
P17	VSS[95]	VSS[192]
P24	VSS[96]	VSS[193]
P27	VSS[97]	VSS[194]

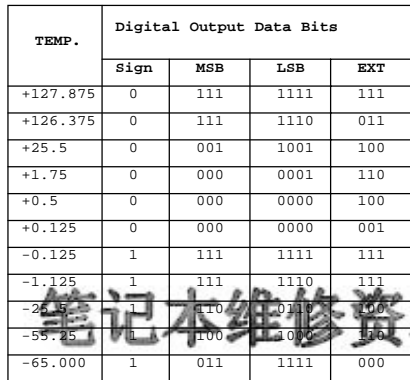
ICH7-MGP

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QQ:52643956



<Variant Name>

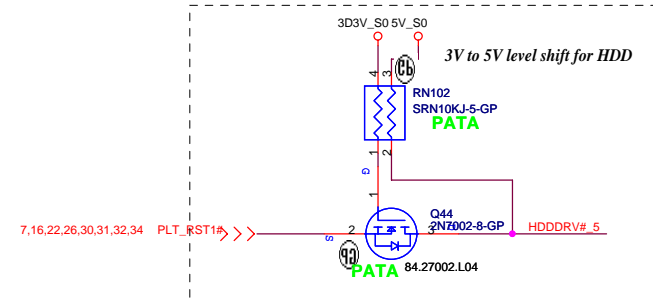
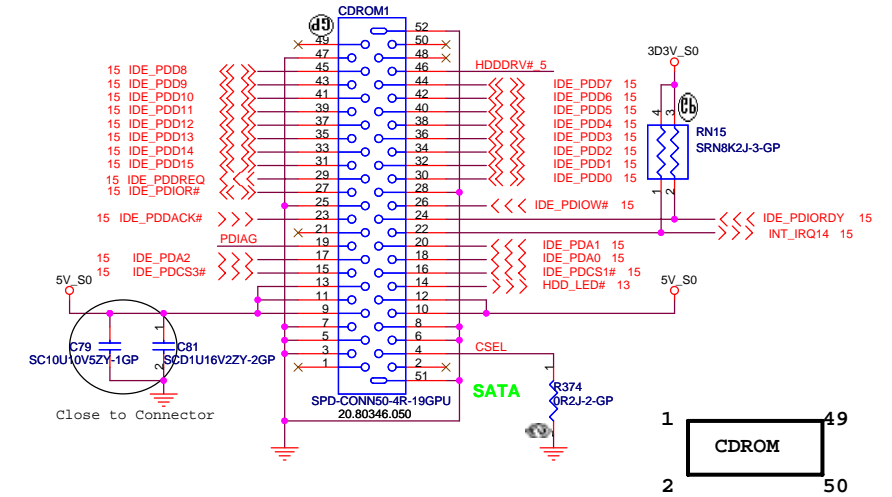
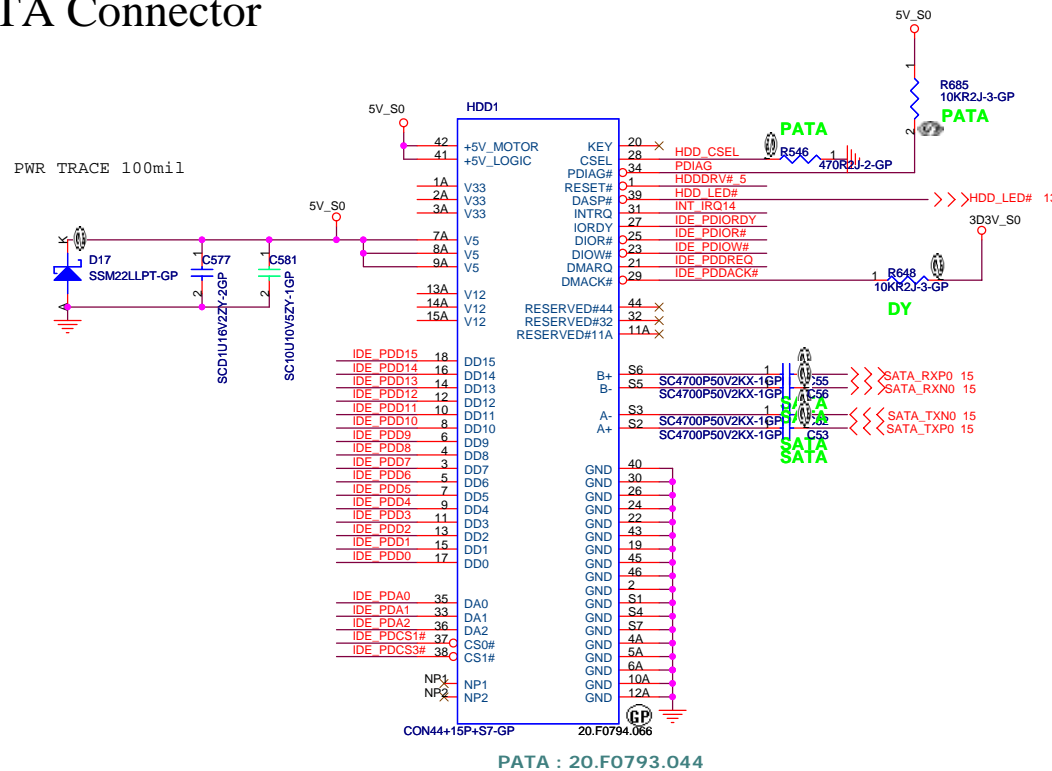
緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title ICH7-M (4 of 4)/ODD	
Size A3	Document Number AG1
Date: Wednesday, January 18, 2006	Sheet 18 of 45



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CDROM Connector

PWR TRACE 100mil



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QQ:52643956

<Variant Name>

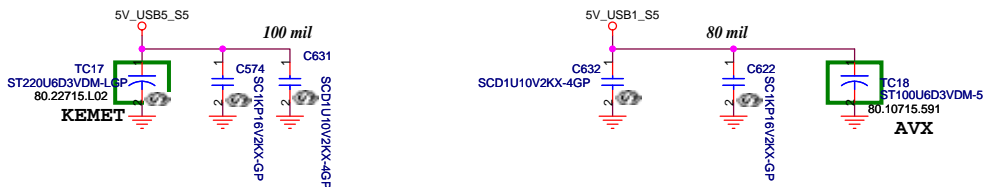
緯創資通

Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

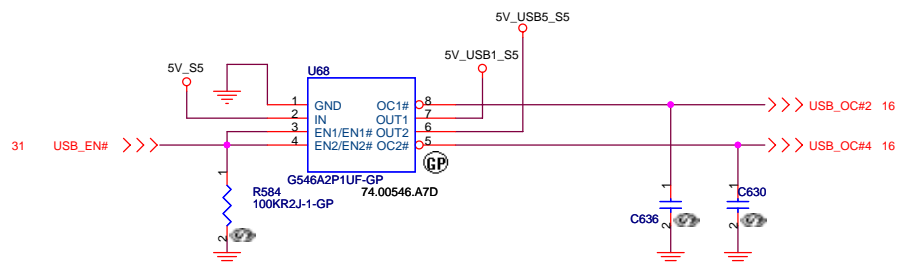
Title	SATA/PATA HDD ULi-M5285
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Size A3	Document Number	Rev
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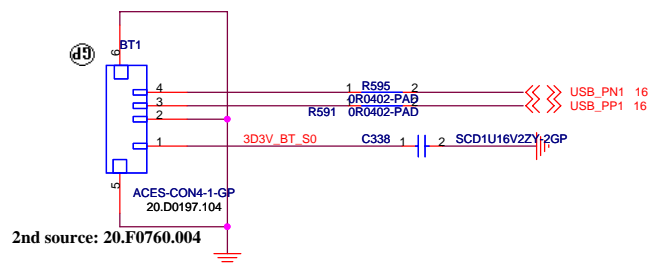
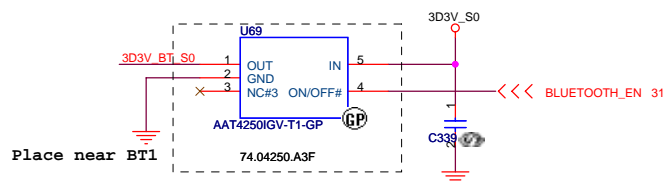
Date: Wednesday, January 18, 2006 Sheet 20 of 45



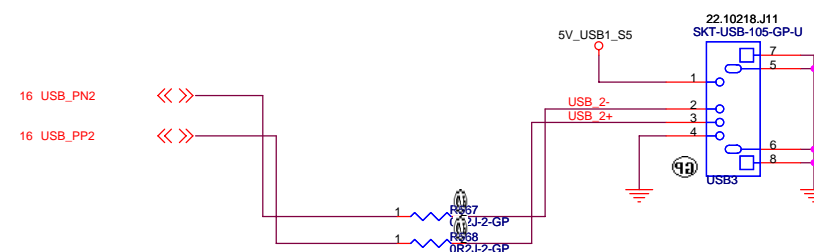
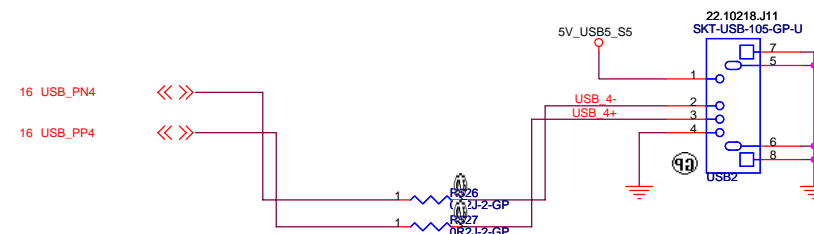
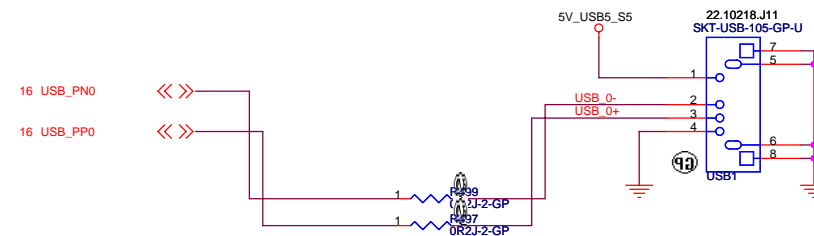
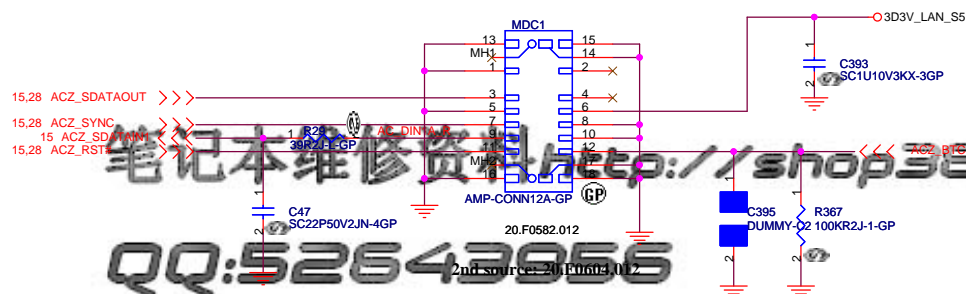
USB PORT



BLUETOOTH MODULE CONNECTOR



MDC 1.5 CONN



<Variant Name>

緯創資通 **Wistron Corporation**
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Taipei Hsien 221, Taiwan, R.O.C.

Title		
USB and MDC I/F		
Size A3	Document Number	Rev
	AG1	-1
Date: Friday, February 24, 2006	Sheet 21	of 45

Broadcom LAN BCM4401E BCM5789 BCM5787M

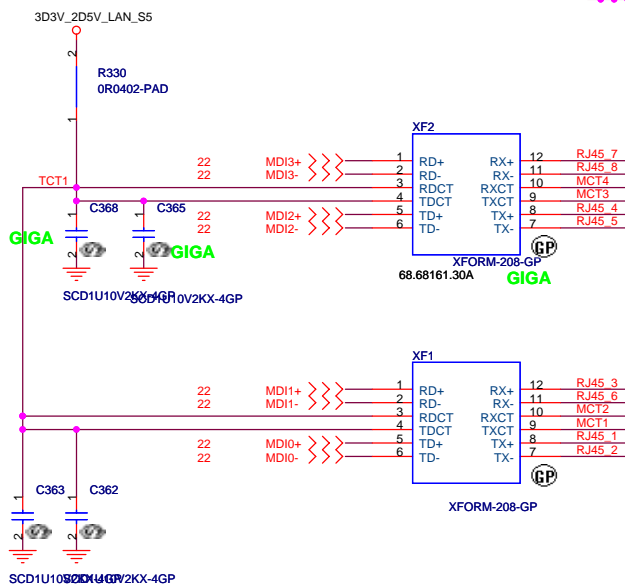
IDSEL:AD23
INTA-->:INT_PIRQH#
GNT:PCI_GNT#2
REQ:PCI_REQ#2

"GIGA" -- stuff when 5789 and 5787M.
"4401E" -- stuff when 4401E.
"5789" -- stuff when 5789.
"5787" -- stuff when 5787.
"no 5787" -- stuff when 4401E and 5789.

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

Title **BCM4401E / BCM5789**
Size A3 Document Number **AG1** Rev **-1**
Date: Wednesday, January 18, 2006 Sheet 22 of 45

Voltage Rail	4401E	5789	5787
VDDIO_PCI	3D3V_LAN_S5	3D3V_S0	Don't Care
VDDC	1D8V_LAN_S5	1D2V_LAN_S5	
VDDIO	3D3V_LAN_S5	3D3V_LAN_S5	
VESD	3D3V_LAN_S5	3D3V_S0	Don't Care
VDDP	Don't Care	2D5V_S5	
3D3V_2D5V_S5	3D3V_S5	2D5V_S5	
1D8V_1D2V_S5	1D8V_LAN_S5	1D2V_S5	



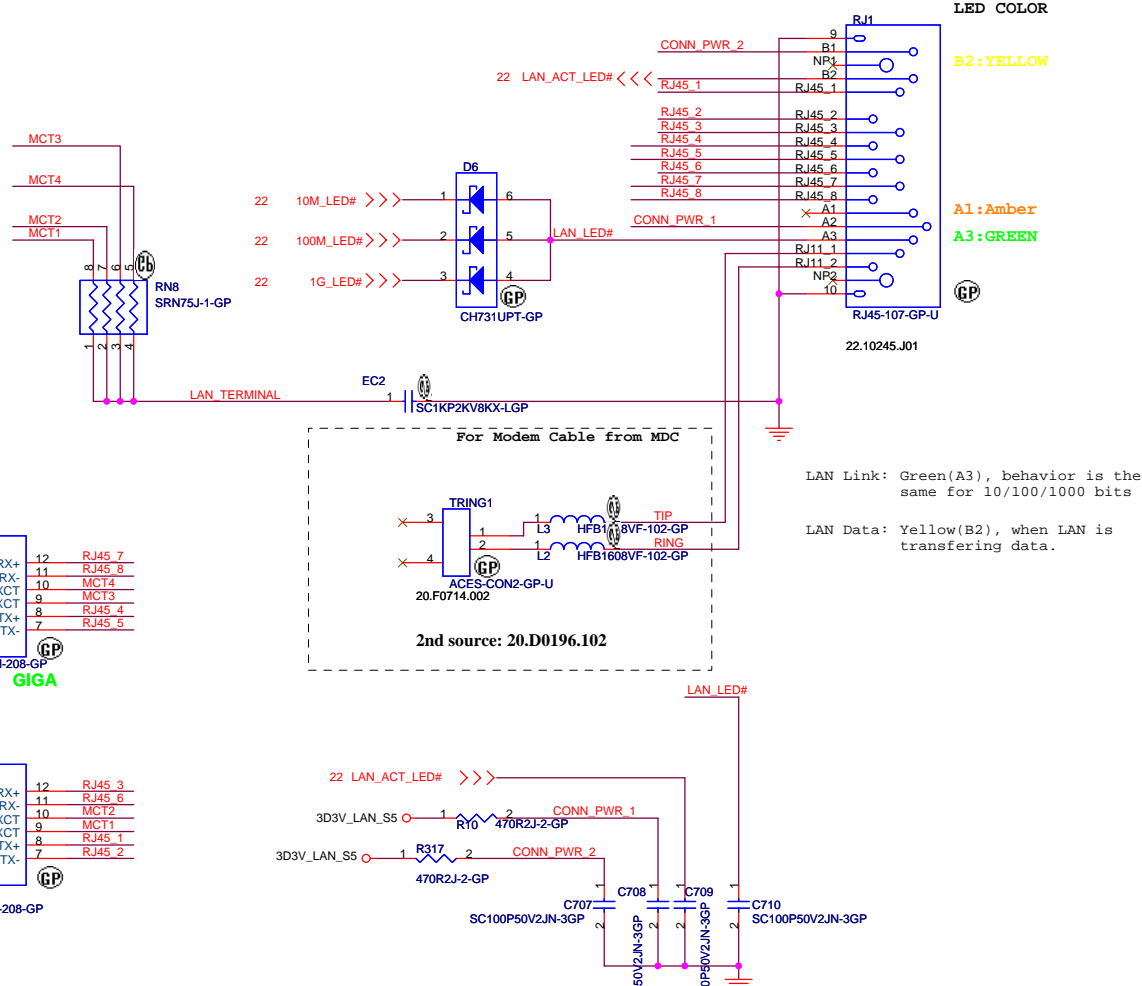
- 1.route on bottom as differential pairs.
- 2.Tx+/Tx- are pairs. Rx+/Rx- are pairs.
- 3.No vias, No 90 degree bends.
- 4.pairs must be equal lengths.
- 5.6mil trace width, 12mil separation.
- 6.36mil between pairs and any other trace.
- 7.Must not cross ground moat, except RJ-45 moat.

RJ11 signal must leave the other signal or power plane 100mil.

DOC_TIP,DOC_RING,TIP,RING:
W/S : 10/100 @ Surface layers
10/20 @ Inner layers

10/100 LAN Transformer	RJ45 PIN
TD+ --> TX+	RJ45 1
TD- --> TX-	RJ45 2
RD+ --> RX+	RJ45 3
RD- --> RX-	RJ45 6

LAN Connector

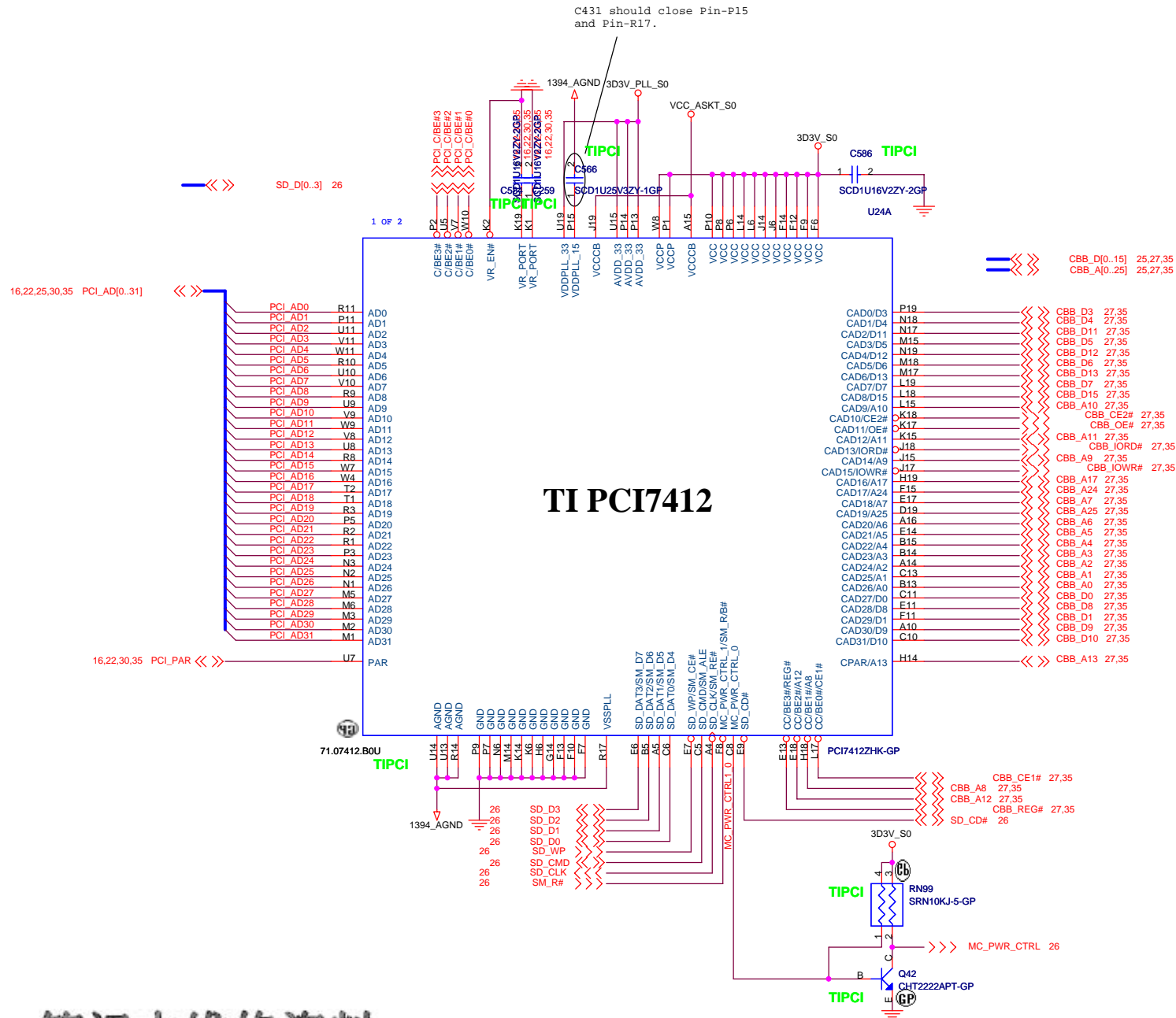


<Variant Name>

緯創資通 Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

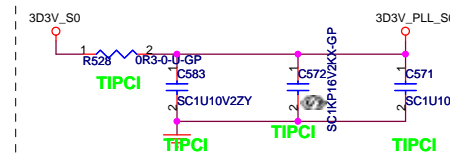
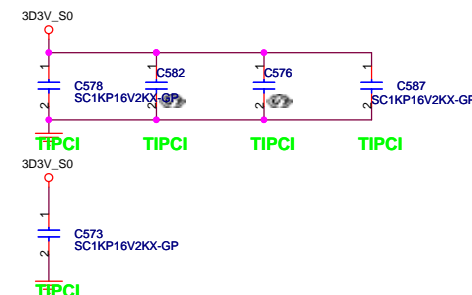
Title	LAN Connector	
Size	Document Number	Rev
A3	AG1	-1
Date: Wednesday, January 18, 2006	Sheet 23 of 45	

C431 should close Pin-P15
and Pin-R17.



- * All 1394 signals must be routed on top side only
- * Differential pairs of each ports should have equal trace length
- * Stubs must be keep as short as possible

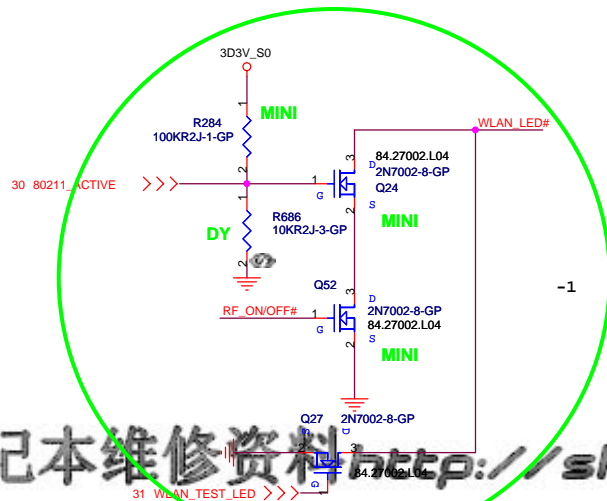
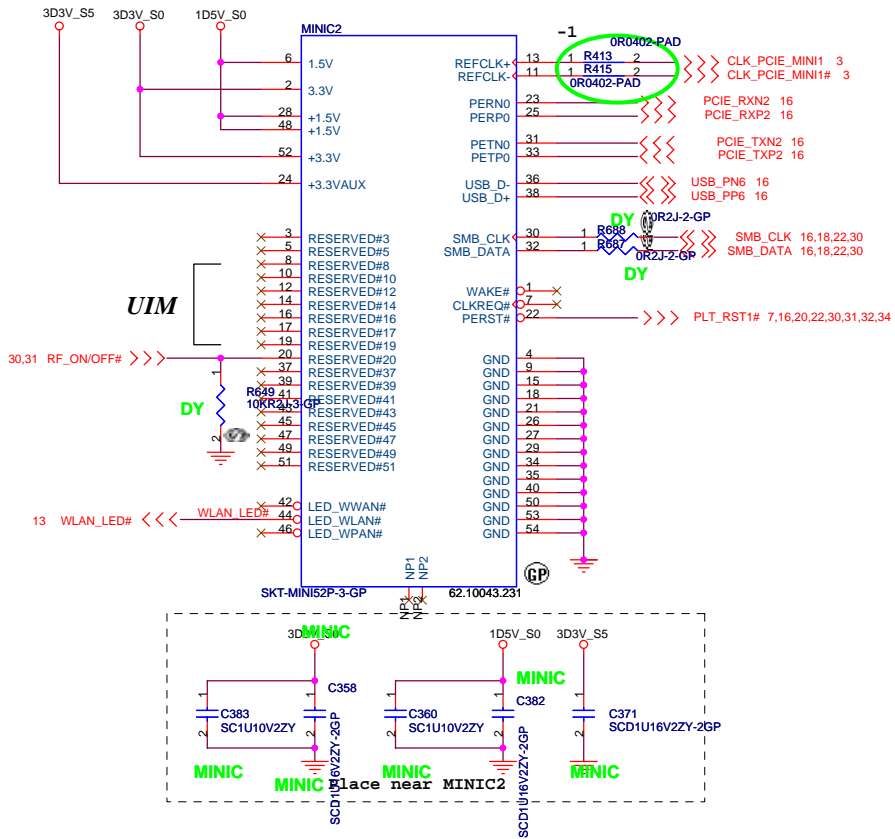
Bypass/Decoupling Capacitors
Should be places as close to
PCI7412 as possible



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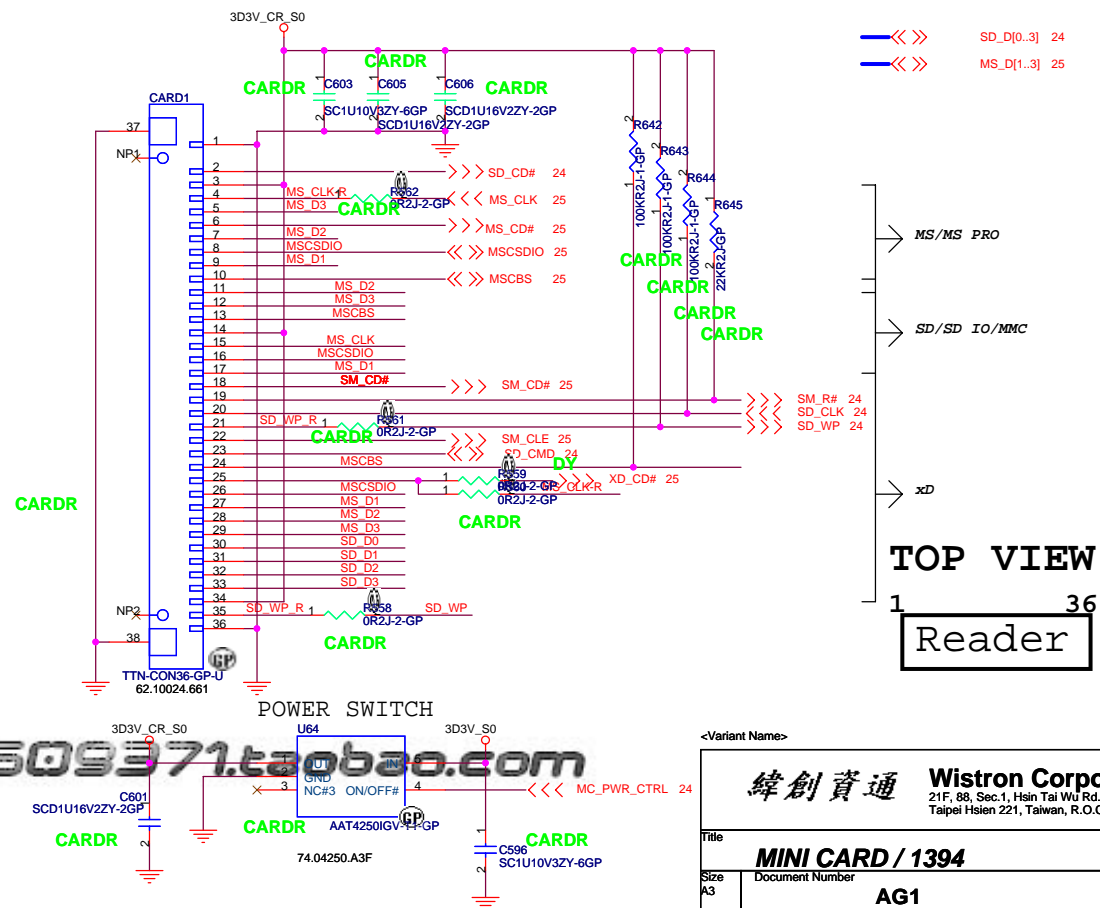
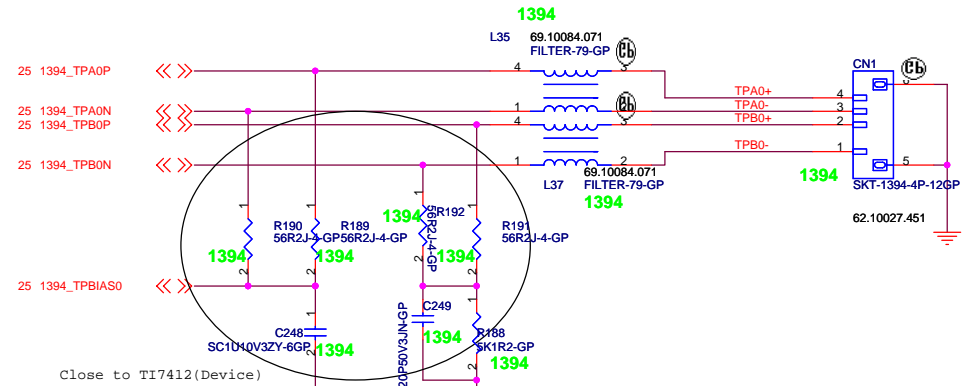


Mini Card Connector



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1394 Connector



<Variant Name>

緯創資通

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Title

MINI CARD / 1394

Size

Document Number

AG1

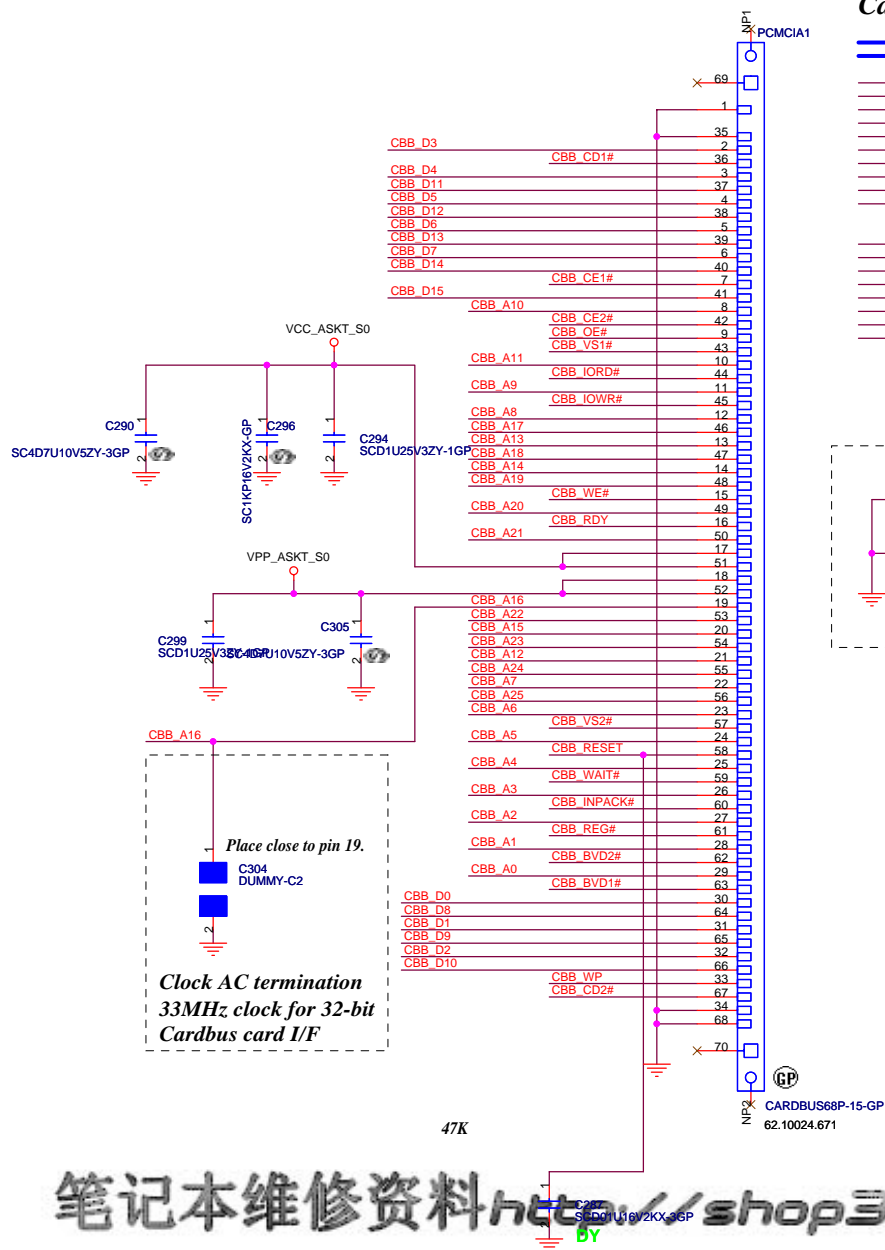
Rev

Date: Wednesday, March 01, 2006

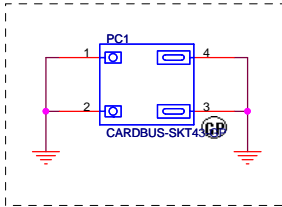
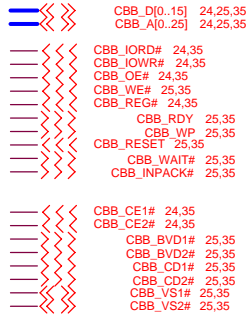
Sheet 26 of 45

45

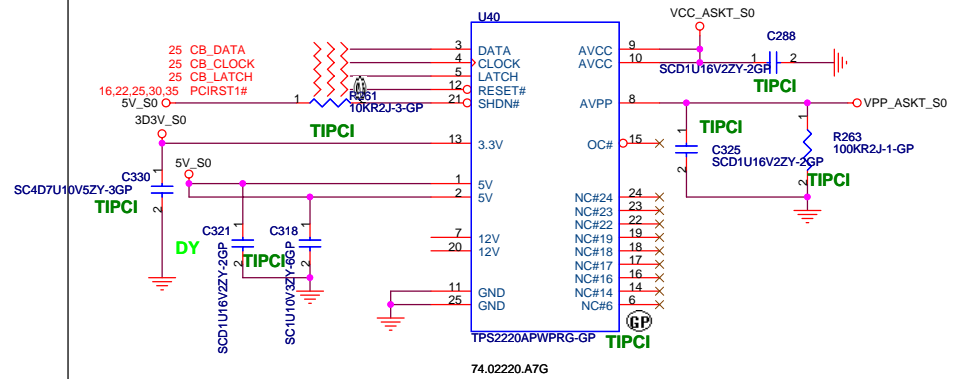
PCMCIA Socket



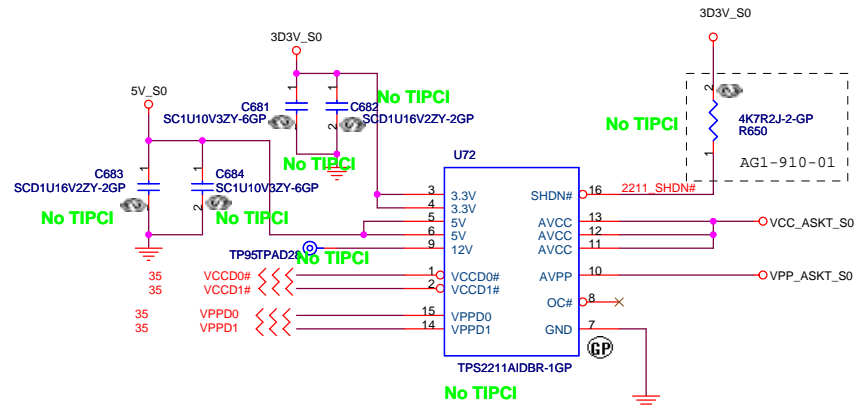
Cardbus I/F



TI Power switch



ENE Power switch



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QQ:52643956

<Variant Name>

緯創資通

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

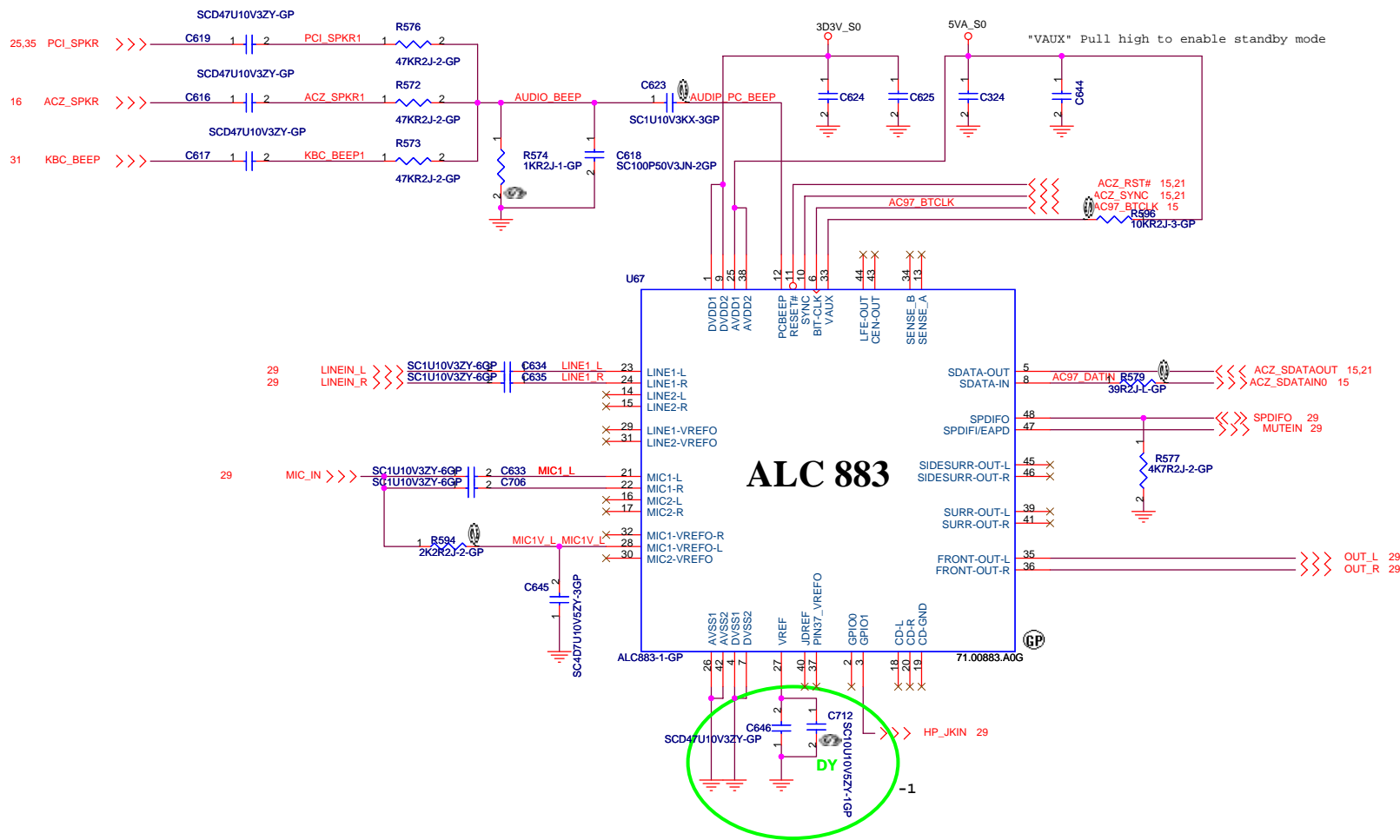
Title	PCMCIA
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Size	Document Number
A3	

AG1Rev
-1

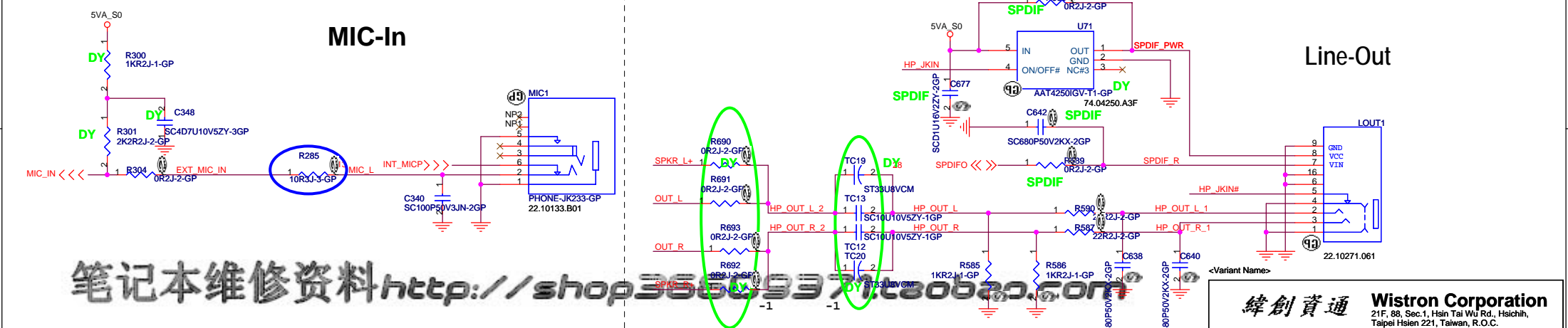
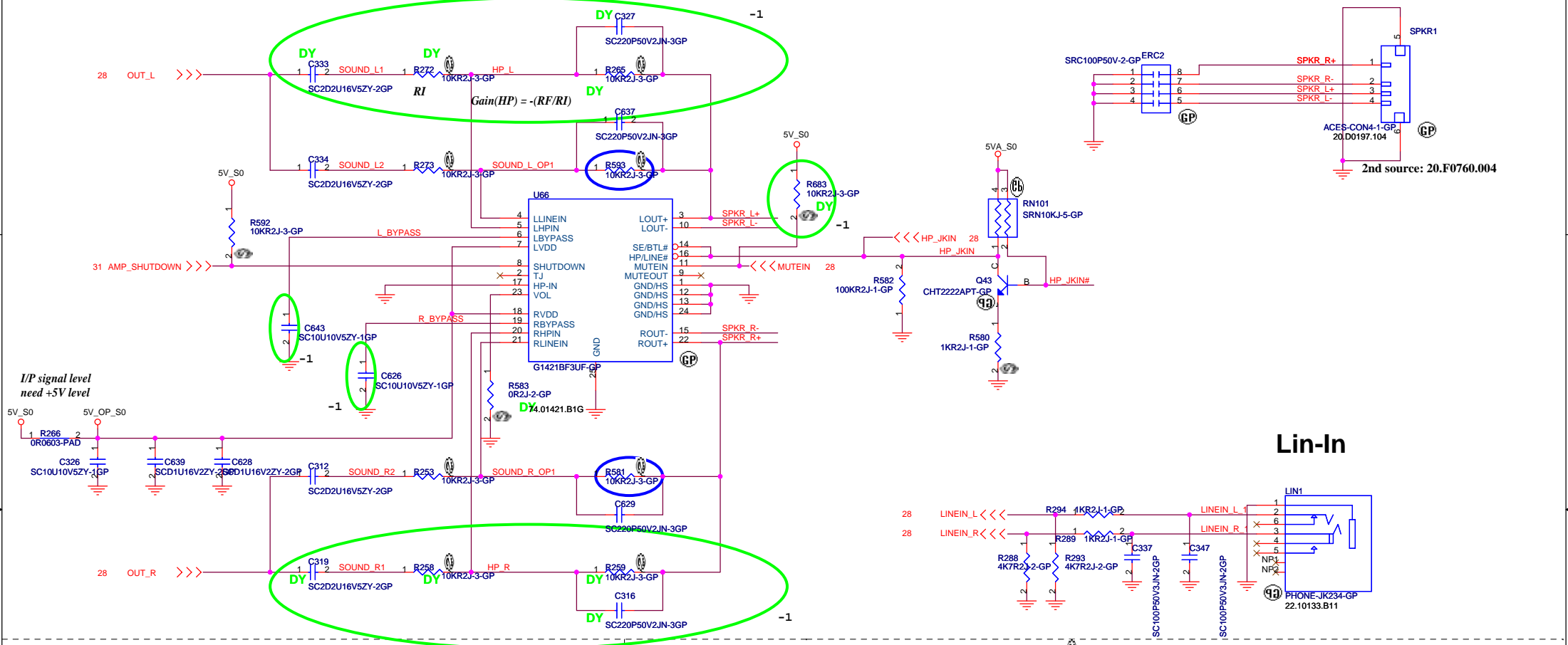
Date: Friday, February 24, 2006

Sheet 27 of 45

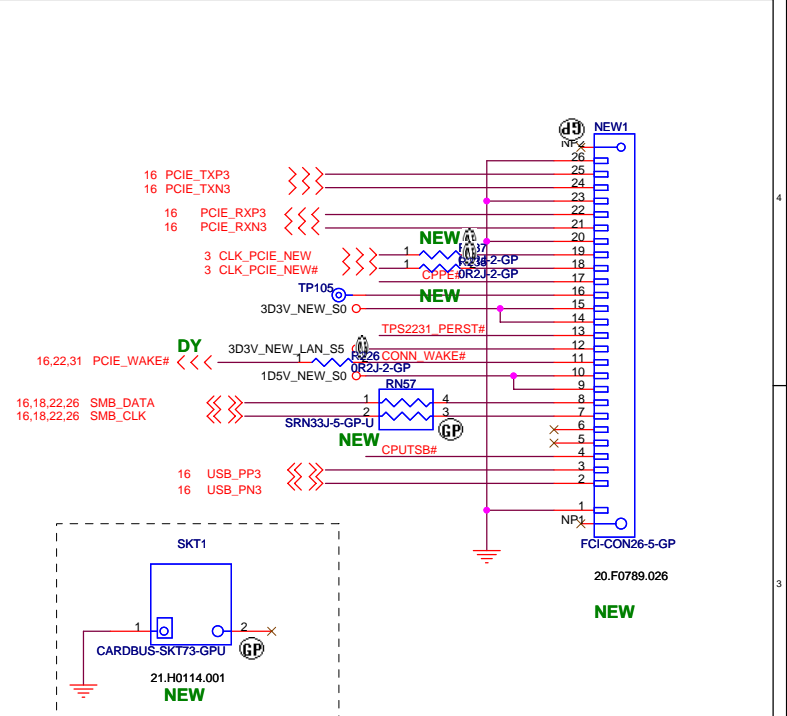
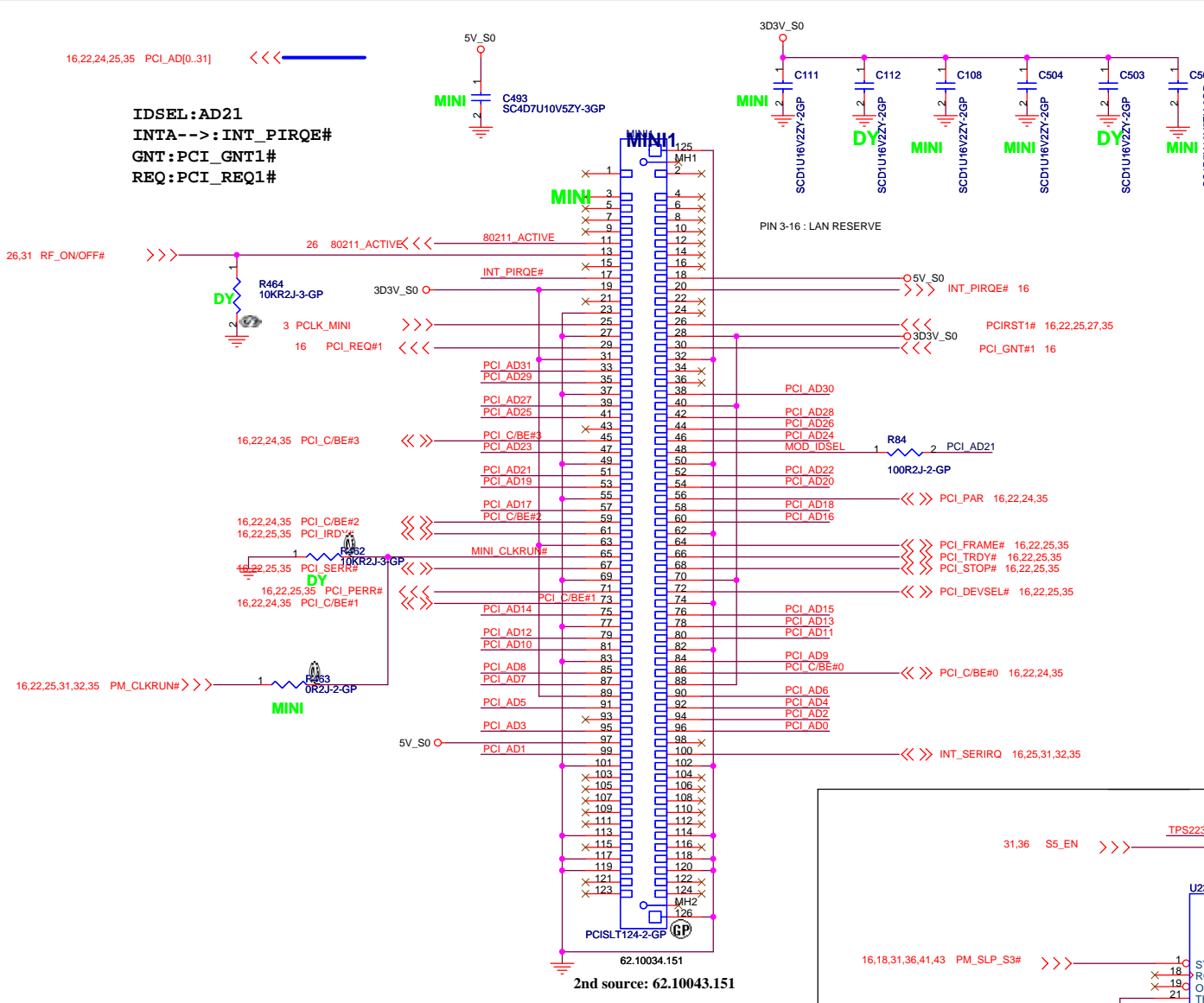


AUDIO OP AMPLIFIER

Internal SPKR

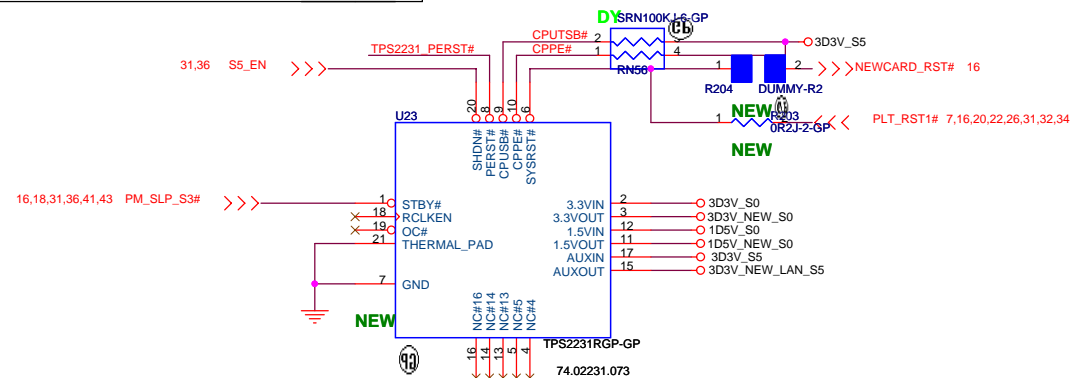


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 QQ:52643956



NEWCARD Connector

Reserve the symbol
for bottom side
connector



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Place them Near to Chip

Place them Near to Connector

<Variant Name>

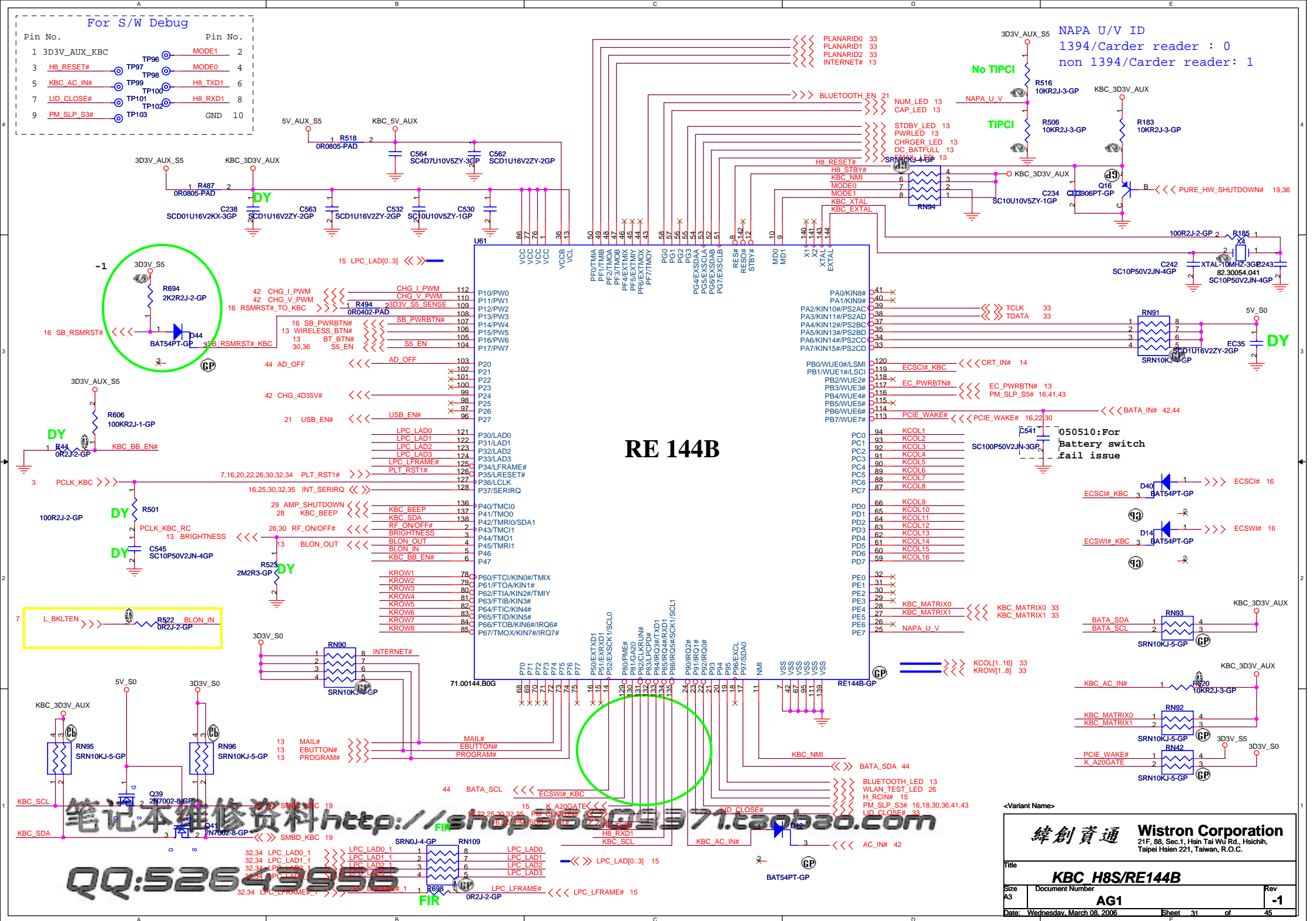
緯創資通 Wistron Corporation

21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.

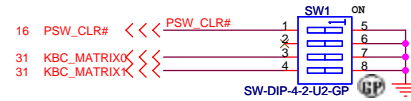
Title **MINI-PC/NEW Card**

Size A3 Document Number **AG1** Rev **-1**

Date: Thursday, March 09, 2006 Sheet 30 of 45



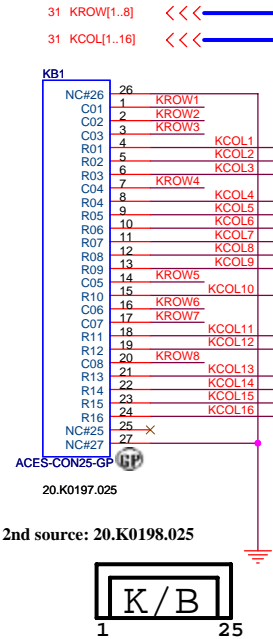
Internal KeyBoard Connector



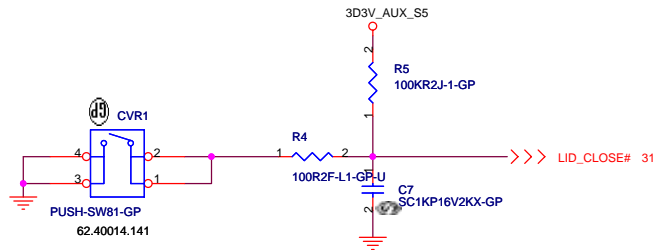
Keyboard matrix (from vendor)

	US	Eur	Jap	Ohter
MATRIXID0#	1	0	1	0
MATRIXID1#	1	1	0	0

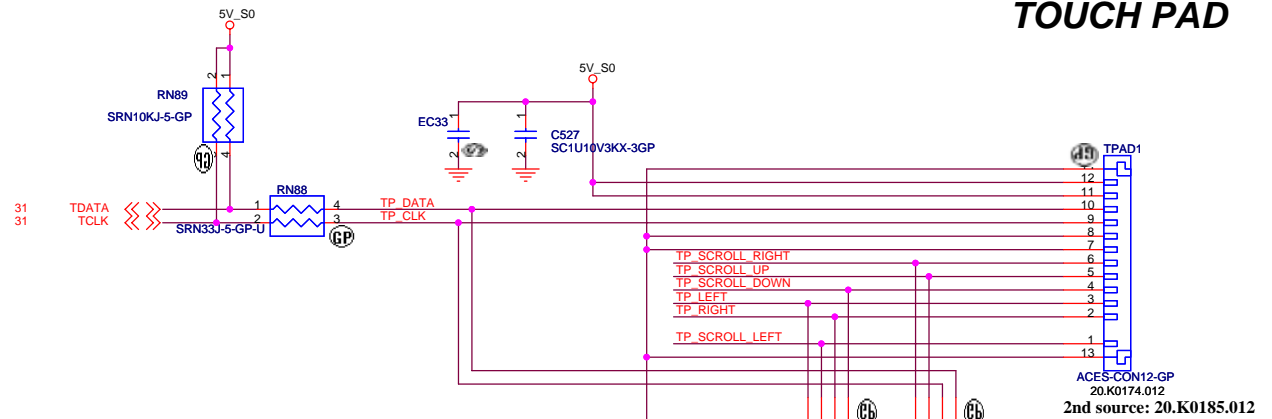
	Low Active
PSW_CLR#	1 - 5 ON
KBC_BB_EN#	2 - 6 ON
KBC_MATRIX1	3 - 7 ON
KBC_MATRIX2	4 - 8 ON



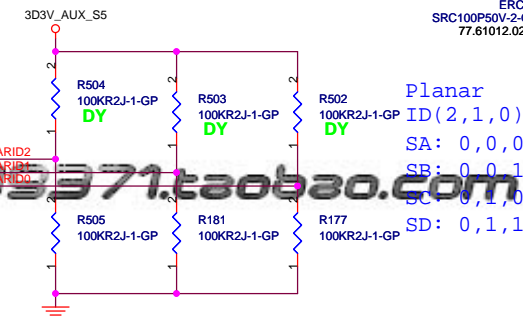
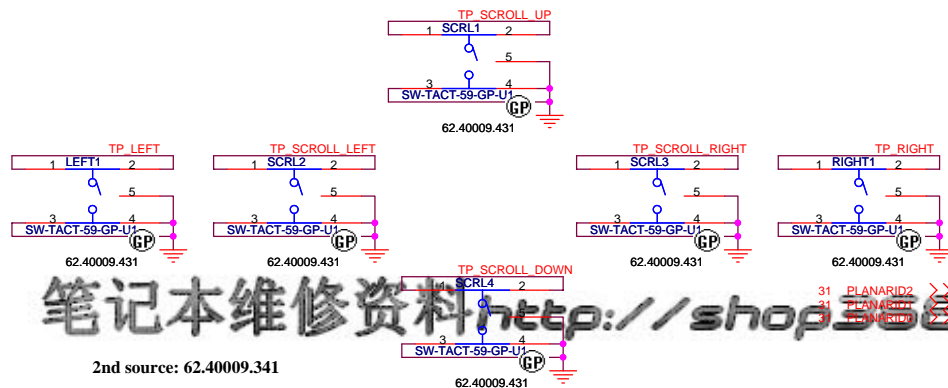
COVER SWITCH



TOUCH PAD

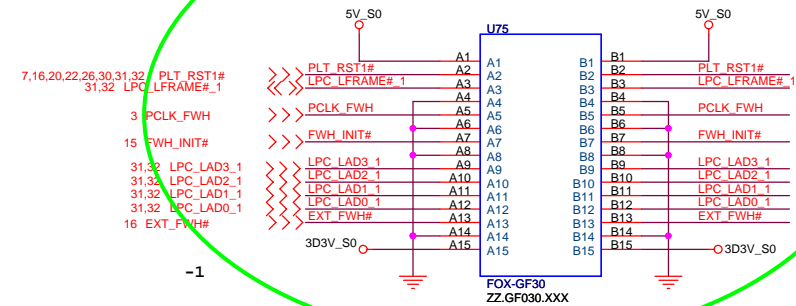


SCROLL KEY



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2nd source: 62.40009.341
QQ:52643956

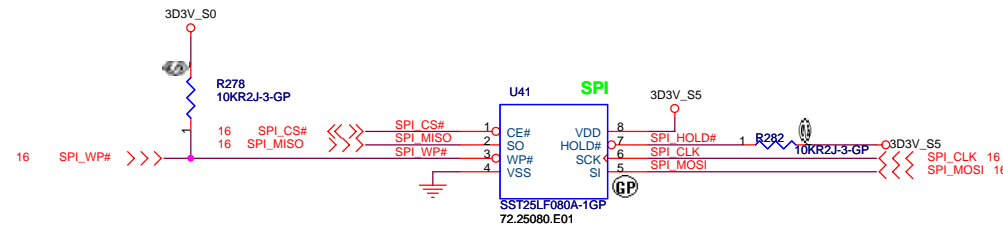
GOLDEN FINGER FOR DEBUG BOARD



Boot Device must have ID[3:0] = 0000
Has internal pull-down resistors
All may be left floated
FPET7 Elec. P3-46

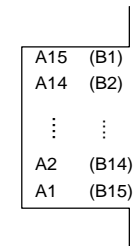
SPI FLASH ROM

8M Bits



SOIC 200 Socket P/N:
Wieson: 62.10076.001
SPI ROM:
SST25LF080A: 72.25080.E01
SST25VF080B : 72.25080.G01
ST M25P80: 72.25P80.001

TOP VIEW



(BOTTOM VIEW)

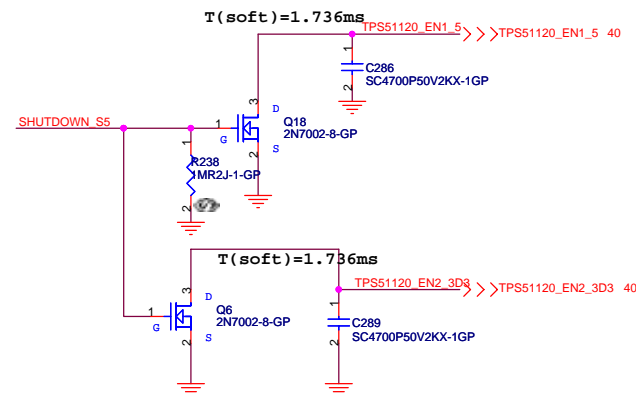
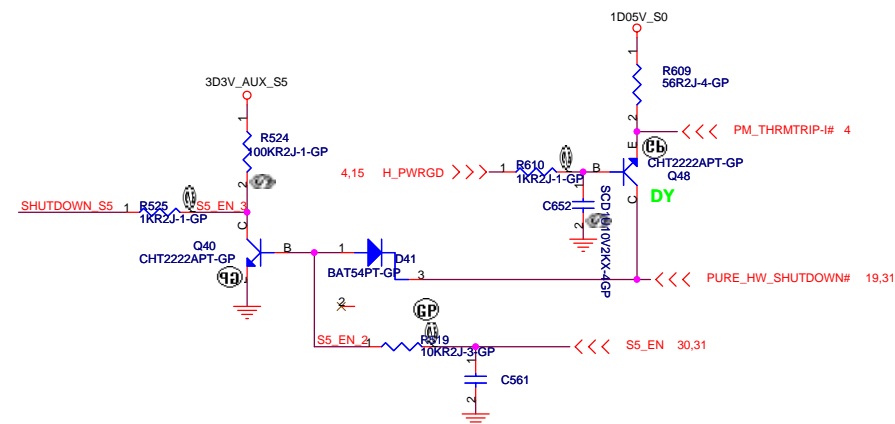
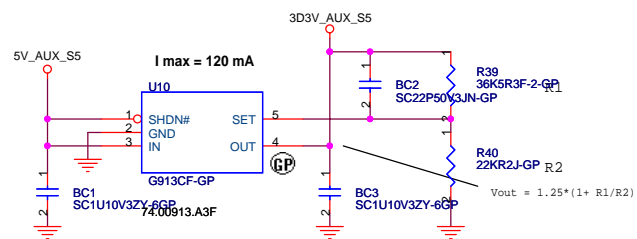
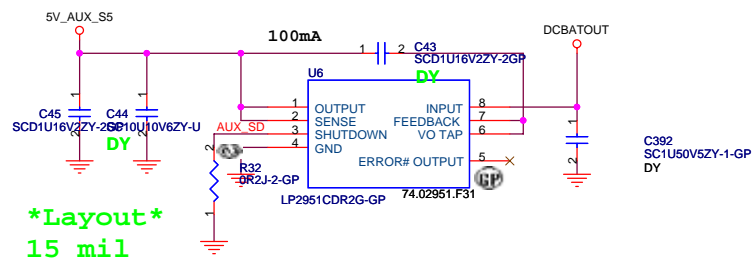
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QQ:52643956

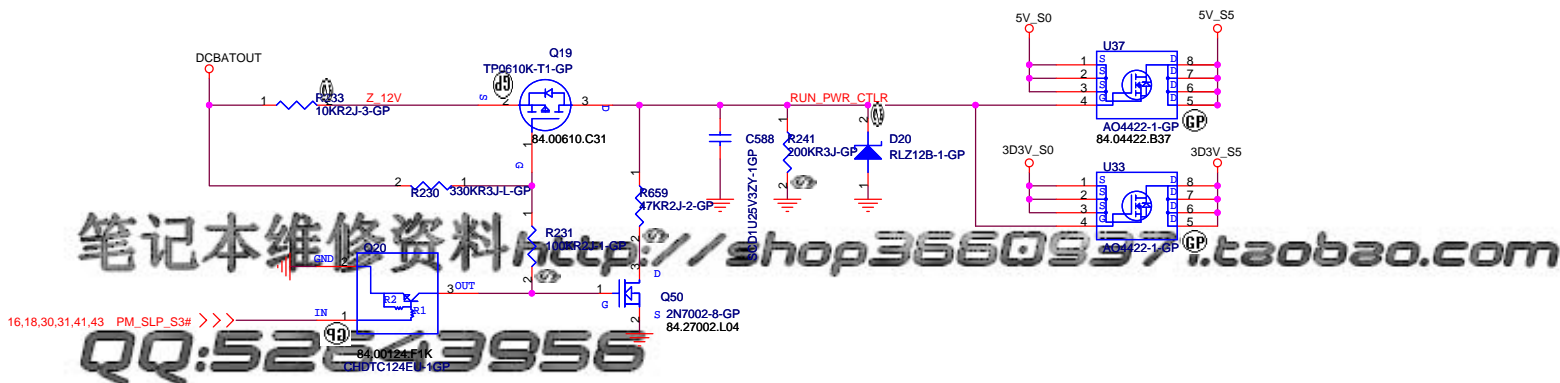
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Title			
BIOS : SPI			
Size	Document Number	Rev	
A3	AG1	-1	
Date:	Wednesday, January 18, 2006	Sheet	34 of 45

Aux Power



Run Power

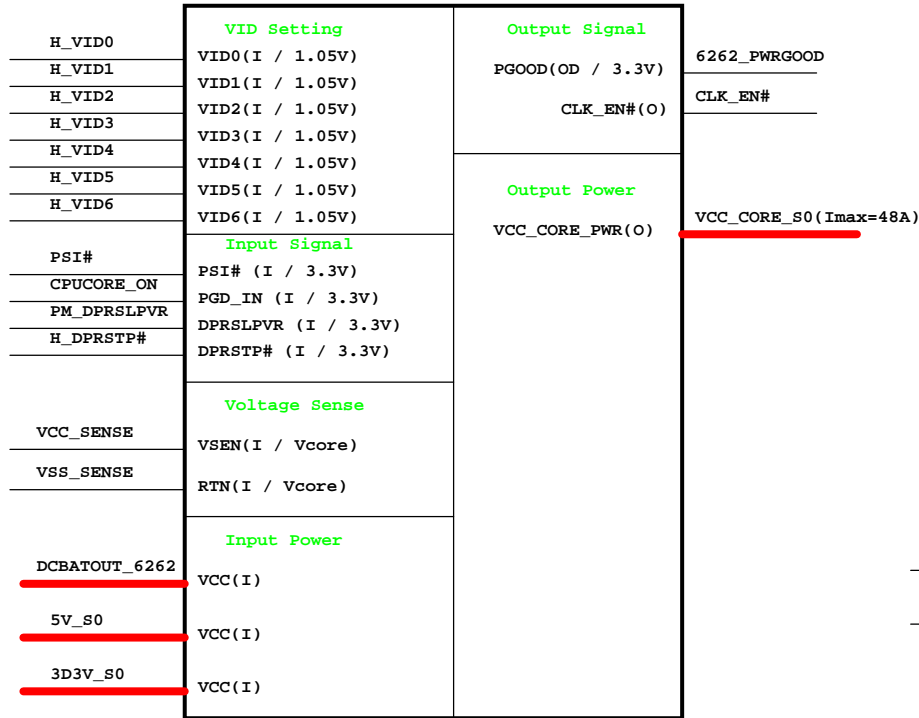


<Variant Name>

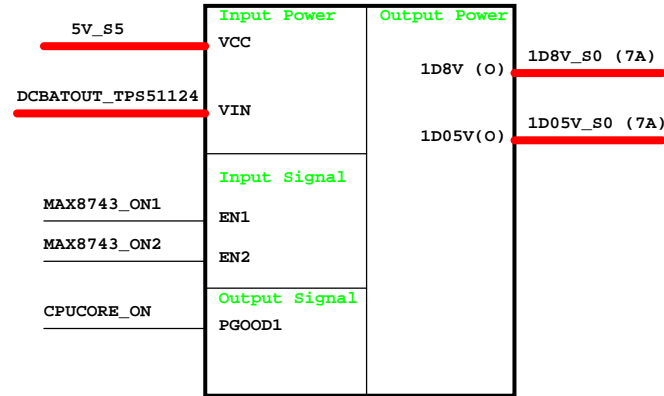
緯創資通 Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title		
RUN and AUX POWER		
Size	Document Number	Rev
A3	AG1	-1
Date:	Wednesday, January 18, 2006	Sheet 36 of 45

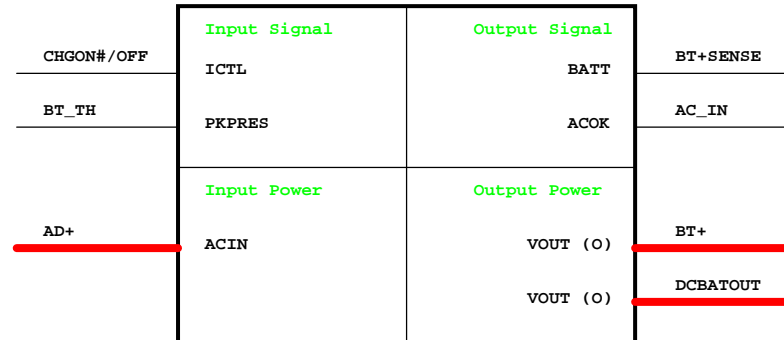
CPU_CORE
Intersil ISL6262



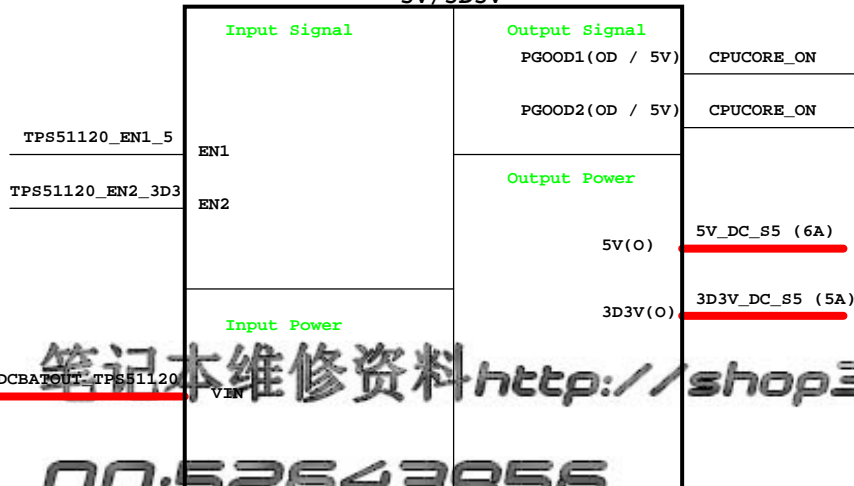
MAX8743
1D8V/1D05V



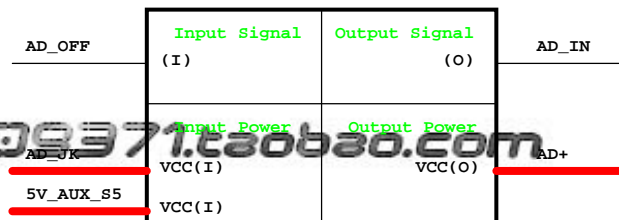
Charger Max8725



TPS51120
5V/3D3V

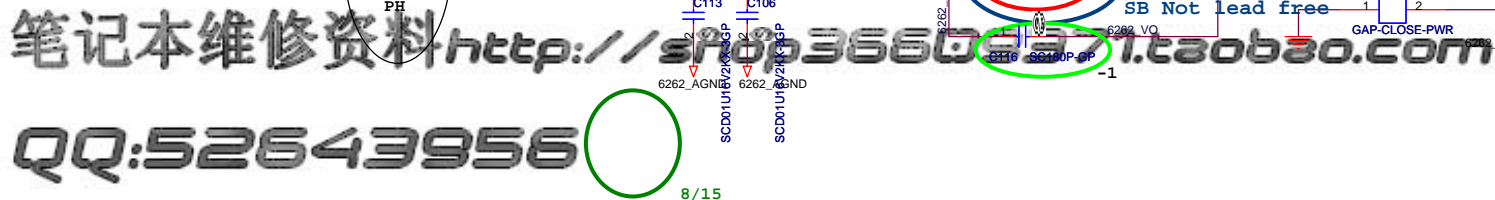


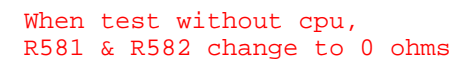
Adapter



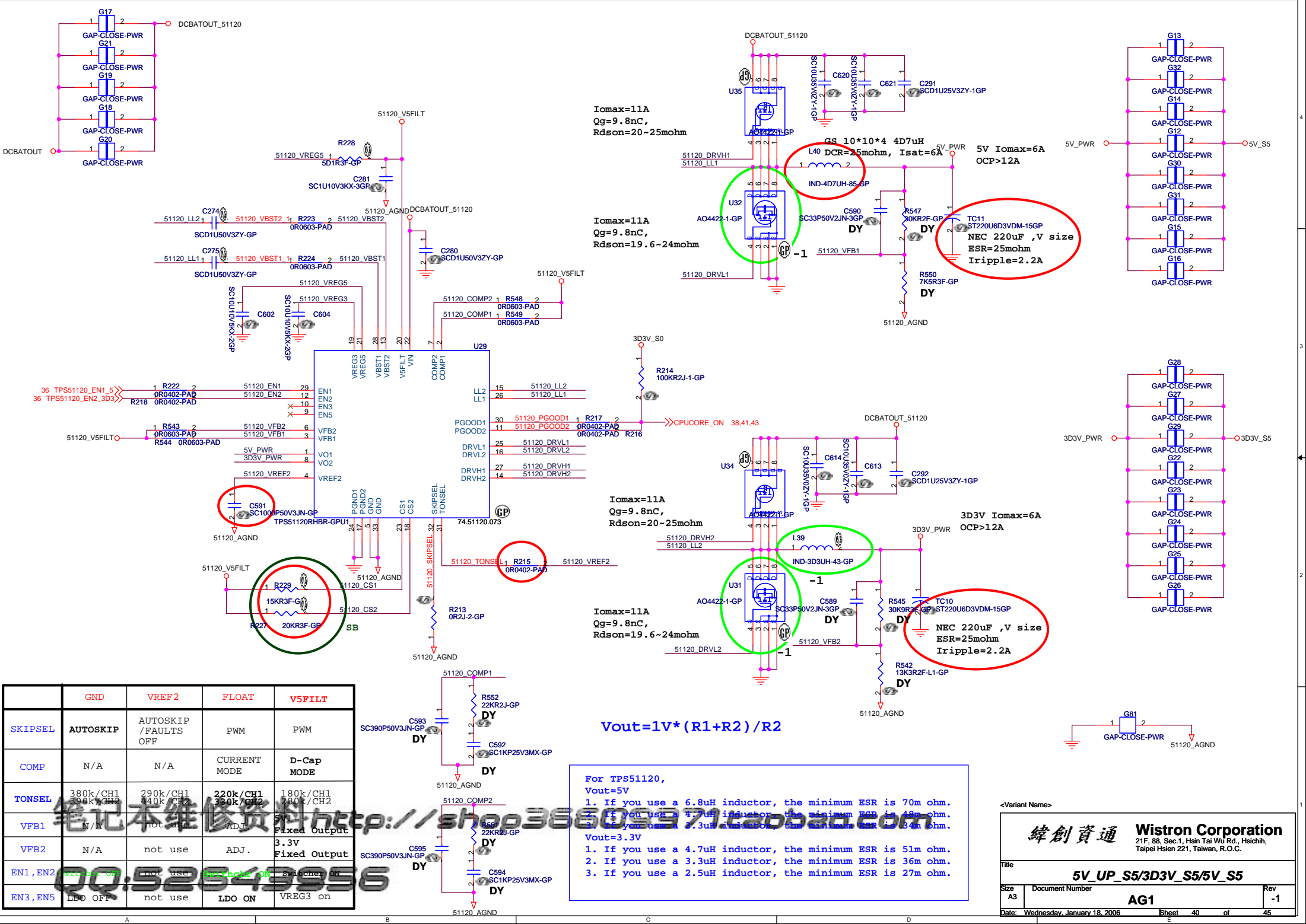
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緯創資通 Wistron Corporation
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Title	
CPU Vcore Power_2	
Size A3	Document Number AG1
Date: Wednesday, January 18, 2006	Sheet 39 of 45 Rev -1



	GND	VREF2	FLOAT	V5FILT
SKIPSEL	AUTOSKIP	AUTOSKIP / FAULTS OFF	PWM	PWM
COMP	N/A	N/A	CURRENT MODE	D-Cap MODE
TONSEL	380k/CH1 290k/CH2	290k/CH1 440k/CH2	220k/CH1 330k/CH2	180k/CH1 240k/CH2
VFB1	N/A	not use	ADJ.	Fixed Output
VFB2	N/A	not use	ADJ.	3.3V Fixed Output
EN1, EN2	not use	not use	LDO ON	SWITCHER ON
EN3, EN5	LDO OFF	not use	LDO ON	VREG3 on

Iomax=11A
Qg=9.8nC,
Rdson=20~25mohm

Iomax=11A
Qg=9.8nC,
Rdson=19.6~24mohm

Iomax=11A
Qg=9.8nC,
Rdson=20~25mohm

Iomax=11A
Qg=9.8nC,
Rdson=19.6~24mohm

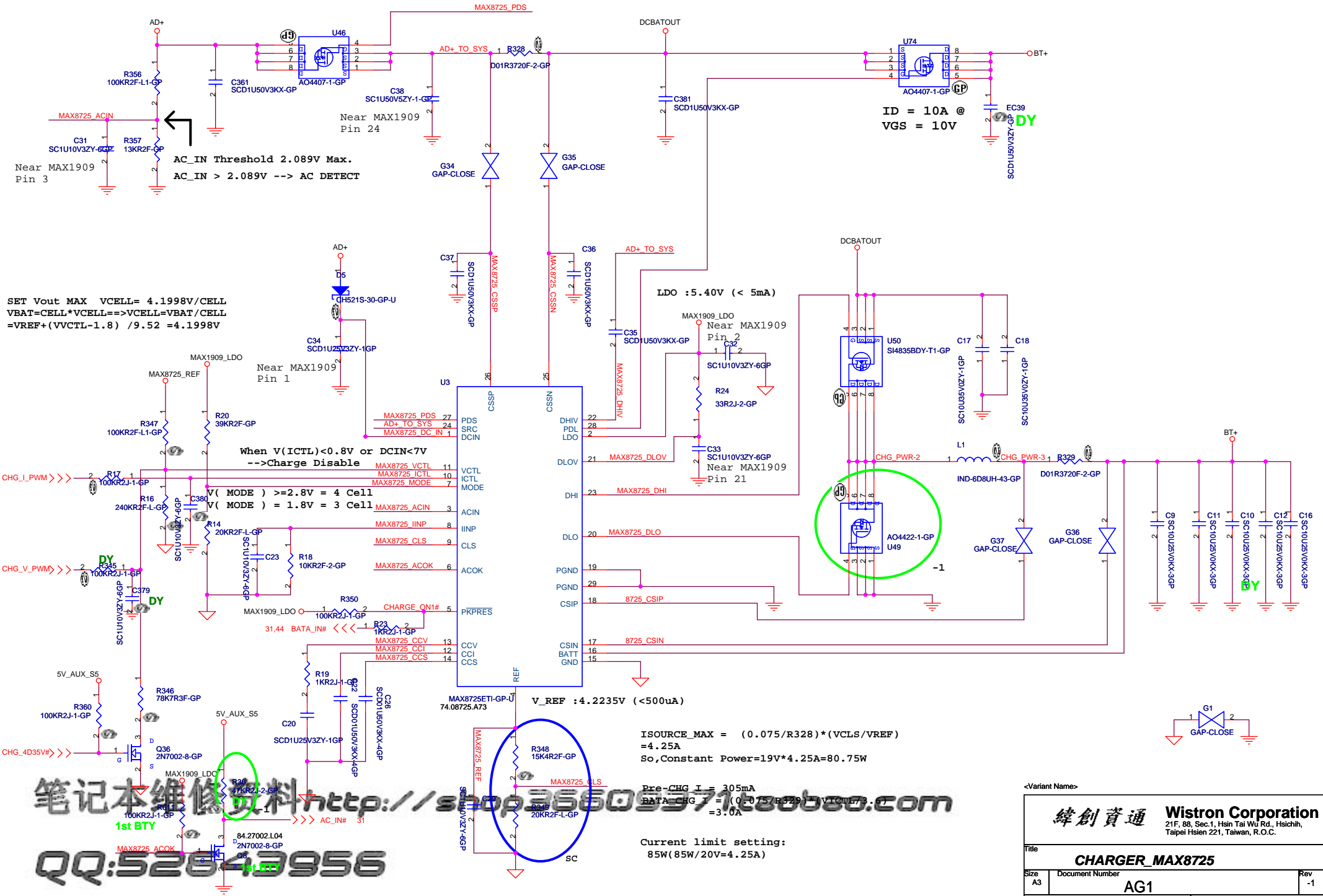
$$V_{out}=1V \cdot (R1+R2) / R2$$

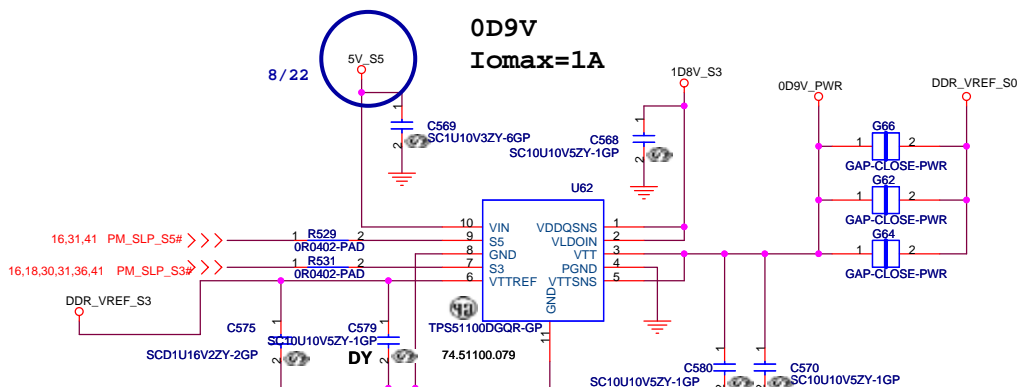
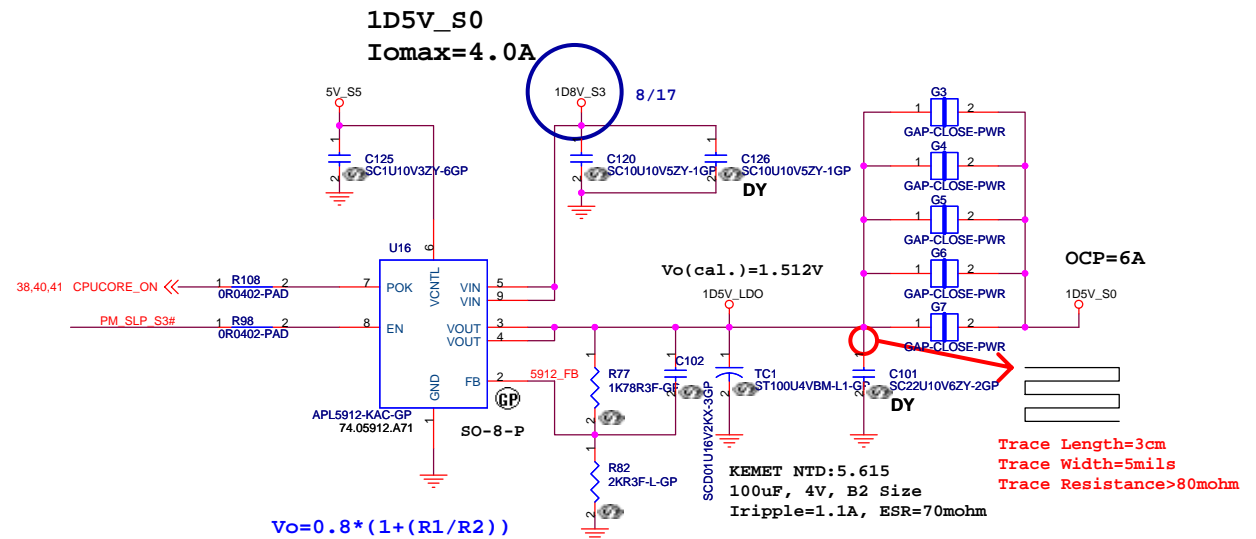
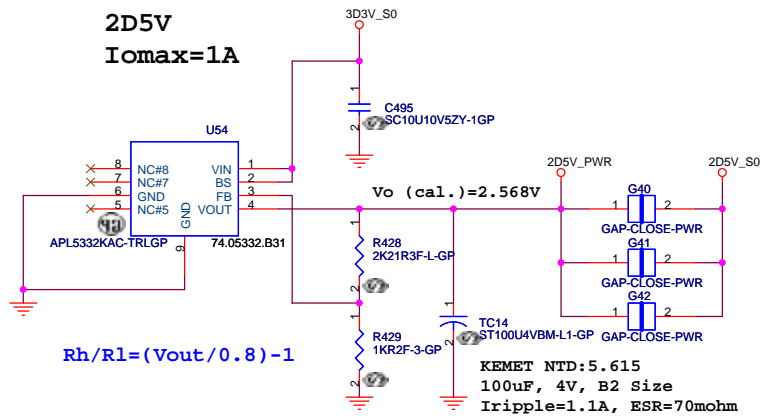
For TPS51120,
Vout=5V
1. If you use a 6.8uH inductor, the minimum ESR is 70m ohm.
2. If you use a 4.7uH inductor, the minimum ESR is 42m ohm.
3. If you use a 3.3uH inductor, the minimum ESR is 36m ohm.
Vout=3.3V
1. If you use a 4.7uH inductor, the minimum ESR is 51m ohm.
2. If you use a 3.3uH inductor, the minimum ESR is 36m ohm.
3. If you use a 2.5uH inductor, the minimum ESR is 27m ohm.

Variant Name

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Title		
5V_UP_S5/3D3V_S5/5V_S5		
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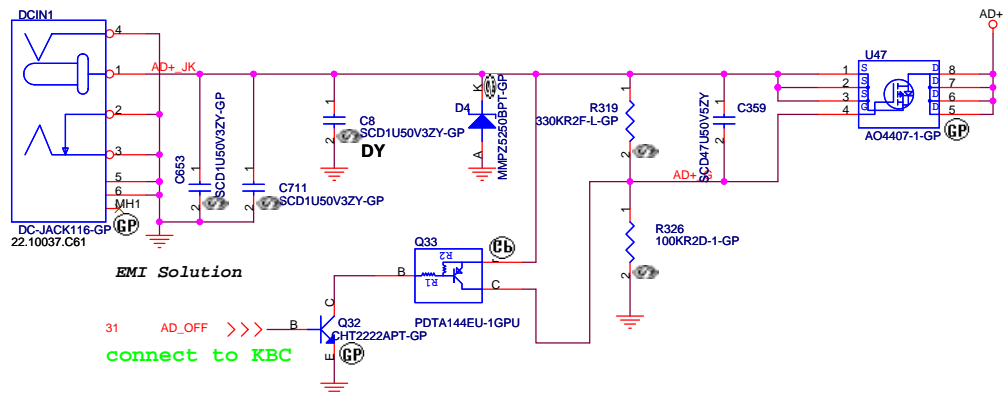
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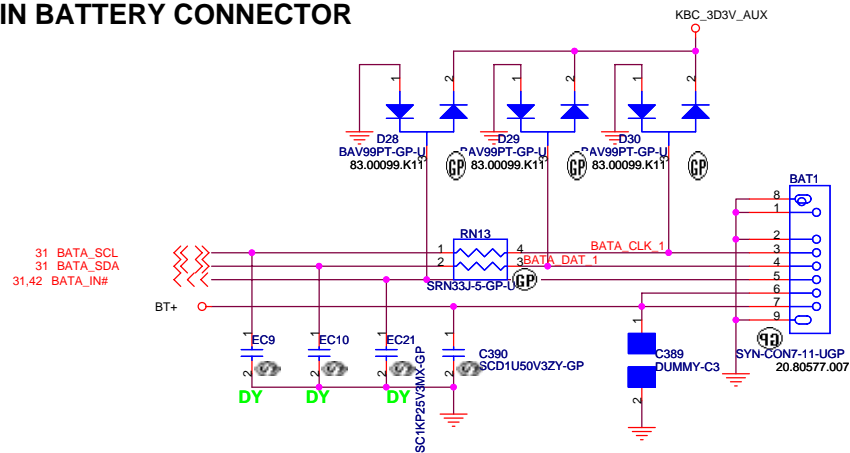
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		21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
0D9V/1D5V/2D5V			
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ADAPTER IN CIRCUIT



MAIN BATTERY CONNECTOR



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<Variant Name>

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Title

AD/BATT CONN

Size
A3

Document Number

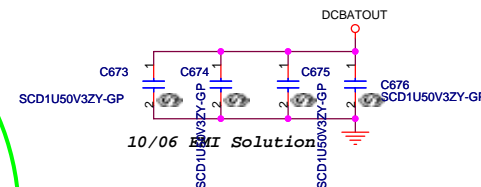
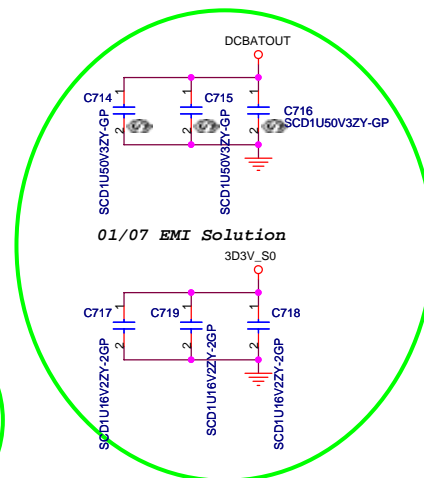
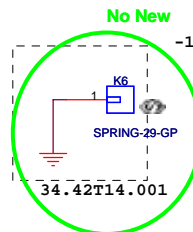
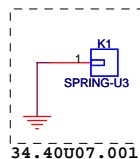
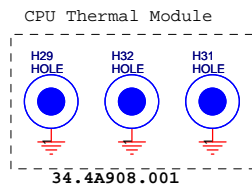
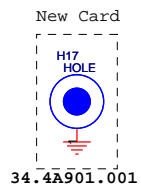
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Rev
-1

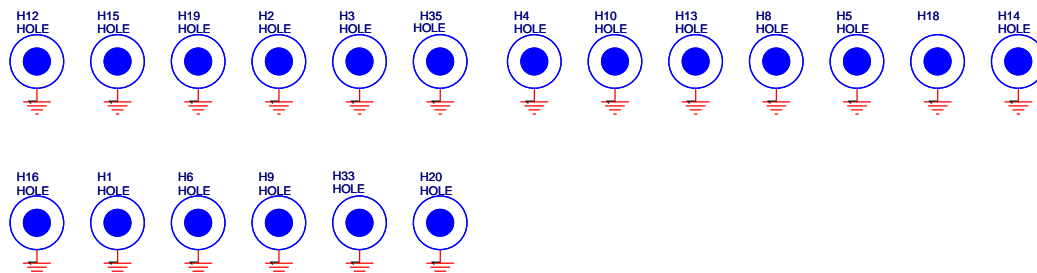
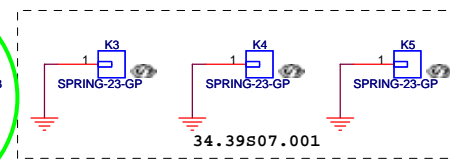
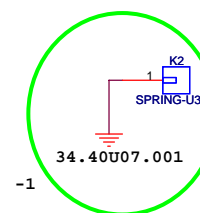
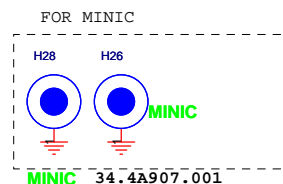
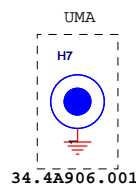
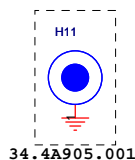
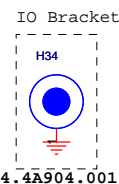
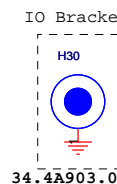
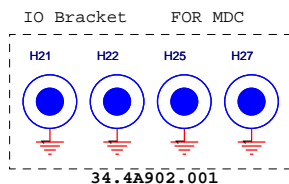
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TOP SIDE:



BOTTOM SIDE:



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Title	SPRING & BOSS	
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