

Compal confidential

Schematics Document

Mobile Yonah uFCPGA with Intel Calistoga_GM/PM+ICH7-M core logic

2005-12-15
REV:1.0



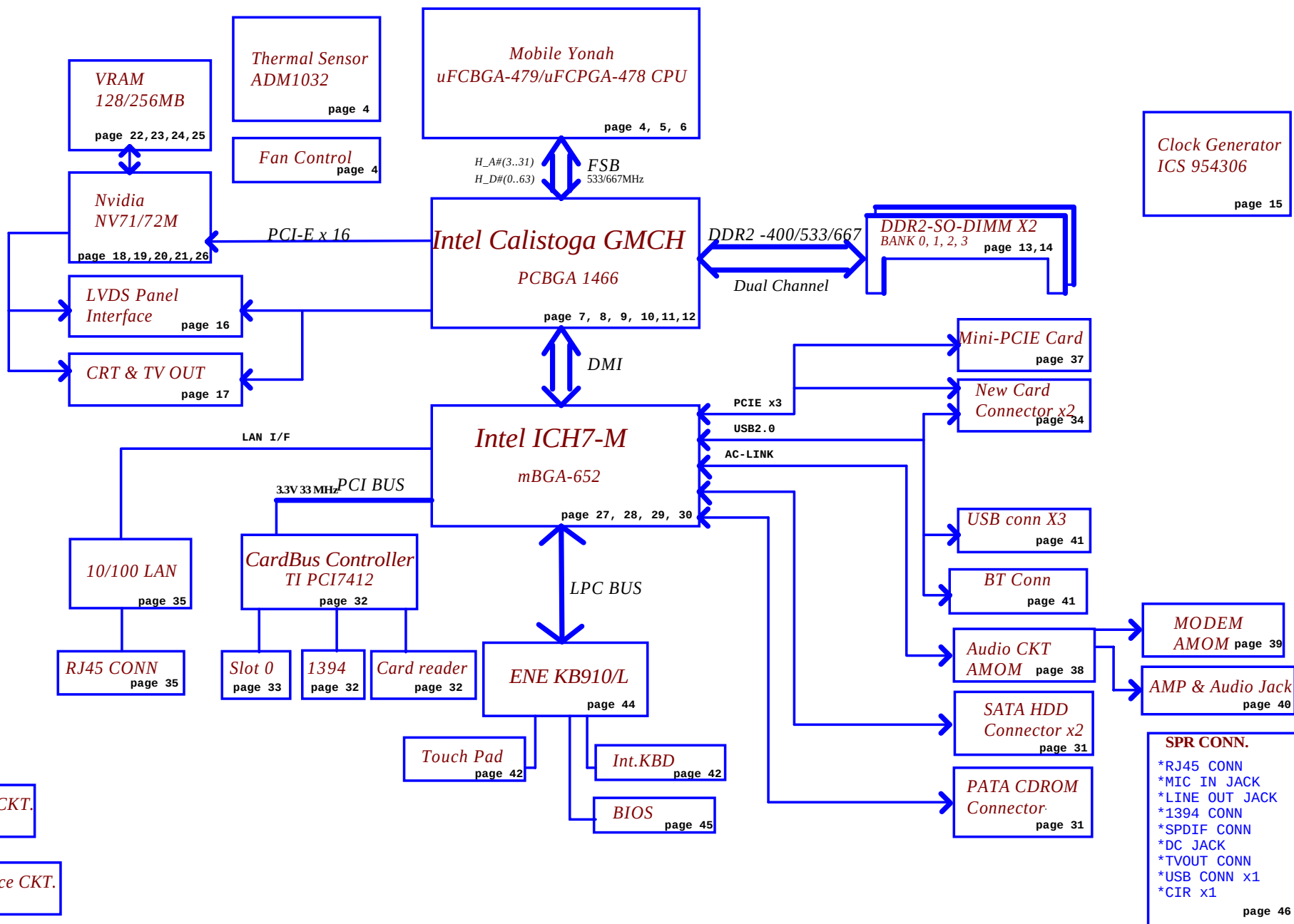
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Issued Date	2005/03/10	Deciphered Date	2006/03/10	Cover Sheet	
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PCB



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Voltage Rails

power plane State	+B LD03 LD05	+5VALW +3VALW	+1.8V +5V	+5VS +3VS +2.5VS +1.8VS +1.5VS +1.2VS +VGA_CORE +0.9VS +CPU_CORE +VCCP
S0	0	0	0	0
S1	0	0	0	0
S3	0	0	0	X
S5 S4/AC	0	0	X	X
S5 S4/ Battery only	0	X	X	X
S5 S4/AC & Battery don't exist	X	X	X	X

0 MEANS ON

X MEANS OFF

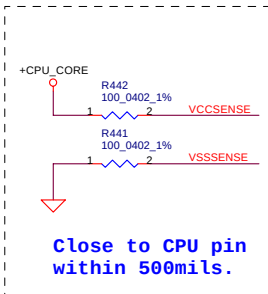
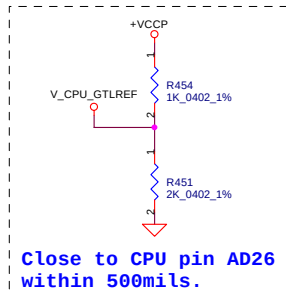
PCI Devices

EXTERNAL	IDSEL#	REQ/GNT#	PIRQ
CARD BUS & 1394	AD22	2	C,D,E,G

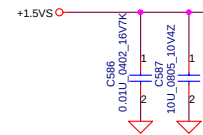
Load BOM check item

- 1.U31 GM/PM/GML part number
- 2.U6 ICH7 part number
- 3.VRAM part number and Page26 RAM_CFG[0:3]/PCI_DEVID[0:3] modify check
- 4.For NV73 R510/R75/R533/R168 change to 499ohm
- 5.U33 NV7x part number

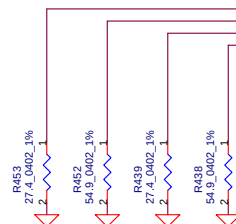
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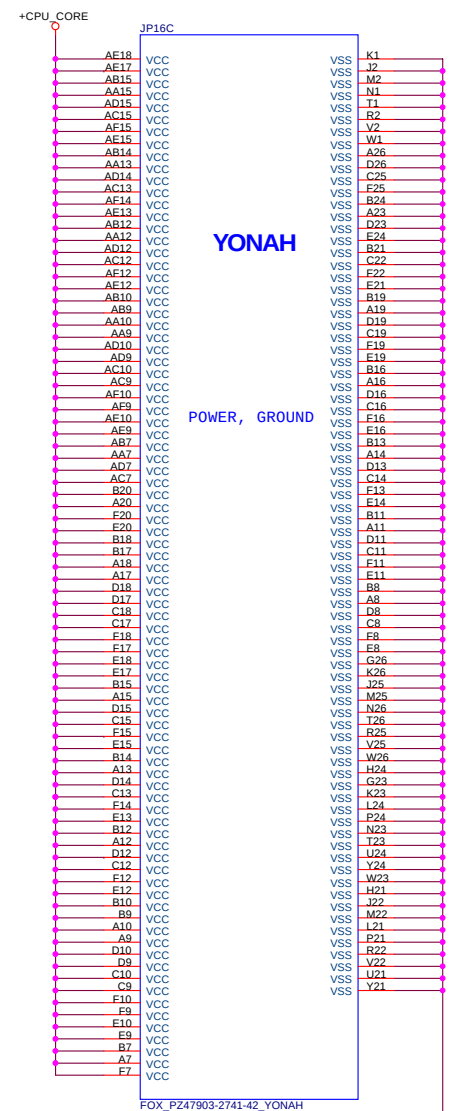
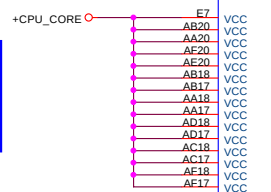
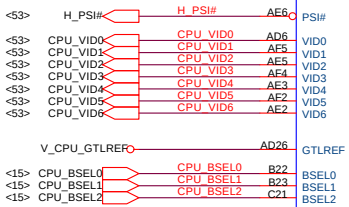
Length match within 25 mils
The trace width 18 mils space 7 mils

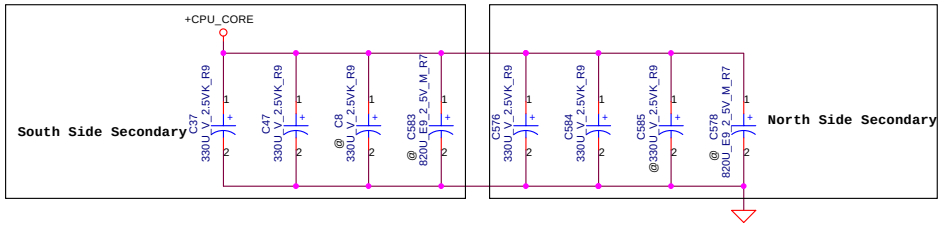
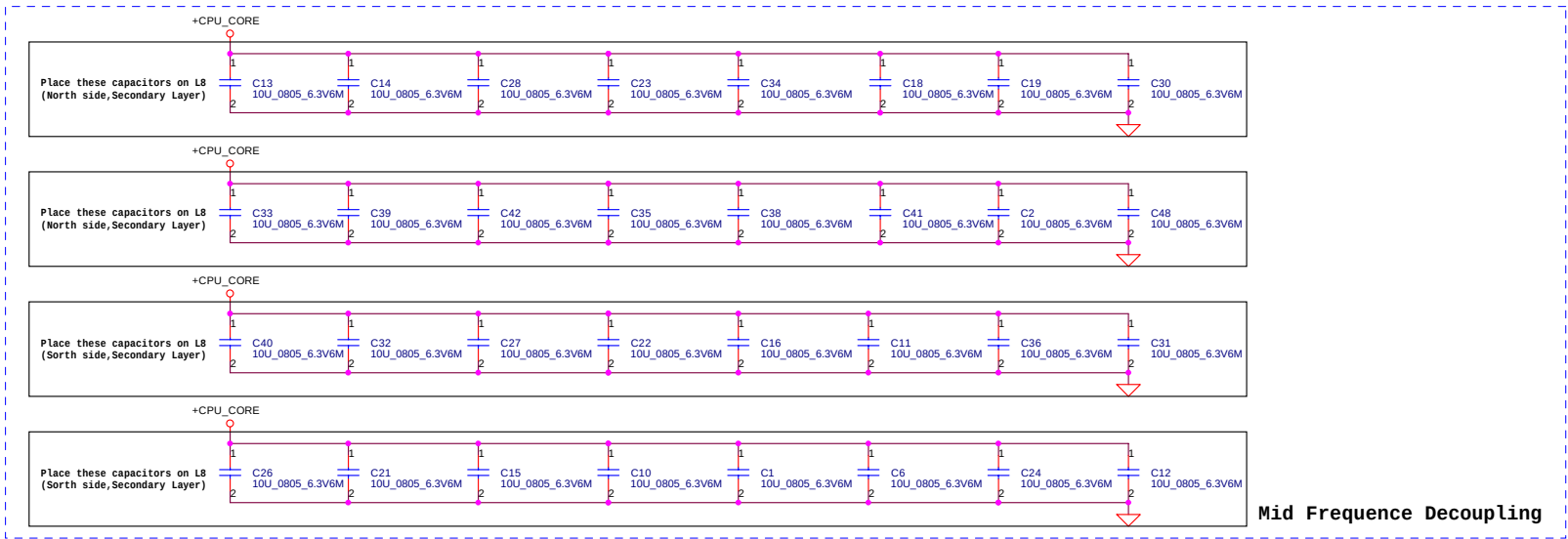


CPU_BSEL	CPU_BSEL2	CPU_BSEL1	CPU_BSEL0
133	0	0	1
166	0	1	1

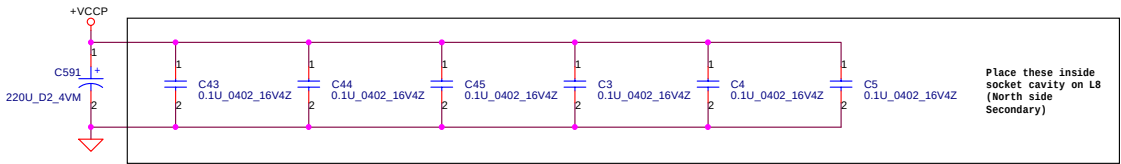


Resistor placed within 0.5" of CPU pin. Trace should be at least 25 mils away from any other toggling signal.

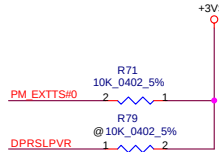
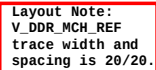
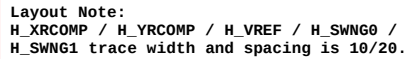




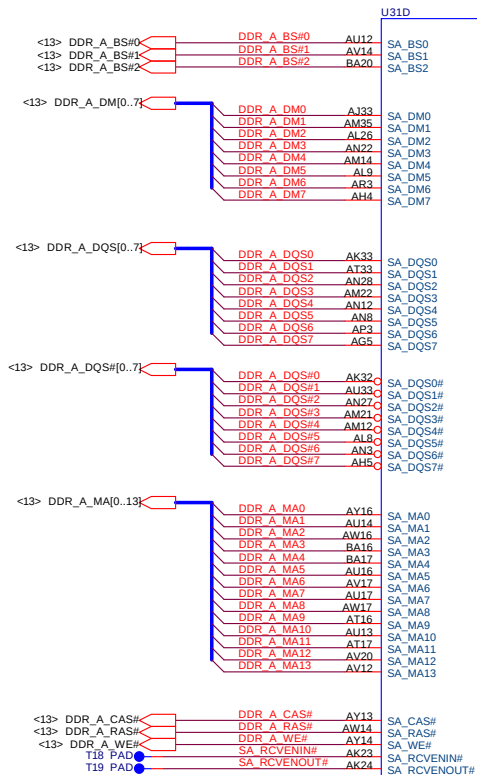
ESR <= 1.5m ohm
Capacitor > 1980uF



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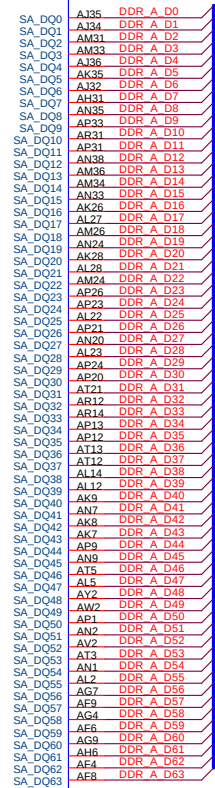
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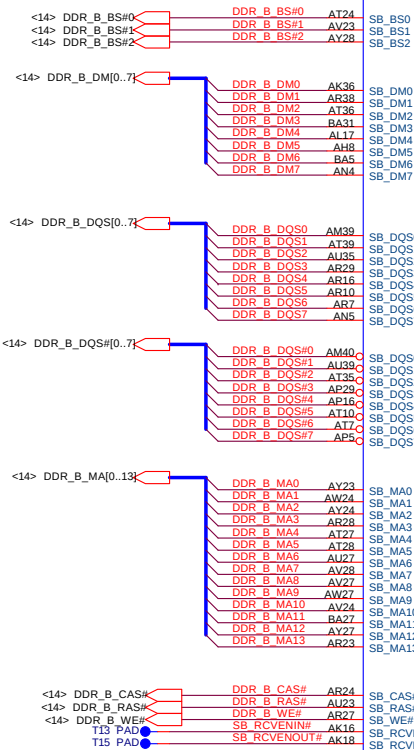
U31D

DDR SYS MEMORY A

CALISTOGA_FCBGA1466-D



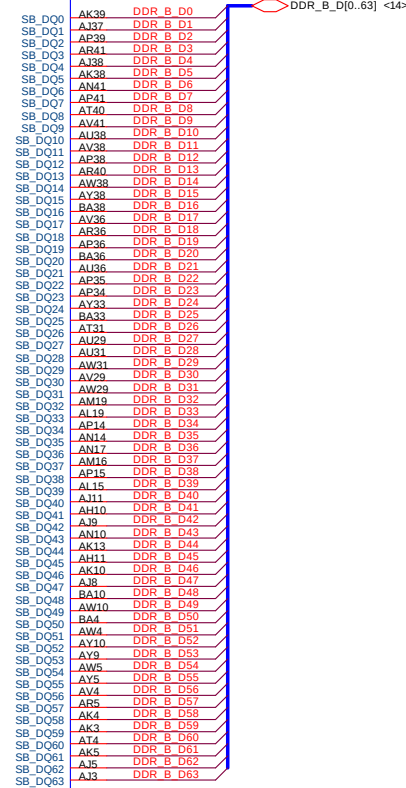
DDR_A_D[0..63] <13>



U31E

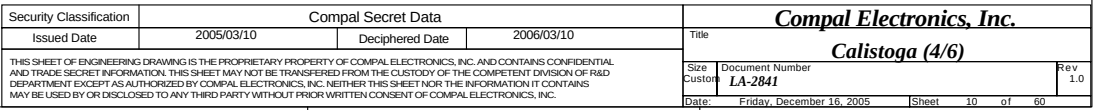
DDR SYS MEMORY B

CALISTOGA_FCBGA1466-D

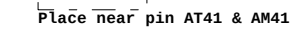


DDR_B_D[0..63] <14>

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				Calistoga (2/6)	

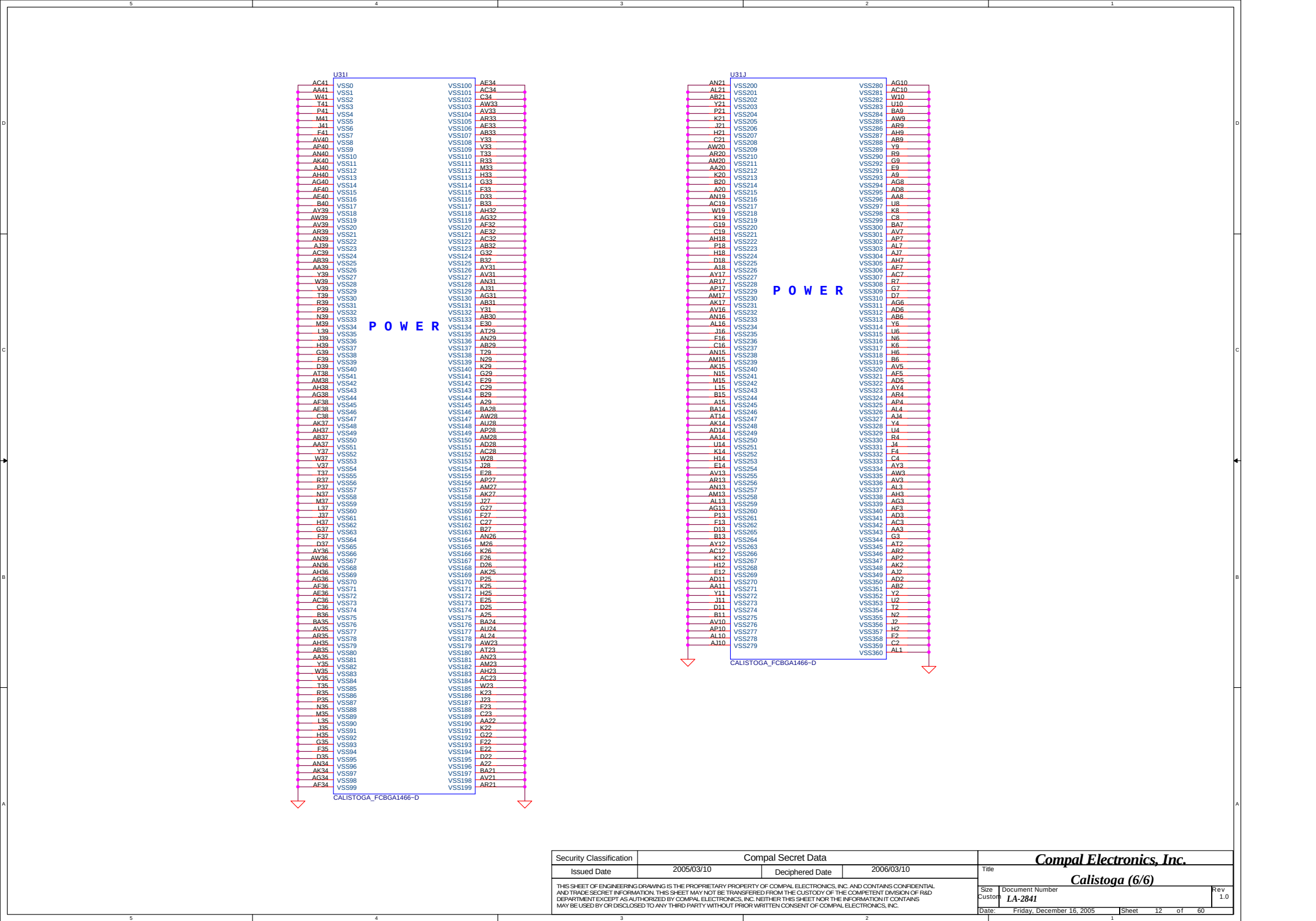


```
CFG[3:17] have internal pull up
CFG[19:18] have internal pull down
```

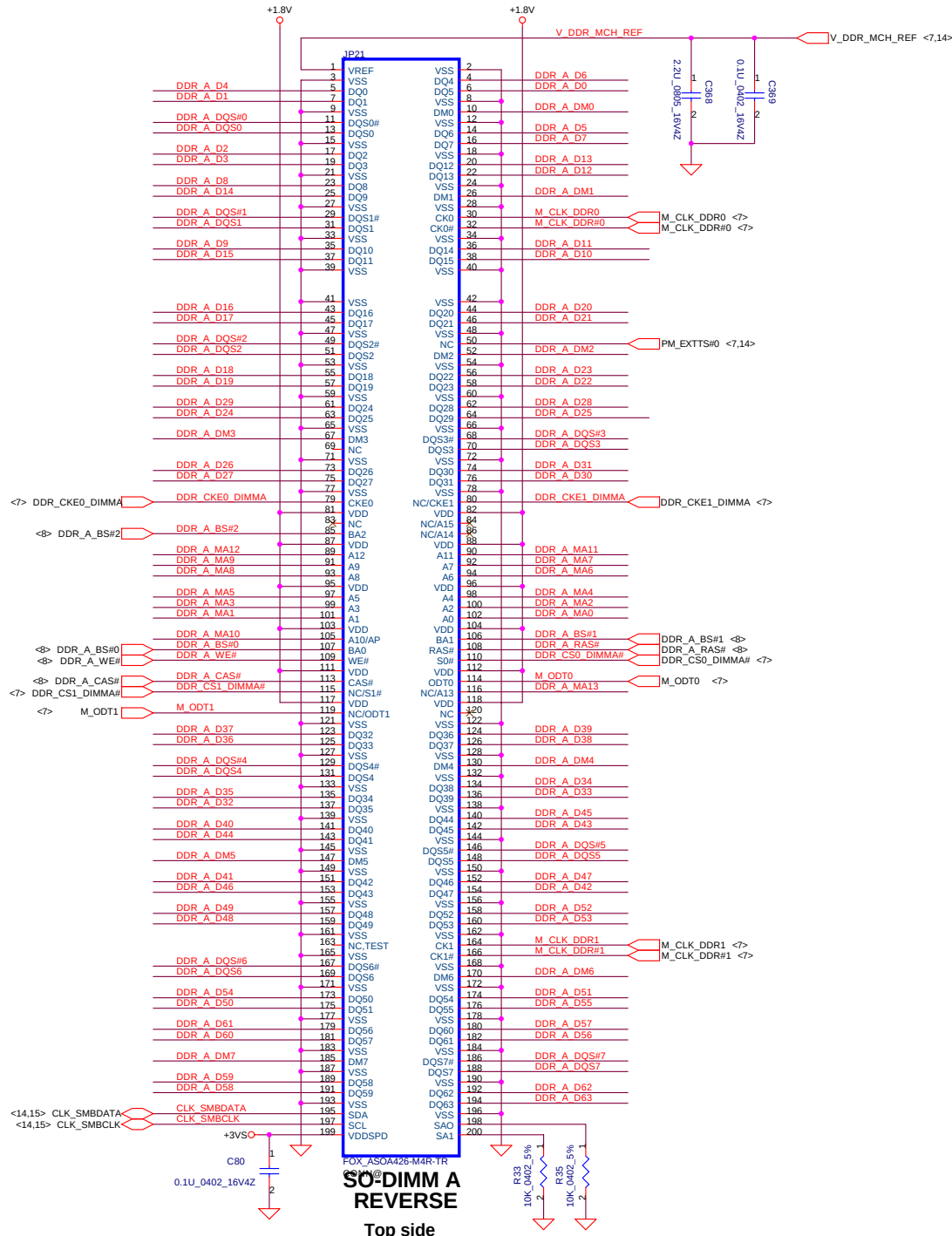
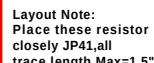
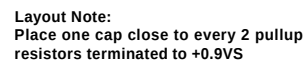
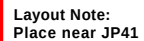


<T> CFG5 R48 1 2 @ 2.2K 0.402 5%
 <T> CFG7 R54 1 2 @ 2.2K 0.402 5%
 <T> CFG9 R51 1 2 @ 2.2K 0.402 5%
 <T> CFG11 R47 1 2 @ 2.2K 0.402 5%
 <T> CFG12 R49 1 2 @ 2.2K 0.402 5%
 <T> CFG13 R50 1 2 @ 2.2K 0.402 5%
 <T> CFG16 R53 1 2 @ 2.2K 0.402 5%
 +3V5
 <T> CFG18 R74 1 2 @ 1K 0.402 5%
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 <T> CFG20 R87 1 2 @ 1K 0.402 5%

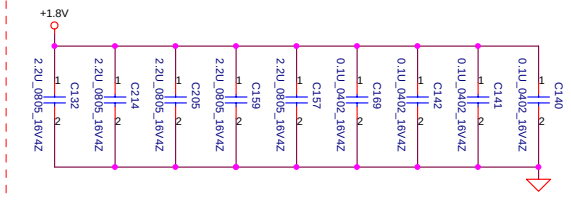
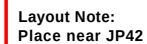
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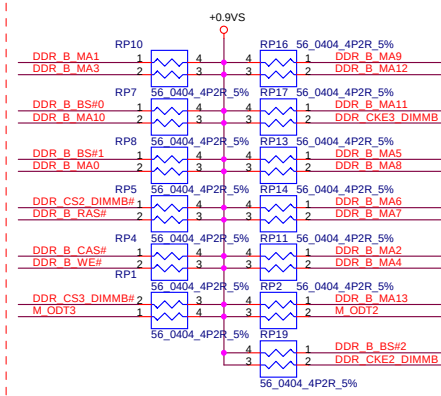
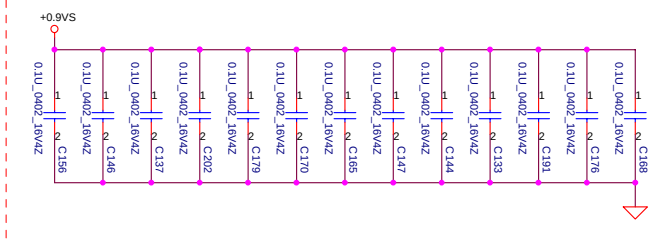
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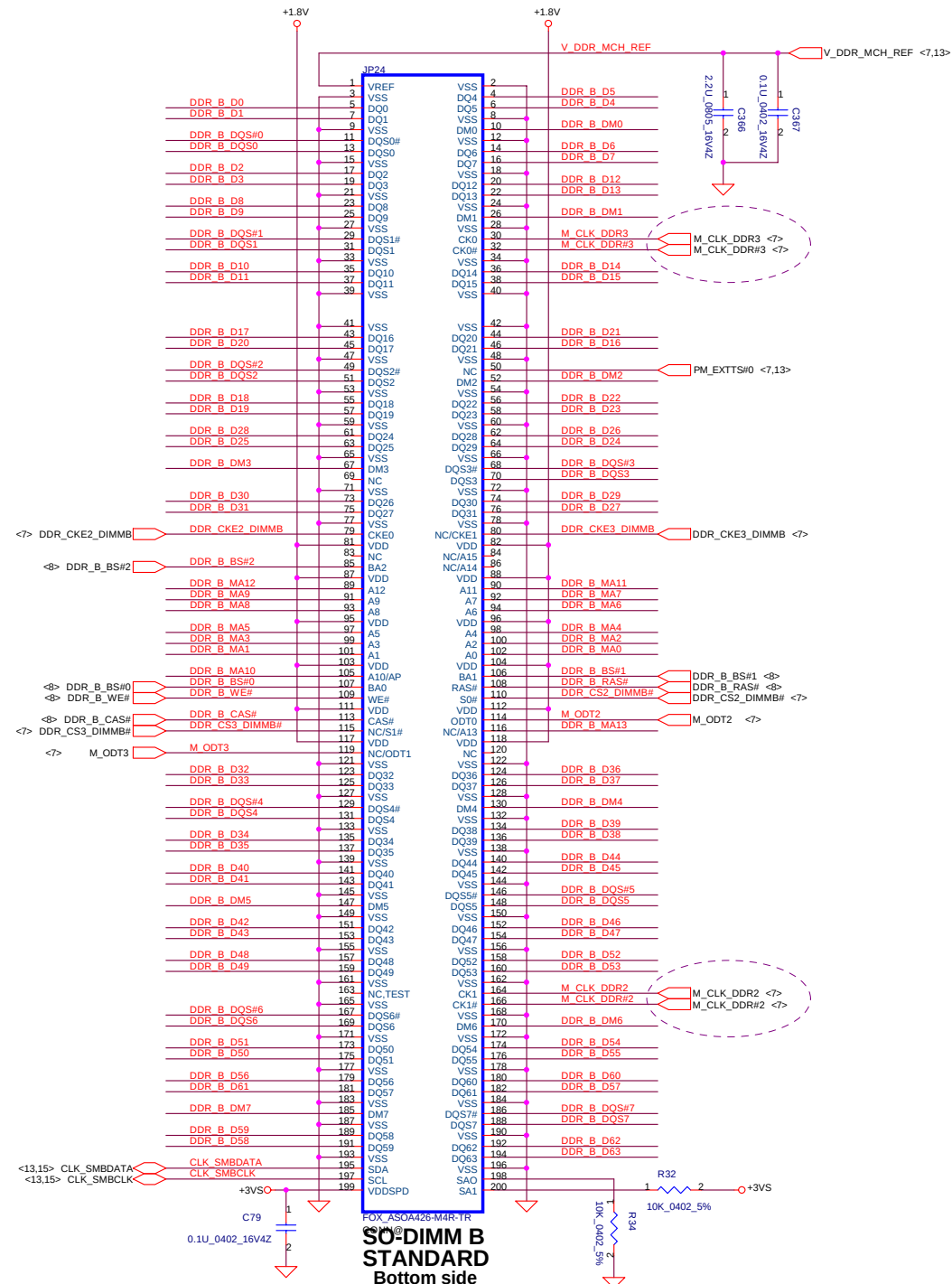
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Layout Note:
Place one cap close to every 2 pullup resistors terminated to +0.9VS



Layout Note:
Place these resistor
closely JP42,all
trace length Max=1.5"



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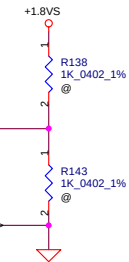
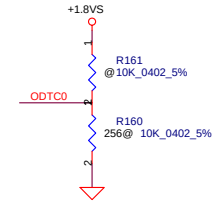
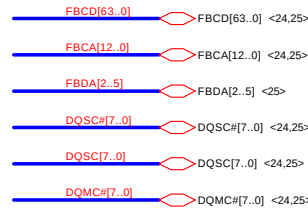
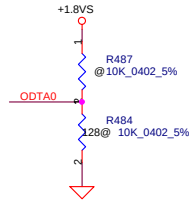
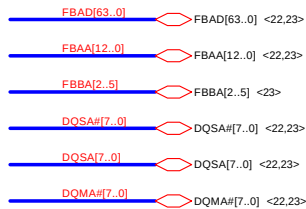
The image displays three circuit diagrams for the ACES_88107-40006 display driver.

Top Diagram (JP2 Connector): This diagram shows the connection of the JP2 connector. It includes signals for **WL_LED#**, **DISPOFF#**, **INVT_PWM**, **DAC_BRIG**, **EDID_CLK_LCD**, and **EDID_DAT_LCD**. Power pins are connected to **+5VS**, **+3VS**, **+LCDVDD**, and **INVPWR_B+**. The connector pins are labeled with LVDS signals (LVDSAC+, LVDSAC-, LVDSAC1+, LVDSAC1-, LVDSAC2+, LVDSAC2-, LVDSB1+, LVDSB1-, LVDSB2+, LVDSB2-, LVDSA0+, LVDSA0-, LVDSA1+, LVDSA1-, LVDSA2+, LVDSA2-) and their corresponding pin numbers (39-40, 37-38, 35-36, 33-34, 31-32, 29-30, 27-28, 25-26, 23-24, 21-22, 19-20, 17-18, 15-16, 13-14, 11-12, 9-10, 7-8, 5-6, 3-4, 1-2).

Middle Diagram (JP1 Connector): This diagram shows the connection of the JP1 connector. It includes signals for **LCD_I2C_CLK_C** and **LCD_I2C_DAT_C**. Power pins are connected to **+5VS**, **+3VS**, **+LCDVDD**, and **INVPWR_B+**. The connector pins are labeled with LVDS signals (LVDS AC-, LVDS AC+, LVDS A2+, LVDS A2-, LVDS A1+, LVDS A1-, LVDS A0+, LVDS A0-, LVDS B1-, LVDS B1+, LVDS B2+, LVDS B2-, LVDS B0+, LVDS B0-, LVDS BC+, LVDS BC-) and their corresponding pin numbers (39-40, 37-38, 35-36, 33-34, 31-32, 29-30, 27-28, 25-26, 23-24, 21-22, 19-20, 17-18, 15-16, 13-14, 11-12, 9-10, 7-8, 5-6, 3-4, 1-2).

Bottom Diagram (Internal Circuitry): This diagram shows the internal circuitry of the display driver. It includes a network of resistors (R428, R429, R430, R431, R432, R433, R434, R435, R436, R437, R438, R439, R440, R441, R442, R443, R444, R445, R446, R447, R448, R449, R450, R451, R452, R453, R454, R455, R456, R457, R458, R459, R460, R461, R462, R463, R464, R465, R466, R467, R468, R469, R470, R471, R472, R473, R474, R475, R476, R477, R478, R479, R480, R481, R482, R483, R484, R485, R486, R487, R488, R489, R490, R491, R492, R493, R494, R495, R496, R497, R498, R499, R500, R501, R502, R503, R504, R505, R506, R507, R508, R509, R510, R511, R512, R513, R514, R515, R516, R517, R518, R519, R520, R521, R522, R523, R524, R525, R526, R527, R528, R529, R530, R531, R532, R533, R534, R535, R536, R537, R538, R539, R540, R541, R542, R543, R544, R545, R546, R547, R548, R549, R550, R551, R552, R553, R554, R555, R556, R557, R558, R559, R560, R561, R562, R563, R564, R565, R566, R567, R568, R569, R570, R571, R572, R573, R574, R575, R576, R577, R578, R579, R580, R581, R582, R583, R584, R585, R586, R587, R588, R589, R590, R591, R592, R593, R594, R595, R596, R597, R598, R599, R600, R601, R602, R603, R604, R605, R606, R607, R608, R609, R610, R611, R612, R613, R614, R615, R616, R617, R618, R619, R620, R621, R622, R623, R624, R625, R626, R627, R628, R629, R630, R631, R632, R633, R634, R635, R636, R637, R638, R639, R640, R641, R642, R643, R644, R645, R646, R647, R648, R649, R650, R651, R652, R653, R654, R655, R656, R657, R658, R659, R660, R661, R662, R663, R664, R665, R666, R667, R668, R669, R670, R671, R672, R673, R674, R675, R676, R677, R678, R679, R680, R681, R682, R683, R684, R685, R686, R687, R688, R689, R690, R691, R692, R693, R694, R695, R696, R697, R698, R699, R700, R701, R702, R703, R704, R705, R706, R707, R708, R709, R710, R711, R712, R713, R714, R715, R716, R717, R718, R719, R720, R721, R722, R723, R724, R725, R726, R727, R728, R729, R730, R731, R732, R733, R734, R735, R736, R737, R738, R739, R740, R741, R742, R743, R744, R745, R746, R747, R748, R749, R750, R751, R752, R753, R754, R755, R756, R757, R758, R759, R760, R761, R762, R763, R764, R765, R766, R767, R768, R769, R770, R771, R772, R773, R774, R775, R776, R777, R778, R779, R780, R781, R782, R783, R784, R785, R786, R787, R788, R789, R790, R791, R792, R793, R794, R795, R796, R797, R798, R799, R800, R801, R802, R803, R804, R805, R806, R807, R808, R809, R810, R811, R812, R813, R814, R815, R816, R817, R818, R819, R820, R821, R822, R823, R824, R825, R826, R827, R828, R829, R830, R831, R832, R833, R834, R835, R836, R837, R838, R839, R840, R841, R842, R843, R844, R845, R846, R847, R848, R849, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R860, R861, R862, R863, R864, R865, R866, R867, R868, R869, R870, R871, R872, R873, R874, R875, R876, R877, R878, R879, R880, R881, R882, R883, R884, R885, R886, R887, R888, R889, R890, R891, R892, R893, R894, R895, R896, R897, R898, R899, R900, R901, R902, R903, R904, R905, R906, R907, R908, R909, R910, R911, R912, R913, R914, R915, R916, R917, R918, R919, R920, R921, R922, R923, R924, R925, R926, R927, R928, R929, R930, R931, R932, R933, R934, R935, R936, R937, R938, R939, R940, R941, R942, R943, R944, R945, R946, R947, R948, R949, R950, R951, R952, R953, R954, R955, R956, R957, R958, R959, R960, R961, R962, R963, R964, R965, R966, R967, R968, R969, R970, R971, R972, R973, R974, R975, R976, R977, R978, R979, R980, R981, R982, R983, R984, R985, R986, R987, R988, R989, R990, R991, R992, R993, R994, R995, R996, R997, R998, R999, R1000, R1001, R1002, R1003, R1004, R1005, R1006, R1007, R1008, R1009, R1010, R1011, R1012, R1013, R1014, R1015, R1016, R1017, R1018, R1019, R1020, R1021, R1022, R1023, R1024, R1025, R1026, R1027, R1028, R1029, R1030, R1031, R1032, R1033, R1034, R1035, R1036, R1037, R1038, R1039, R1040, R1041, R1042, R1043, R1044, R1045, R1046, R1047, R1048, R1049, R1050, R1051, R1052, R1053, R1054, R1055, R1056, R1057, R1058, R1059, R1060, R1061, R1062, R1063, R1064, R1065, R1066, R10

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Issued Date	2005/03/10	Deciphered Date	2006/03/10	G72/73VGA Board	
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VID_PLLVDD, PLLVDD, IFPAB_PLLVDD at G71/72 is +2.5VS

(+1.1VS)

+VGA_CORE

U33E

Part 5 of 6

PEX_IOVDDQ_0

PEX_IOVDDQ_1

PEX_IOVDDQ_2

PEX_IOVDDQ_3

PEX_IOVDDQ_4

PEX_IOVDDQ_5

PEX_IOVDDQ_6

PEX_IOVDDQ_7

PEX_IOVDDQ_8

PEX_IOVDDQ_9

PEX_IOVDDQ_10

PEX_PLLA

PEX_PLLVDD

PEX_PLLVDDQ

PEX_PLLVDDQ_1

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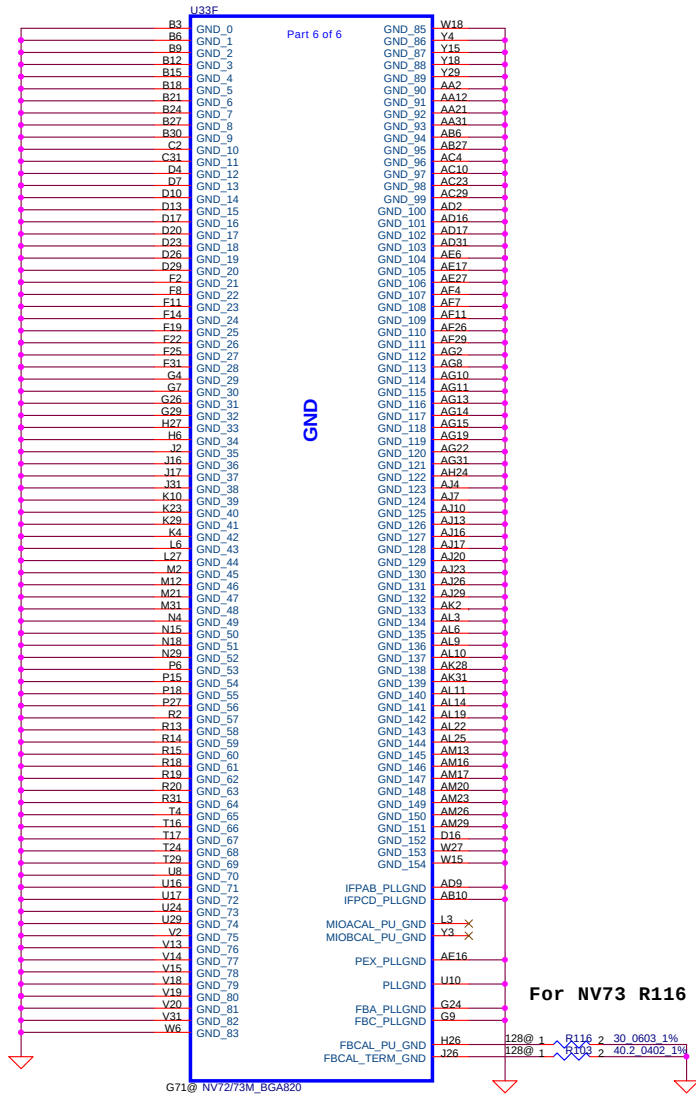
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PEX_PLLVDDQ_261

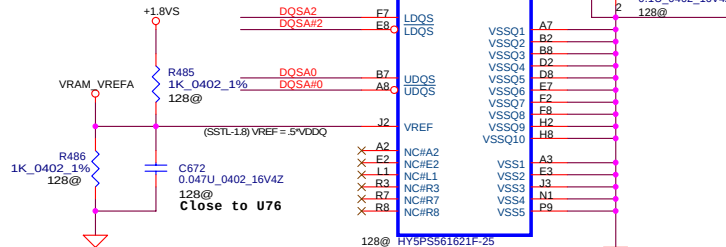
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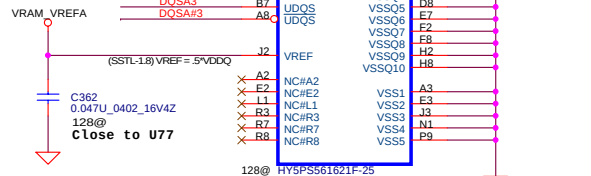
PEX_PLLVDDQ_264



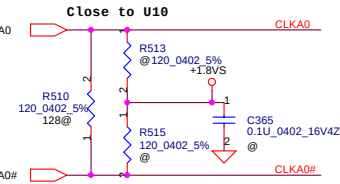
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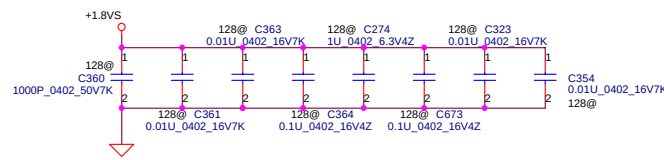
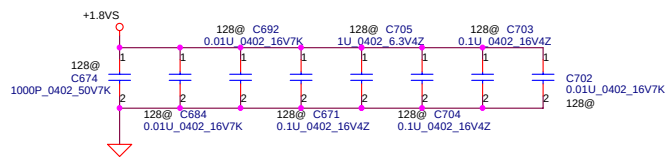
DDR2 BGA MEMORY



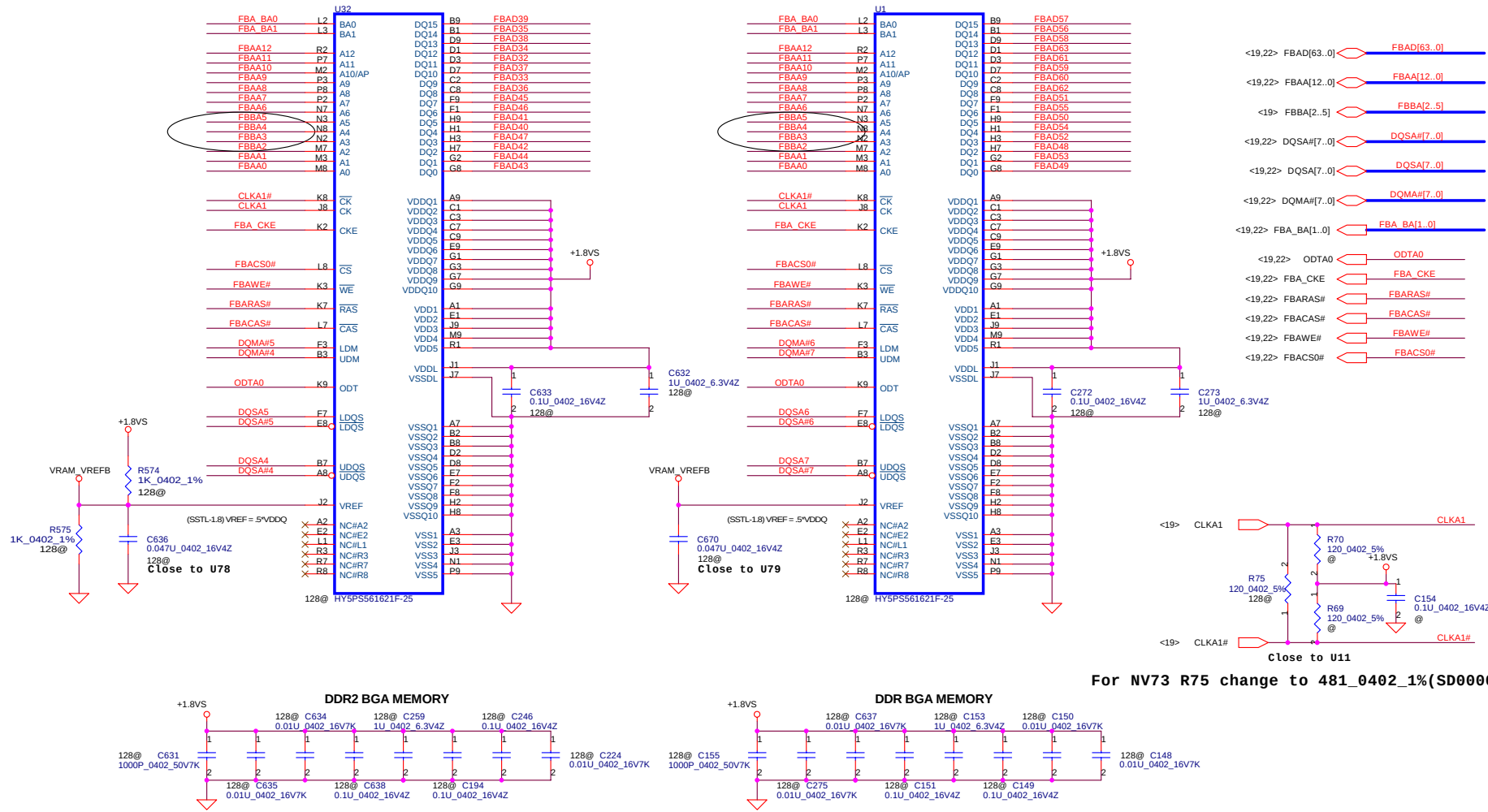
DDR2 BGA MEMORY

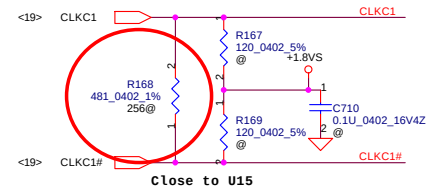
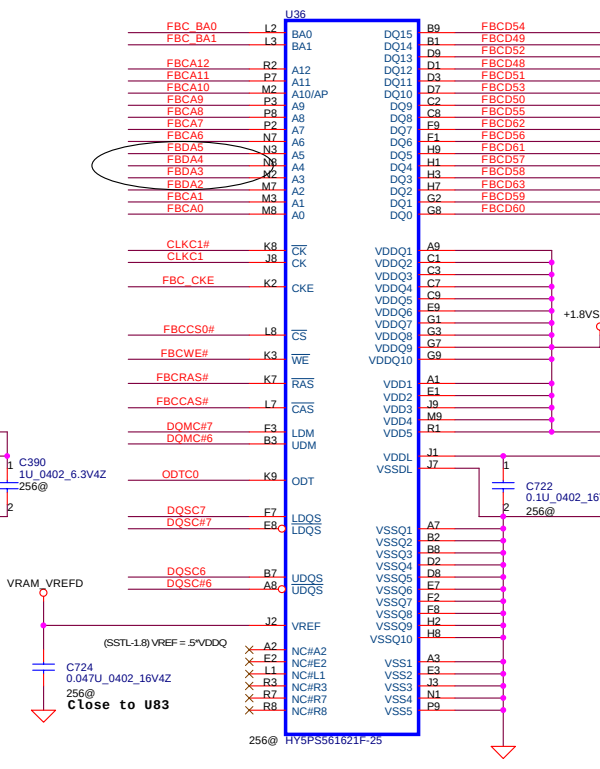


For NV73 R510 change to 481_0402_1%(SD000000CA80)

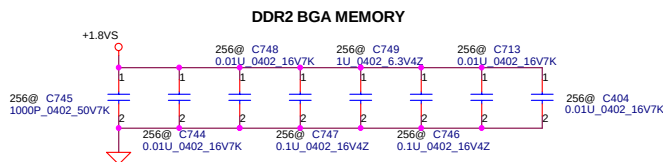


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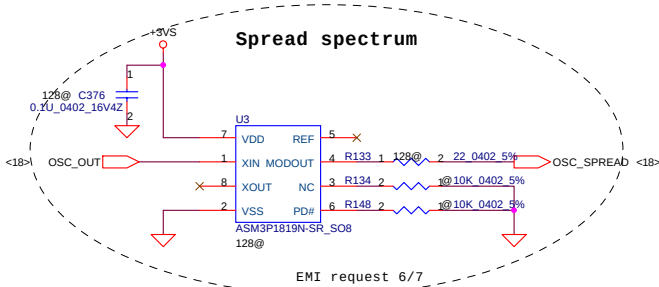
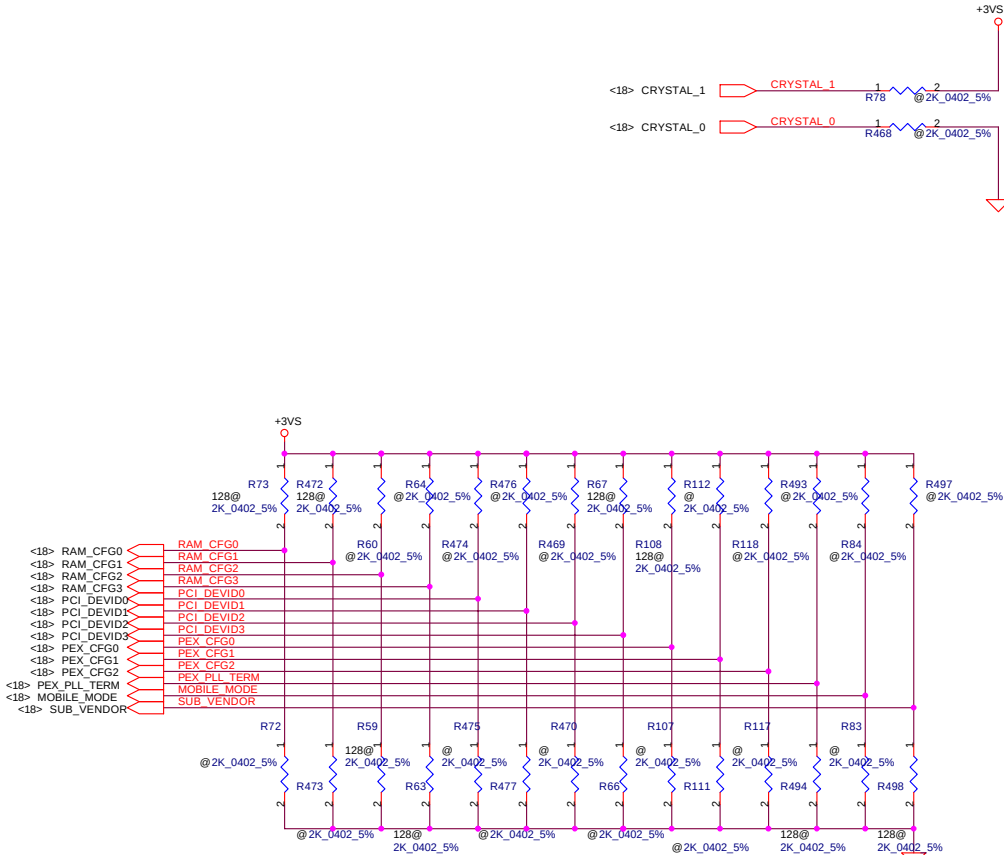


Close to U15

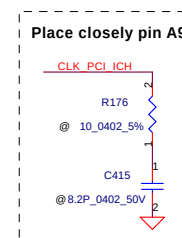
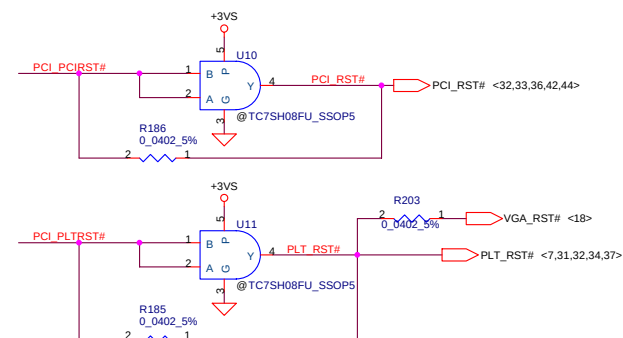
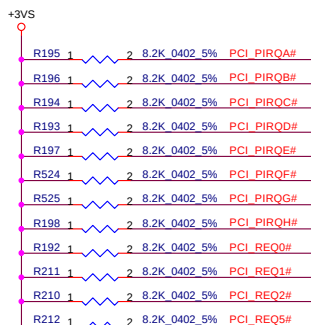


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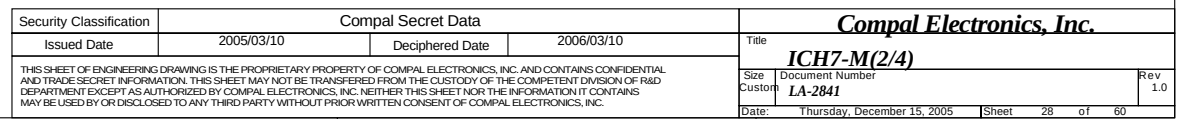
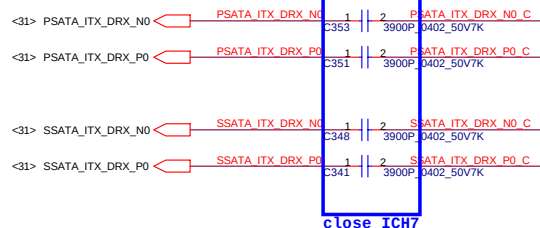
STRAPS	PIN	DESCRIPTION	Value	
CRYSTAL[1:0]	MI0BD[6,2]	27MHz=10, 14.318MHz=01, 13.5MHz=00	10	
ROM_TYPE[1:0]	MI0BD[11:10]	Parallel=00, SERIAL M25P10=01, Serial SST45VF=10	01	
SUB_VENDOR	MI0AD1	VBIOS on card (pull high) VBIOS with system BIOS (pull down)	0	
PEX_PLL_TERM	MI0AD0		0	
PEX_CFG[2:0]	MI0AD[9,8,6]	Overridden	001	
RAM_CFG[3:0]		16Mx16 (1.8V or 2.5V)Hynix X 4pcs	0011	
		16Mx16 (1.8V or 2.5V)Infineon X 4pcs	0010	
		16Mx16 (1.8V or 2.5V)Samsung X 4pcs	0001	
		16Mx16 (1.8V or 2.5V)Hynix X 8pcs	1011	
		16Mx16 (1.8V or 2.5V)Infineon X 8pcs	1010	
		16Mx16 (1.8V or 2.5V)Samsung X 8pcs	1001	
PCI_DEVID[3:0]	A01 VTPD[5:3] MIOA_HSYNC	NV72M	1000	
		NV73M	1000	

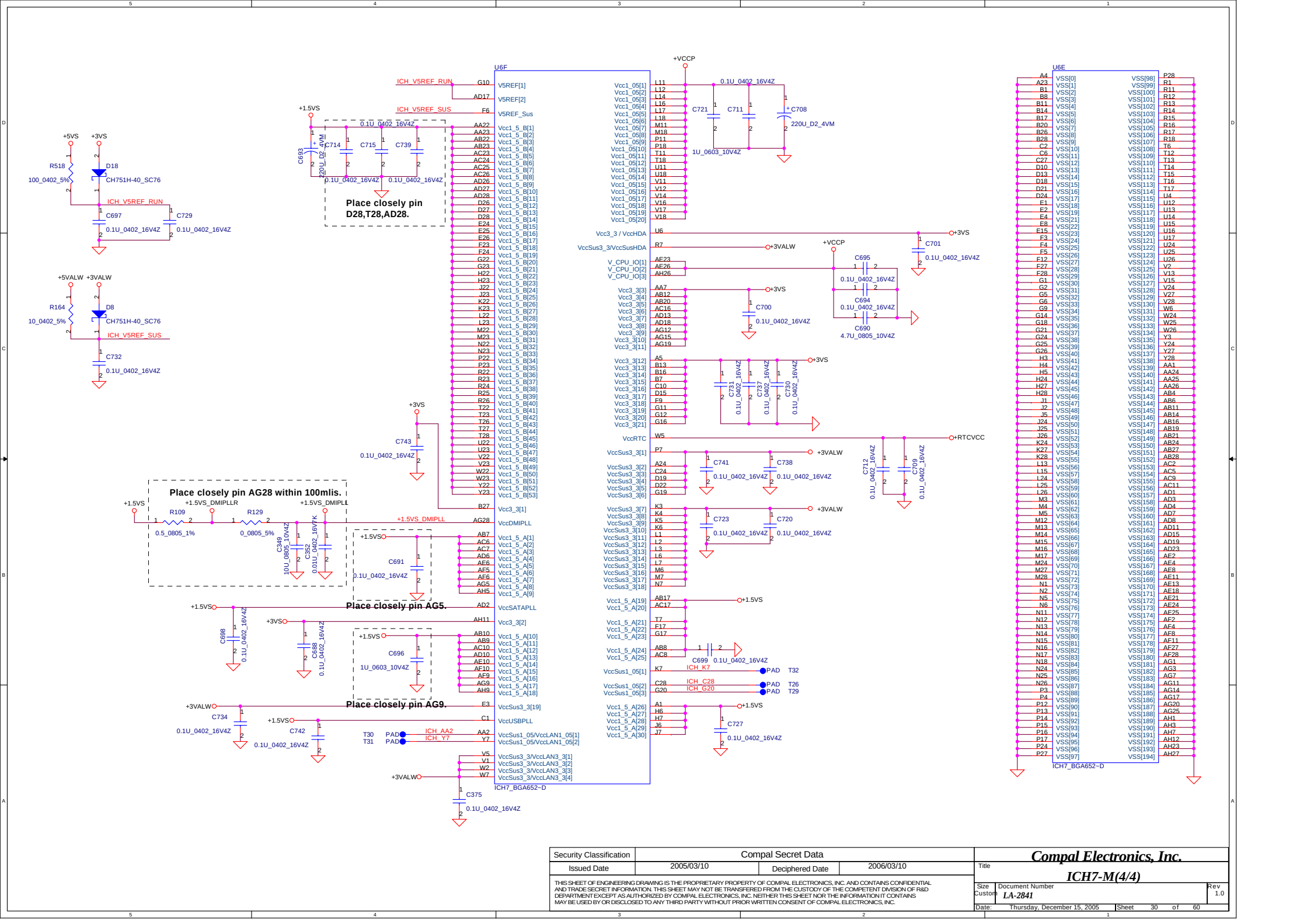


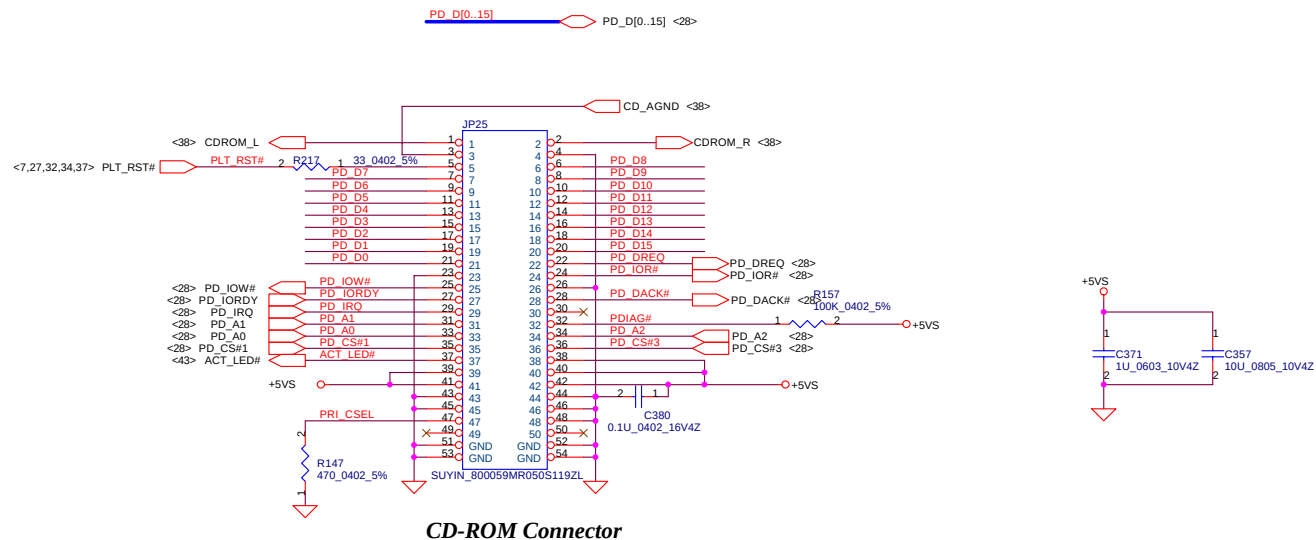
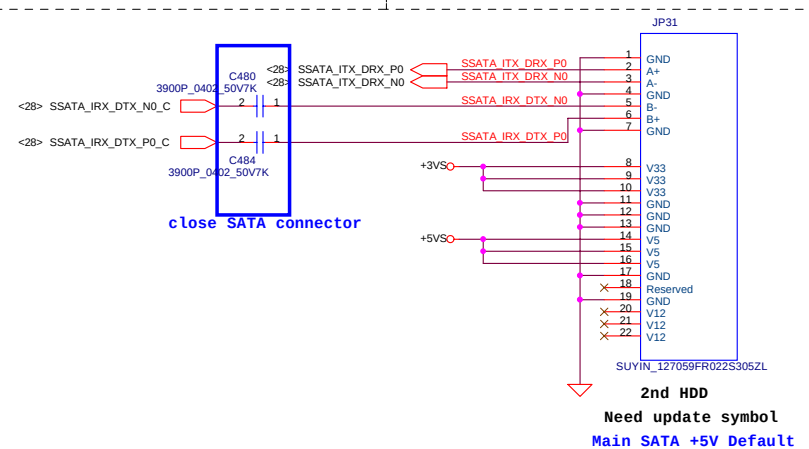
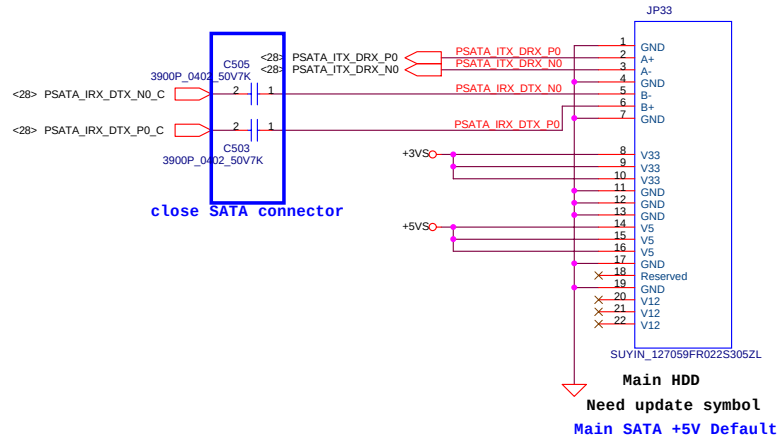
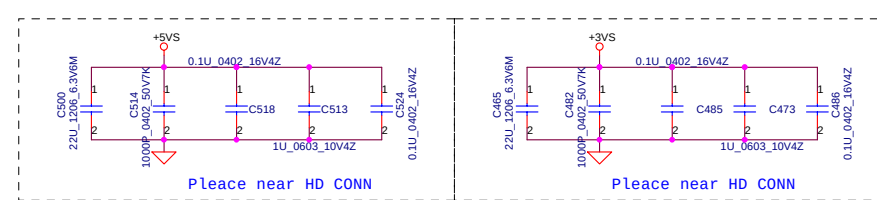
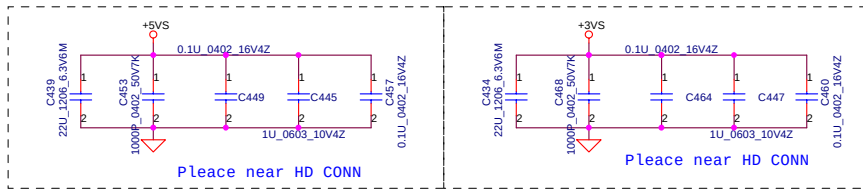
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				Sheet	26 of 60
				Rev	1.0



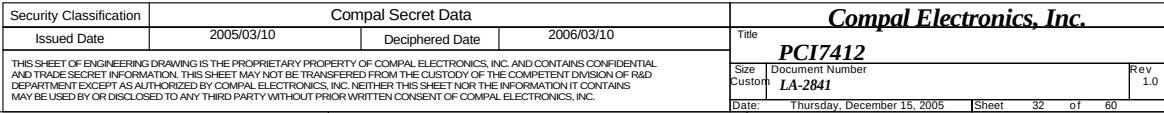
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				Size	Document Number		Rev	
				LA-2841		1.		
Date:				Thursday, December 15, 2005		Sheet 27 of 60		



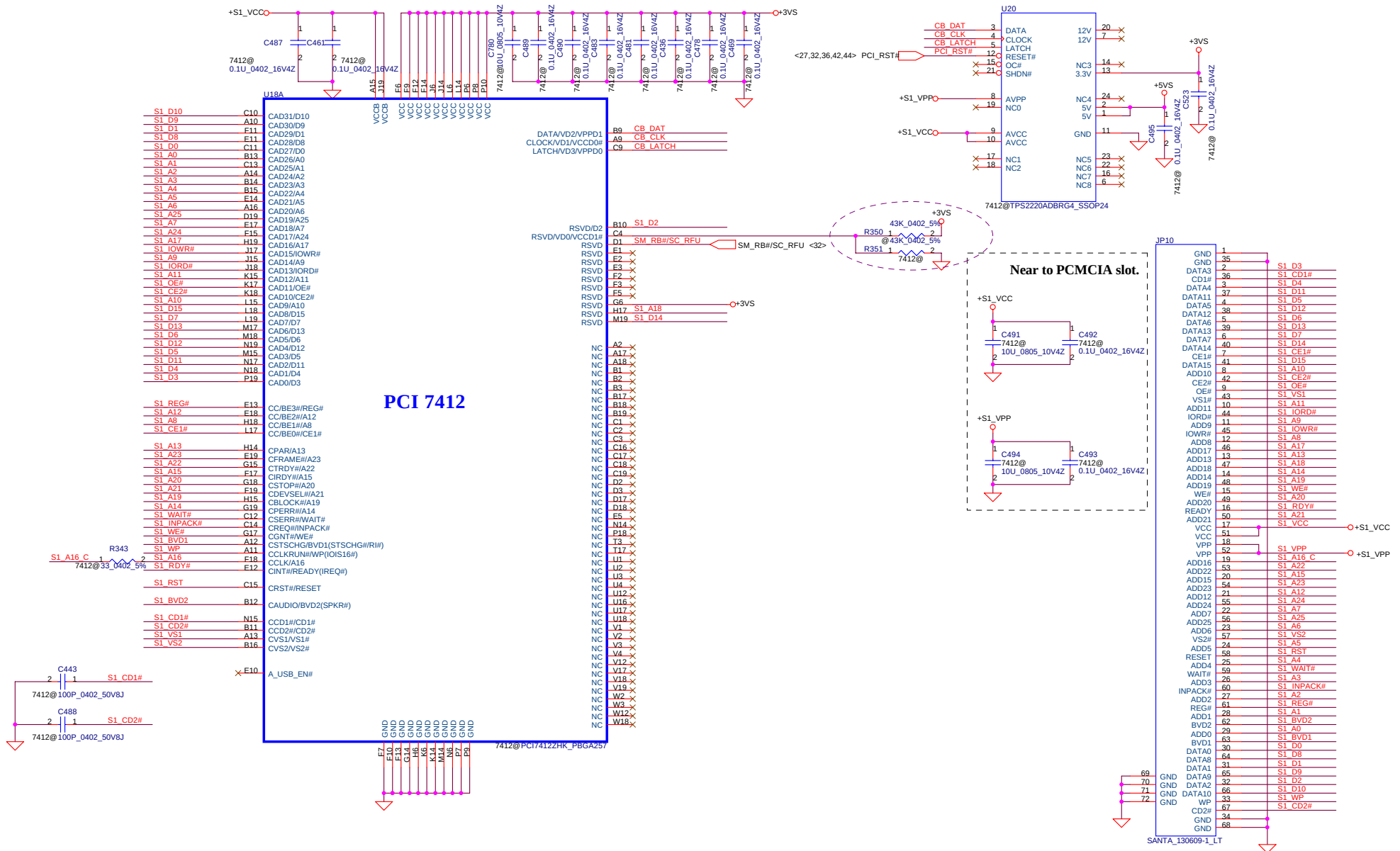




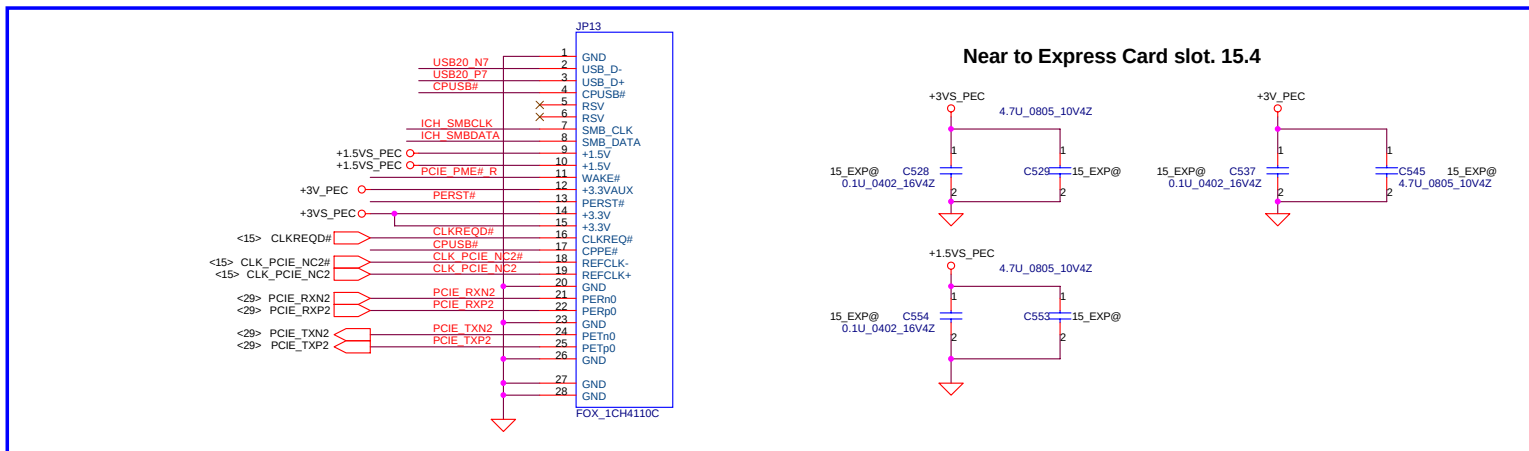
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CardBus Power Switch



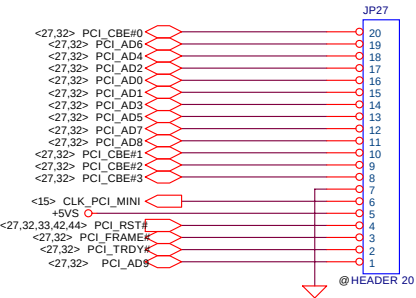
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				Date:	Thursday, December 15, 2005	Sheet 34 of 60

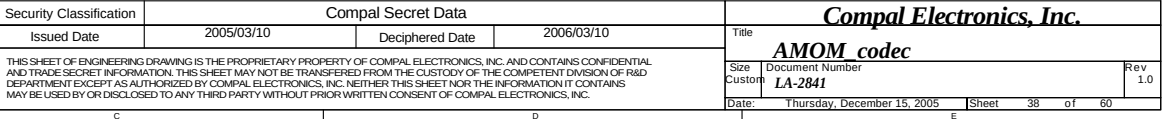
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				Cust	LA-2841	1.0	
				Date:	Thursday, December 15, 2005	Sheet	35 of 60

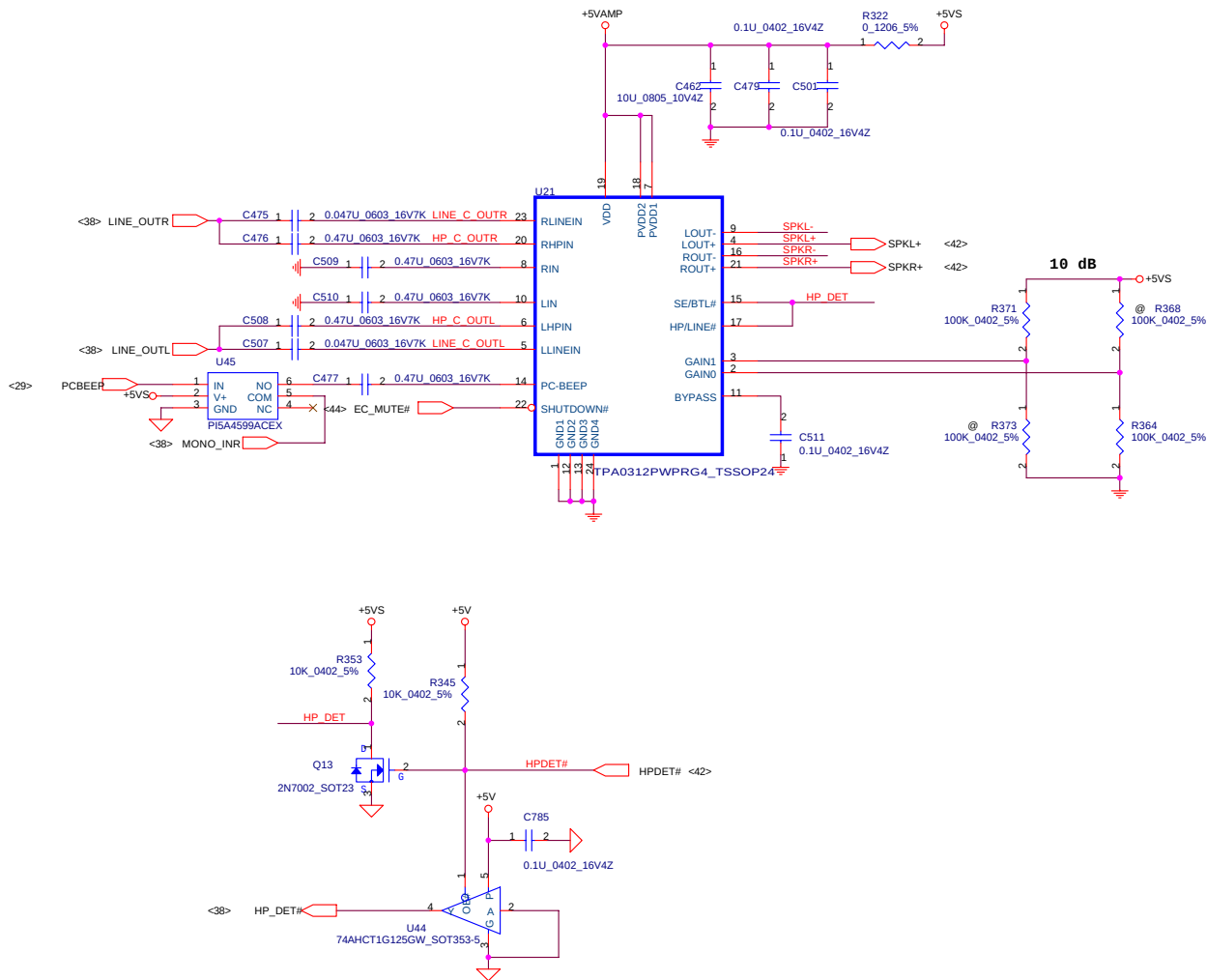
Port 80 Debug Card Connector



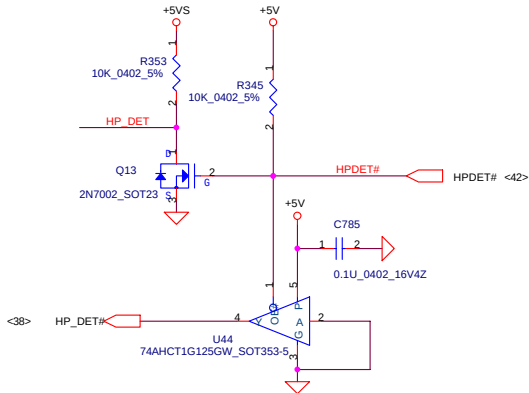
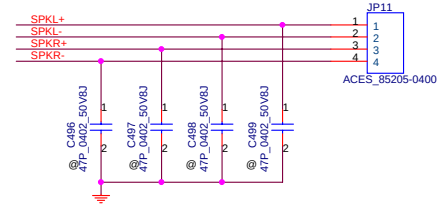
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				Size	Document Number		Rev
				LA-2841			1.0
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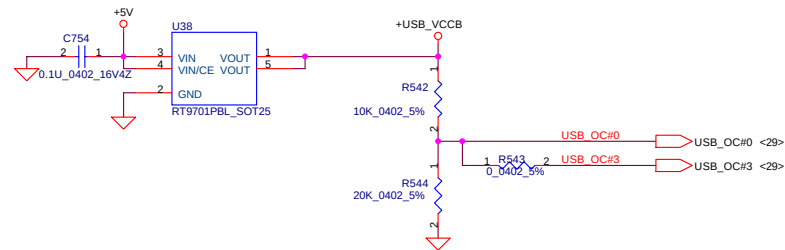




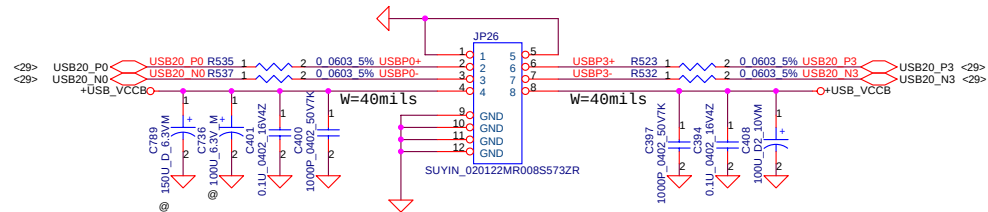
Gain Settings			
GAIN0	GAIN1	SE/BTL#	Av(inv)
0	0	0	6 dB
0	1	0	* 10 dB
1	0	0	15.6 dB
1	1	0	21.6 dB
X	X	1	4.1 dB



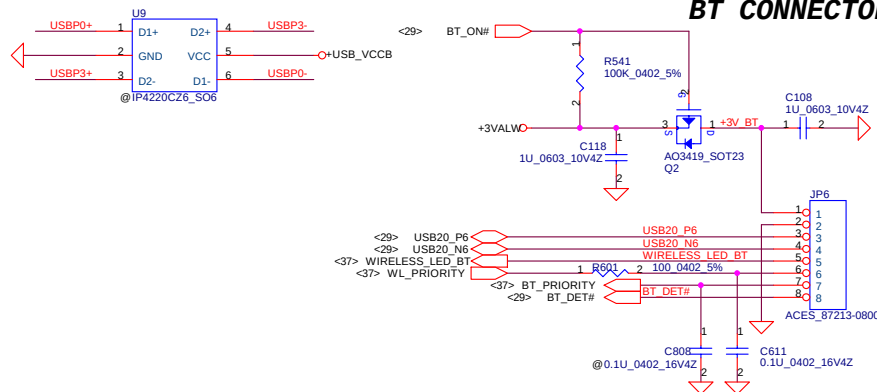
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Issued Date	2005/03/10	Deciphered Date	2006/03/10	AMP & Audio Jack	
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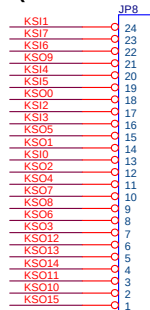
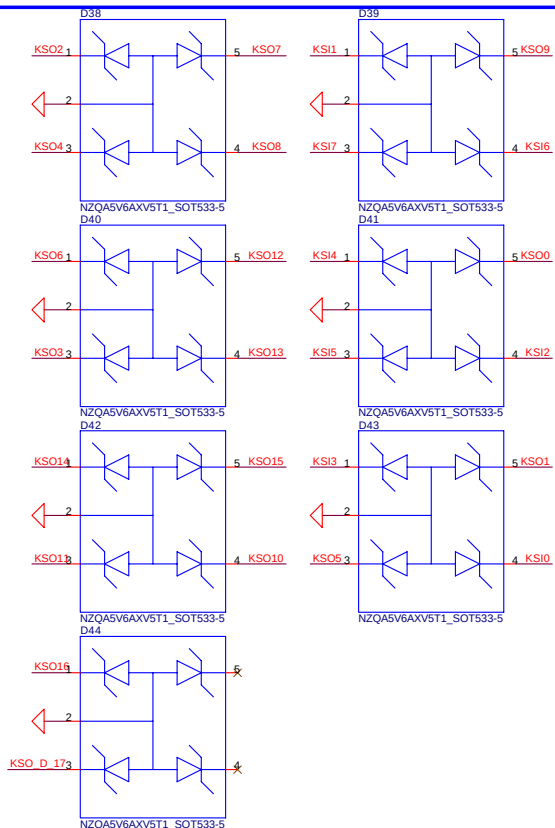
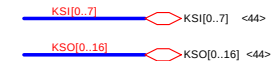
USB CONNECTOR (Left side)



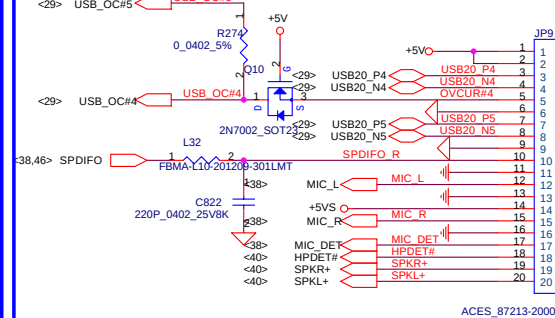
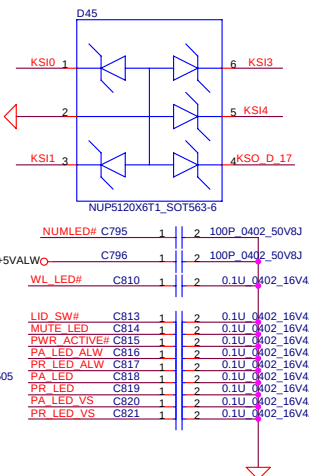
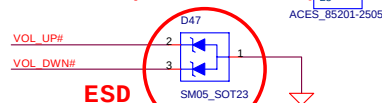
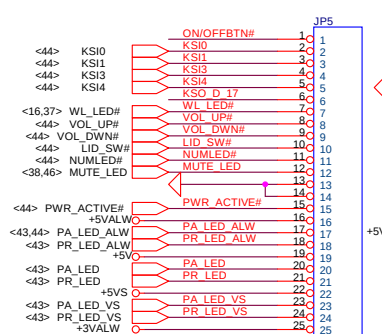
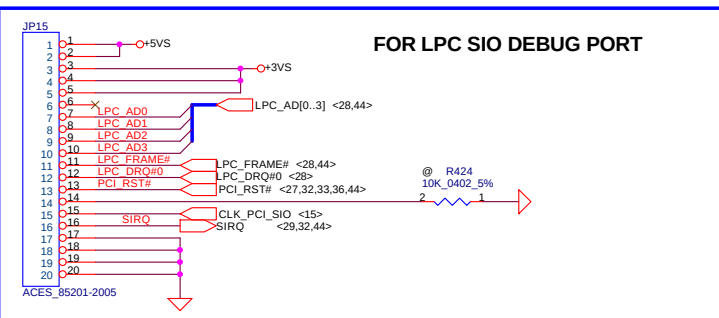
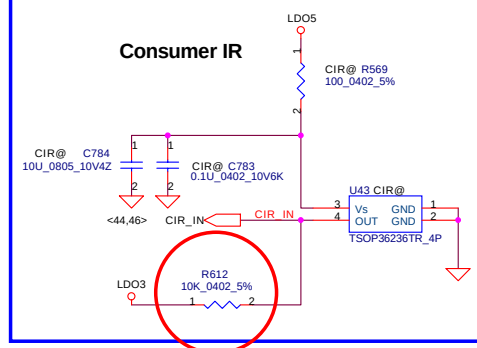
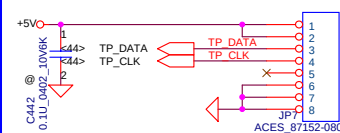
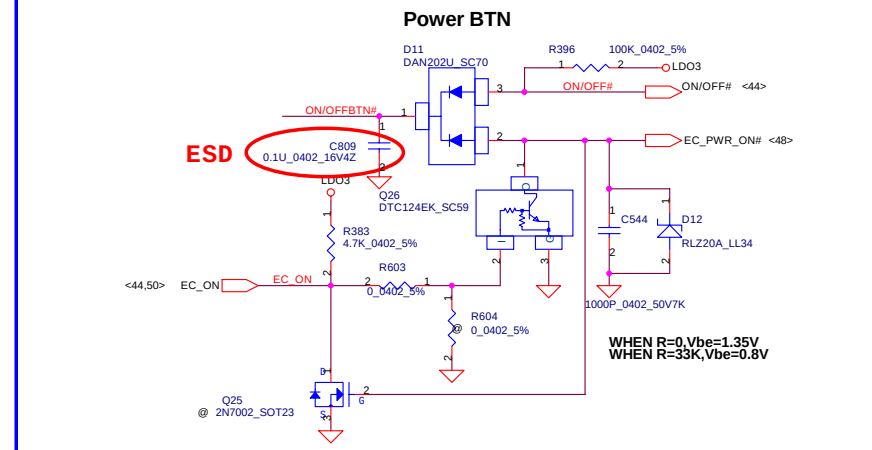
BT CONNECTOR



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ACES 85201-2405

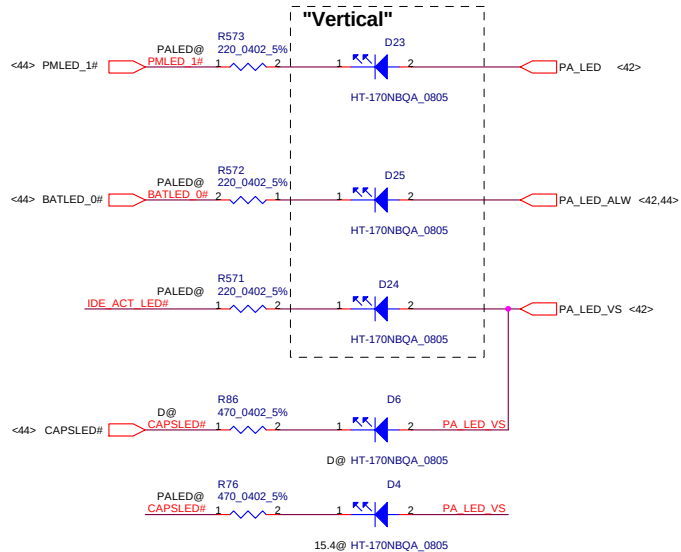


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				Date:	Thursday, December 15, 2005
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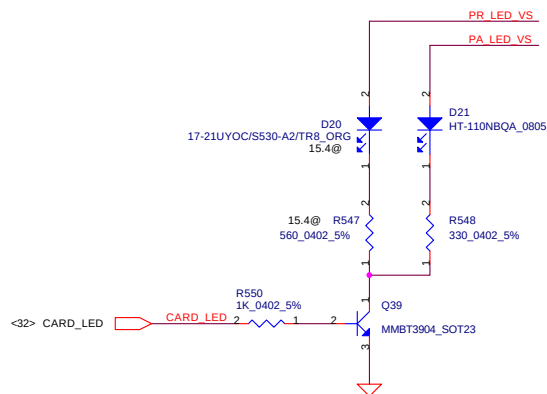
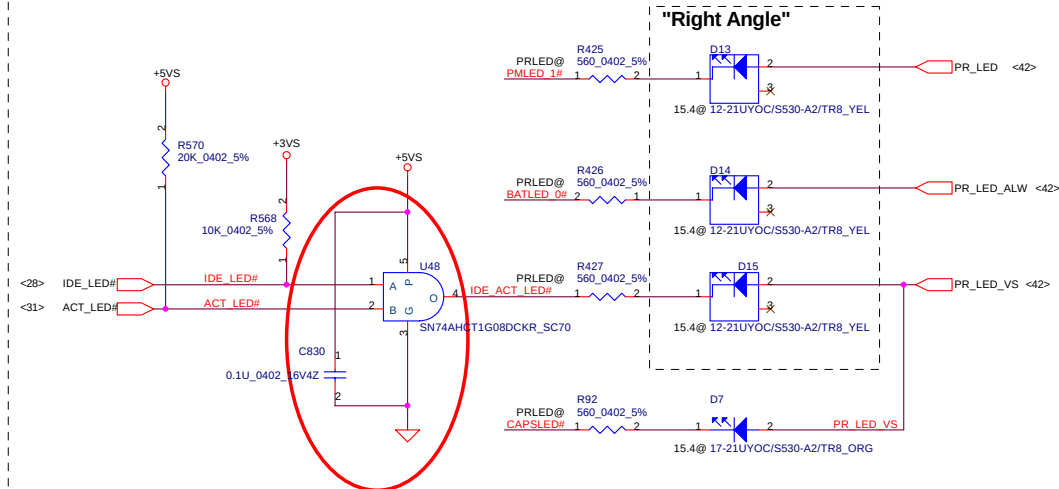
For PA

FOR POWER BUTTON BACKLIGHT SYSTEM POWER

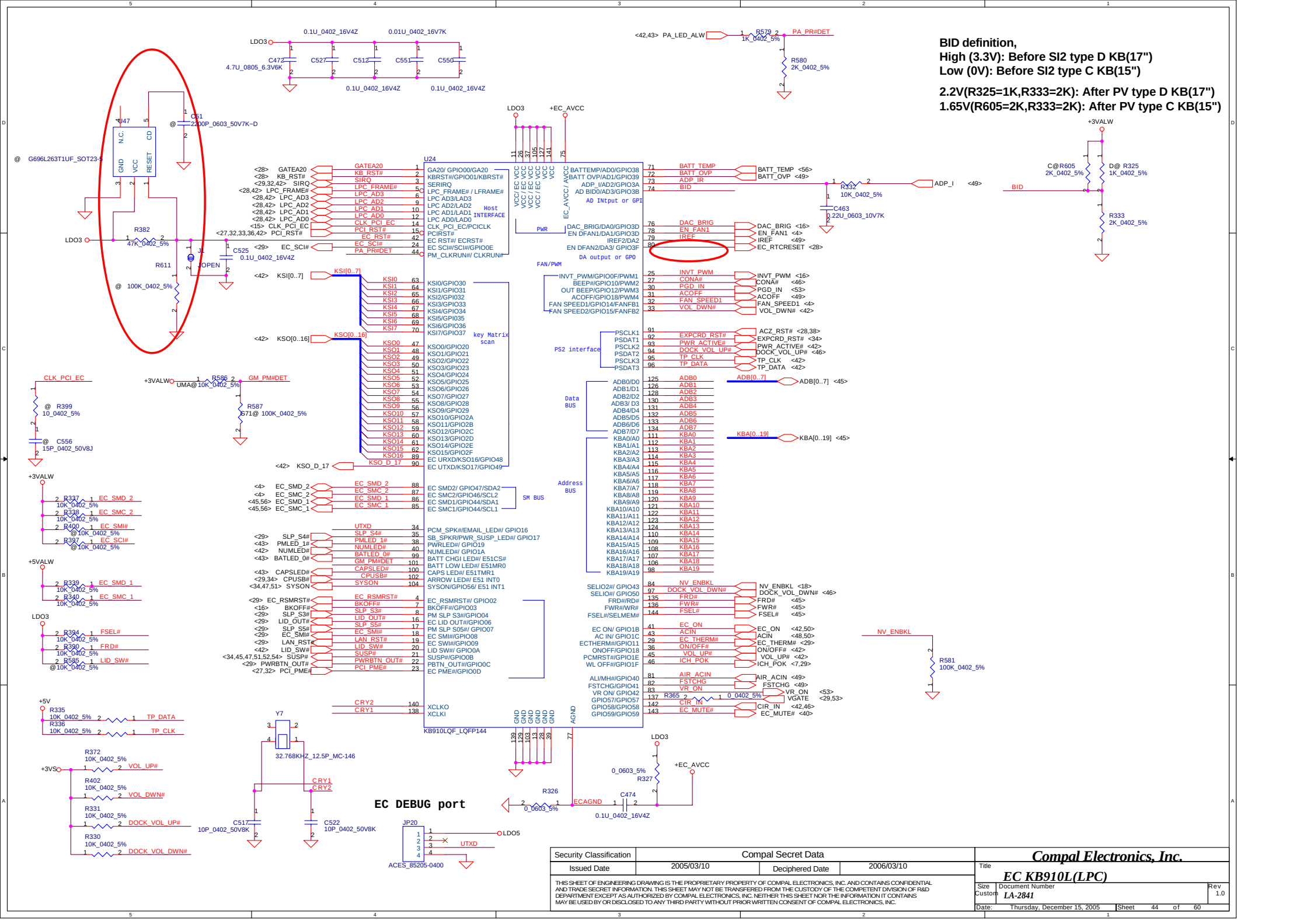


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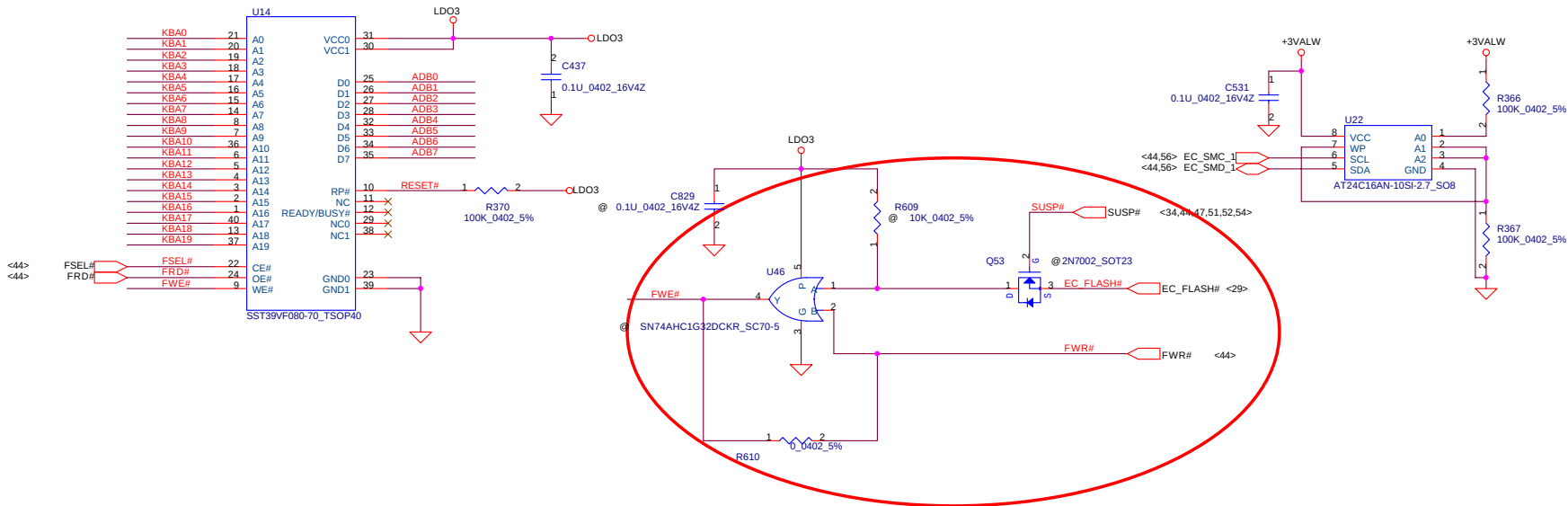
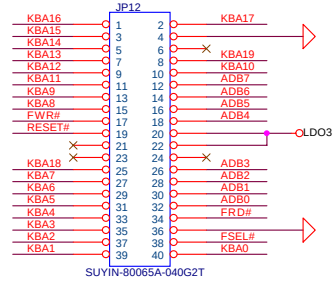
FOR POWER BUTTON BACKLIGHT SYSTEM POWER



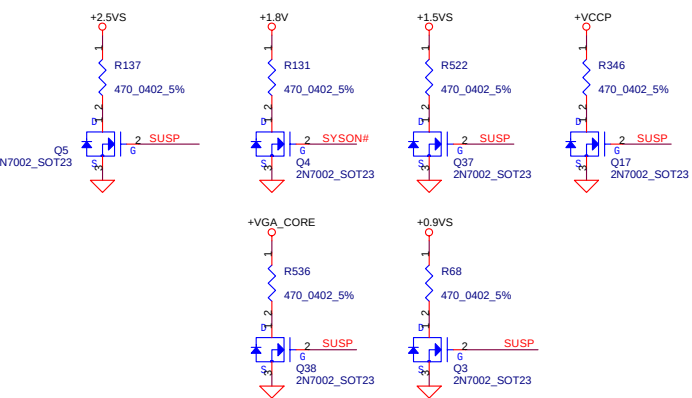
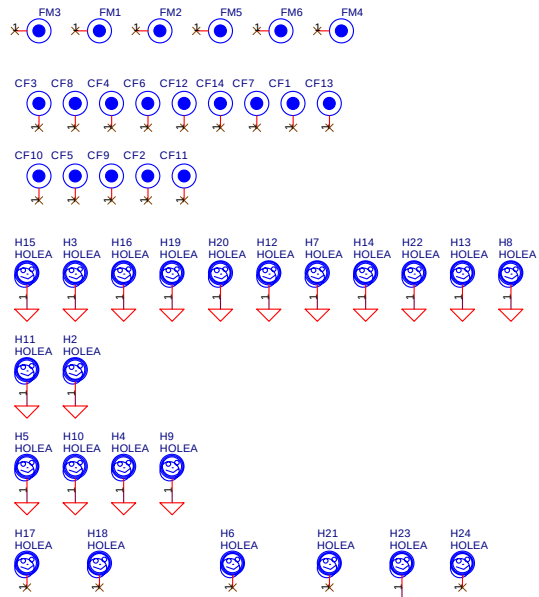
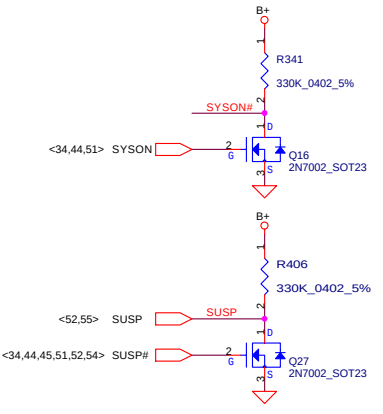
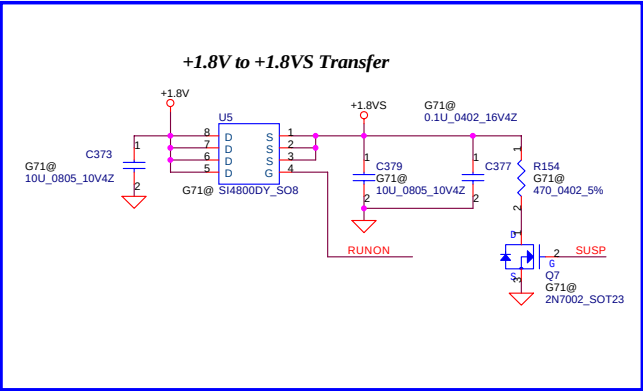
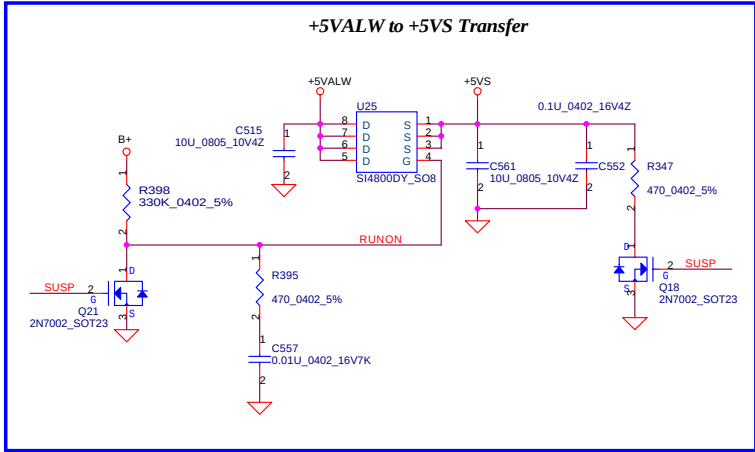
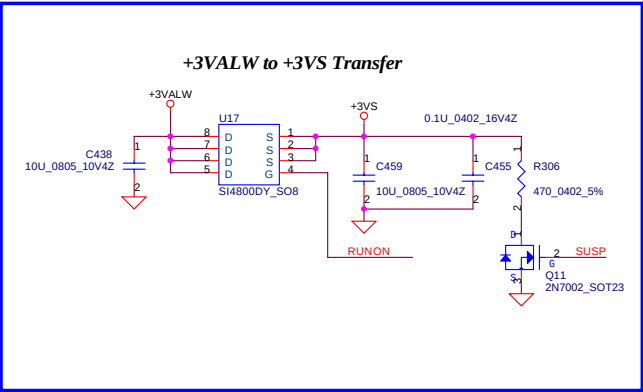
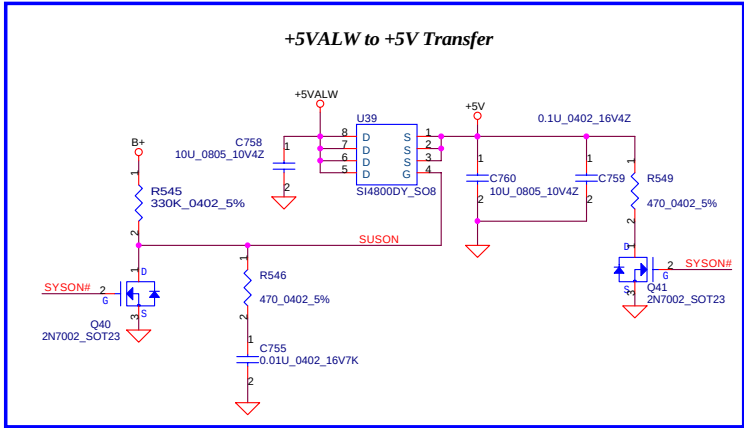
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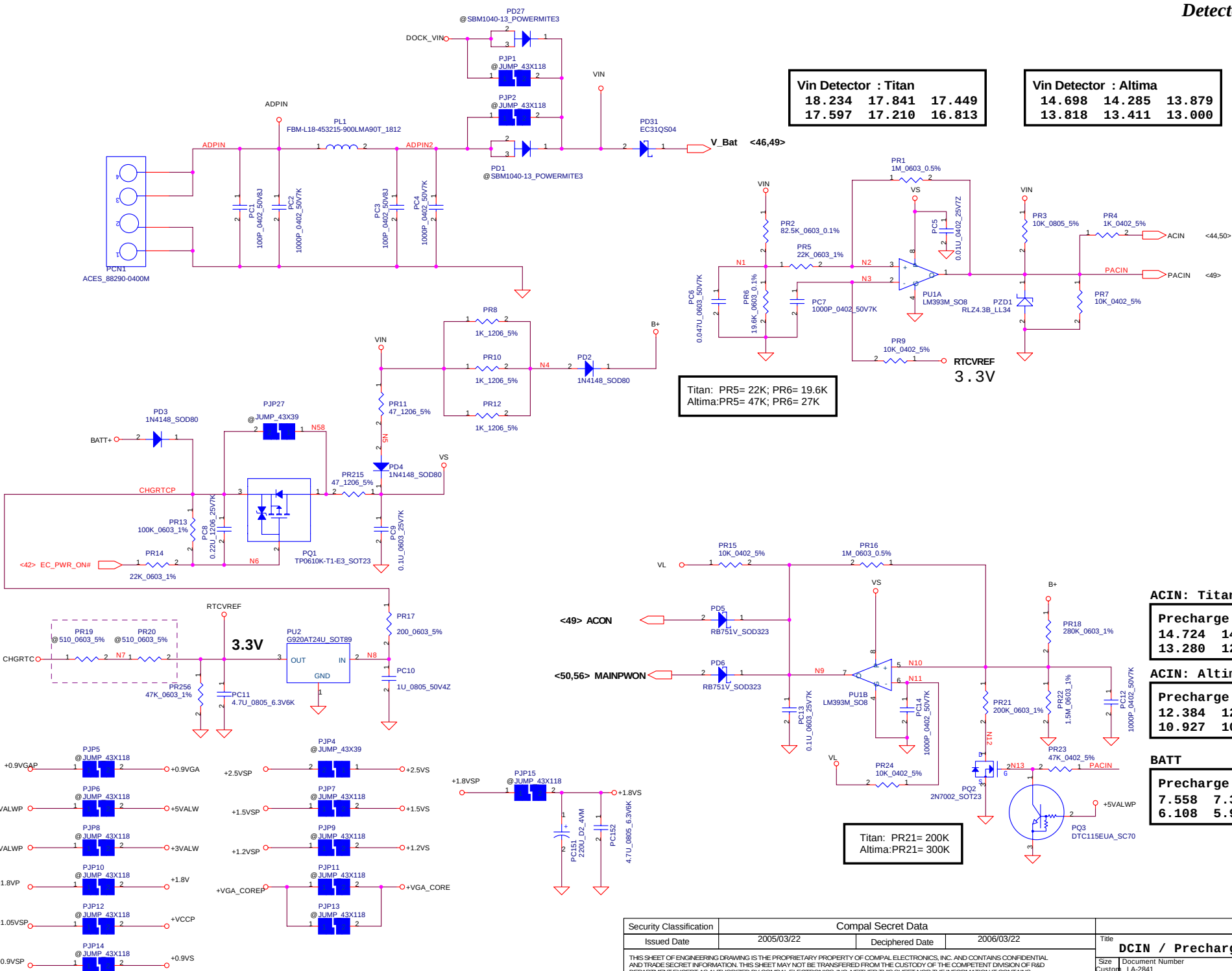
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Vin Detector : Titan			Vin Detector : Altima		
18.234	17.841	17.449	14.698	14.285	13.879
17.597	17.210	16.813	13.818	13.411	13.000

Titan: PR5= 22K; PR6= 19.6K
Altima:PR5= 47K; PR6= 27K

ACIN: Titan		
Precharge detector		
14.724	14.333	13.945
13.280	12.933	12.531

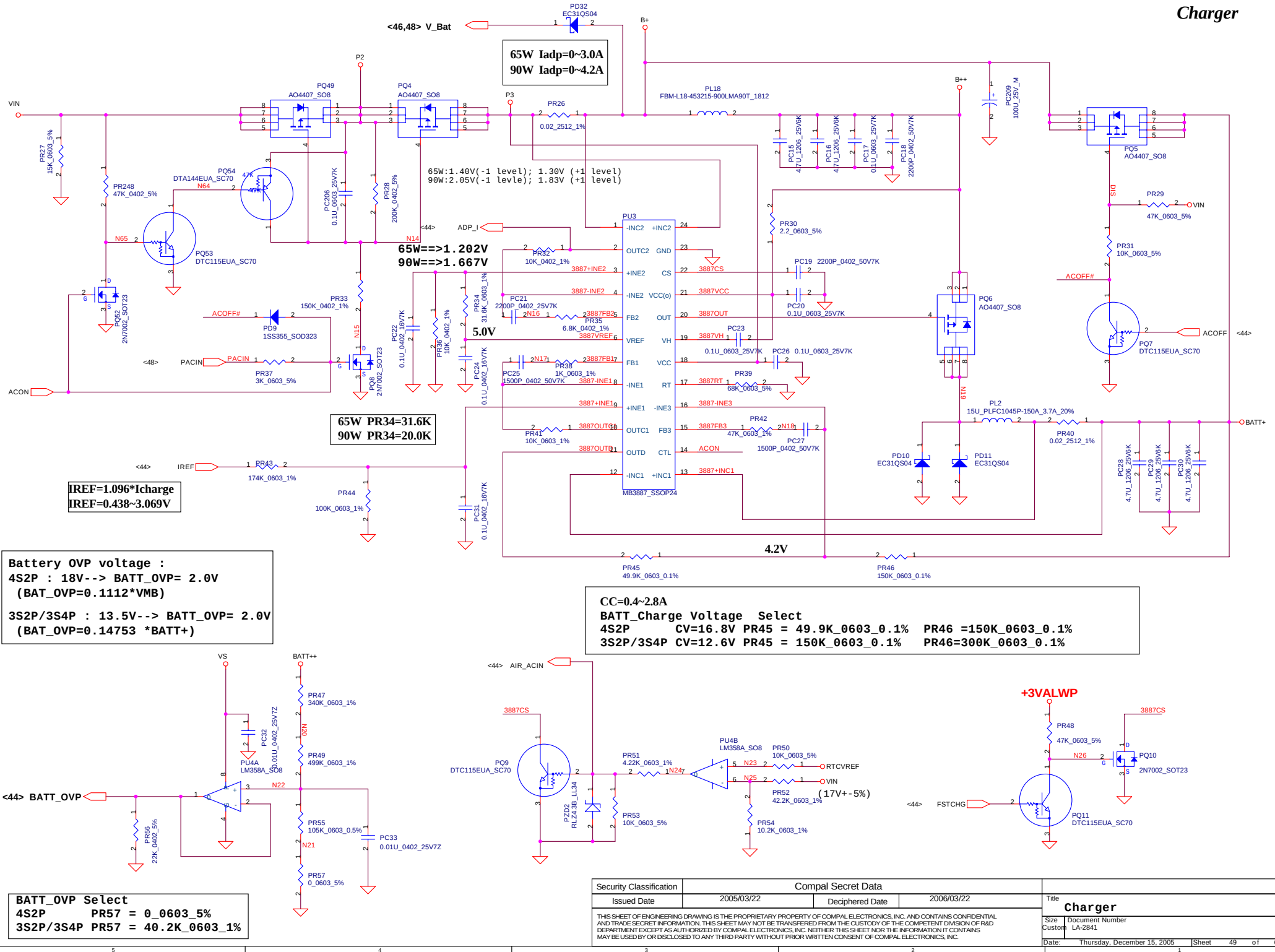
ACIN: Altima		
Precharge detector		
12.384	12.000	11.624
10.927	10.600	10.223

BATT		
Precharge detector		
7.558	7.333	7.112
6.108	5.933	5.704

Titan: PR21= 200K
Altima:PR21= 300K

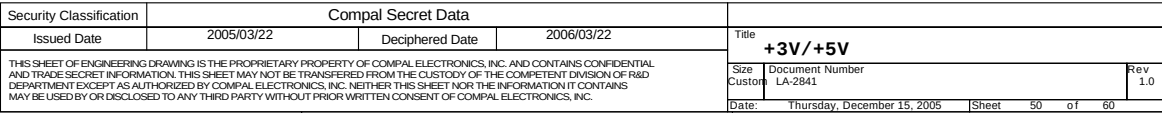
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Charger

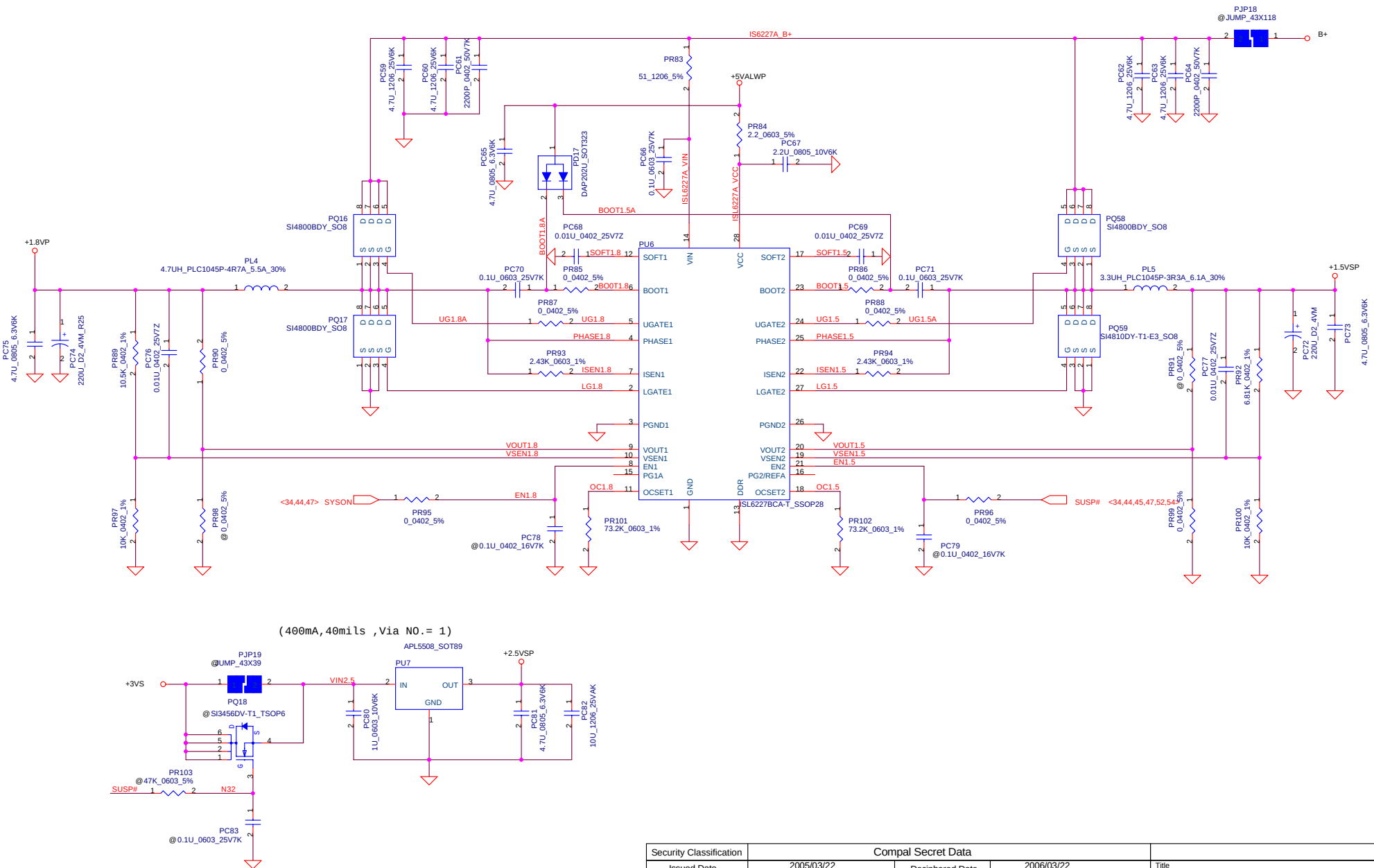


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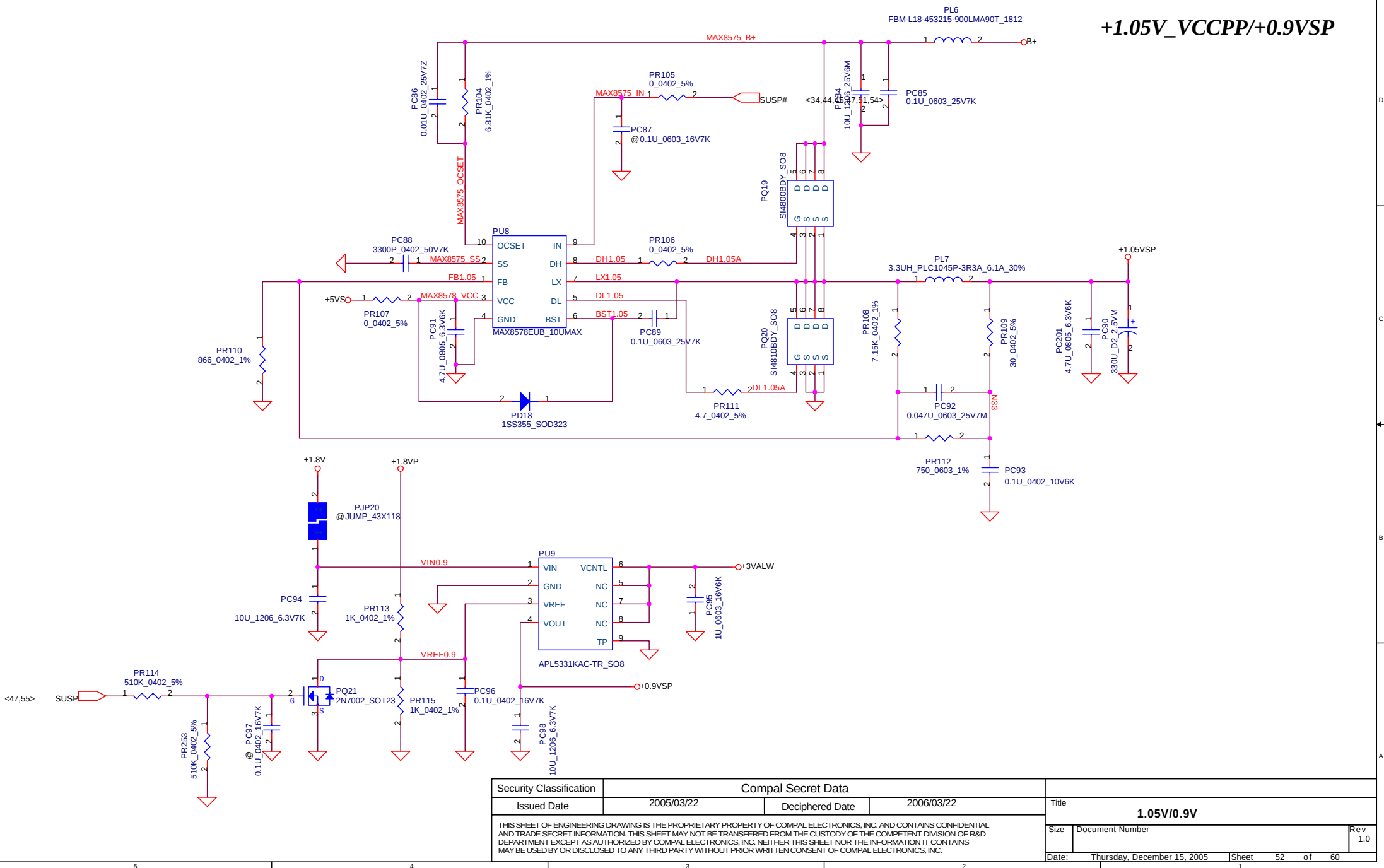
+3V/+5V



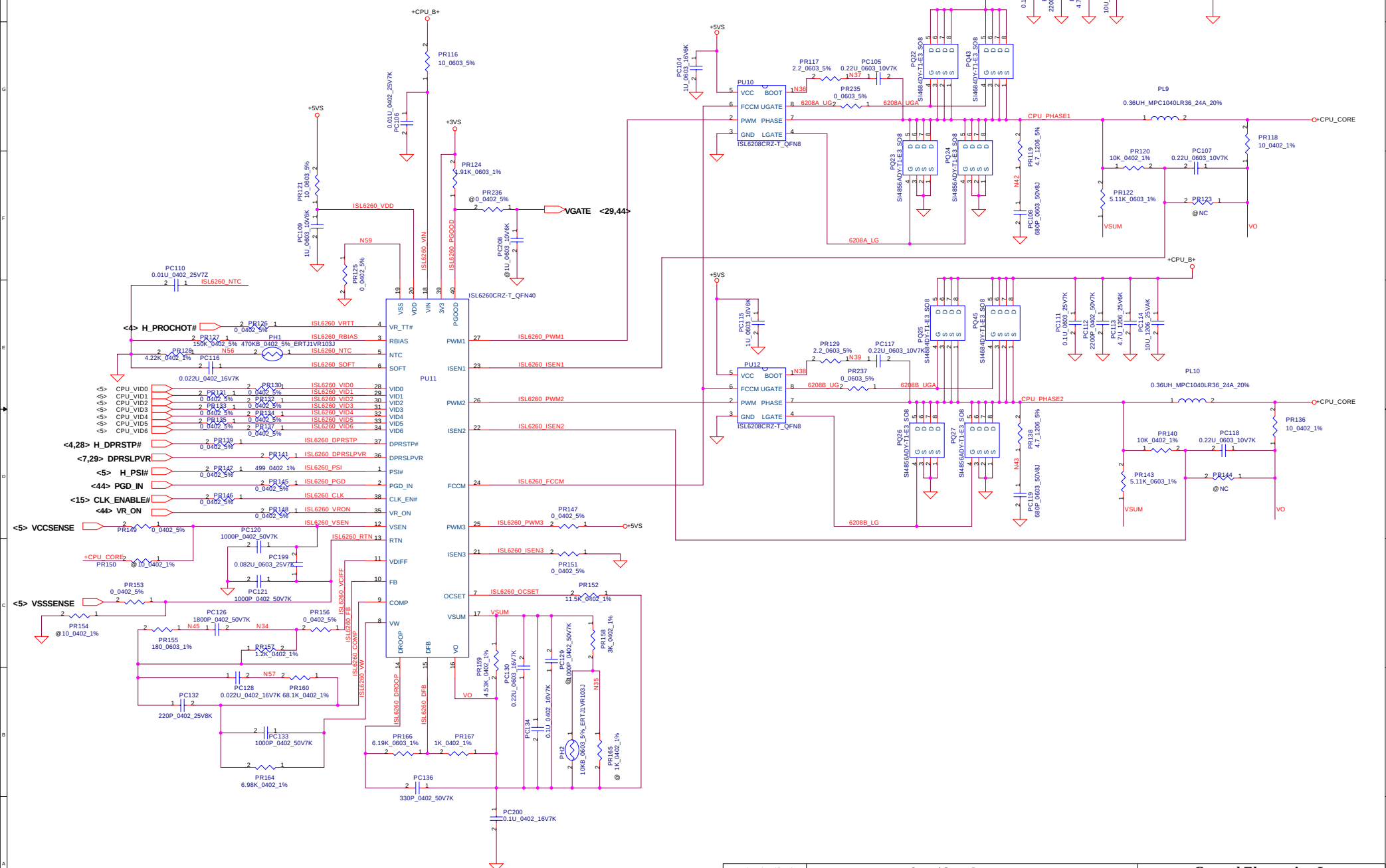
+1.8VP/+1.5VALWP/+2.5VS



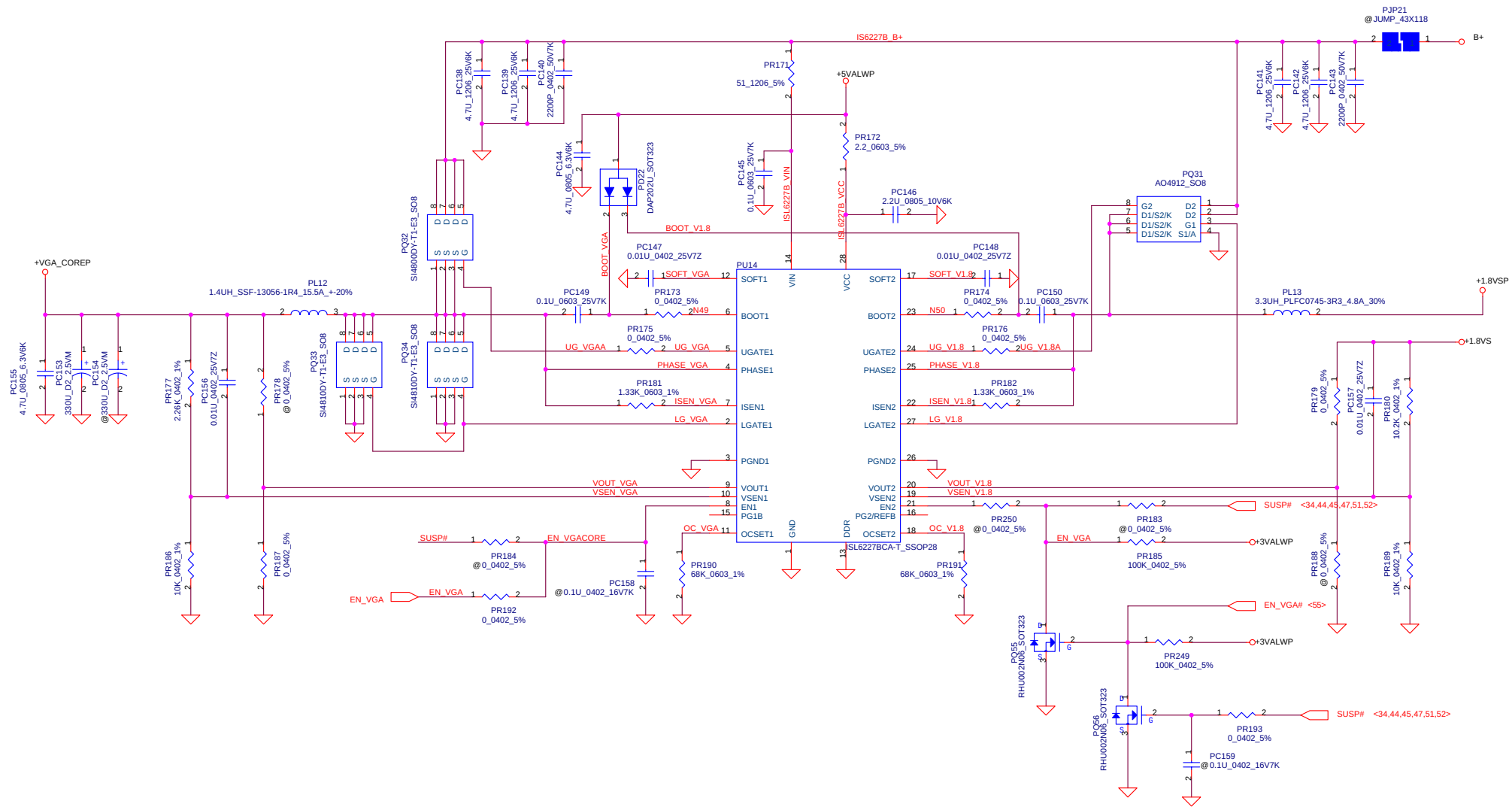
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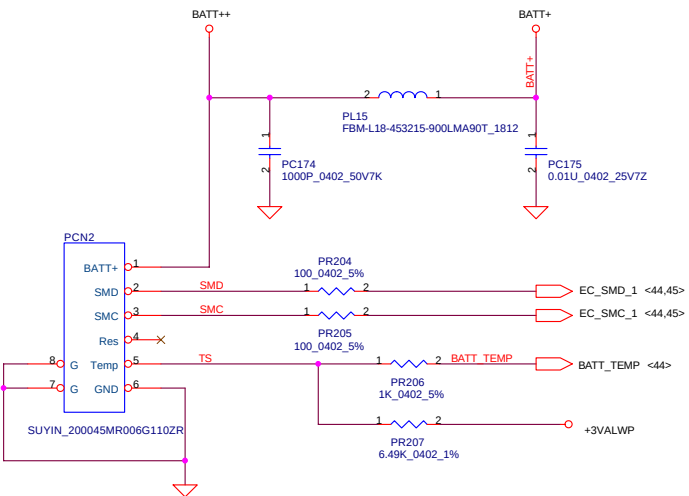
CPU CORE



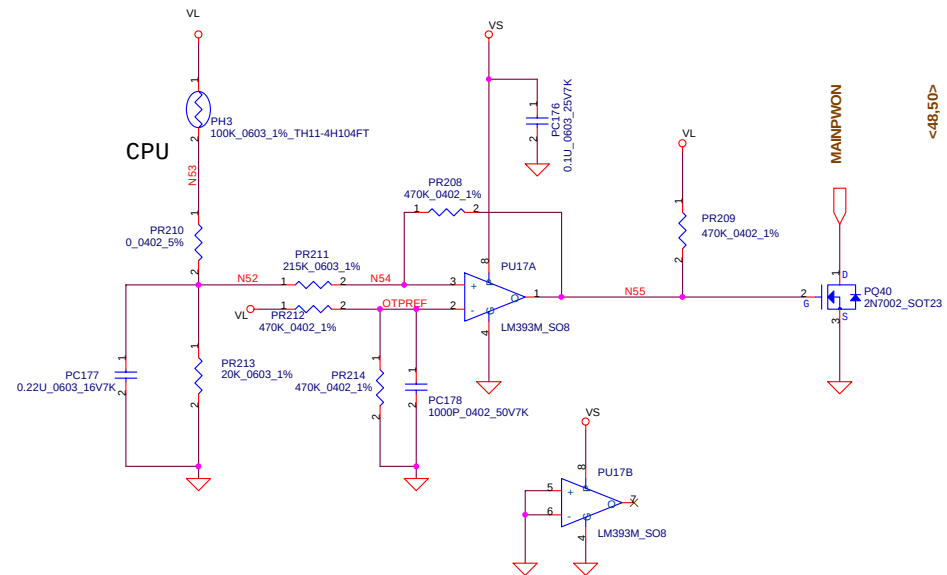
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PH1 under CPU botten side :
 CPU thermal protection at 90 +-3 degree C
 Recovery at 50 +-3 degree C



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Item	Modify list	Reason for change	Rev.	PG#	Modify by
1	Add R579 and R580 for EC PA/PR detec	EC team request	Rev0.2	P44	6/6 '05
2	B0M del C591 220U_D2 for +VCCP bypass capacitance	Cost down	Rev0.2	P6	6/6 '05
3	U44 pin5 change from +5VAMP to +5V	Design modify	Rev0.2	P40	6/6 '05
4	U44 pin3 change from GND_A to GND	Design modify	Rev0.2	P40	6/6 '05
5	JP21 50pin contact to U31 F25pin	support system memory throttling	Rev0.2	P13	6/6 '05
6	JP24 50pin contact to U31 H26pin	support system memory throttling	Rev0.2	P14	6/6 '05
7	Add D26	Add RTC Battery life	Rev0.2	P28	6/6 '05
8	B0M del R51	Change NB strap pin CF69 to Normal Operation	Rev0.2	P11	6/6 '05
9	Change R562 from 649K_0402 to 649_0402_1%	B0M error fix LAN can't link	Rev0.2	P35	6/6 '05
10	Change R558 from 3.3K_0402 to 200_0402_5%	B0M error fix LAN can't link	Rev0.2	P35	6/6 '05
11	U24 contact to CPU58#	Reserve new card detect input	Rev0.2	P44	6/6 '05
12	B0M del R307	no need EC control new card reset	Rev0.2	P44	6/6 '05
13	Add R582 00_0402	Reserve	Rev0.2	P35	6/6 '05
14	Cancel U12 pin3 contact to +3VLAN	Design modify for LAN function fix LAN can't link	Rev0.2	P35	6/6 '05
15	IFPAB_PLCV00, PLCLV00, VLD_PLCV00 change from 3.3V to 2.5V	G72, G73 power modify	Rev0.2	G26	6/6 '05
16	PEX_CFG 0-2 change from 100 to 001	Override CF6 modify	Rev0.2	P26	6/6 '05
17	Add JP34 for mini-PCIe card	ME update	Rev0.2	P37	6/6 '05
18	Del B0M R359, R349, R361, D9, D10, Q23	For FI 7412 modify request	Rev0.2	P32	6/7 '05
19	Change MSBS_SDCMD_SMWE_FIXED# to MSBS_SDCMD_SMWE#	For FI 7412 modify request	Rev0.2	P32	6/7 '05
20	Change SDCCLK_SMRE_FIXED# to SDCCLK_SMRE#	For FI 7412 modify request	Rev0.2	P32	6/7 '05
21	Change SDWP#_SMCE_FIXED# to SDWP#_SMCE#	For FI 7412 modify request	Rev0.2	P32	6/7 '05
22	Change SM_RB_FIXED# to SM_RB#	For FI 7412 modify request	Rev0.2	P32	6/7 '05
23	Change R554, R556, R557, R559 from 10K to 2.2K	For FI 7412 modify request	Rev0.2	P32	6/7 '05
24	Del R369, Q20, Q9, C446, JP29, JOPEN1, JOPEN2	Cancel TV tuner function	Rev0.2	P41	6/7 '05
25	Change LINK_LED100# contact to U41 pin27	Customer request for LAN link LED state	Rev0.2	P35	6/8 '05
26	Add R583, R584 75 ohm contact to JP19 and RJ45_GND	LAN modify	Rev0.2	P35	6/8 '05
27	Swap DQSA0-7/DQSA0-7 and DQSC0-7/DQSC0-7	Schematic error modify	Rev0.2	P19	6/8 '05
28	Add R585 LID_SW# 10K pull-high reserve	LID_SW# floating	Rev0.2	P44	6/13 '05
29	U6 pin D23 SLP_S4# contact to U24 pin35	EC need detect SLP_S4# for S4 state	Rev0.2	P44	6/13 '05
30	B0M update add R388	DOCK_MTCR need pull-high to +C00EC_REFC	Rev0.2	P38	6/13 '05
31	Change WL_PRIORITY contact to JP18 pin3 and BT_PRIORITY contact to JP18 pins.	pin define swap	Rev0.2	P37	6/14 '05
32	B0M add R587, R588, R589, R590 0 ohm	for NV72 CLK swap pin rework	Rev0.2	P19	6/14 '05
33	JP17 footprint update	DB1 footprint error, fix can't TV-out	Rev0.2	P17	6/14 '05
34	Del R587, R588, R589, R590 0 ohm	for NV72 chipset modify	Rev0.3	P19	6/17 '05
35	Add R586, R587	UMA or Discrete PCBA detect	Rev0.3	P44	6/27 '05
36	Change R145, R146 from 88.7K to 88.7 ohm	B0M error	Rev0.3	P18	6/28 '05
37	Change C419, C421 from 33P to 22P_0402	improve TV out quality.	Rev0.3	P15	6/28 '05
38	Add R588	FI recommend (it can avoid the small noise form this SPKROUT pin)	Rev0.3	P32	6/30 '05
39	JP26 footprint update	ME change new USB connector	Rev0.3	P41	6/30 '05
40	JP3 footprint update	ME change new CRT connector	Rev0.3	P17	
41	Add R589	Dual layout for 9CP306 and SLG8LP46Z.	Rev0.3	P15	7/05 '05
42	B0M add C591 220U_D2 for +VCCP bypass capacitance	change 220U location with C595	Rev0.3	P06	7/06 '05
43	B0M del C595 220U_D2 for +VCCP bypass capacitance	For cost down	Rev0.3	P11	7/06 '05
44	U24(EC) pin9I add AC2_RS1# input	fix into xp codec out popo noise	Rev0.3	P44	7/06 '05
45	Add C790, C791, C792, C793, C794, C795, C796 100P_0402	For EMI	Rev0.3	P42	7/06 '05
46	Add R590, Q46	Switch PCBEep path	Rev0.3	P29, 40	7/07 '05
47	Add C797 reserve	For EMI	Rev0.3	P37	7/07 '05
48	Change R94, R141 to 0 and change R96, R142 form 0 to 1200	for NVDIA change request	Rev0.3	P19	7/08 '05
49	Change R139, Q6 to 0 and change R145 form 87_0402 to 124_0402, R84 from 130_0402 change to 124_0402	For NVDIA change request	Rev0.3	P18	7/08 '05
50	Add screw hold H23, H24	ME drawing modify	Rev0.3	P47	7/08 '05
51	R36 pin1 change contact to ACTLED#, R43 pin1 change contact to LINK_LED100#	change LAN LED state, Amber LED indicates activity, Green LED indicates the link is present	Rev0.3	P35	7/09 '05
52	Add R591 10K_0402 and Q47	fix mute LED power on turn on	Rev0.3	P38	7/11 '05
53	B0M del R383 4.7K pull-high	EC program this pin as push-pull output	Rev0.3	P42	7/13 '05

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54	BOM del R101,C161,R467,R88	nvidia recommend	Rev0.3	P18	7713 '05
55	BOM del R78,R468,R111,R117,R63,R475,R477	nvidia recommend	Rev0.3	P26	7713 '05
56	BOM del R108,add R112	nvidia recommend(change to PEX_CF6[2..0]=0x010b)	Rev0.3	P26	7718 '05
57	BOM add C599	add 220u'cap for 1.8V power decoupling	Rev0.4	P11	8718 '05
58	BOM add R455	add 51.0402 resistor for intel Yonah B0 sighfings update	Rev0.4	P04	8718 '05
59	Add Q48,Q49,Q50,R593,R594	modify WLED control circuit for 0fs:0i64892 issue	Rev0.4	P37	8722 '05
60	Del D3	modify WLED control circuit for 0fs:0i64892 issue	Rev0.4	P41	8722 '05
61	Del R440,R432,Q30	modify WLED control circuit for 0fs:0i64892 issue	Rev0.4	P16	8722 '05
62	Add R592	add R592 150'ohm for WLED# current limit	Rev0.4	P37	8722 '05
63	JP9 Pin 14 contact to +5VS	change SPDIF LED power from +5V to +5VS	Rev0.4	P42	8722 '05
64	Add Q51	Prevent TPS2231 pin2 +3VALW leakage to +3VS	Rev0.4	P34	8729 '05
65	JP5 Pin 25 contact to +3VALW	switch board need +3VALW provide lie switch power	Rev0.4	P42	8723 '05
66	BOM change R554/R557/R556 to 100K, change R559 to 22K	TI 7412 pull-high recommend	Rev0.4	P32	8723 '05
67	JP3 change new part	change CRT conn from top side to bottom side for DFX request	Rev0.4	P17	8724 '05
68	Del C764,R552,R553, Add D28,change U40 to G993 fan control	Fan control circuit change to G993	Rev0.4	P04	8724 '05
69	BOM del R47	Intel WW31 document update	Rev0.4	P11	8729 '05
70	Add R595/R596/R597/R598/R599	SD card signal add 33'ohm damping resistor	Rev0.4	P32	8730 '05
71	Add R817/R77 10K_0402	NV72 AI chip recommend JTAG_TCK pull-high and JTAG_N pull-down	Rev0.4	P18	8729 '05
72	Del clock generators difference clock 49.5ohm termination	ICS9LP308 clock generators update	Rev0.4	P15	8729 '05
73	Change clock generators difference clock 33ohm damping to 10ohm	ICS9LP308 clock generators update	Rev0.4	P15	8729 '05
74	Change R266 from 475'ohm to 2.4K'ohm	ICS9LP308 clock generators update	Rev0.4	P15	8729 '05
75	Add D29/D30/D31/D32/D33/D34/D35/D36	SD card signal add diode for Voltage clamp	Rev0.4	P32	8730 '05
76	Move C8/C11/C10/C3/C47C5/C27C13/C14/C34/C35/C1 for layout	ME update limit area for CPU	Rev0.4	P06	8730 '05
77	Change R591 from 10K'ohm to 100'ohm	Fix 0fs:I63350 Calgary's mute LED can't display	Rev0.4	P38	8730 '05
78	JP34 pin50 change contact from PM_EXITS#1 to PM_EXITS#0	Intel WW31 document update	Rev0.4	P14	8730 '05
79	U31 pinH6 change contact from PM_EXITS#1 to DPRSLPVR	Intel WW31 document update	Rev0.4	P07	8730 '05
80	D26 pin2 change contact from +3VALW to LD03	Add RTC Battery life	Rev0.4	P28	8730 '05
81	BOM change R502 from 649'ohm to 619'ohm and change UI2 to new part	LAN performance modify	Rev0.4	P35	8730 '05
82	Add R600 100'ohm and DEL C608 @	HP recommend	Rev0.4	P37	8730 '05
83	Add R601 100'ohm	HP recommend	Rev0.4	P41	8730 '05
84	Reserve C8I0-C821 0.1u cap	For EMI	Rev0.4	P42	8730 '05
85	Add L32 and C022 on SPDIF signal	For EMI	Rev0.4	P42	8730 '05
86	Add C802 /C803 /C804 /C805 1000P for CLKREQA#/CLKREQB#/CLKREQCH/CLKREQD#	For EMI	Rev0.4	P15	8730 '05
87	U40 pin5,6,7,8 contact to GND	schematic update for SI2 fan can't full run on issue	Rev0.5	P04	10/26 '05
88	change C599 from 220U to 330U	Steady the 1.8V	Rev0.5	P11	10/26 '05
89	Add R103 40.2ohm	nvidia recommend	Rev0.5	P21	10/28 '05
90	change R510,R75,R533,R168 from 1200ohm to 499ohm for NV73 only	nvidia recommend	Rev0.5	P22-25	10/26 '05
91	straps table PEX_CF6[2:0] from 010 to 001 and PCF_DEVID[3:0] NV73M from 1010 to 1011	nvidia recommend	Rev0.5	P26	10/26 '05
92	Add C825 15P_0402 for MSCLK_SCLK_SMELW# signal	For EMI	Rev0.5	P32	10/26 '05
93	Add C823 1000P_0402 for +VCC_SD	For EMI	Rev0.5	P32	10/26 '05
94	Add C824 1000P_0402 for +VCC_SM_XD	For EMI	Rev0.5	P32	10/26 '05
95	Add C826 1000P_0402 for JP32 pin4	For EMI	Rev0.5	P32	10/26 '05
96	change PCM_SPK pull down R588 from 43K to 10K	TI recommend	Rev0.5	P32	10/26 '05
97	D29,D30,D31,D32 pinH contact to +VCC_MS	schematic update for SI2 MS card can't work issue	Rev0.5	P32	10/26 '05
98	Add R607 22ohm and @ C827 10P	Reserve	Rev0.5	P32	10/26 '05
99	U18 pinG6 contact to +3VS	TI recommend	Rev0.5	P33	10/26 '05
100	Add @ R606 110ohm	Reserve	Rev0.5	P35	10/26 '05
101	Change Q46 to U45 analog switch	design change	Rev0.5	P40	10/26 '05
102	Change U38 pin3,4 form +5VALW to +5V	design change	Rev0.5	P41	10/26 '05
103	Change Q2 from A03413 to A03419		Rev0.5	P41	10/26 '05
104	Add D38-D45 for KB ESD solution	For ESD request	Rev0.5	P42	10/26 '05
105	AIR_ACIN change contact to U24 pin81 and add R605 for BID define, add D37.	design change	Rev0.5	P44	10/26 '05

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Power section

Item	Reason for change	PG #	Modify List	Date	B.Ver #
1	Solve the oscillate of +3VALWP when plug adapter.	48	Change PC11 from 10U_0805_10V to 0.1U_0603_25V.	2005.06.01	
2	Adjust VGA power rail sequence.	54	Add PQ55, PQ56 and PR249	2005.06.21	
3	To protect PQ21, because SUSP change to 18.5V from 5V.	52	Add PR253 and change PR114 to 510K_0402_5%.	2005.08.10	
4	To save S5 power consumption.	50,48	Add PR254, PR13, PR14, PQ1 and PC8. Reserve PR255.	2005.08.15	
5	To solve EMI issue.	53,49	Add PR117,PR129,PR119,PR138,PC108 and PC119. Change PJP16 to PL18 and PR30 from 0_0402 to 2.2_0603.	2005.08.15	
6	To speed up CP mode response.	49	Change PR32 to 10K; PR35 to 6.8K and PC21 to 2200P.	2005.08.23	
7	Reserve capacitor to reduce noise.	49	Reserve PC209.	2005.08.27	
8	To speed up C4 return to C0. follow Intel recommend.	53	Change PR141 from 0_0402_5% to 499_0402_1%.	2005.08.29	
9	To pull up +1.8V power plan to 1.846V.	51	Change PR89 from 10.2K to 10.5K.	2005.10.01	
10	To filter high frequency from AirCard.	55	Add PC210 22P_0402_50V.	2005.11.25	