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Fortworth Baniass EAL20 LA-2461 Schematic

uFC-PGA Dothan / Montara-GM+
M11P-128M VRAM / ICH4-M

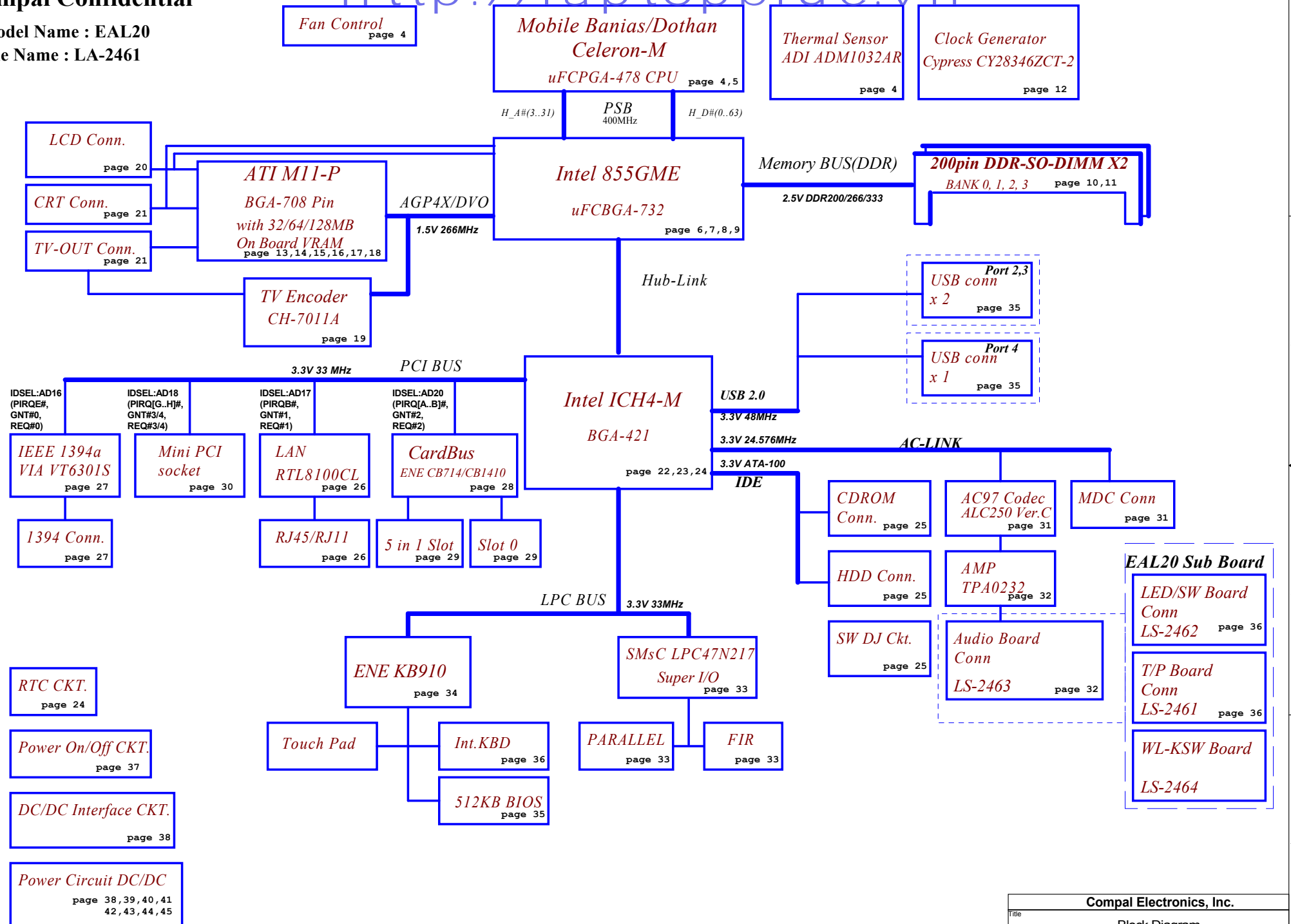
2004-07-21

REV: 0.3

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Model Name : EAL20

File Name : LA-2461



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Block Diagram			
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Voltage Rails

Power Plane	Description	S0-S1	S3	S5
VIN	Adapter power supply (19V)	N/A	N/A	N/A
B+	AC or battery power rail for power circuit	N/A	N/A	N/A
+CPU_CORE	Core voltage for CPU	ON	OFF	OFF
+VCCP	1.05V rail for Processor I/O	ON	OFF	OFF
+1.25VS	1.25V switched power rail for DDR Vtt	ON	OFF	OFF
+VGA_CORE	1.2V/1.0V switched power rail for VGA core power	ON	OFF	OFF
+1.35VS	1.35V switched power rail for GMCH core power	ON	OFF	OFF
+1.5VALW	1.5V always on power rail	ON	ON	ON*
+1.5VS	1.5V switched power rail for AGP interface	ON	OFF	OFF
+1.8VS	1.8V switched power rail for CPU PLL & Hub-Link	ON	OFF	OFF
+2.5V	2.5V power rail for system DDR	ON	ON	OFF
+2.5VS	2.5V power rail for VGA DDR	ON	OFF	OFF
+3VALW	3.3V always on power rail	ON	ON	ON*
+3V	3.3V switched power rail	ON	ON	OFF
+3VS	3.3V switched power rail	ON	OFF	OFF
+5VALW	5V always on power rail	ON	ON	ON*
+5VS	5V switched power rail	ON	OFF	OFF
+12VALW	12V always on power rail	ON	ON	ON*
RTCVCC	RTC power	ON	ON	ON

Note : ON* means that this power plane is ON only with AC power available, otherwise it is OFF.

ICH4-M I2C / SMBUS ADDRESSING

DEVICE	HEX	ADDRESS
DDR SO-DIMM 0	A0	1 0 1 0 0 0 0 X
DDR SO-DIMM 1	A2	1 0 1 0 0 0 1 X
CLOCK GENERATOR (EXT.)	D2	1 1 0 1 0 0 1 X

KB910 I2C / SMBUS ADDRESSING

DEVICE	HEX	ADDRESS
SM1 24C16	A0H	1 0 1 0 0 0 0 X b
SM1 SMART BATTERY	16H	0 0 0 1 0 1 1 X b
SM2 ADM0132 CPU THERMAL MONITOR	98H	1 0 0 1 1 0 0 X b
SM2 ALC250 AUDIO CODEC	00H	0 0 0 0 0 0 0 X b

External PCI Devices

DEVICE	PCI Device ID	IDSEL #	REQ/GNT #	PIRQ
1394	D0	AD16	0	E
LAN	D1	AD17	1	F
CARD BUS	D4	AD20	2	A
SIN1	D4	AD20	2	B
Mini-PCI	D2	AD18	3,4	G,H
AGP BUS	N/A	AGP_DEVSEL#	N/A	A

Symbol note:



:means digital ground.



:means analog ground.



:means reserved.

Fortworth Banias Comparison Table

Item	* Descrite	UMA	Page
VGA	ATI M11P	UMA	13 ~ 16
VRAM	128MB/64MB	NA	13 ~ 14
TV Encoder	NA	CH7011A	19

Board ID Table for AD channel

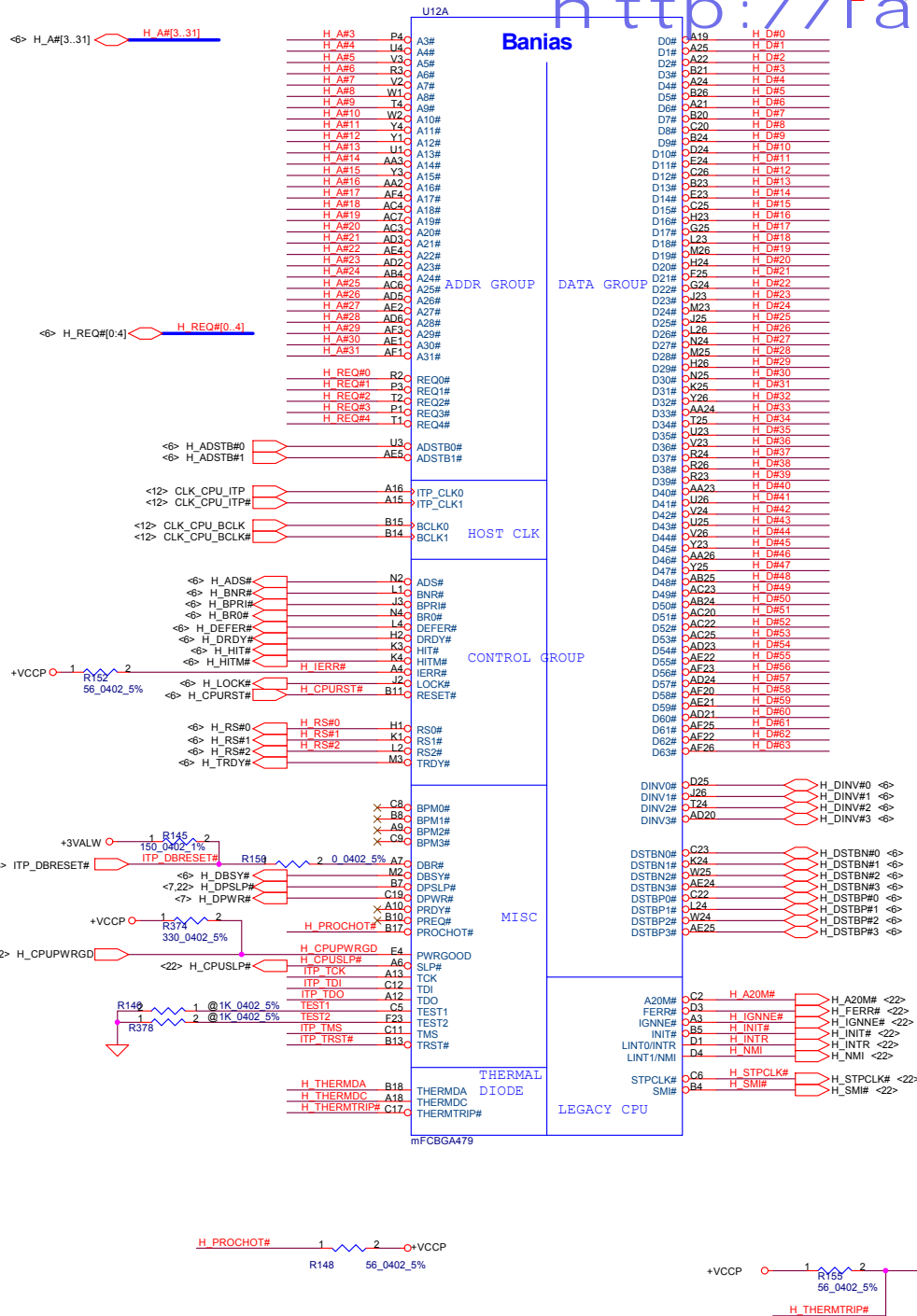
Vcc	3.3V +/- 5%			
Ra	10K +/- 5%			
BID/FID	Rb/Rc	V _{AD_BID} min	V _{AD_BID} typ	V _{AD_BID} max
0	0	0 V	0 V	0 V
1	8.2K +/- 5%	1.412 V	1.486 V	1.560 V
2	18K +/- 5%	2.015 V	2.121 V	2.227 V
3	33K +/- 5%	2.406 V	2.533 V	2.659 V
4	56K +/- 5%	2.660 V	2.800 V	2.940 V
5	NC	3.135 V	3.300 V	3.465 V

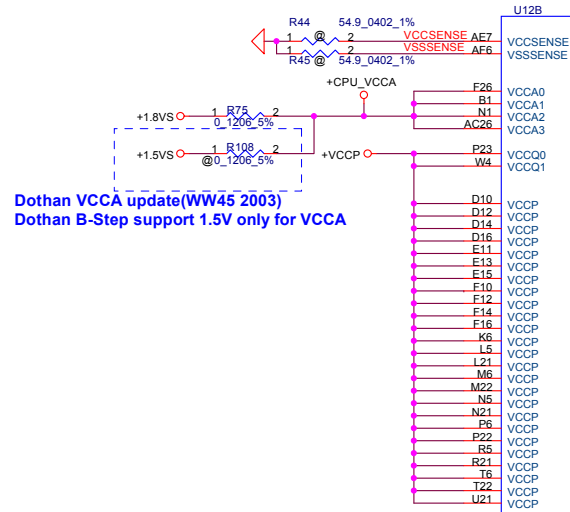
Board ID	PCB Revision
* 0	0.1
1	0.2
2	0.3
3	0.4
4	0.5
5	
6	
7	

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Title			
Notes List			
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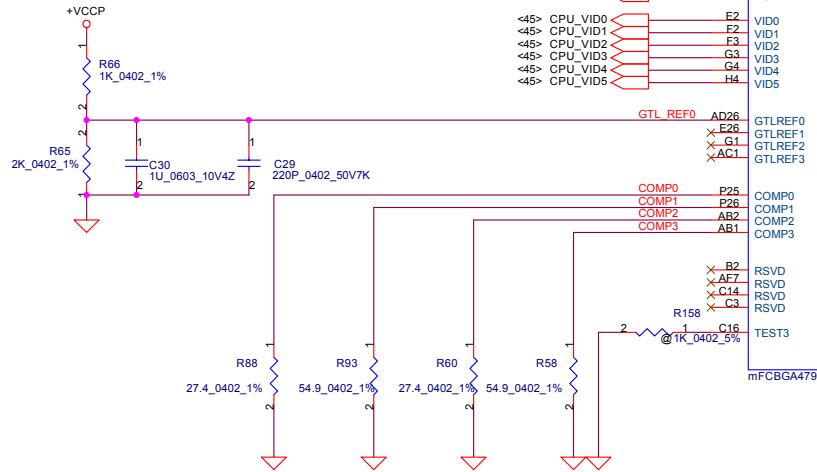
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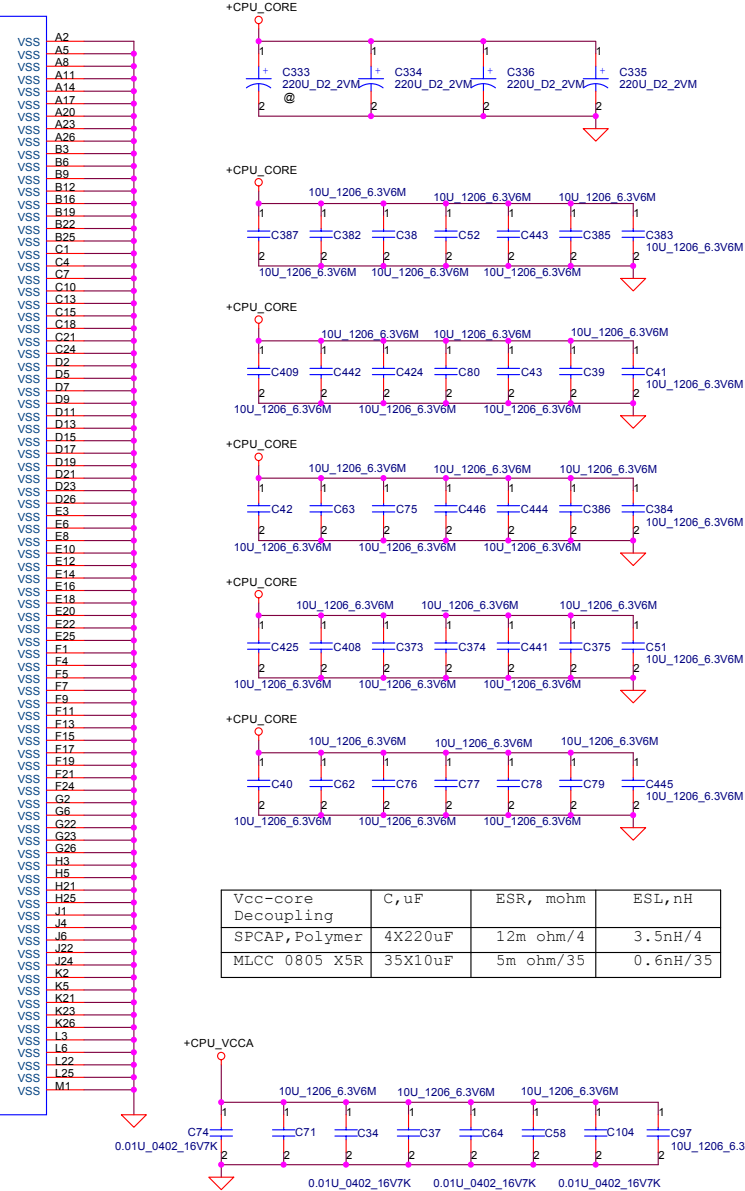


Dothan VCCA update(WW45 2003)
Dothan B-Step support 1.5V only for VCCA

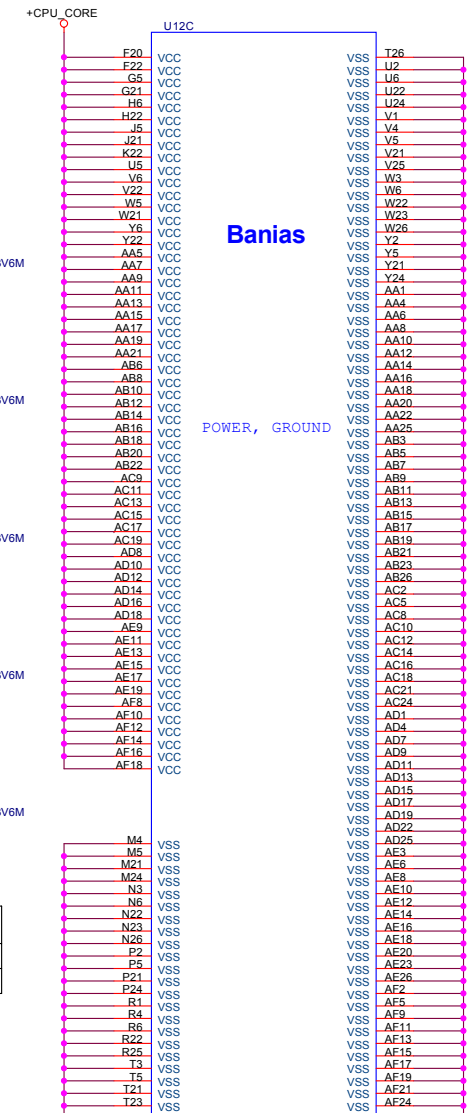
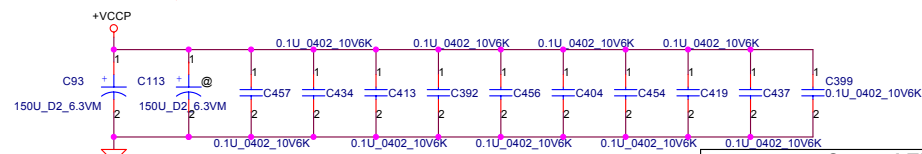
Resistor placed within
0.5" of CPU pin. Trace
should be at least 25
miles away from any
other toggling signal.



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



Vcc-core Decoupling	C, uF	ESR, mohm	ESL, nH
SPCAP, Polymer	4X220uF	12m ohm/4	3.5nH/4
MLCC 0805 X5R	35X10uF	5m ohm/35	0.6nH/3



Banias

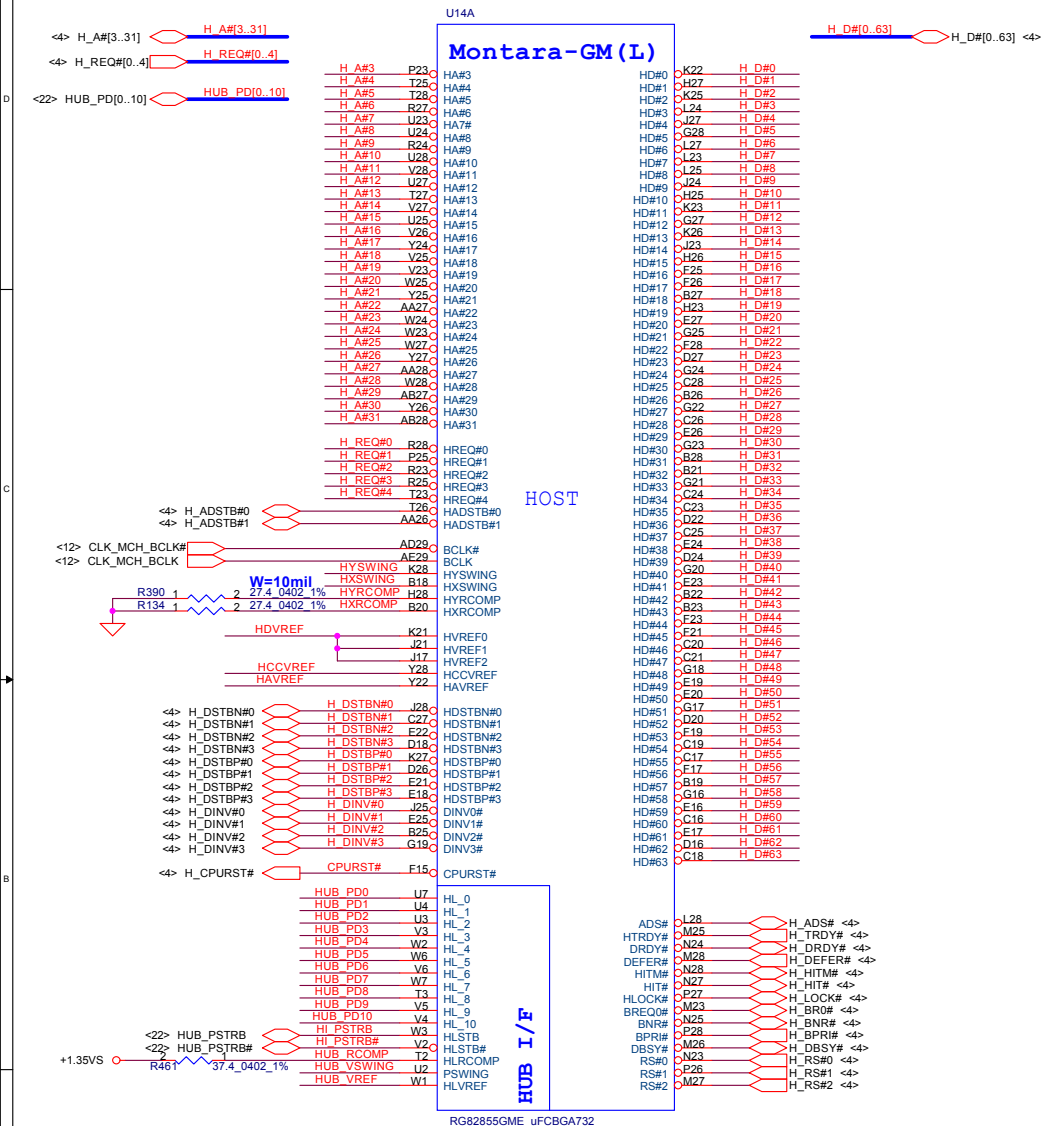
POWER, GROUND

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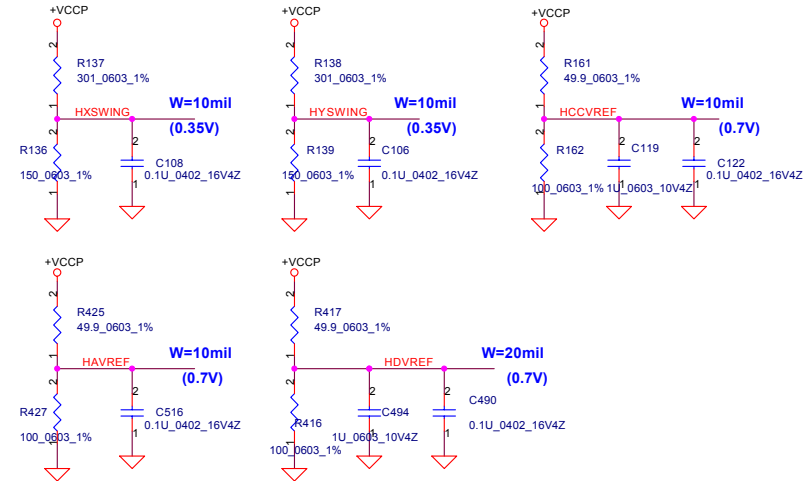
INTEL CPU BANIAS (2 of 2)

EAL20 LA-2461

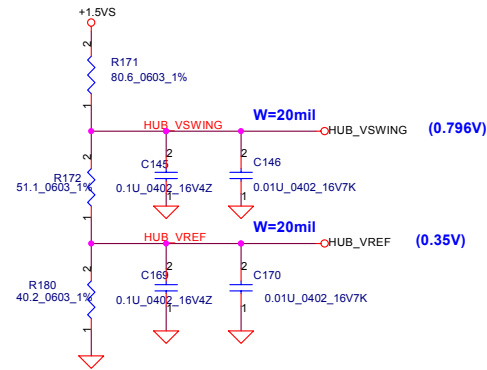
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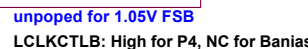


HOST REF VOLTAGE



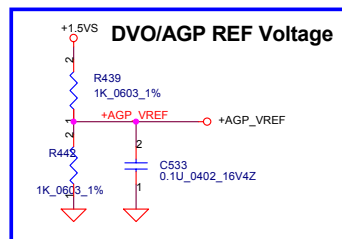
HUB I/F REF VOLTAGE

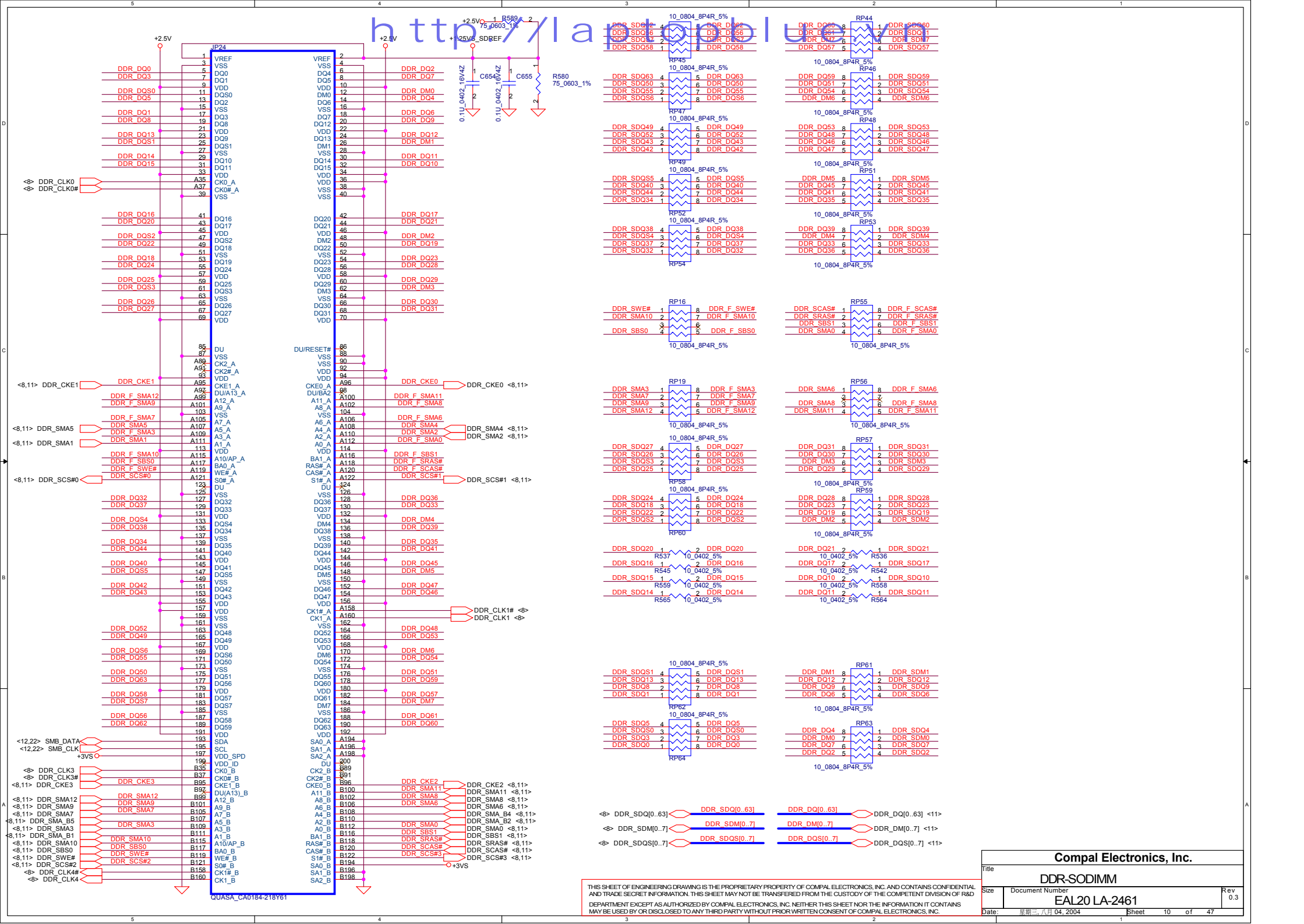




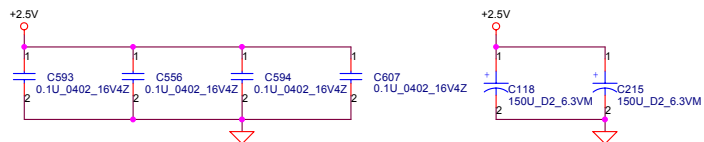
855GME DVO/AGP Pin Muxing

Ball	DVO Mode	AGP Mode
R3	DVOBD0	GAD3
R5	DVOBD1	GAD2
R6	DVOBD2	GAD5
R4	DVOBD3	GAD4
P4	DVOBD4	GAD7
P5	DVOBD5	GAD6
N5	DVOBD6	GAD8
N2	DVOBD7	GCBE#0
N2	DVOBD8	GAD10
N3	DVOBD9	GAD11
M1	DVOBD10	GAD12
M5	DVOBD11	GAD11
P3	DVOBCLK	GADSTB0
T6	DVOBK#	GADSTB0#
T6	DVOBHSYNC	GAD0
T5	DVOBSVSYNC	GAD1
L2	DVOBBLANK	GCBE#1
M2	DVOBFLDSTL	GAD14
G2	DVOBCTR#	GAD10
M3	DVOBCLKINT	GAD13
J3	DVOCCLK	GADSTB1
J2	DVOCCLK#	GADSTB1#
K6	DVOCBSVSYNC	GAD17
L5	DVOCBSVSYNC	GAD16
L3	DVOCBLANK	GAD18
H5	DVOCFLDSTL	GAD31
K7	MIZCCLK	GIRDY#
N6	MIZCDATA	GCBESEL#
N7	MIZDATA	GTRDY#
M6	MVIDDATA	GFRAME#
P7	MDDCLK	GSTOP#
T7	MDDCADATA	GAD15
D3	DVOCED0	GAD19
K1	DVOCED1	GAD20
K3	DVOCED2	GAD21
K2	DVOCED3	GAD22
J6	DVOCED4	GAD23
D5	DVOCED5	GAD24#3
H2	DVOCED6	GAD25
H1	DVOCED7	GAD24
H3	DVOCED8	GAD27
H4	DVOCED9	GAD26
H6	DVOCED10	GAD29
G3	DVOCED11	GAD28
E5	ADDI00	GSBA0
F5	ADDI01	GSBA1
E4	ADDI02	GSBA2
E2	ADDI03	GSBA3
G5	ADDI04	GSBA4
F4	ADDI05	GSBA5
G6	ADDI06	GSBA6
F6	ADDI07	GSBA7
L7	DVODETECT	GPAP
D5	DPMS	GPPIE#
F2	RVSD1	GSBSTB
F3	RVSD2	GSBSTB#
RVSD2	RVSD2	GNIT#
B3	RVSD4	GREC#
C2	RVSD5	GS2T
C3	GS2T1	GS2T1
C3	GS2T0	GS2T0
D2	RVSD8	GRBF#
D3	RVSD9	GRBF#
L4	RVSD11	GCBE#2

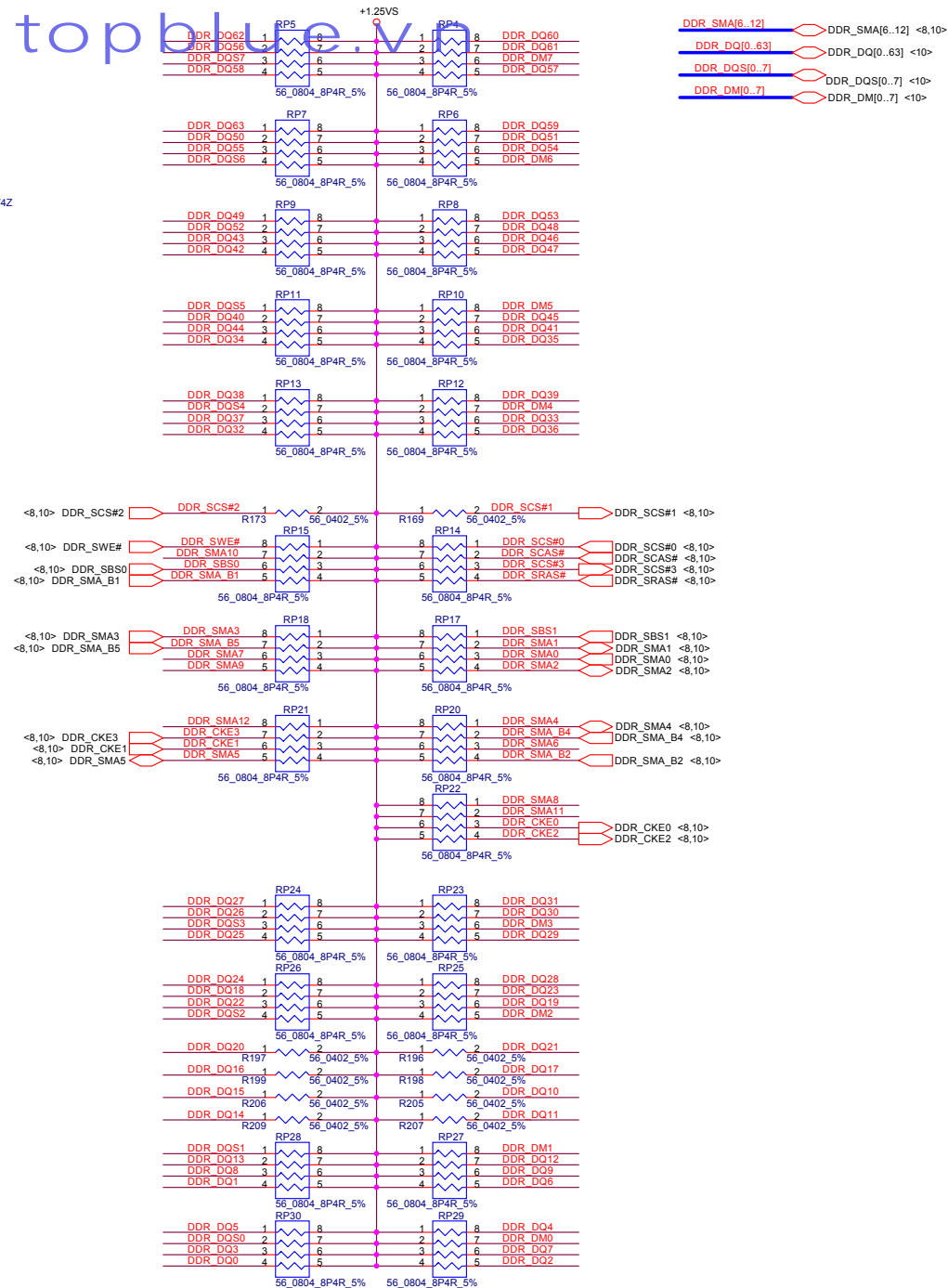




Distribute as close as possible to DDR-SODIMM.



Place one cap close to every 2 pull up resistors termination to +1.25V

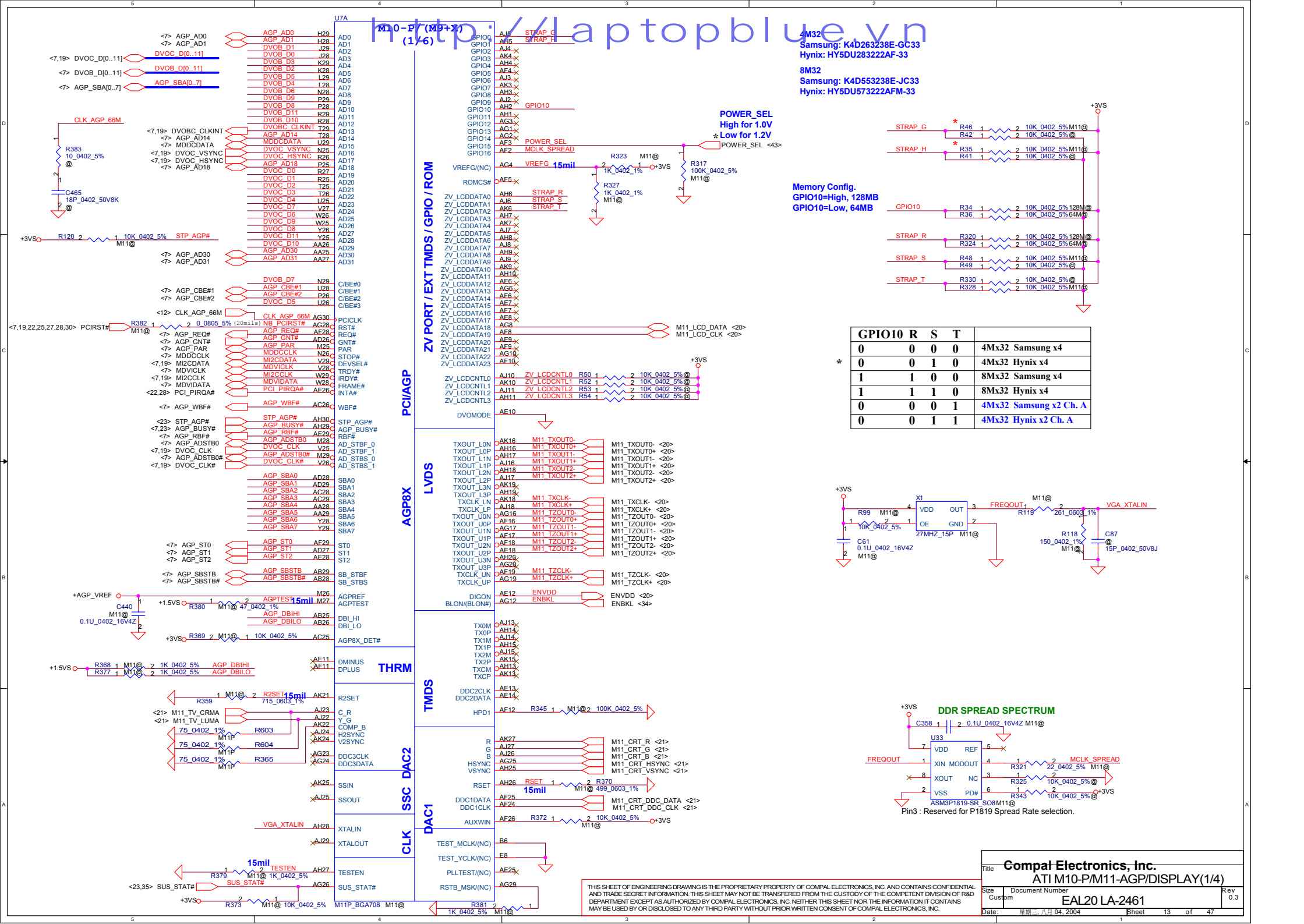






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DDR SODIMM Decoupling

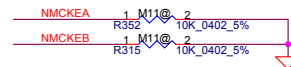
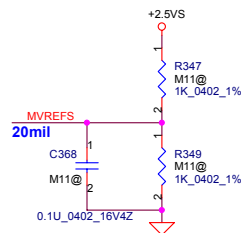
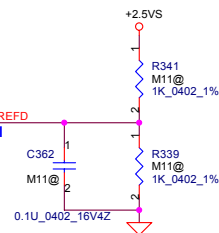
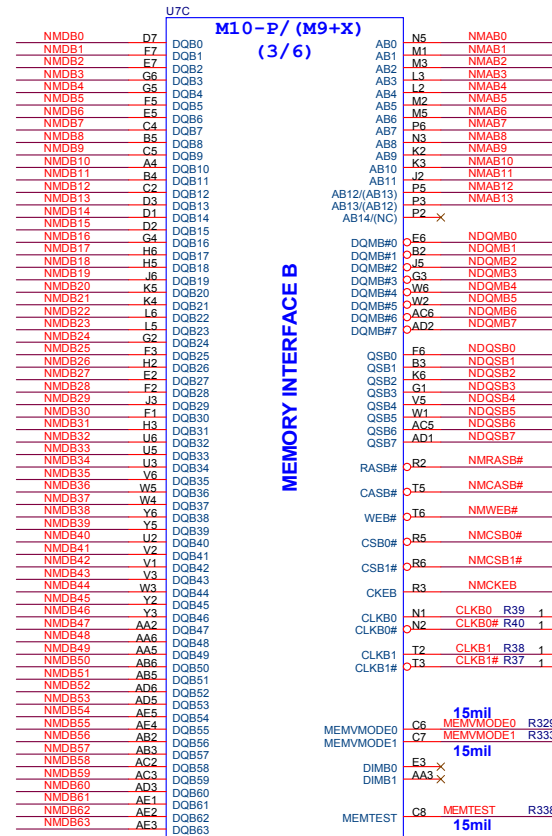
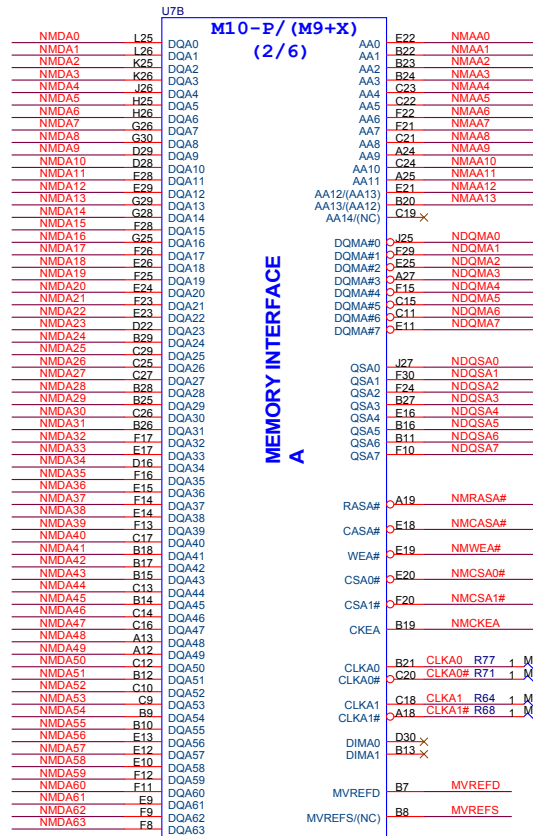
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<17> NMAA[0..13]  NMAA[0..13]
<17> NDQMA[0..7]  NDQMA[0..7]
<17> NDQSA[0..7]  NDQSA[0..7]

<18> NMDB[0..63]  NMDB[0..63]
<18> NMAB[0..13]  NMAB[0..13]
<18> NDQMB[0..7]  NDQMB[0..7]
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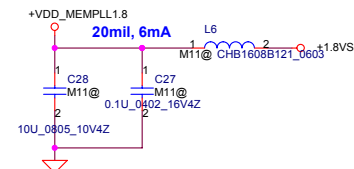
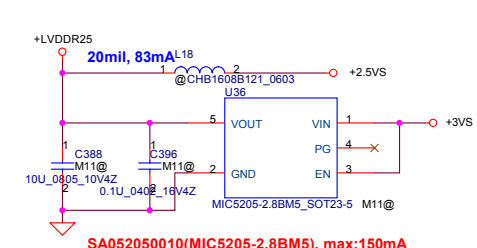
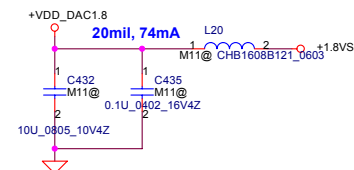
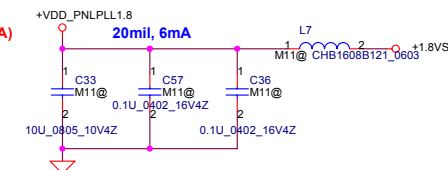
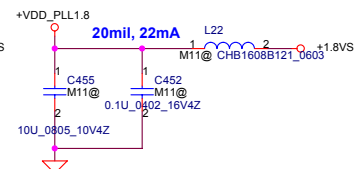
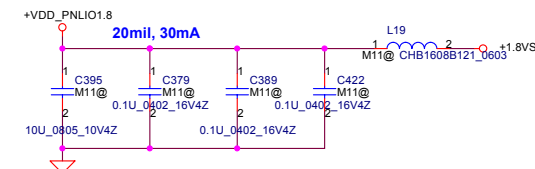
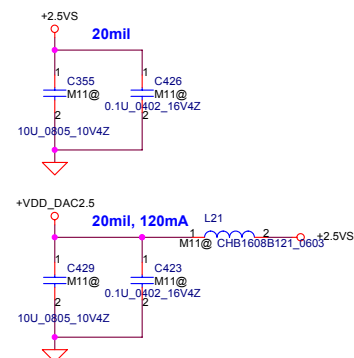
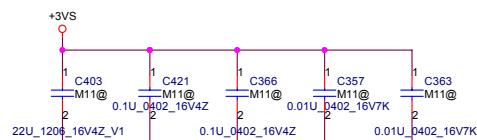
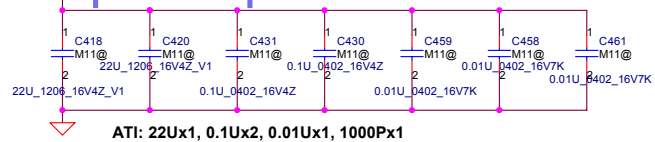
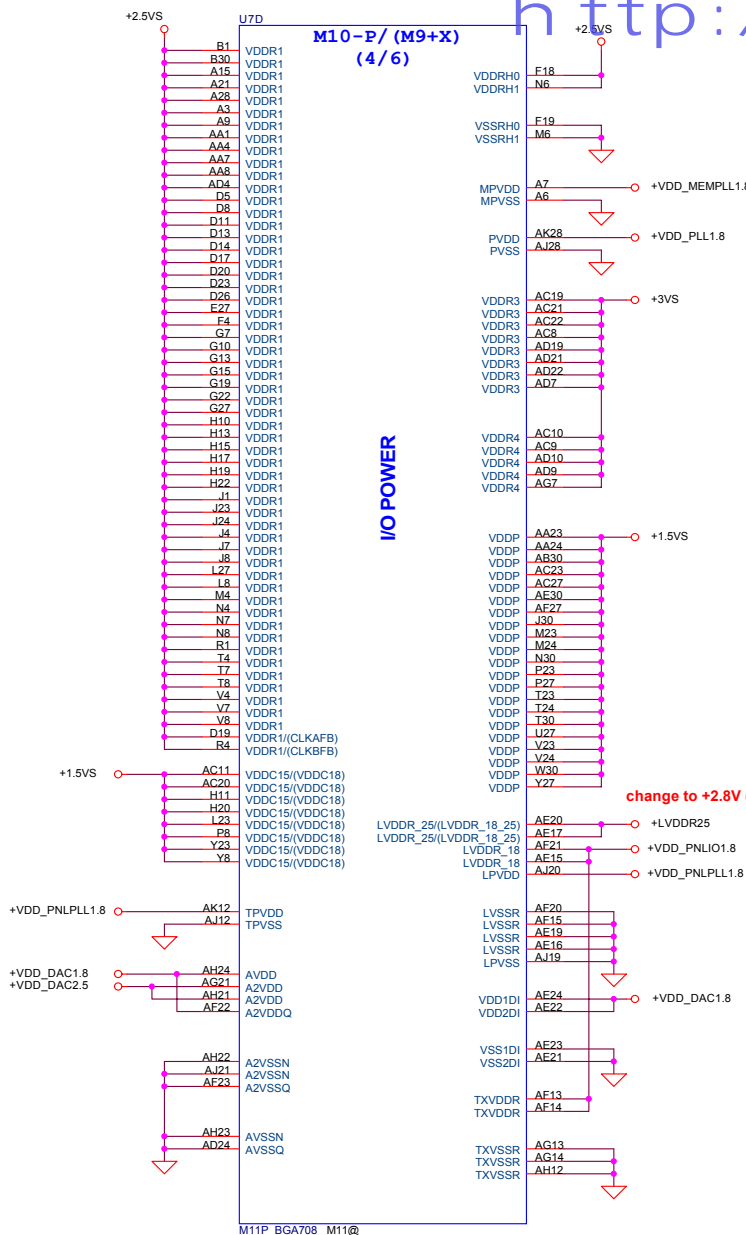


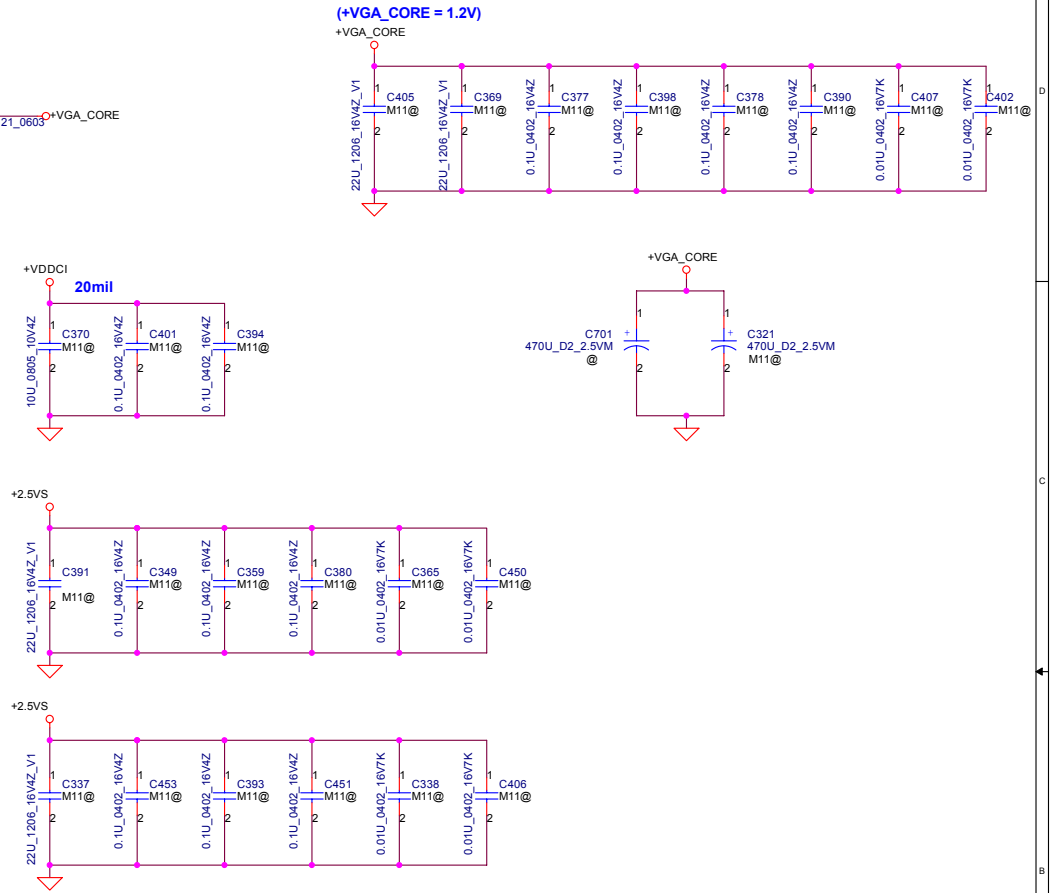
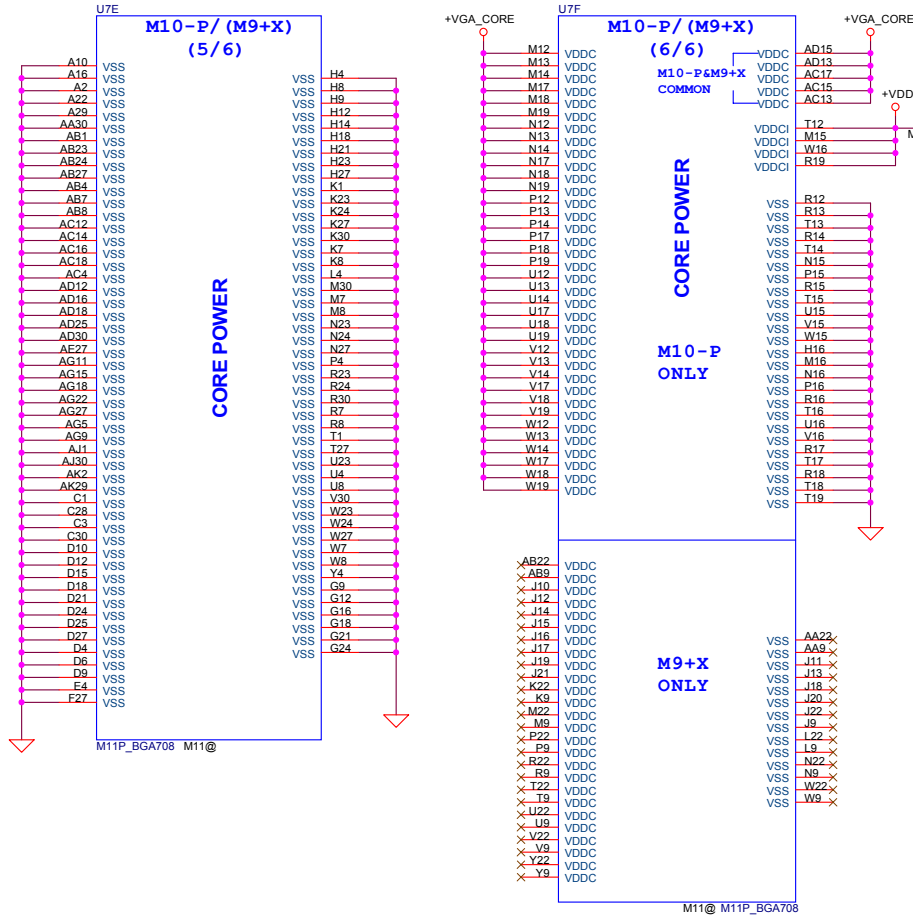
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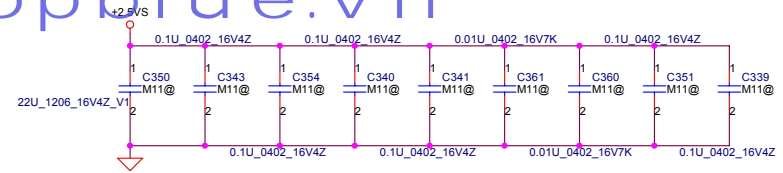
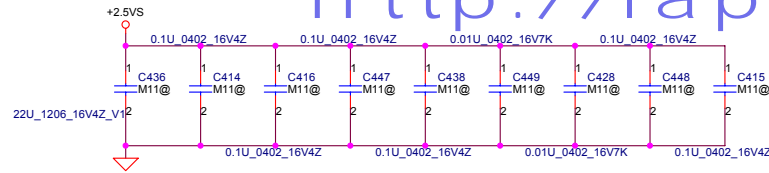
ATI M10-PM11-MEMORY(2/4)

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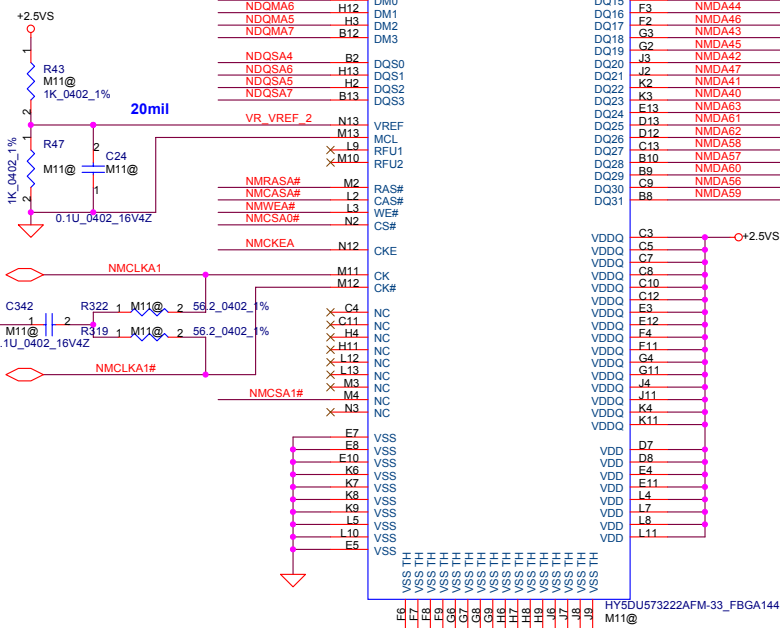
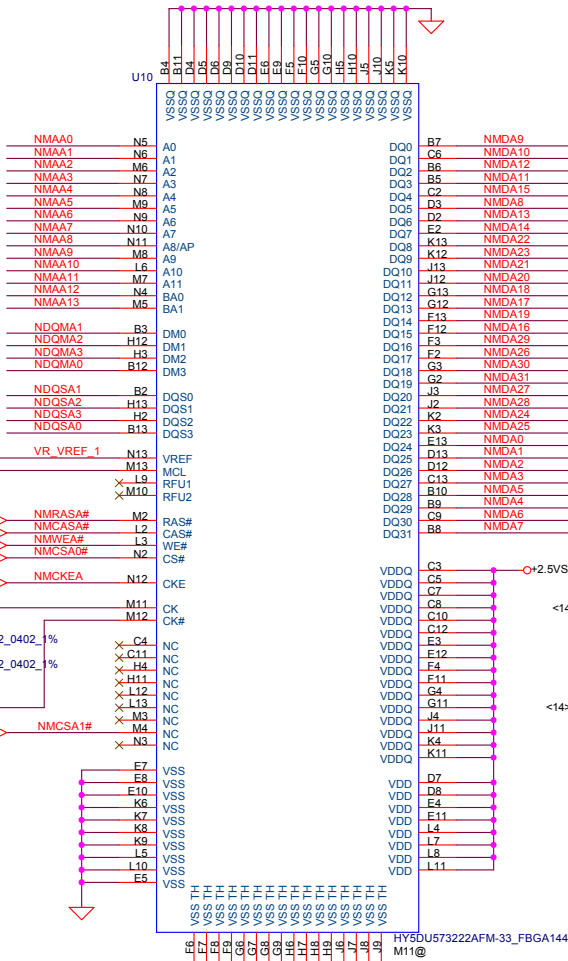
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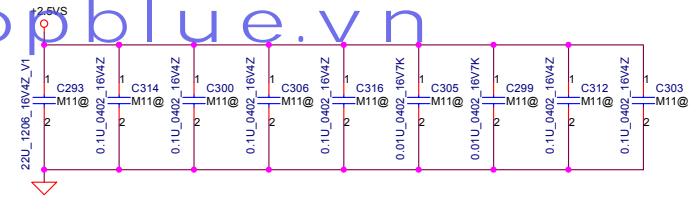
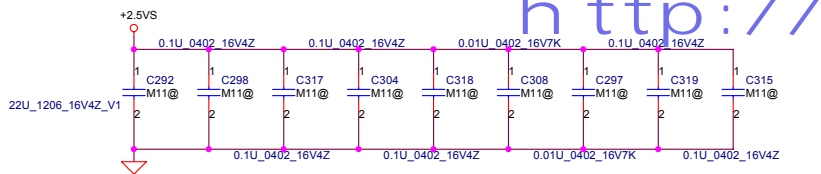




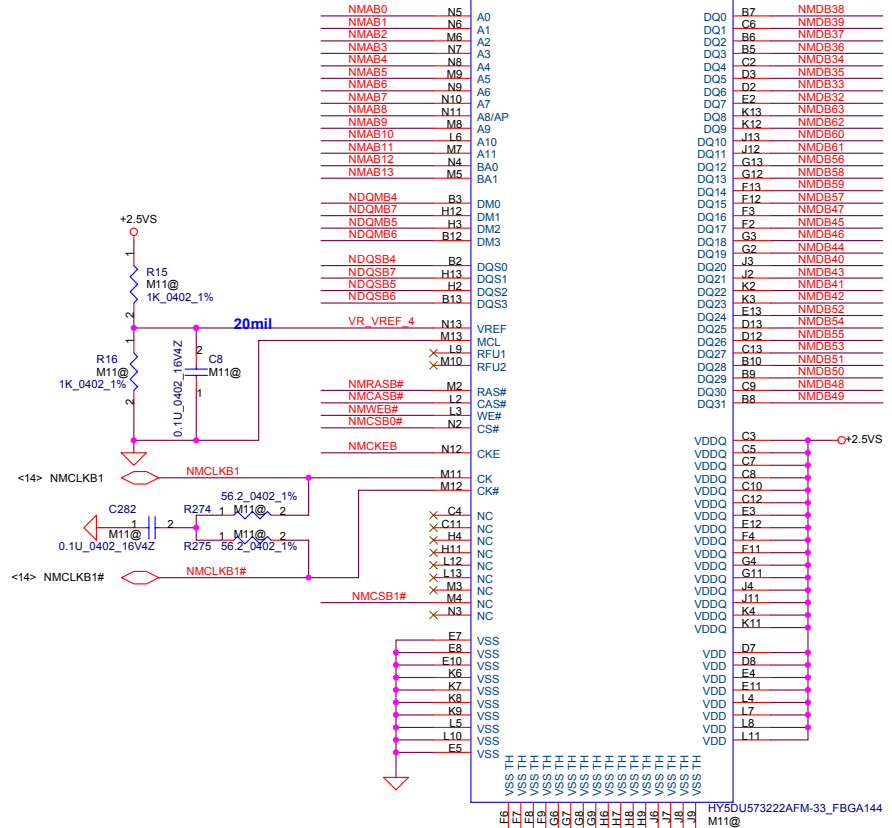
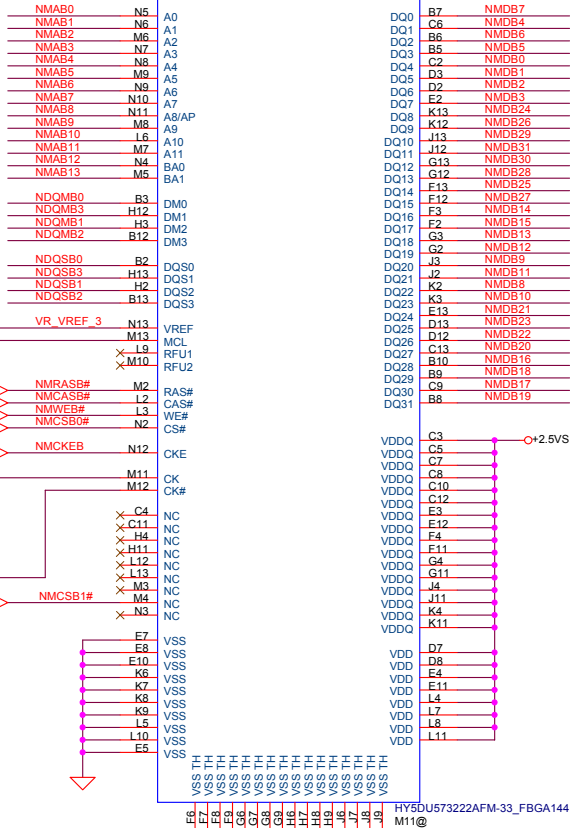


- <14> NMDA[0..63] NMDA[0..63]
- <14> NMAA[0..13] NMAA[0..13]
- <14> NDQMA[0..7] NDQMA[0..7]
- <14> NDQSA[0..7] NDQSA[0..7]





- <14> NMDB[0..63] NMDB[0..63]
- <14> NMAB[0..13] NMAB[0..13]
- <14> NDQMB[0..7] NDQMB[0..7]
- <14> NDQSB[0..7] NDQSB[0..7]



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VGA DDR CHANNEL B

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<http://laptopblue.vn>

The schematic diagram illustrates the electrical connections for the DVO module. Key components and connections include:

- Power and Grounding:**
 - +3VS:** Connected to various pins (e.g., 56, 57, 46, 13, 10, 35, 19, 42, 43, 18, 16, 17, 41, 33, 34, 40, 44, 42, 43, 18, 16, 17, 41, 33, 34, 40, 44) and components like R393, R394, R395, R396, R397, R398, R399, R400, R401, R402, R403, R404, R405, R406, R407, R408, R409, R410, R411, R412, R413, R414, R415, R416, R417, R418, R419, R420, R421, R422, R423, R424, R425, R426, R427, 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, R1067, R1068, R1069, R1070, R1071, R1072, R1073, R1074, R1075, R1076, R1077, R1078, R1079, R1080, R1081, R1082, R1083, R1084, R1085, R1086, R1087, R1088, R1089, R1090, R1091, R1092, R1093, R1094, R1095, R1096, R1097, R1098, R1099, R1100, R1101, R1102, R1103, R1104, R1105, R1106, R1107, R1108, R1109, R1110, R1111, R1112, R1113, R1114, R1115, R1116, R1117, R1118, R1119, R1120, R1121, R1122, R1123, R1124, R1125, R1126, R1127, R1128, R1129, R1130, R1131, R1132, R1133, R1134, R1135, R1136, R1137, R1138, R

Pull High: PAL
Pull Low: NTSC★

LCD POWER CIRCUIT

LCD CONN.

Width: 40mils

$V_{GS(th)} = 0.95V$
 $I_{D(max)} = 2.1A$
 $R_{DS(on)} = 0.07\Omega$

width = 80mil

width = 60mil

From EC

For ATI M11P

For GMCH

LCD DATA R424 1 2 2.2K 0402 5%
 LCD CLK R299 1 2 2.2K 0402 5%

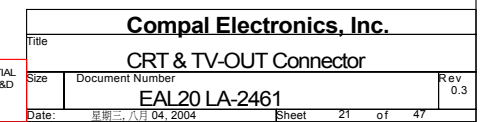
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LCD CONN

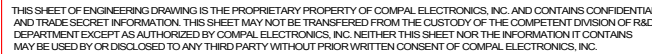
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 Date: 2004.04.04 Sheet 20 of 47

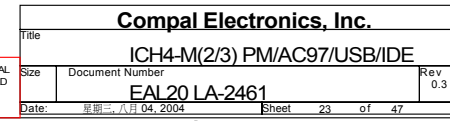
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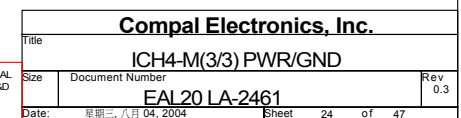


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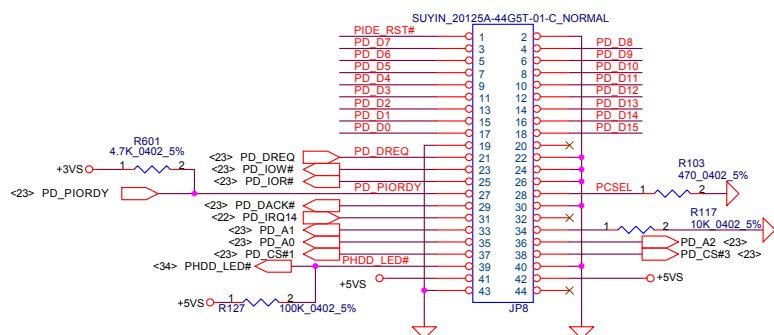


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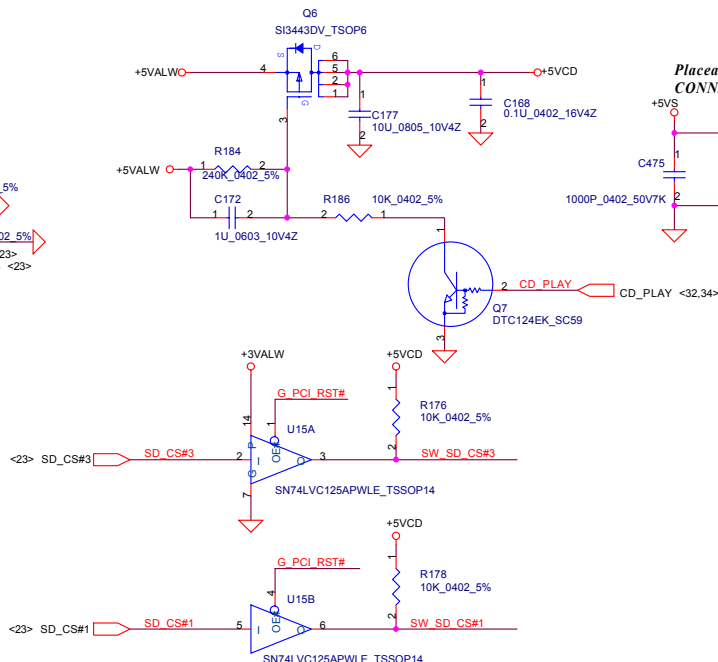


HDD Connector

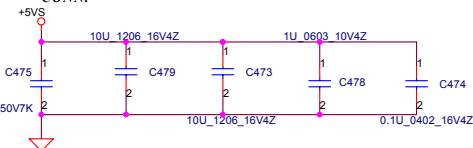
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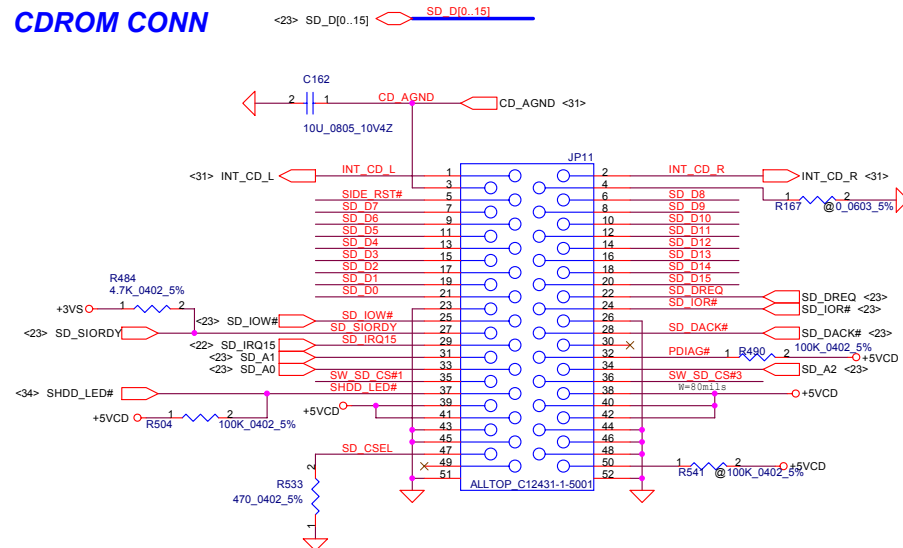
This is reverse type conn, PIDE_RST# connect to pin44.
After connector library ready,
correct connection is PIDE_RST# connect to pin1!



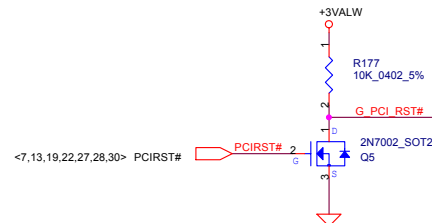
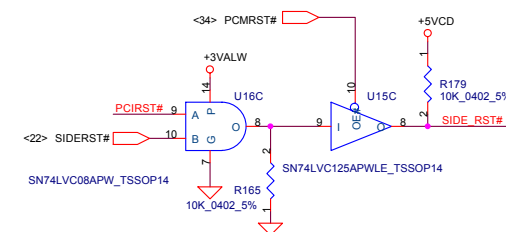
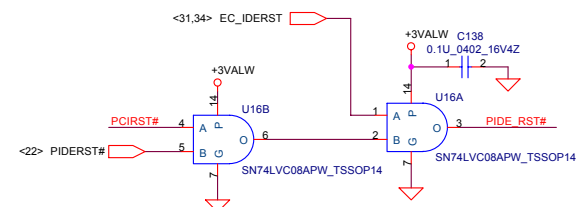
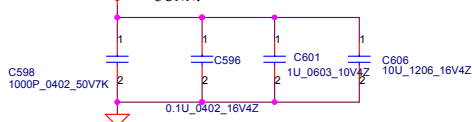
Placea caps. near HDD
CONN.



CDROM CONN

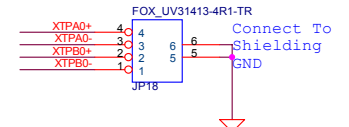
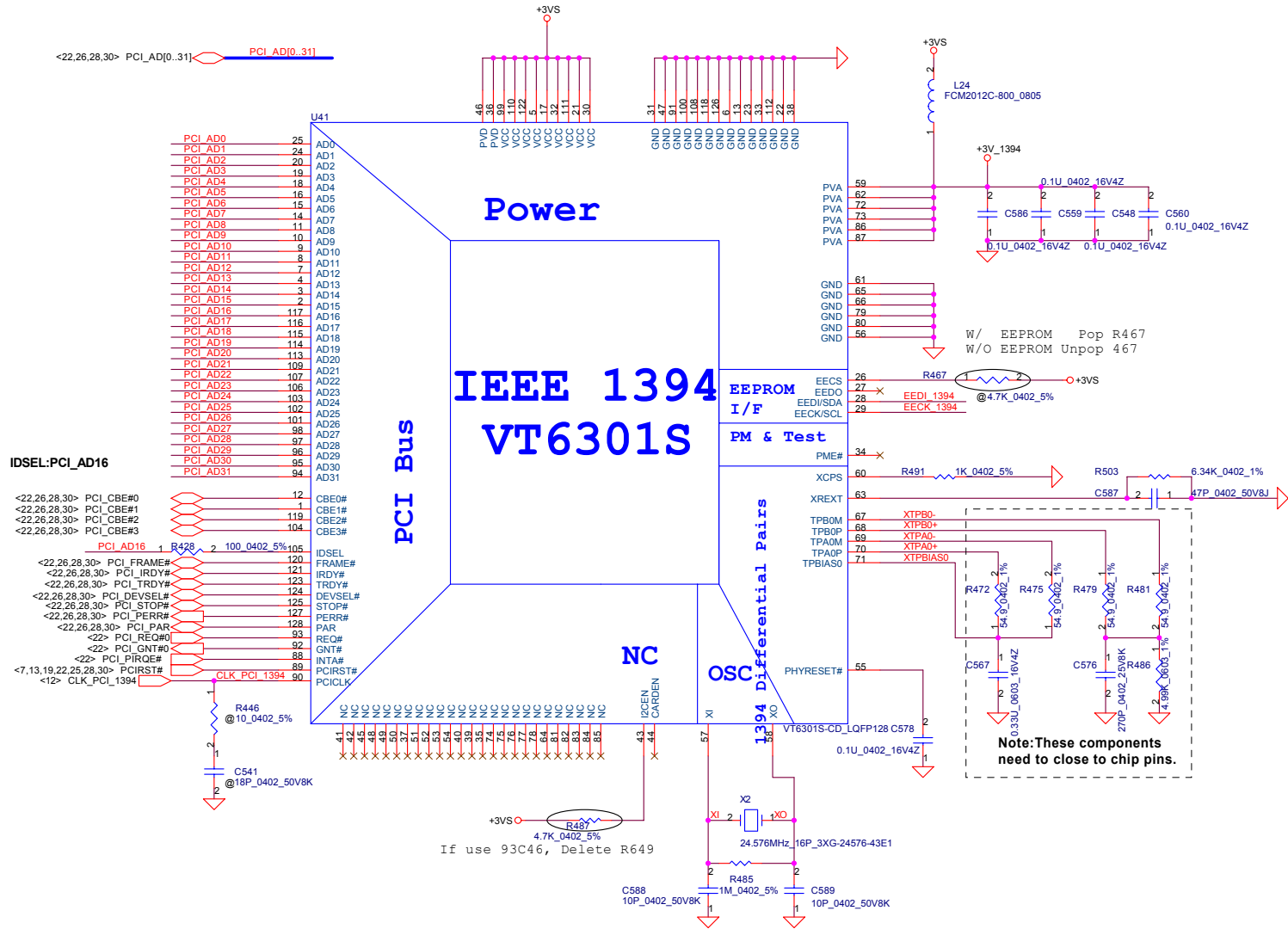


Placea caps. near CDROM
CONN.



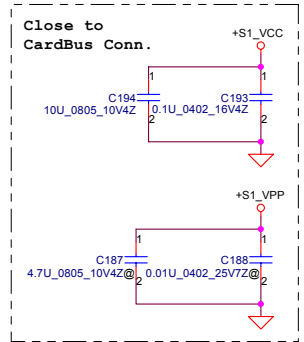
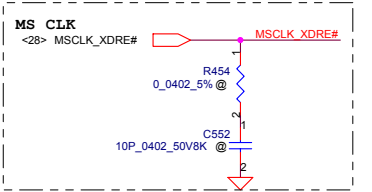
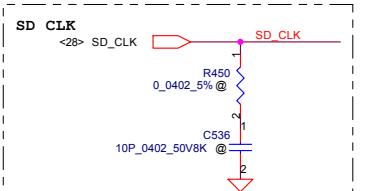
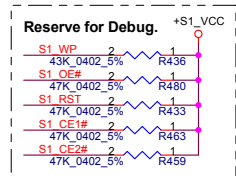
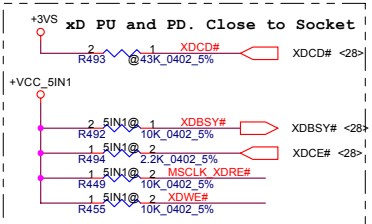
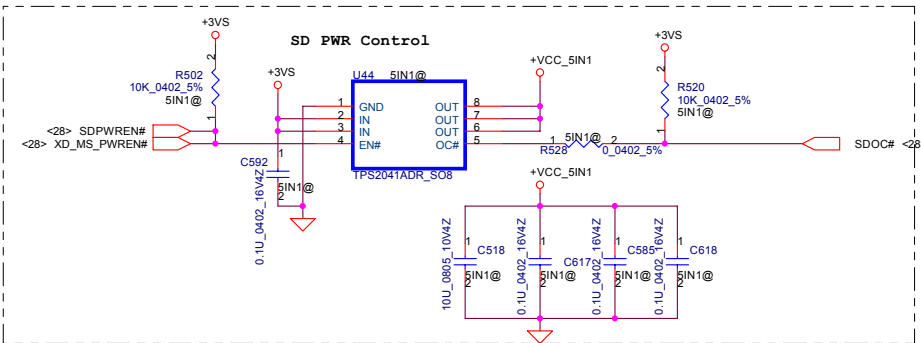
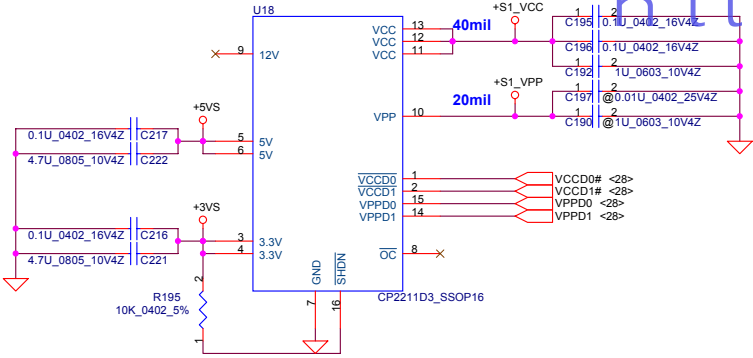
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HDD & CDROM Connector & Direct CD			
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	EAL20 LA-2461	0.3	
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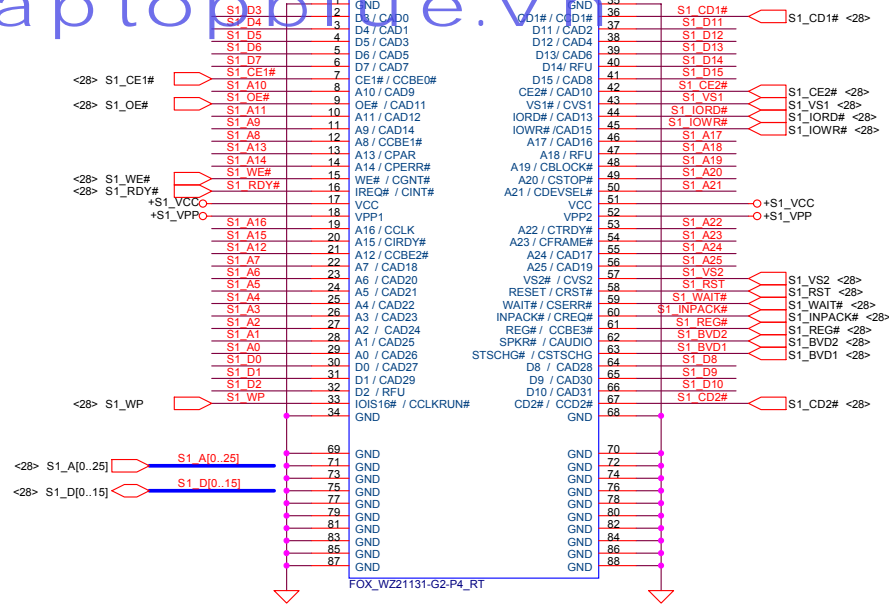


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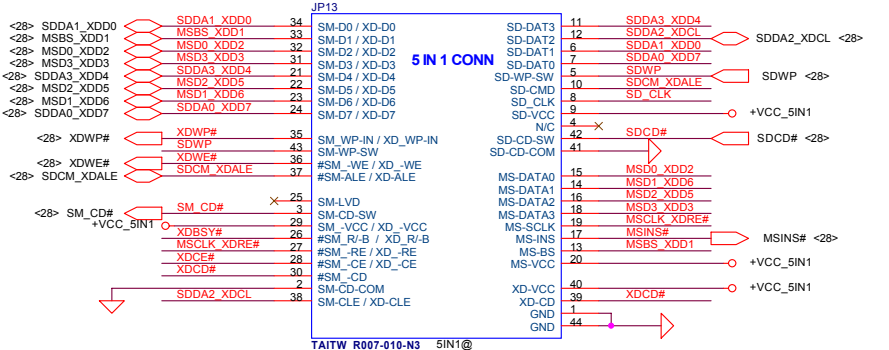
PCMCIA Power Controller



CardBus Socket



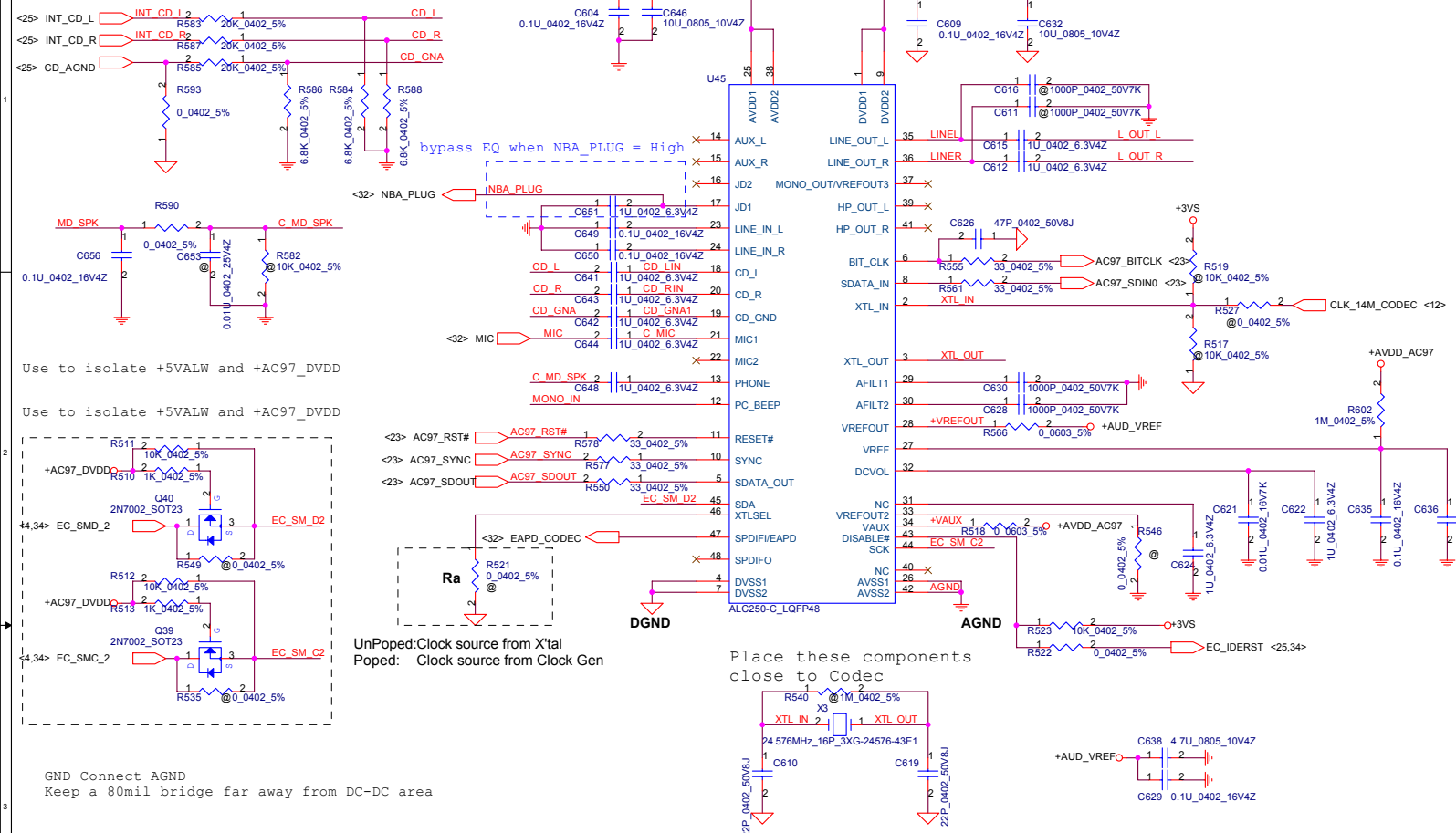
5in1 Socket



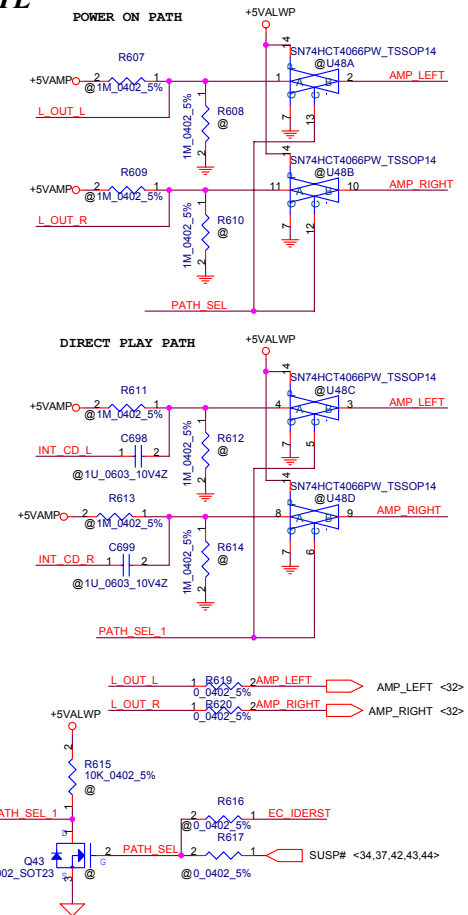
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Title			
Mini PCI Slot			
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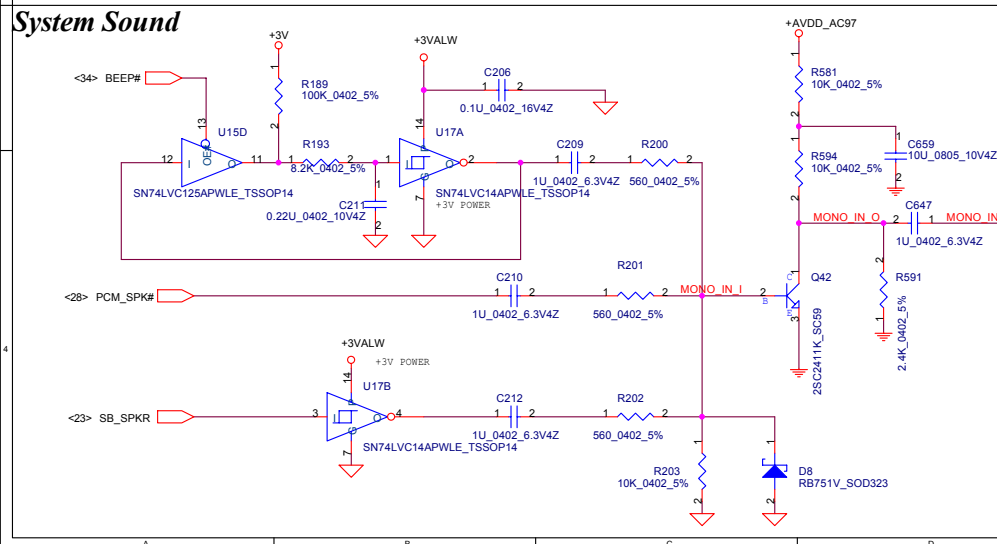
AC97 Codec



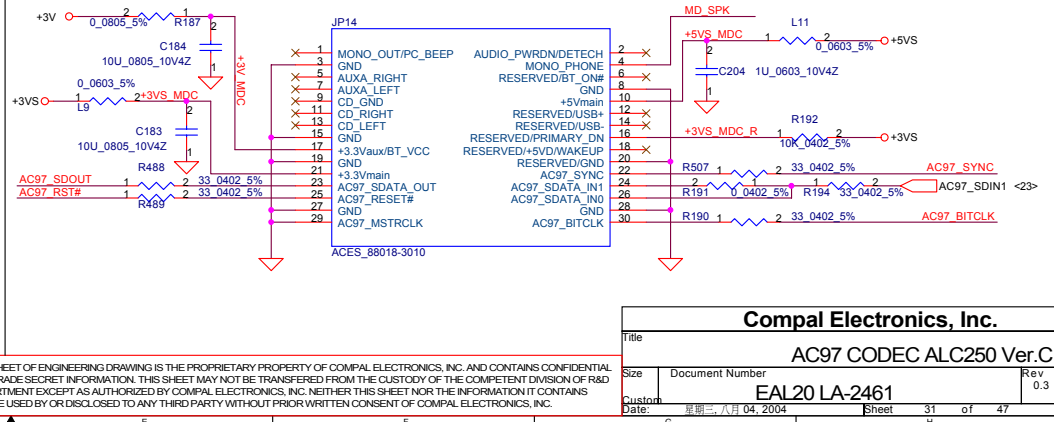
**Direct CD
CTL**



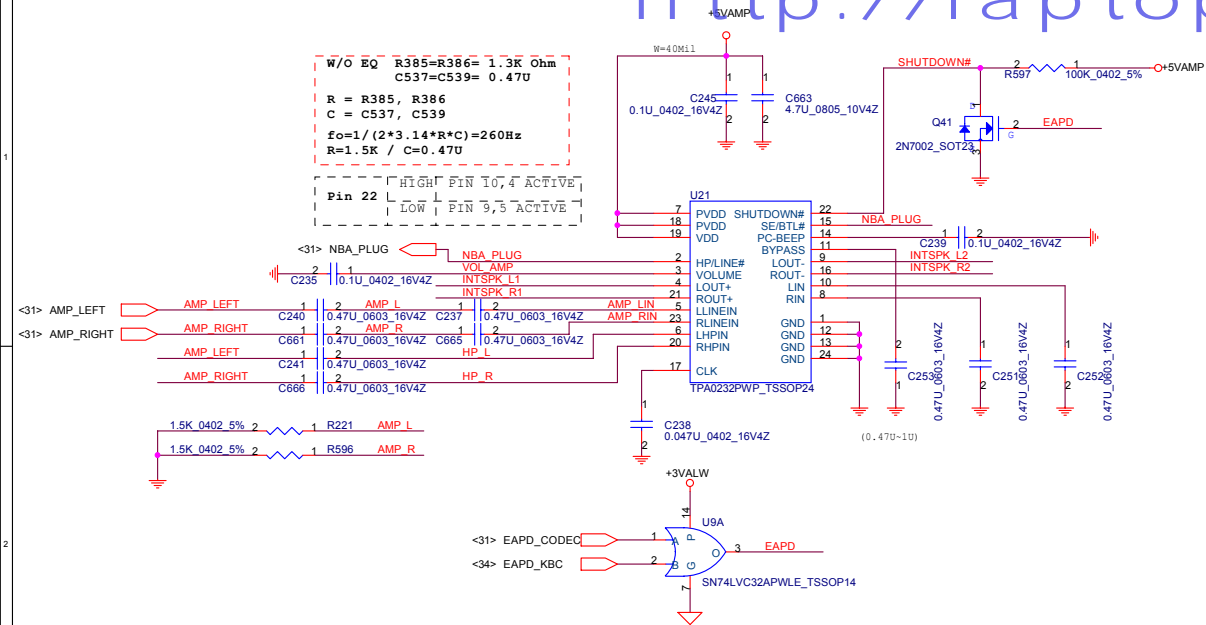
System Sound



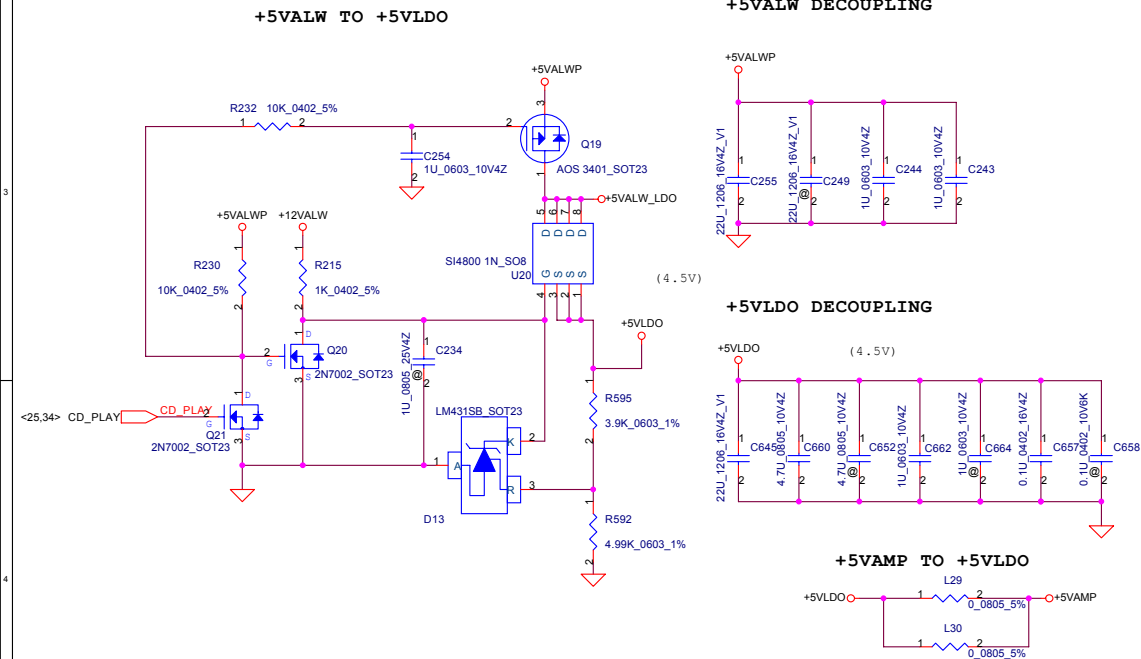
MDC Connector



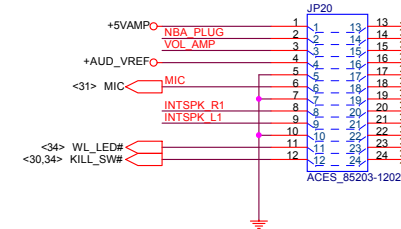
Audio AMP



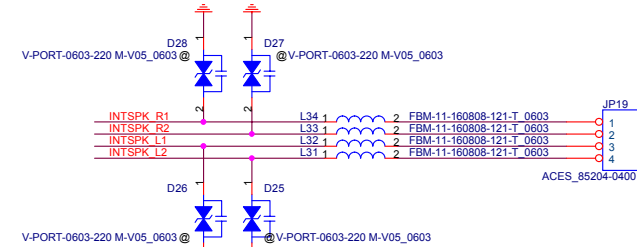
Regulator for AMP



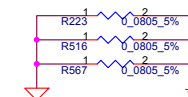
Audio Board Connector



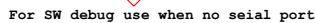
Speaker Connector



Moat Bridge



FIR Module



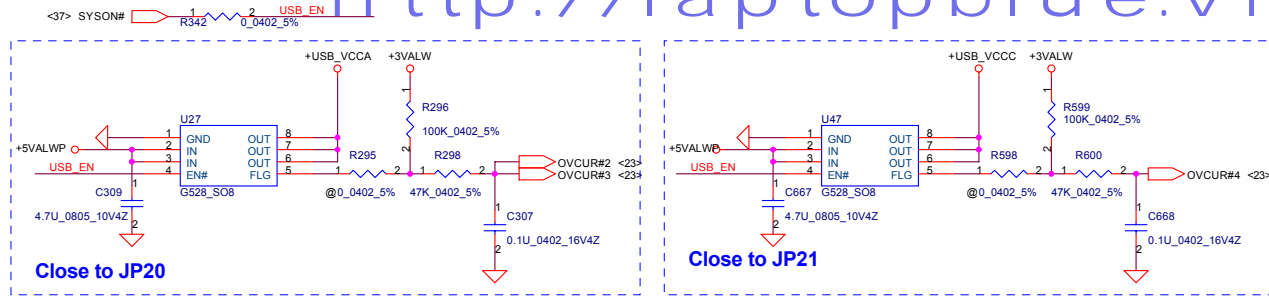
L: R POP: FIR Enable
H: R De-POP FIR Disable



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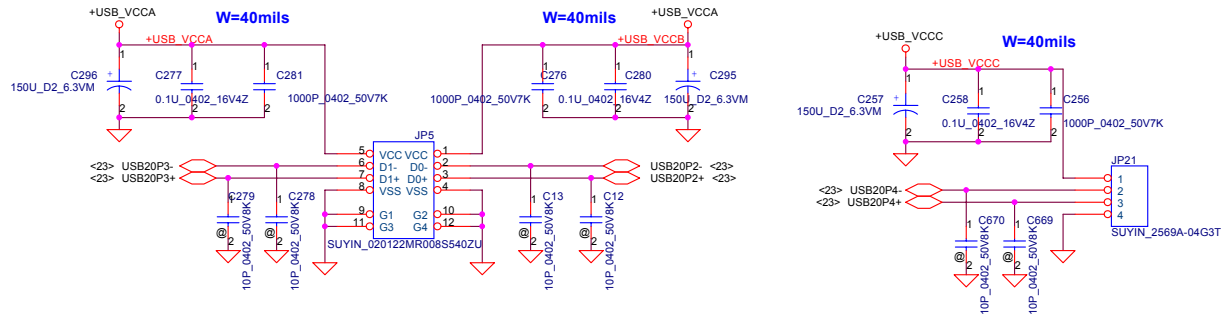




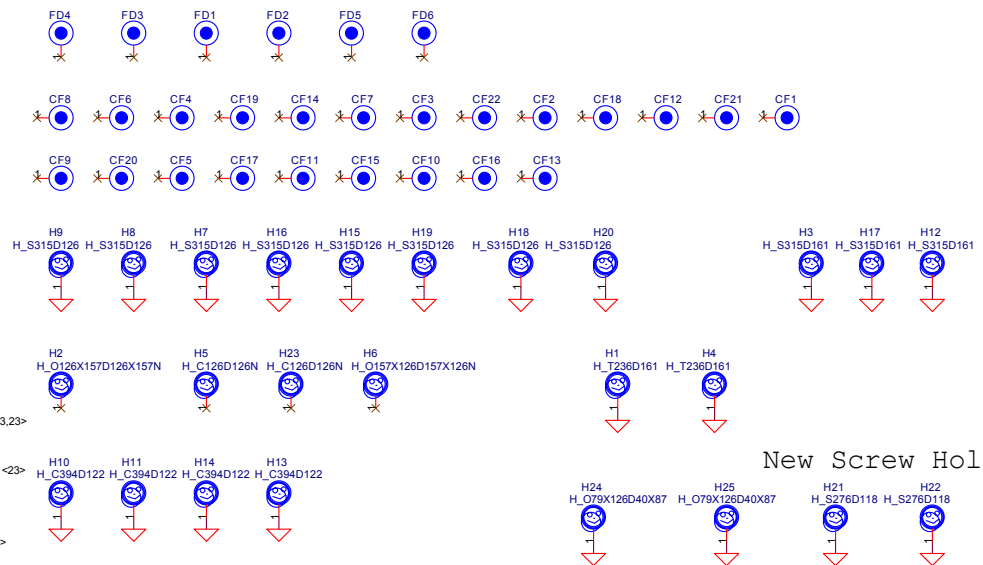
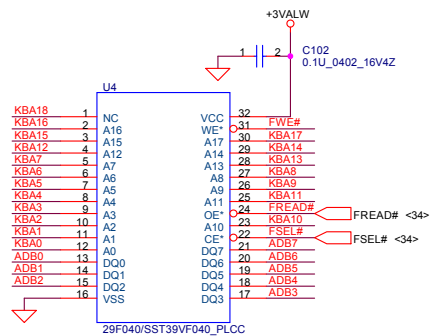
USB CONN. 1

USB CONN. 2

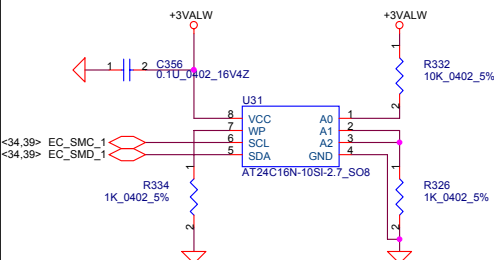
USB CONN. 3



512kB Flash ROM



New Screw Hole

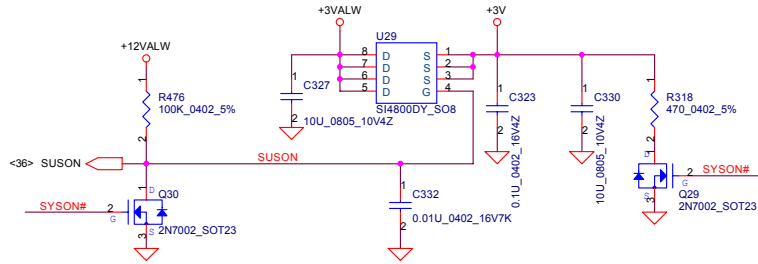


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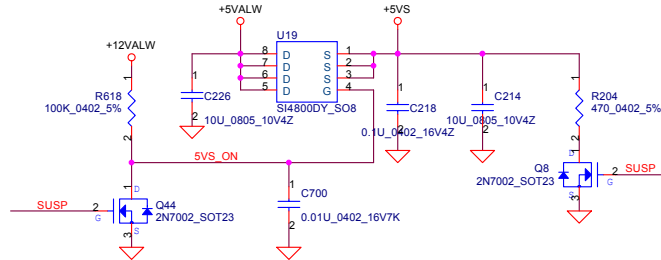
Compal Electronics, Inc.			
Title		BIOS/WL-SW/Screw Hole/USB	
Size	Document Number	EAL20 LA-2461	Rev. 0.3
Date	星期三, 八月 04, 2004	Sheet	35 of 47

ON/OFF BUTTON

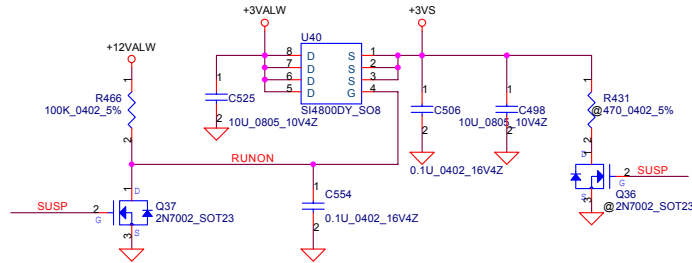
+3VALW to +3V Transfer



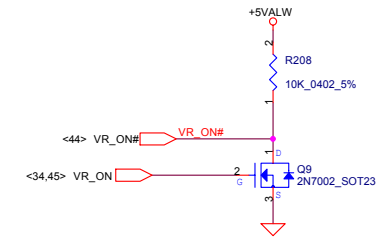
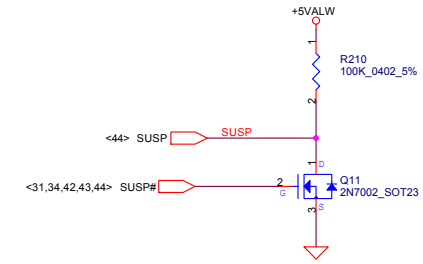
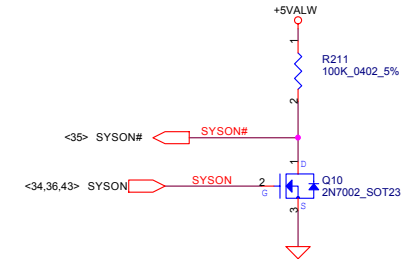
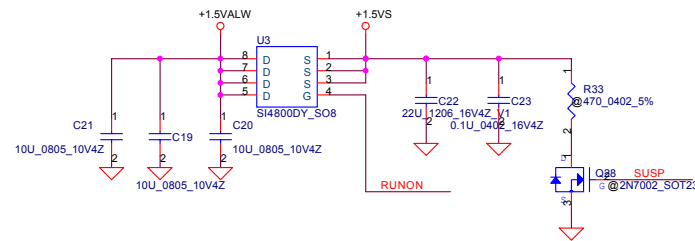
+5VALW to +5VS Transfer



+3VALW to +3VS Transfer

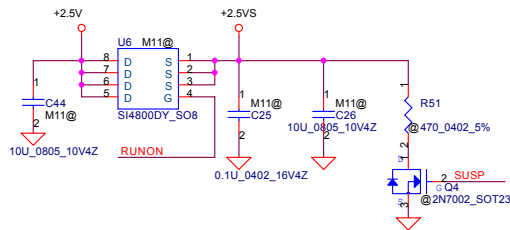


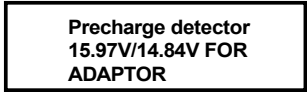
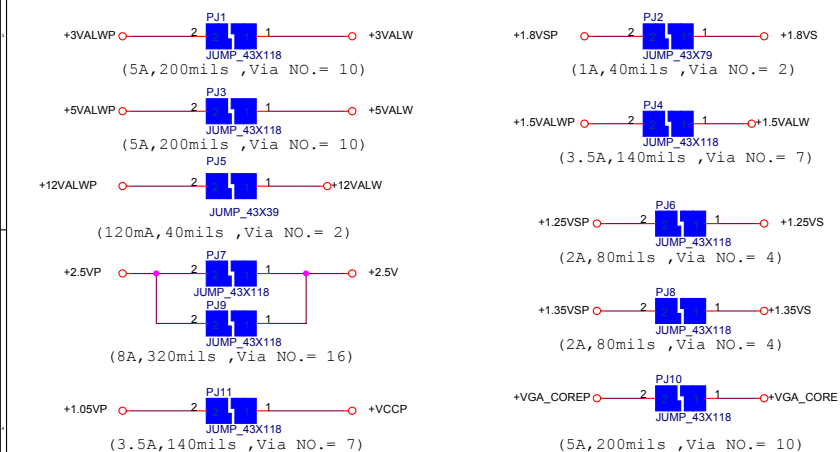
+1.5VALW to +1.5VS Transfer



remove on integrated VGA sku

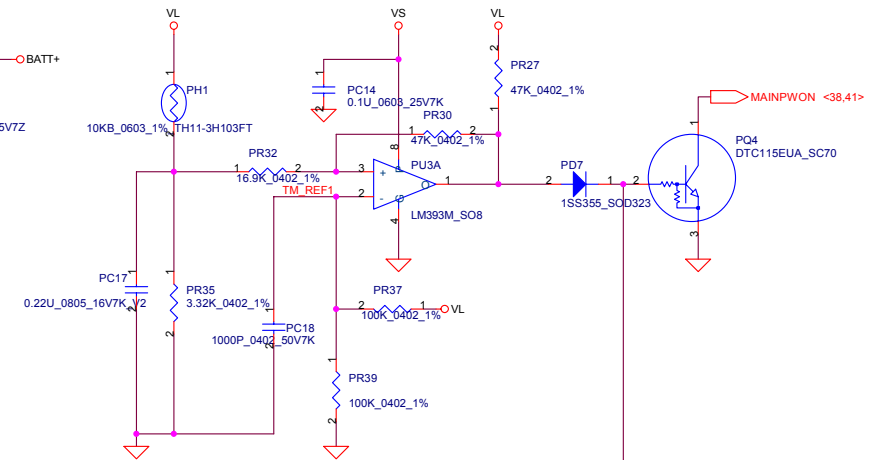
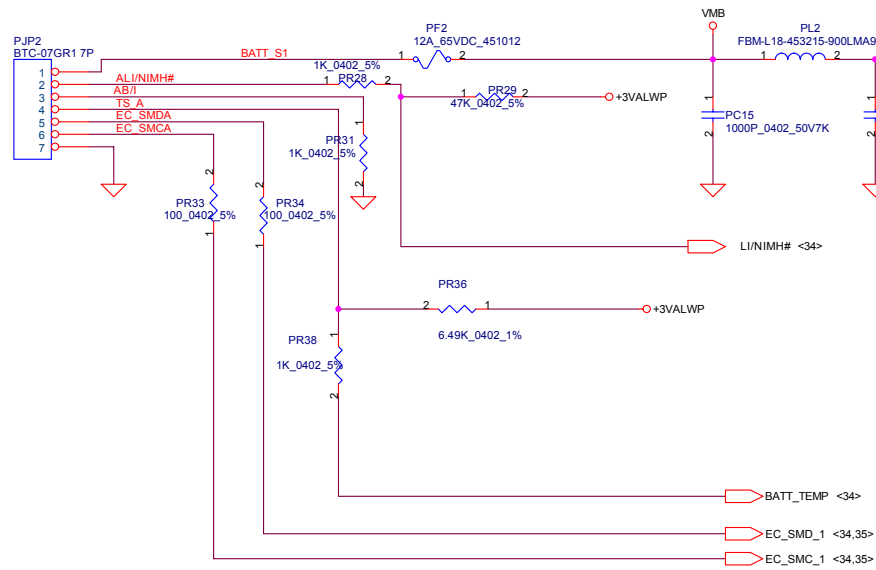
+2.5V to +2.5VS Transfer



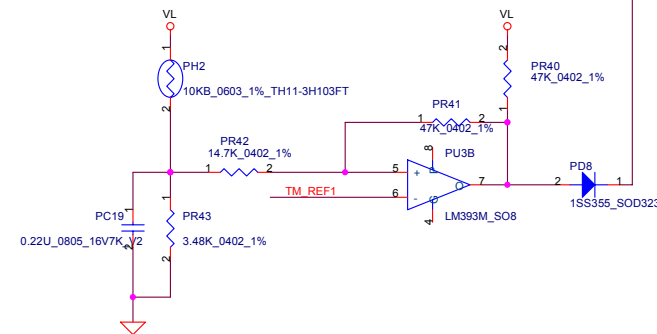
[illegible]

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DCIN & DETECTOR			
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	EAL20 LA-2461		0.3
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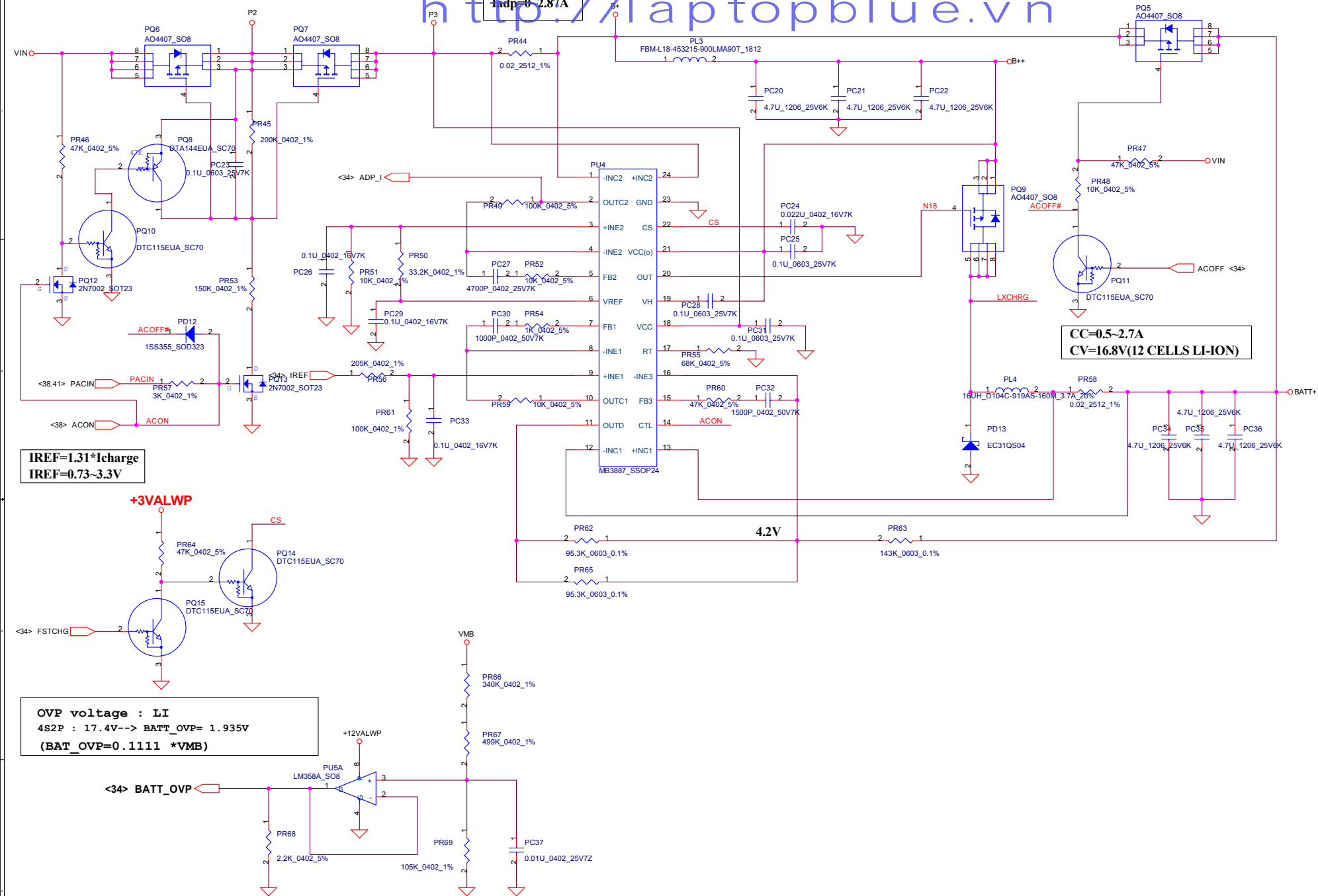
PH1 under CPU botten side :
CPU thermal protection at 84 degree C
Recovery at 45 degree C



PH2 near main Battery CONN :
BAT. thermal protection at 79 degree C
Recovery at 45 degree C



I_{adp}=0.287A



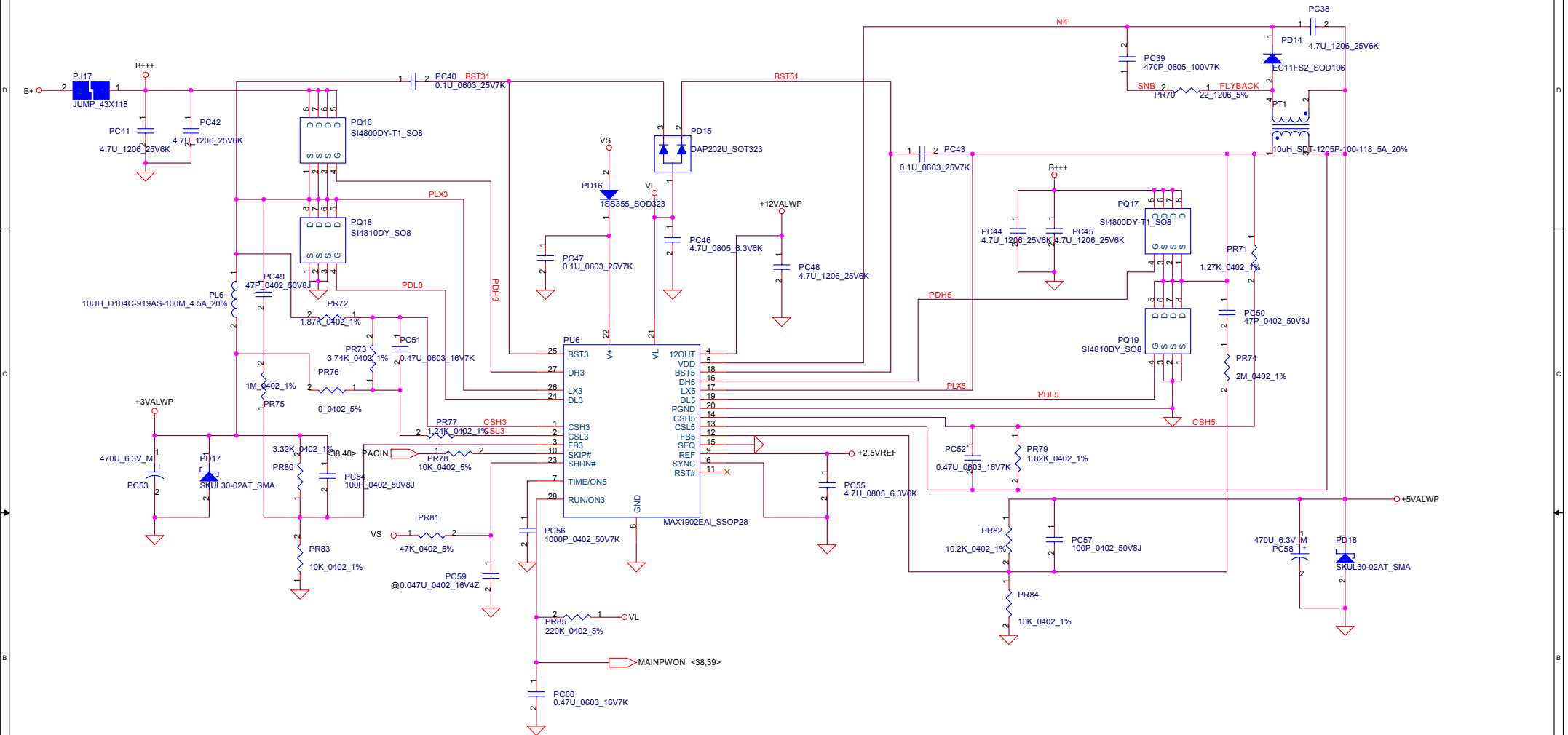
I_{REF}=1.31*I_{charge}
I_{REF}=0.73~3.3V

CC=0.5~2.7A
CV=16.8V(12 CELLS LI-ION)

OVP voltage : LI
4S2P : 17.4V--> BATT_OVP= 1.935V
(BAT_OVP=0.1111 *VMB)

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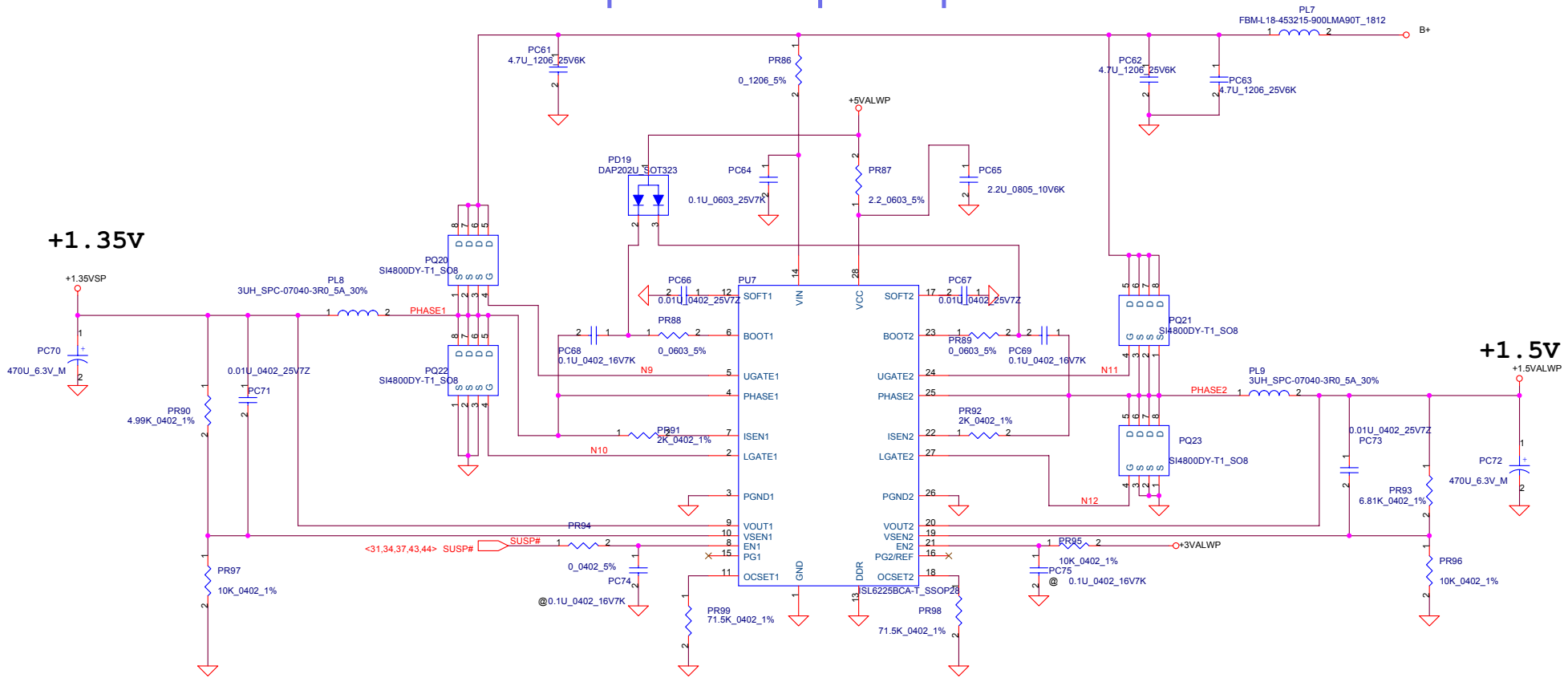
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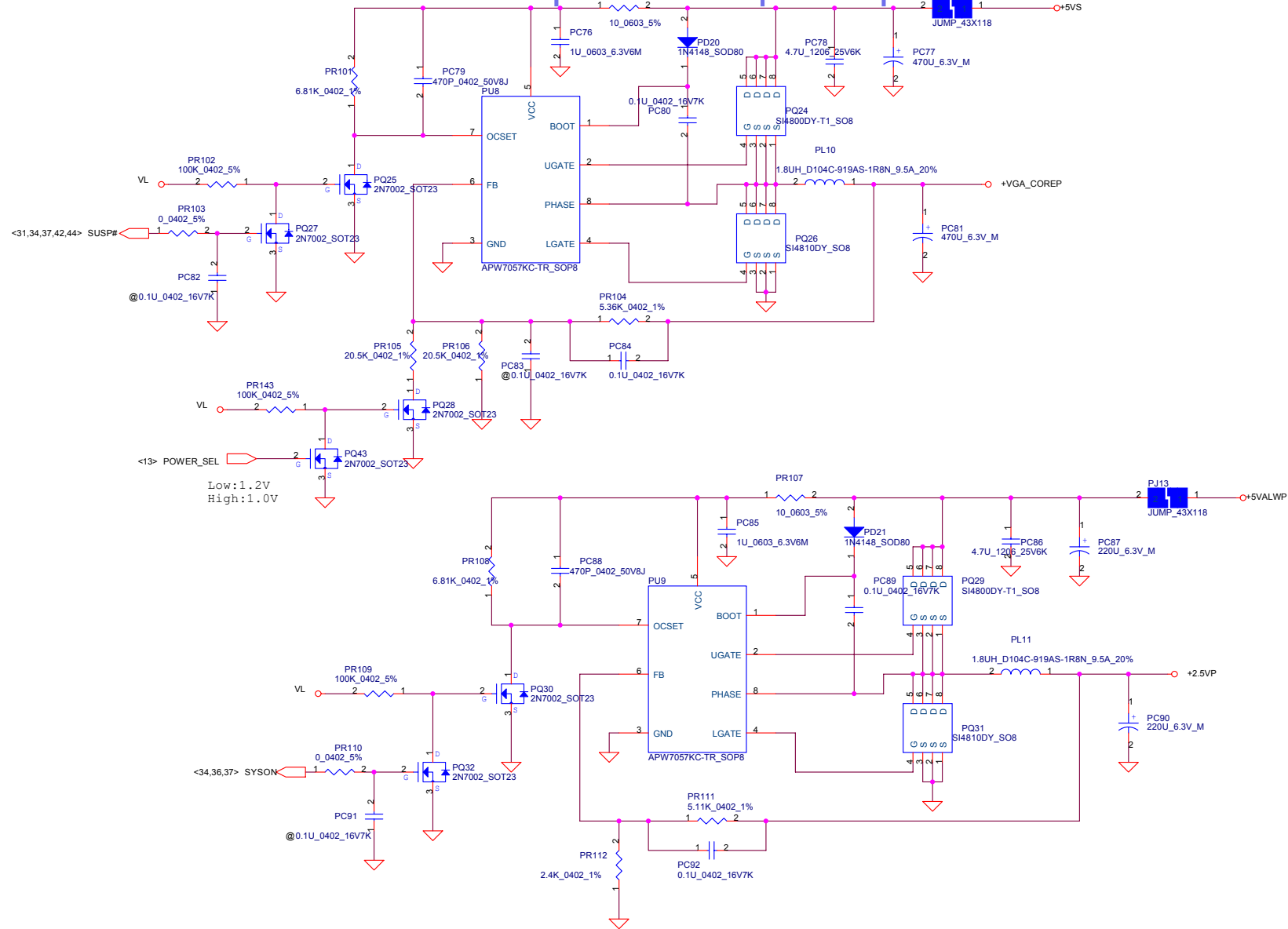
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Title		5V/3.3V/12V	
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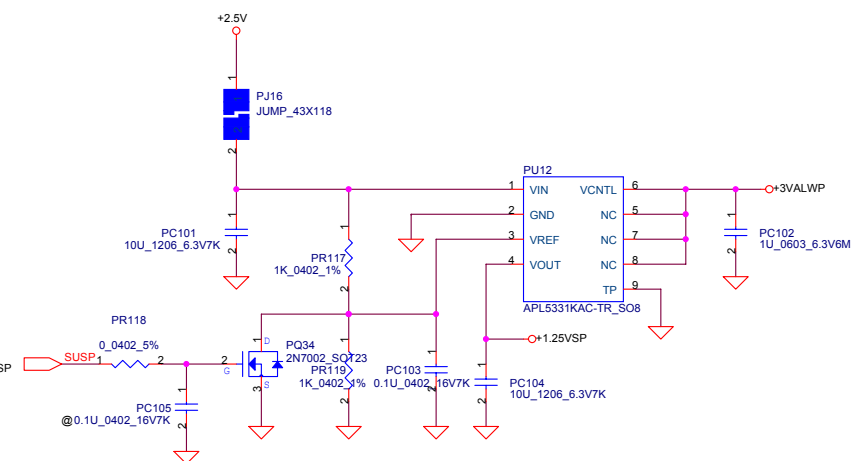
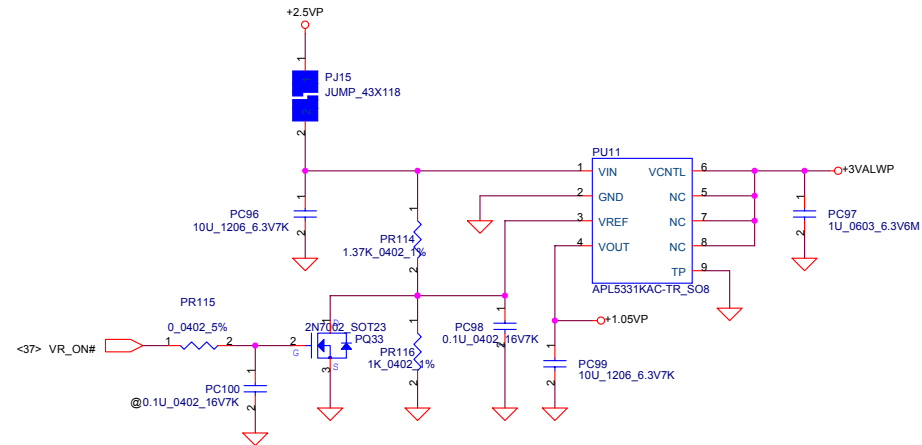
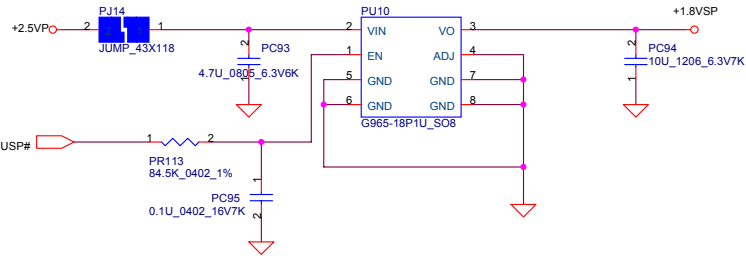
Compal Electronics, Inc.			
Title		1.35V/1.5V	
Size	Document Number	Rev	
	EAL20 LA-2461	0.3	
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Title			2.5V_VGA_CORE
Size	Document Number	EAL20 LA-2461	
Date:	星期四, 八月 05, 2004	Sheet	43 of 47
		Rev	0.3



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Title		1.8V/1.25V/1.05V	
Size	Document Number	EAL20 LA-2461	
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ev

PWR PIR LIST

http://laptopblue.vn

EVT

page	Reason for change	Modify list
41	Improve design margin	Change PD17,PD18 from SSM14 to SKUL30-02AT
43	Change 2.5V,VGA_CORE OCP to 8A	Change PR101,PR108 from 5.11K to 6.81K
39	Improve design margin	Change PF2 rating from 7A to 12A

DVT

43	Reverse POWER_SEL signal level for HW request	Add PR143(100K),PQ43
41	Adjust 3.3V OCP	Change PR72 from 1.27K to 1.87K_0402_1% Change PR73 from 1.27K to 3.74K_0402_1% Change PR77 from 620 to 1.24K_0402_1%
41	Adjust 5V OCP	Change PR71 from 1.54K to 1.27K_0402_1% Change PR79 from 698 to 1.82K_0402_1%
43	Change choke for design margin	Change PL10,PL11 from 4.7UH to 1.8UH
44	Add 1.8V delay time for HW	Change PR113 from 0 to 84.5K_0402_1% Add 0.1U at PC95
45	For EMI requirement	Change PR121,PR136 from 0 to 2.2_0603_5%
45	Adjust CPU_CORE voltage	Change PR126,PR131 from 3K to 2.7K_0402_1%
42	Modify 1.5V enable signal for HW request	Change PR95 from 0 to 10K_0402_1%

PVT

43	Modify PL10 and PL11 Footprint	
38	Change DC-IN Jack as "SINGA_2DC-G213-B04_4P"	
41	Change PL5 as PJ17	
43	Raise VGA_CORE voltage to 1.21V for HW requirement	Change PR104 from 5.11K_0402_1% to 5.36K_0402_1%
45	Adjust CPU_CORE voltage	Change PC118 from 0.022U to 2200P

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Title	EAL20 PIR LIST	
Size B	Document Number	Rev
	FortWorth Banias	0.3
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NO	DATE	PAGE	MODIFICATION LIST	PURPOSE
1	6/23	P31	POP R521	CODEC CLOCK SOURCE FROM CLOCK GEN
2	6/23	P35	CHANGE R342.1 CONNECTION FROM SYSON TO SYSON#	CHANGE USB POWER TO LOW ACTIVE
3	6/23	P29	CHANGE R492.2 PULL HIGH FROM +3VS TO +VCC_5IN1	CHANGE PULL HIGH POWER
4	6/23	P36	SWAP PIN OF JP16	CHANGE JP16 DIRECTION
5	6/23	P12	RESERVE C671	ADD CAP TO CONTROL VGATE RISING TIME
6	7/05	P12	CHANGE CLK_PCI_1CH CONNECT FROM U49.11 TO U49.7	CHANGE 1CH PCI CLK SOURCE TO FREE RUN
			CHANGE CLK_PCI_1394 CONNECT FROM U49.7 TO U49.11	CLOCK, TO SOLVE SYSTEM CAN NOT SHUTDOWN ISSUE
7	7/05	P29	CHANGE 5IN1 CONNECTOR FROM TAI SOL TO TAITWAN	CHANGE CONNECTOR VENDOR
8	7/06	P29	DEL R251, R249	DEL 750HM TERMINATION
		P13	ADD R603, R604	ADD 750HM TERMINATION CLOSE TO CHIP
		P19	RESERVE R605, R606	RESERVE 750HM TERMINATION CLOSE TO CHIP
9	7/06	P22	INSERT D29 BETWEEN GPI11 AND ACIN	PREVENT SB LEAKAGE DURING DC-IN
				TO SOLVE POWER BOTTON NO FUNCTION ISSUE
10	7/06	P13	ADD R317 100K_0402_5% PULL DOWN POWER_SEL	PREVENT SIGNAL FLOATING
11	7/06	P29	CHANGE R528 CONNECTION	FOR CUSTOMER REQUEST
12	7/06	P36	DEL CP1-CP6, ADD C329, C672-C697	FOR EMI REQUEST
13	7/06	P36	CHANGE Q16.1 CONNECT TO ON/OFF	TO CORRECT LID SW FUNCTION
14	7/06	P20	CHANGE R294 FROM 0603 TO 0805, R19 FROM 0805 TO 1206	TO INCREASE RATING
15	7/07	P31	RESERVE 1M_0402_5% R607-R614, HCT4066 U48	TO CONTROL POWER ON/OFF AUDIO CD PATH
			RESERVE 10K_5%_0402 R615, 0_0402_5% R617, RESERVE R616	ADD MUX SW CONTROL
16	7/07	P12	ADD L35 BETWEEN +3VS AND +3VS_CLK	FOR CUSTOMER REQUEST
17	7/08	P37	CHANGE C554 FROM 0.01U TO 0.1U	CHANGE POWER ON SEQUENCE
			CHANGE U19.4 NET FROM RUNON TO 5VS_ON	
			ADD R618, Q44, C700, ADD 5VS_ON NET	CONTROL +5VS CONTROL GATE
18	7/09	P06	CHANGE R461 FROM 27.4 TO 37.4OHM	CHANGE RESISTANCE FOR 855GME
19	7/09	P26	CHANGE C325 FROM 0.01U TO 0.1U, R292 FROM 5.9K TO 5.36K	CHANGE R.C TO PASS LAN TEST
20	7/09	P29	CHANGE CP2211 U18 FROM C1 TO D3 VERSION	CHANGE FOR MATERIAL EOL

NO	DATE	PAGE	MODIFICATION LIST	PURPOSE
1	7/15	P19	CHANGE R389, R393 BOM STRUCTURE FROM UMA@ TO @	REMOVE IN UMA SKU
2	7/20	P16	RESERVE D2 SIZE CAP C701 ON +VGA_CORE PLANE	ADD ONE MORE BULK CAP FOR VGA CORE
3	7/20	P28	ADD D12, R217, R438, R440, R443, R447, R448, R456, R458, R474, R495, R501 BOM STRUCTURE 5IN1@	CHANGE BOM STRUCTURE TO CONTROL BOM
		P29	ADD C518, C585, C592, C617, C618, R449, R455, R492, R494, R502, R520, R528, JP13, U44 BOM STRUCTURE 5IN1@	
		P12	ADD R524 BOM STRUCTURE 5IN1@	
4	7/20	P31	NEW ADD R619 BETWEEN L_OUT_L AND AMP_LEFT	ADD RES TO BYPASS MUX
			NEW ADD R620 BETWEEN L_OUT_R AND AMP_RIGHT	
5	7/20	P12	CHANGE R574 TO RESERVE	CHANGE AC CODEC CLOCK SOURCE
		P31	CHANGE R527, R521 TO RESERVE	
			CHANGE X3, C610, C619 TO MOUNT	
6	7/20	P31	CHANGE U45.47 NET NAME FROM EAPD TO EAPD_CODEC	USE KBC TO MUTE AMP
		P34	NEW ADD R621 BETWEEN EAPD_KBC AND U35.11	
		P32	ADD U9A, CONNECT U9A.1 TO EAPD_CODEC, U9A.2 TO EAPD_KBC U9A.3 TO EAPD	
7	7/21	P34	RESERVE R622.2, R623.2, R624.2 PULL HIGH TO +3VALW	ADD SKU ID FUNCTION FOR EC RECOGNIZES
			NEW ADD R625.2, R626.2, R627.2 PULL LOW TO GND	
			ADD SKU_ID0 CONNECT BETWEEN U35.93, R622.1, R625.1	
			ADD SKU_ID1 CONNECT BETWEEN U35.94, R623.1, R626.1	
			ADD SKU_ID2 CONNECT BETWEEN U35.75, R624.1, R627.1	
8	7/26	P28	Modify "5IN1@ " to "5IN1@"	
		P29	Modify "5IN1@ " to "5IN1@"	
		P30	Modify "KS@ " to "KS@"	
		P33	Modify R157 remark from "FIR@" to "@"	
		P21	Modify JP3 footprint from "SU YIN 030336FR004T115ZU 4P_EAL20" to "030336FR004T115ZU_4P_EAL20"	
9	7/29	P36	Shift SW/LED Connector signal up one pins, leave JP15.11 as NC.	
		P35	Add 3 screw hole, H23(H_C126D126N), H24 and H25 (H_O79X126D40X87)	
			H23 for M/B location Keeping.	
			H24 and H25 for Double USB holding.	
10	7/31	P20	L5 and L4 change as 0_0805_5%	
		P31	L9 and L11 change as 0_0603_5%, L26, L27 and L28 change as 0_0805_5%	
		P32	L29 and L30 change as 0_0805_5%, L26, L31, L32, L33 and L34 change as 0_0603_5%	
		P28	SDCK_XDWE# saperate SD_CLK and XDWE#, add R628 for XDWE#	Some card can't detect because reflection
		P29	R455.2 and JP13.36 SDCK_XDWE# change XDWE#.	
			R450.1 and JP13.8 SDCK_XDWE# change SD_CLK.	
11	8/02	XXX	Update schematic name from LA2641 to LA2461.	
		P20	Add D30 for EMI ESD test fail.	
		P32	L31, L32, L33 and L34 change as Bead.	
		P04	Delete P@ on PU5B.	
		P19	Update R396 and R397 as 75_0402_1%.	
		P13	Update R603, R604 and R365 as 75_0402_1%.	