

COMPAL
CONFIDENTIAL

MODEL NAME :

PCB NO : LA2071

Revision : 0.3

http://hobi-elektronika.net

CX12 Schematics Document
2003-12-29

REV: 1.0

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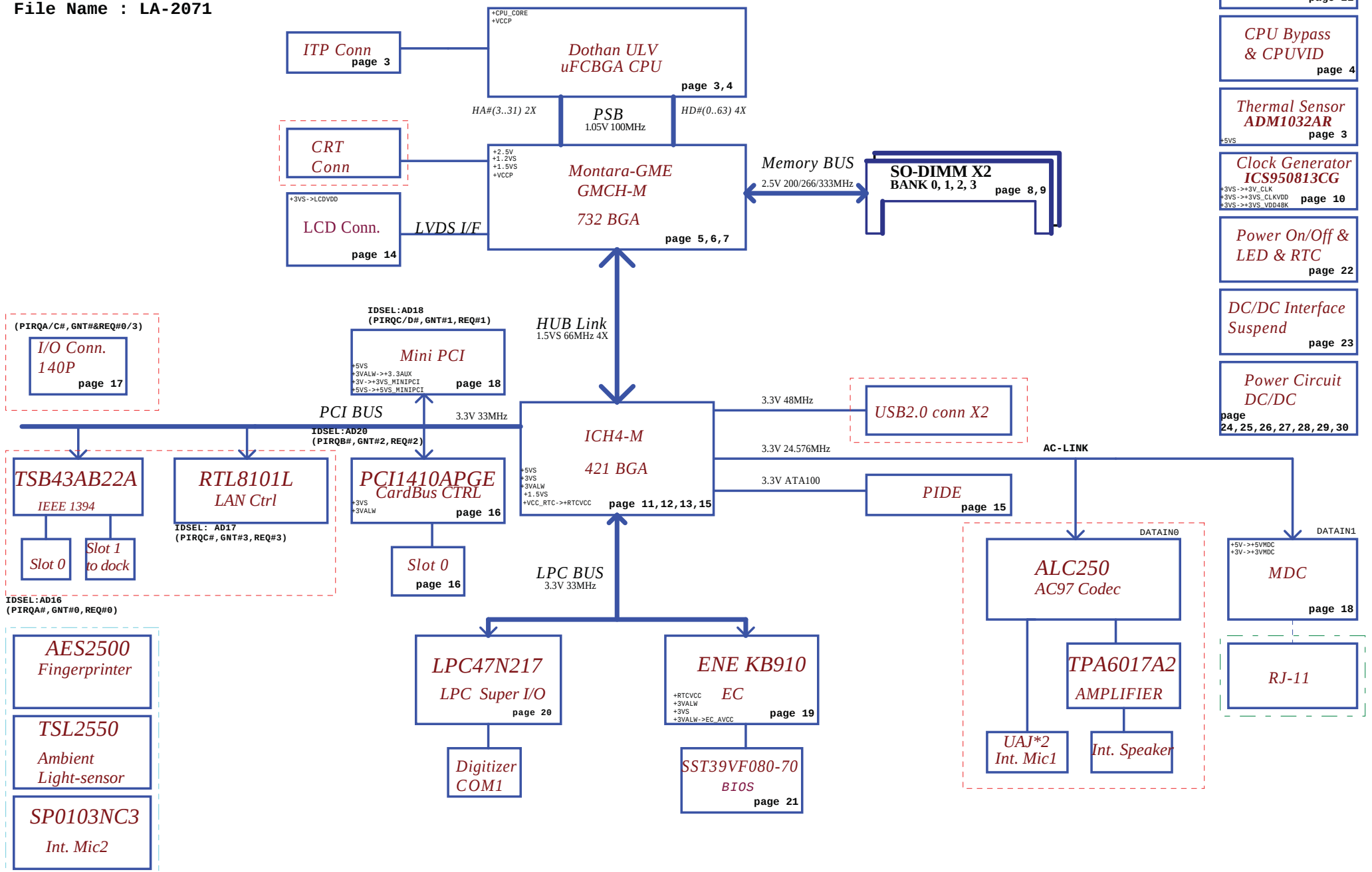
Compal Electronics, Inc.		
Title COVER SHEET		
Size	Document Number DCX12 LA-2071	Rev 1.0
Date	Tuesday, April 27, 2004	
Sheet		1 of 35

Compal confidential

Model Name :DCX12

File Name : LA-2071

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Note: Symbol " " stand for in the I/O Board.

" " for wire-set
" " for LS-2072

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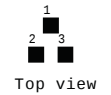
Compal Electronics, Inc.			
Title			
BLOCK DIAGRAM			
Size	Document Number	Rev	
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Function	Model	BCC00	DCX12
		BALDRIC	GLADIUS
1394		YES	YES
AUDIO		YES	UAJ
CRT		YES	YES
RJ11		NO	YES
RJ45		YES	YES
USB		YES 3-port	YES 2-port
Fingerprint\ALS		NO	YES
Bluetooth		NO	YES

Power Management table

Signal	+3VALW +5VALW +1.8VALW +12VALW	+3V +2.5V	+3VS +5VS +1.8VS +1.5VS +1.25VS +1.2VS +VCCP +CPU_CORE
State			
S0	ON	ON	ON
S1	ON	ON	ON
S3	ON	ON	OFF
S5 S4/AC	ON	OFF	OFF
S5 S4/AC don't exist	OFF	OFF	OFF

SOT23/SC70 pin definition



Mosfet pin dification

pin1: Drain
pin2: Gate
pin3: Source

Temperature Characteristics:

Symbol	0	1	2	3	4	5	6	7
CODE	Z5U	Z5V	Z5P	Y5U	Y5V	Y5P	X5R	X7R

8	9	A	B	C	D	E	F	G
NP0	C0G		BJ	CH	CJ	CK	SH	SJ

H	I	J	
UJ	UK	SL	

Tolerance:

Symbol	A	B	C	D	F	G	H	J
CODE	+ -0.05PF	+ -0.1PF	+ -0.25PF	+ -0.5PF	+ -1PF	+ -2%	+ -3%	+ -5%

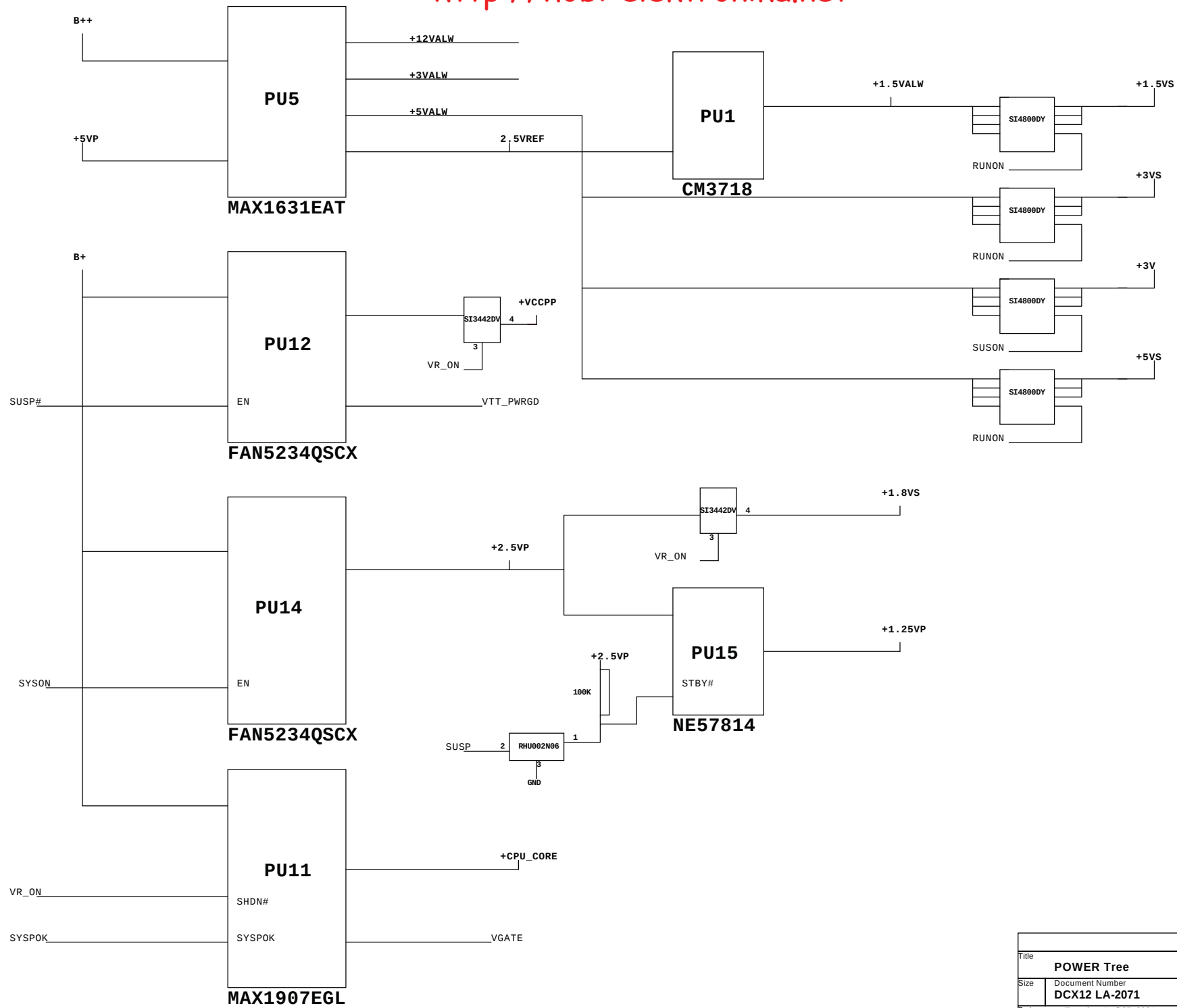
K	M	N	P	Q	V	X	Z	
+ -10%	+ -20%	+ -30%	+100, -0%	+30, -10%	+20, -10%	+40, -20%	+80, -20%	

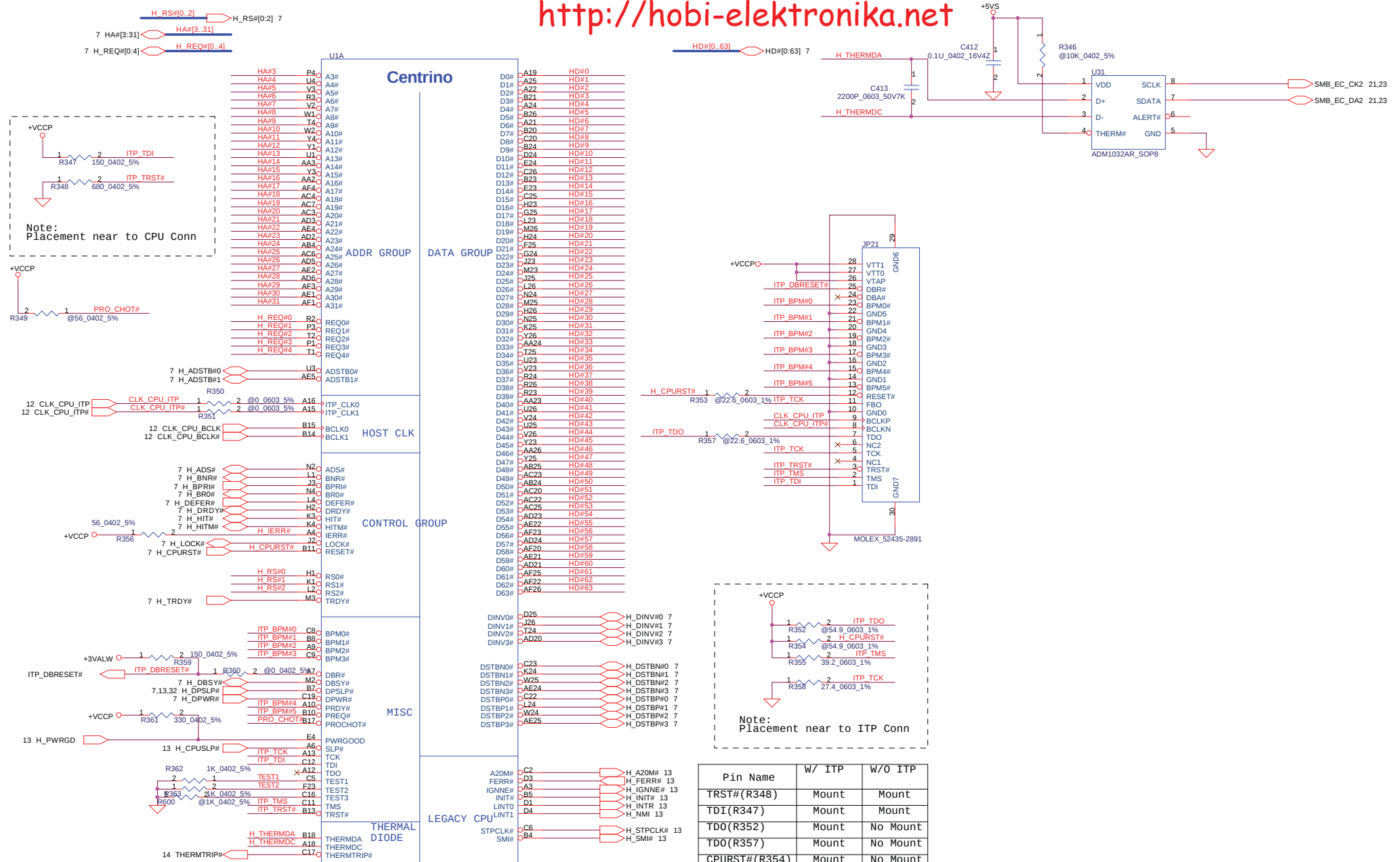
Status	CHIPS Rev			
SST-Build 10/08	MONTARA-GME QE28	82801DBM SL6DN B1	KB910 B0	ULV Dothan 1.06Hz A1 Q081
PT-Build				
ST-Build				
MP				

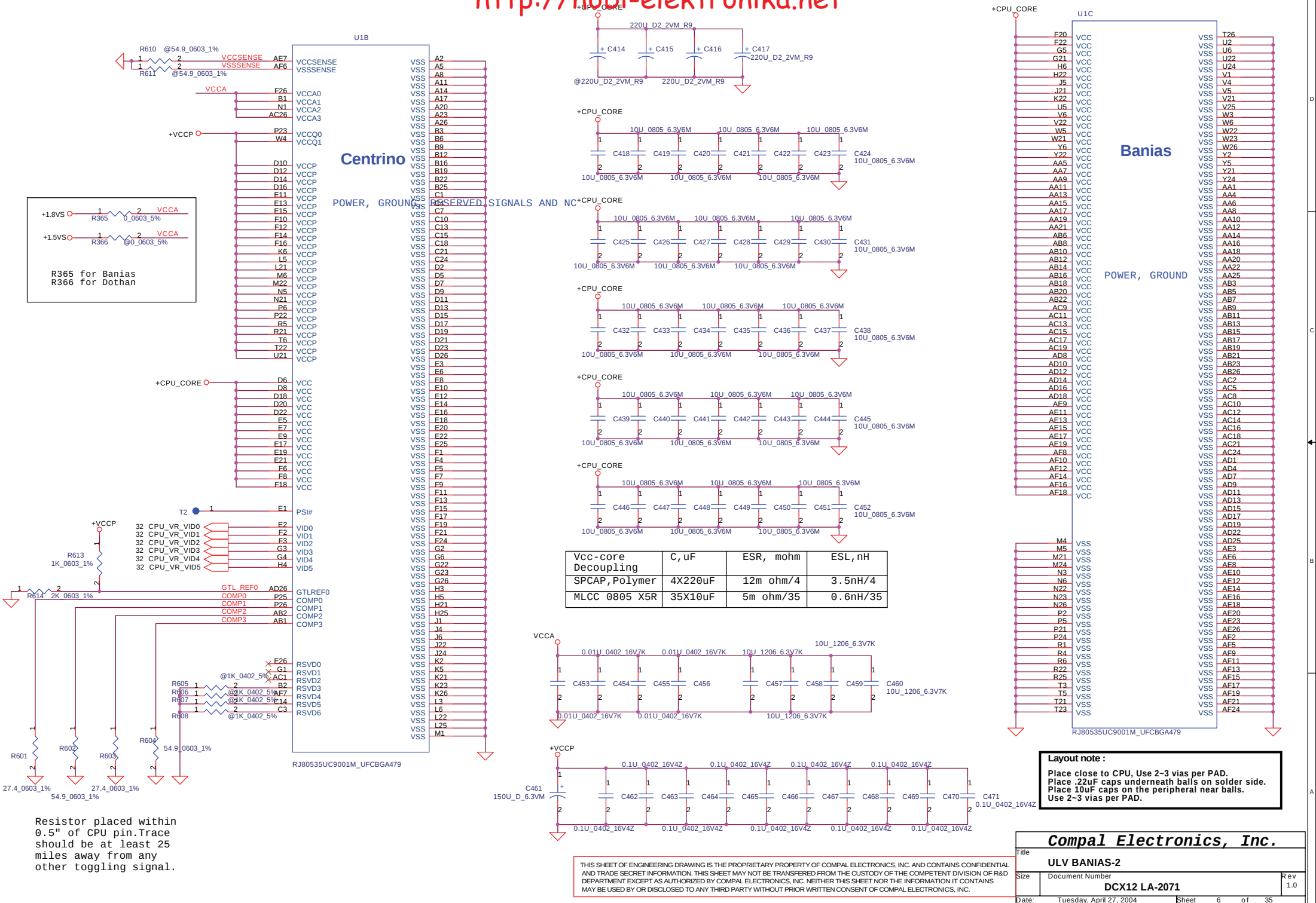
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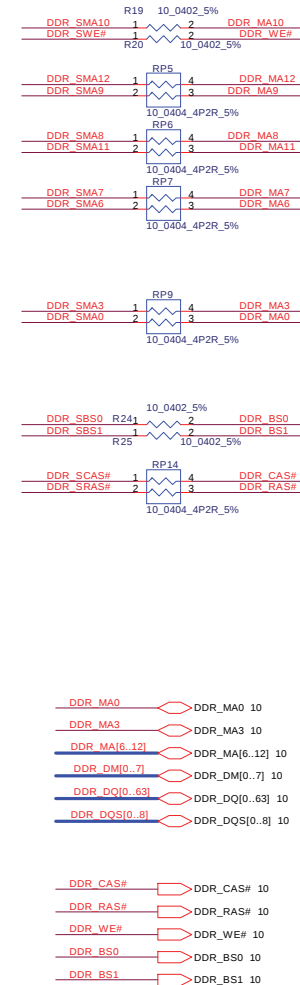
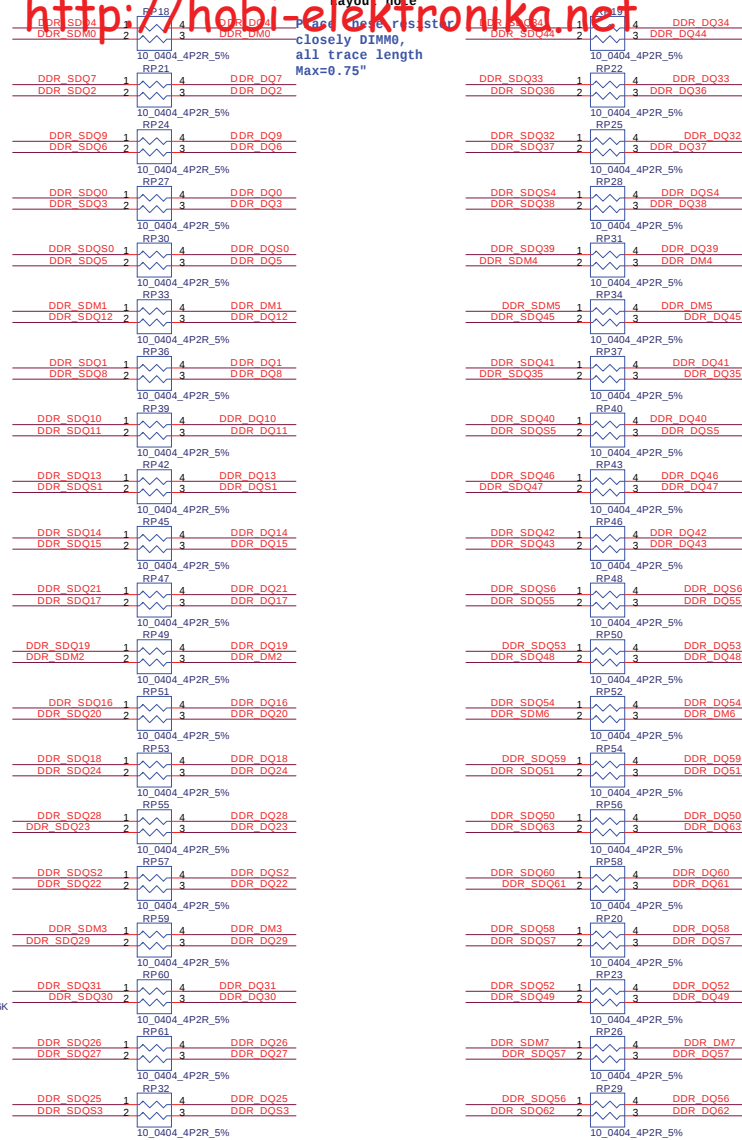
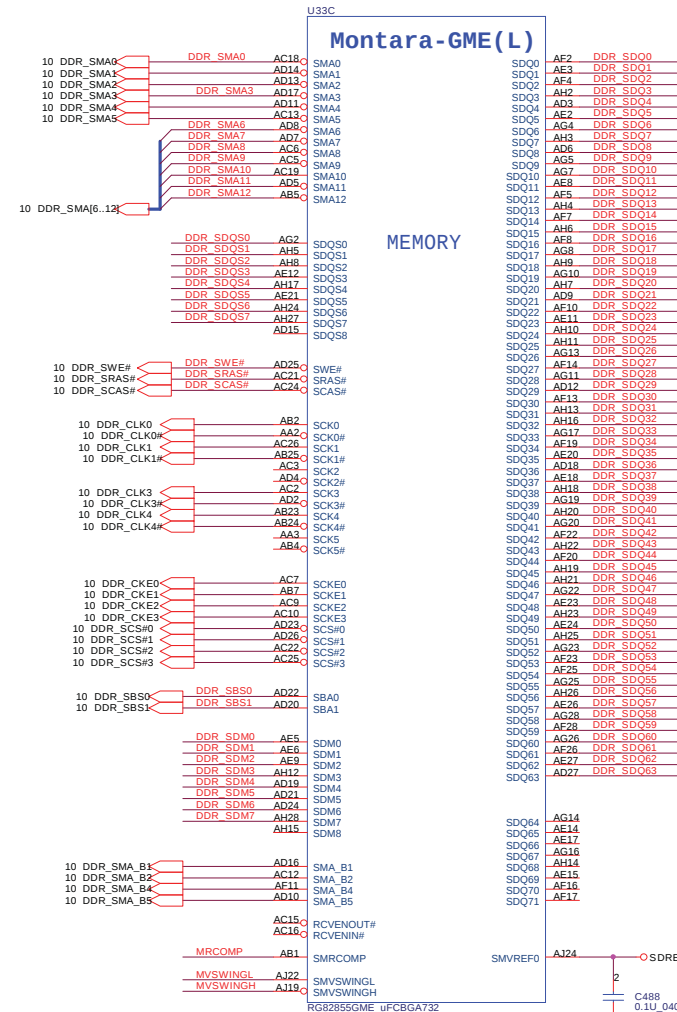




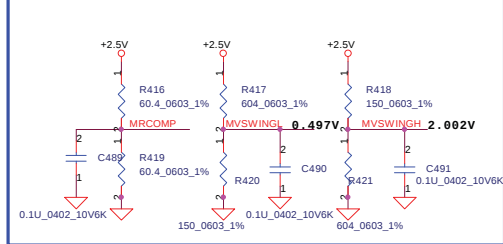


Resistor placed within 0.5" of CPU pin. Trace should be at least 25 miles away from any other toggling signal.

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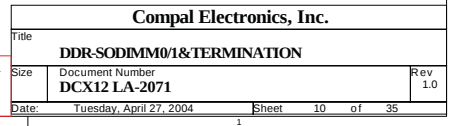
DDR REF & SWING VOLTAGE



Montara-GME(L)

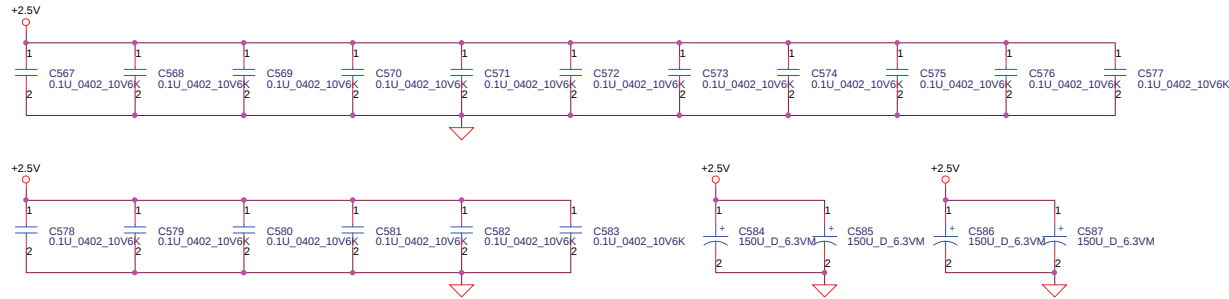


Title			
MONTARA-GM POWER			
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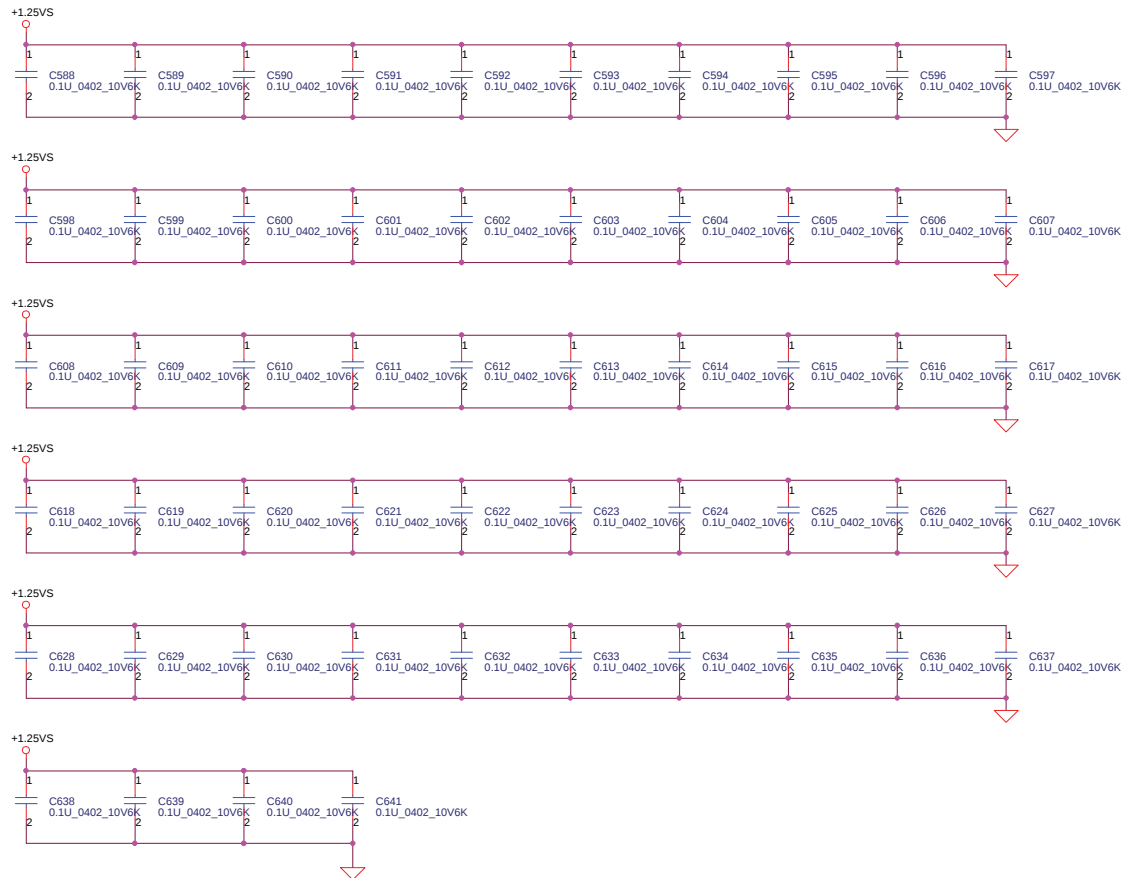
Layout note :

Distribute as close as possible
to DDR-SODIMM.



Layout note :

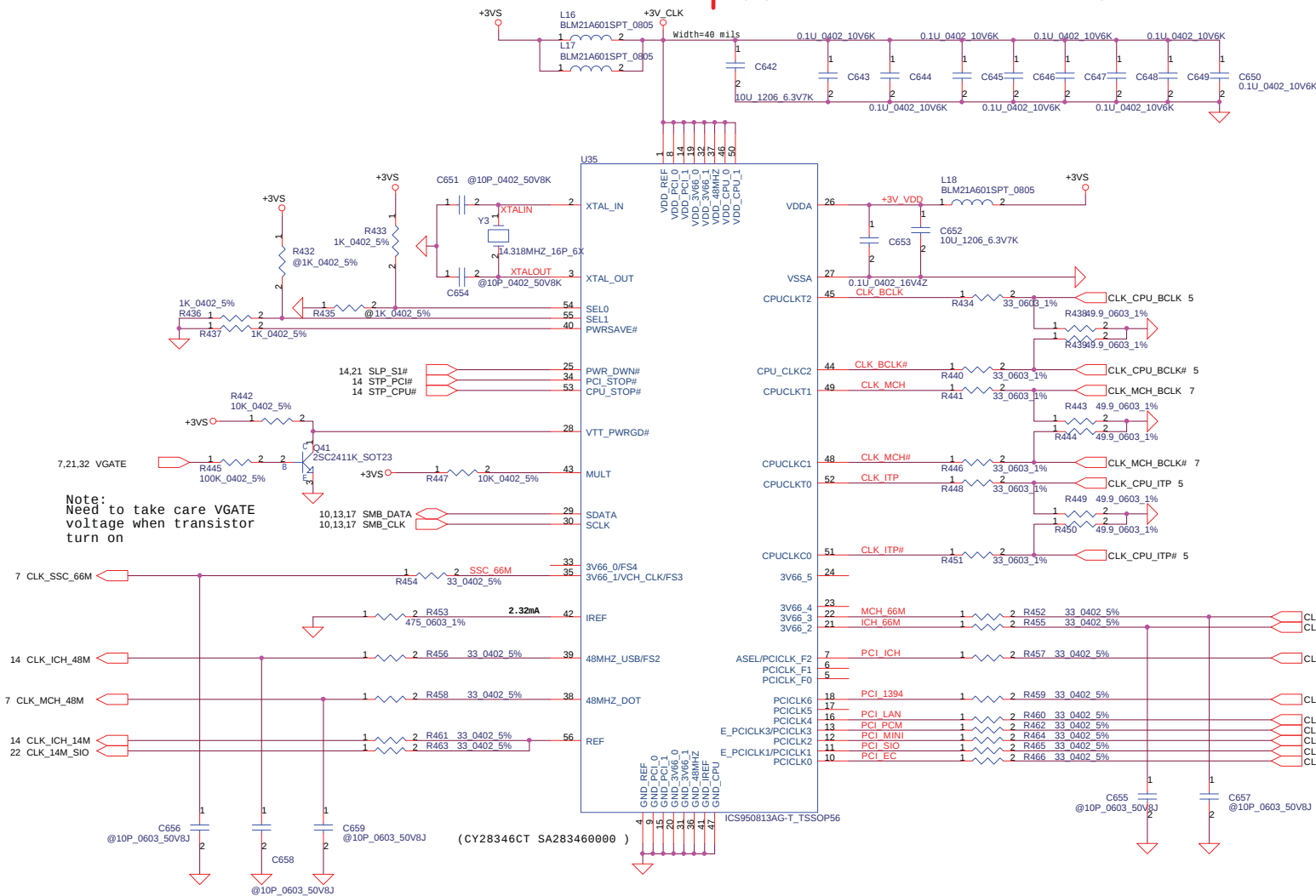
Place one cap close to every 2 pull up resistors termination to
+1.25V



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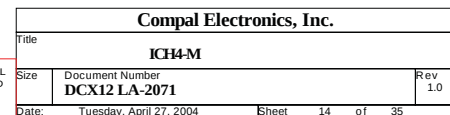
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DDR SODIMM Decoupling		
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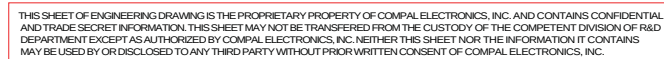
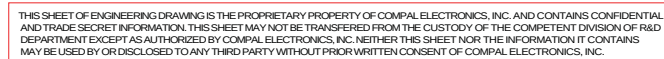
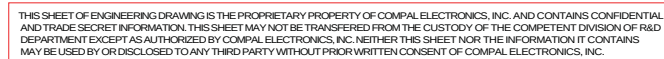


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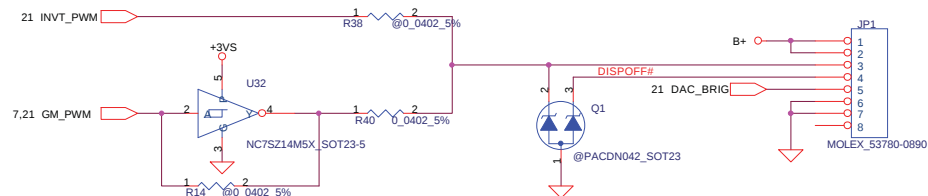
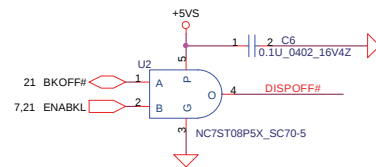
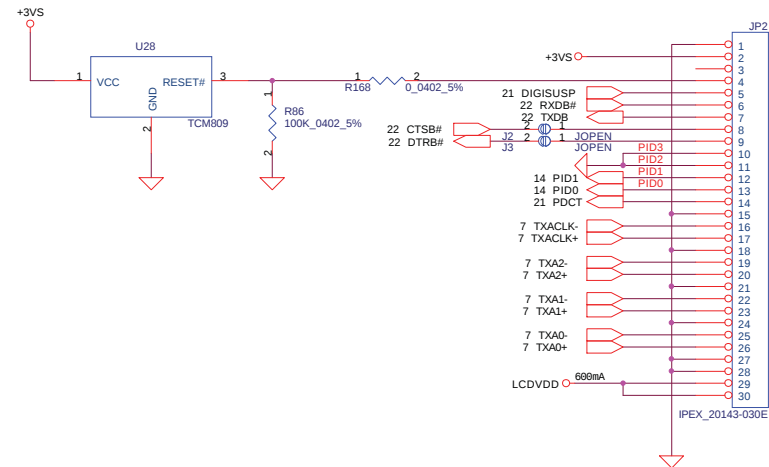
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Title			
Clock Generator			
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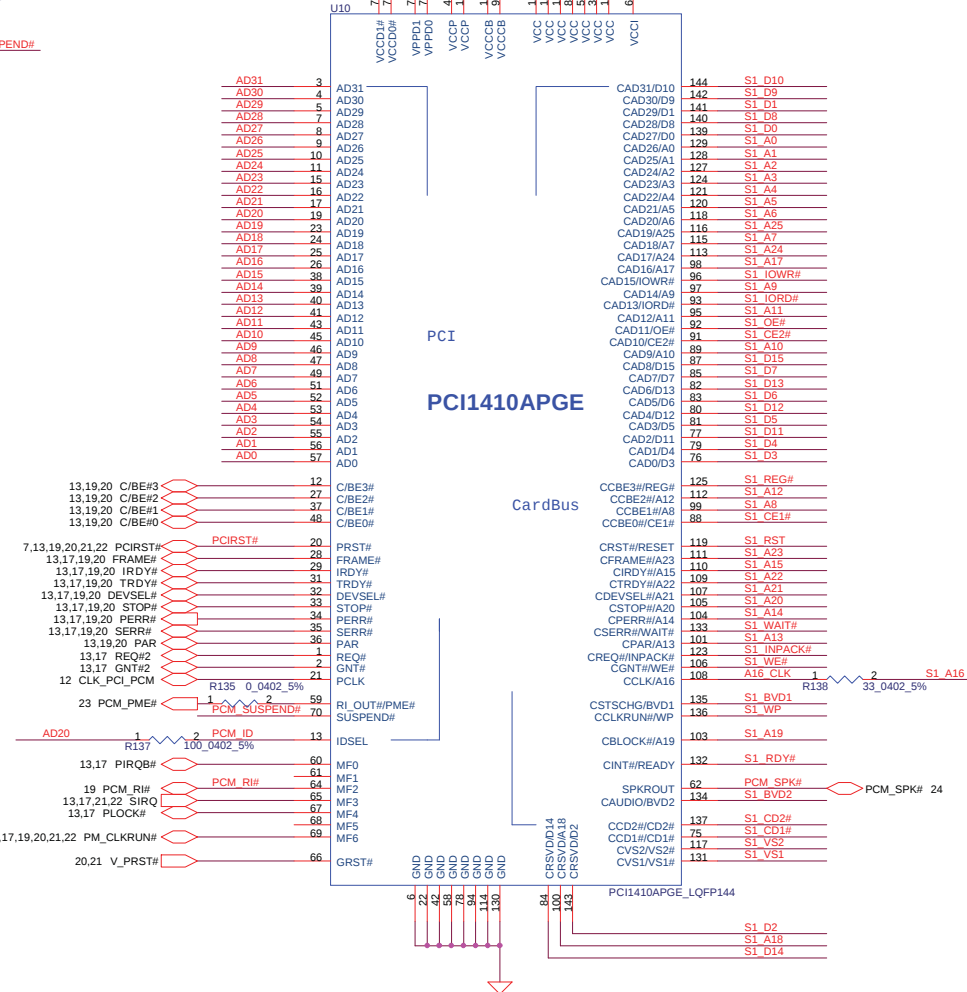
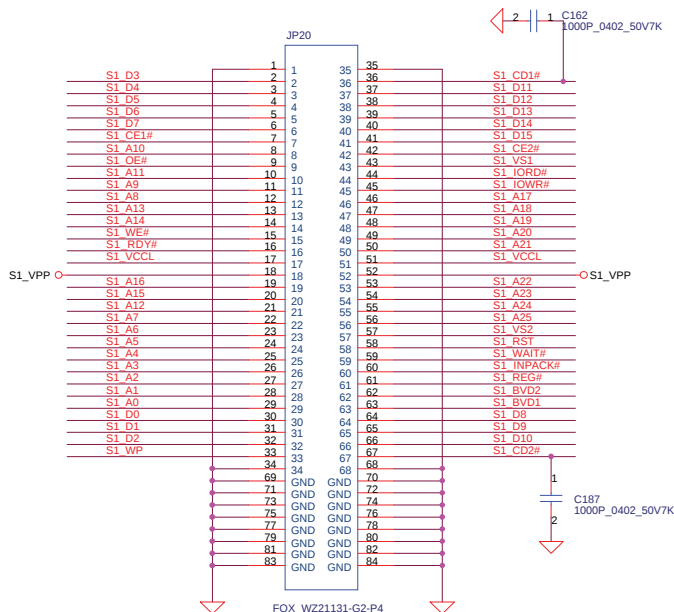
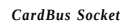
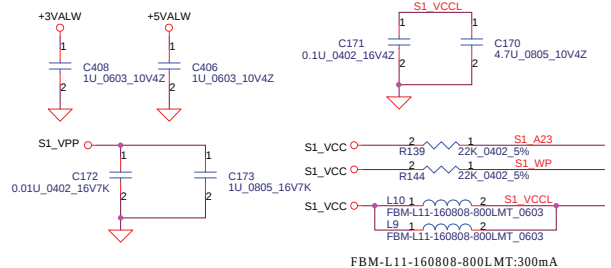
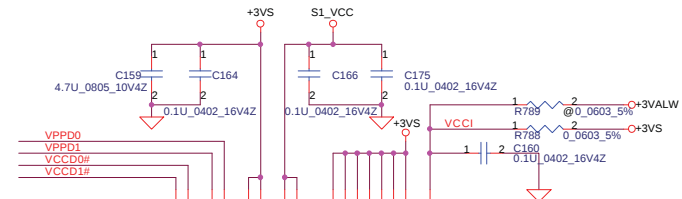
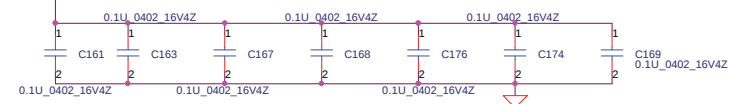
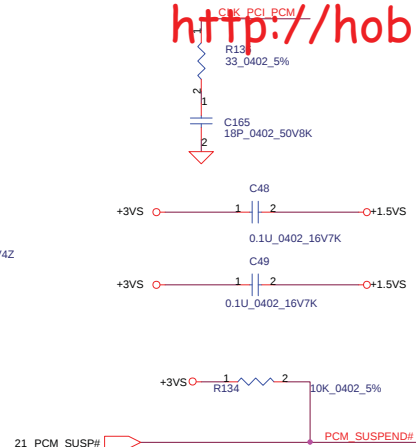
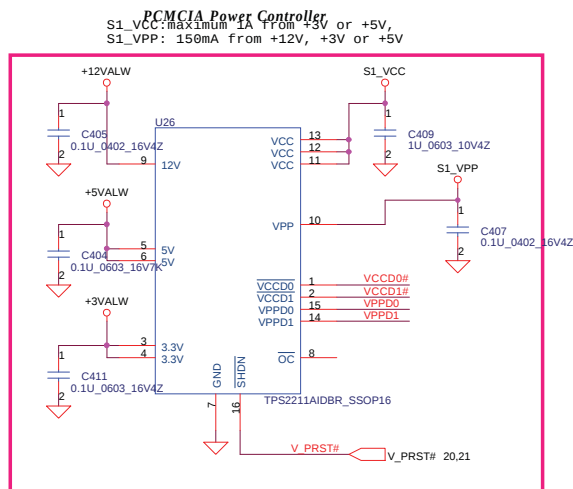


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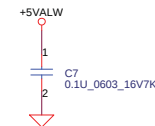
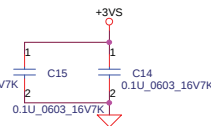
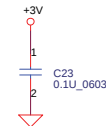
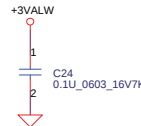
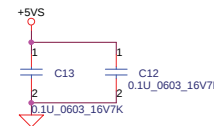
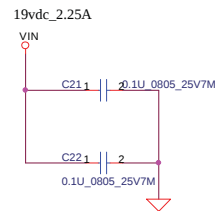
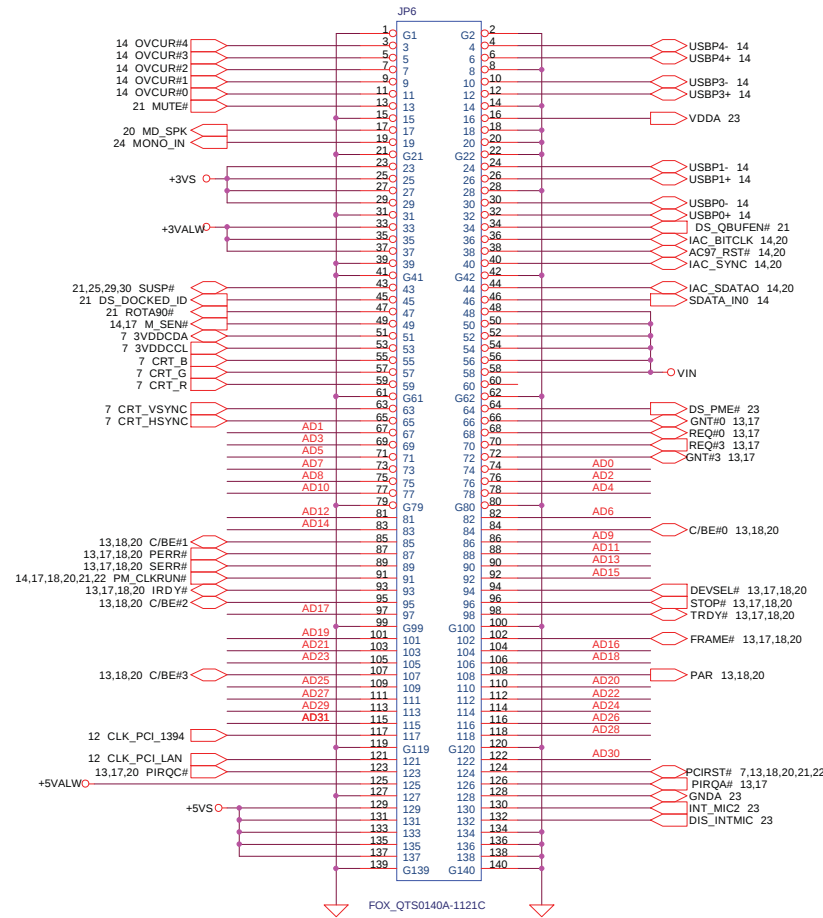
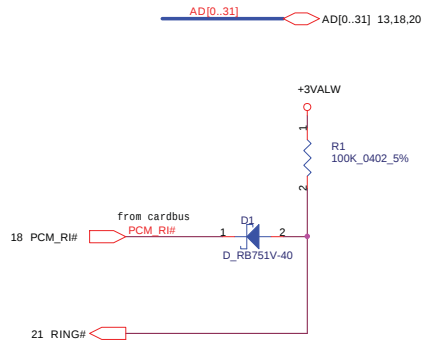
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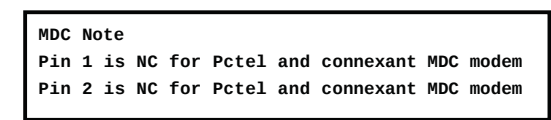
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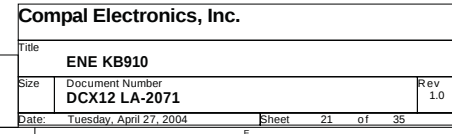
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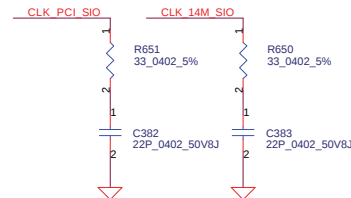
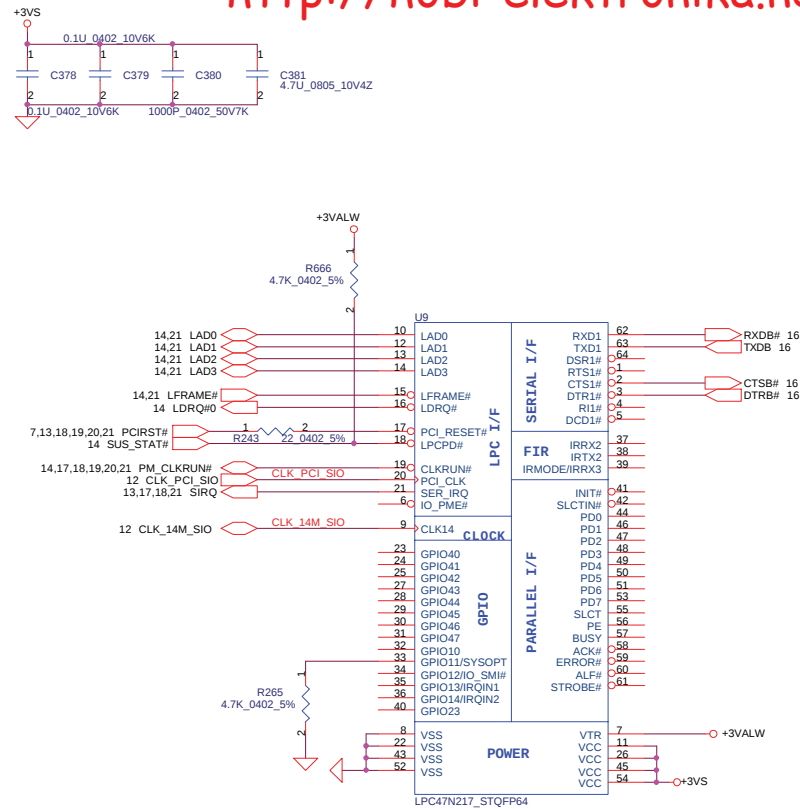
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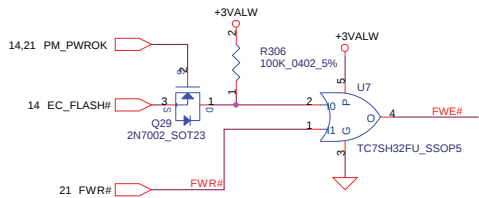
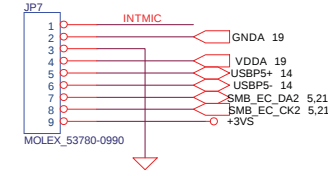
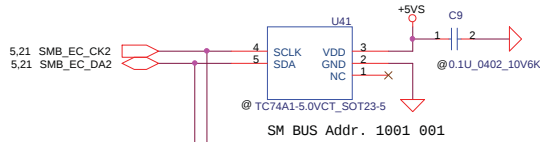
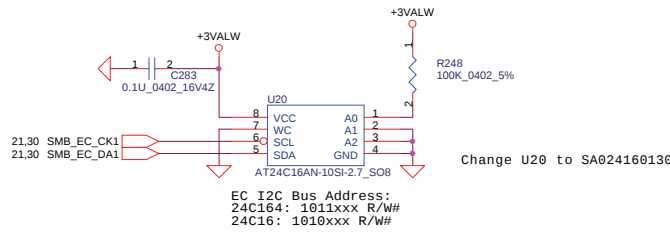
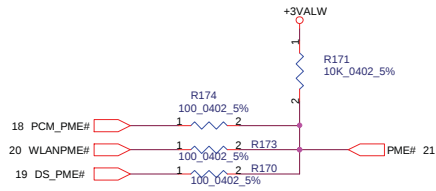




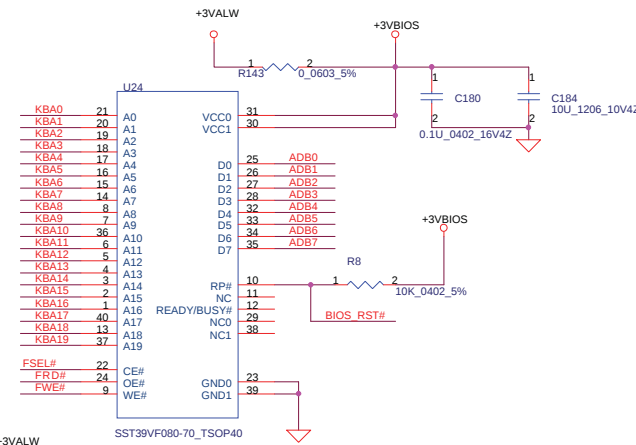
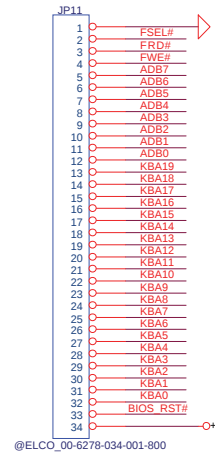
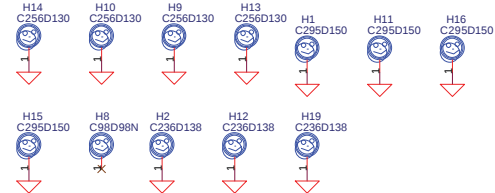
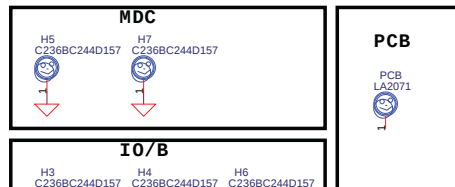
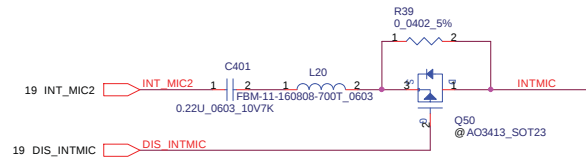
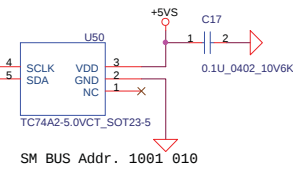
Strap pin	Pin #	Description
BADDR	33	BASE Address Selection "0": 2E-2F (Default) "1": 4E-4F

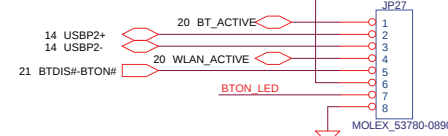
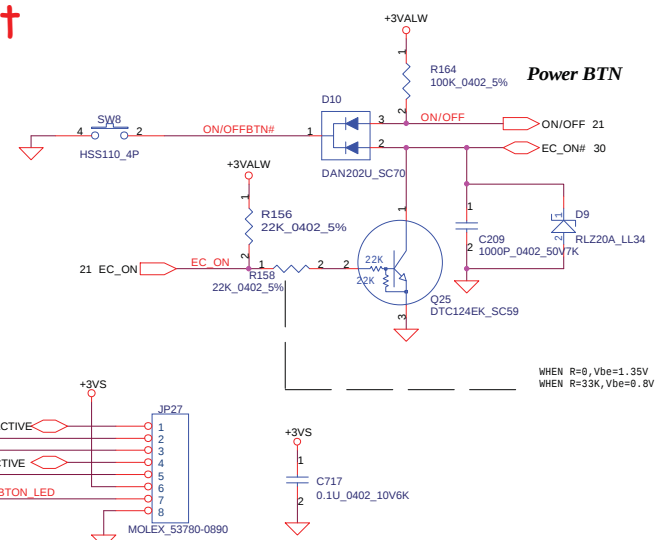
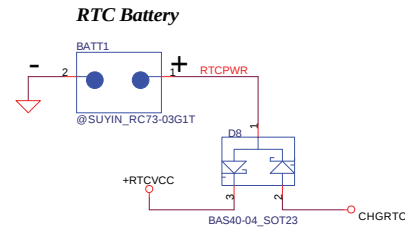
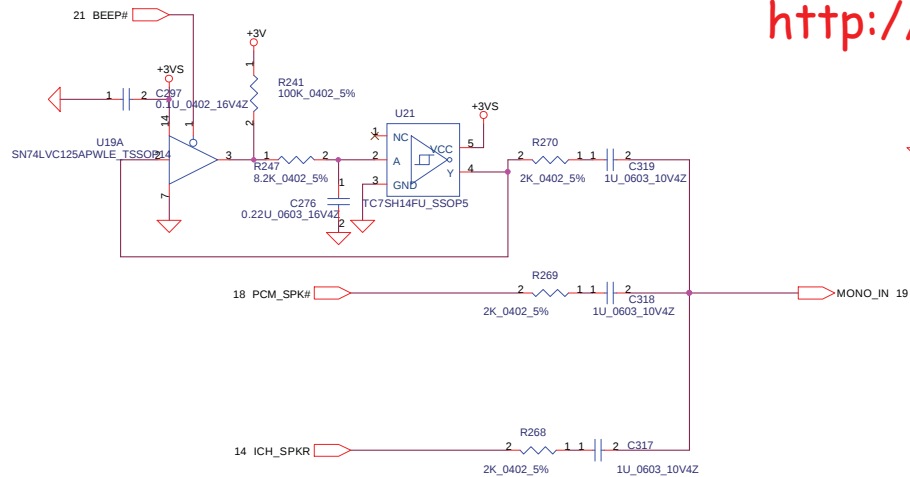
21 ADB[0..7] ADB[0..7]
21 KBA[0..19] KBA[0..19]

NM24C164 Address definition: 1 A2 A1# A0 B2 B1 B0 R/W#



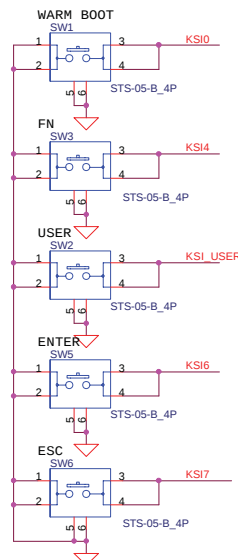
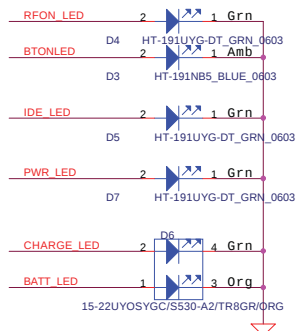
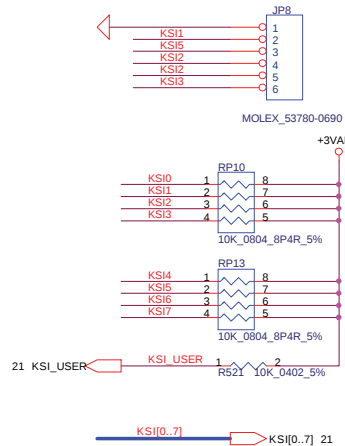
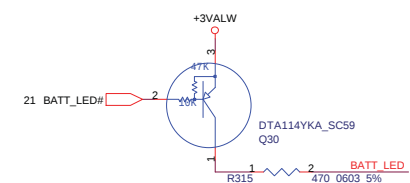
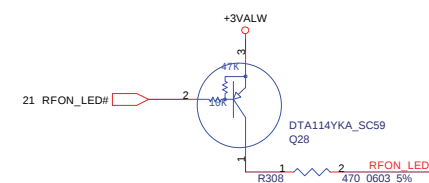
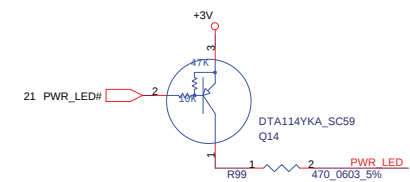
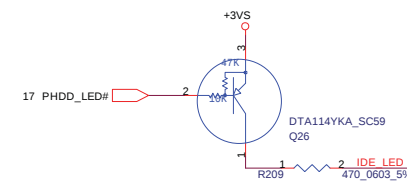
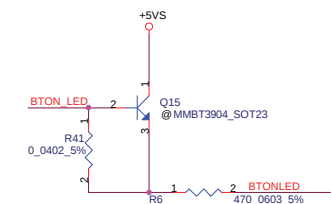
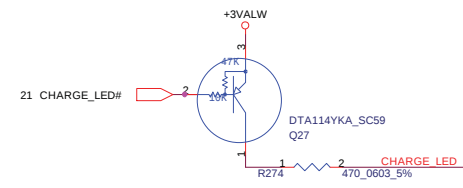
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21 FRD# FRD#





Bluetooth Cable

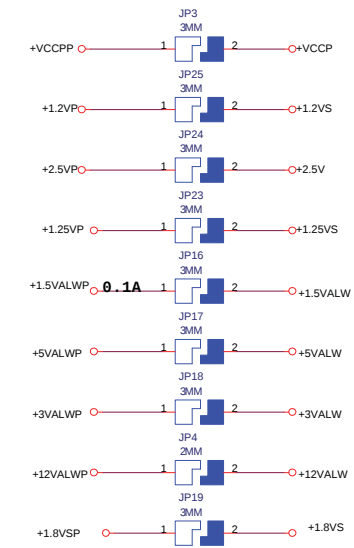
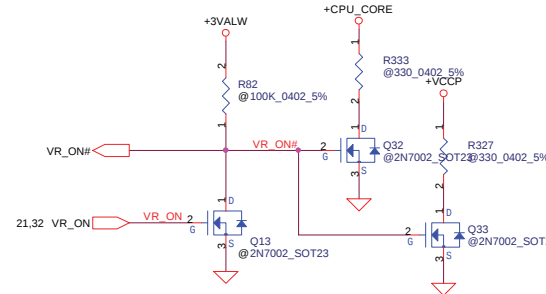
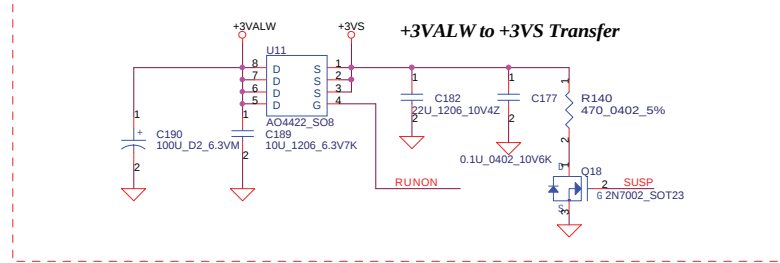
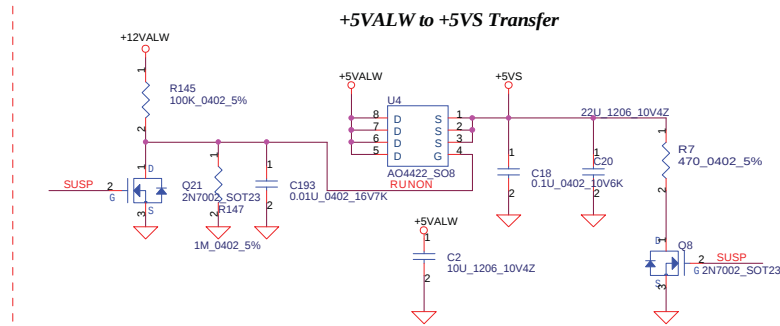
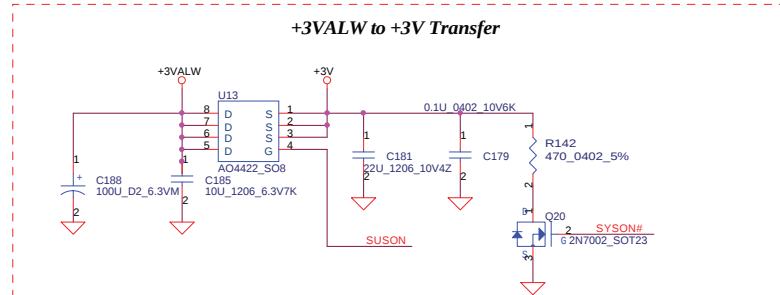
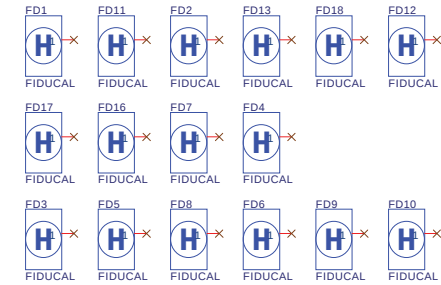
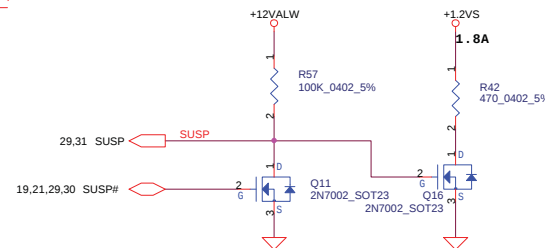
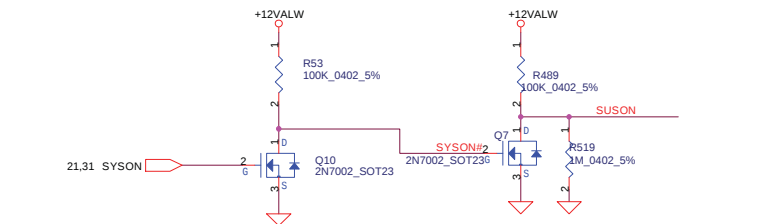
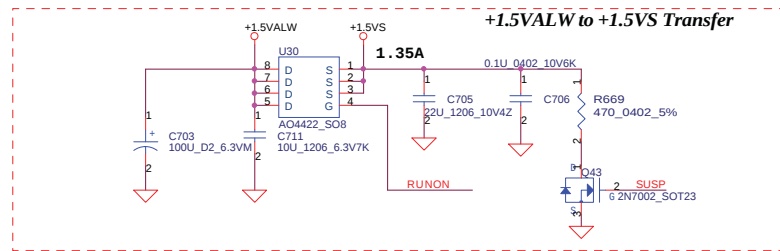
mini_PCI Pin36	BT_ACTIVE JP27.1
mini_PCI Pin43	WLAN_ACTIVE JP27.4



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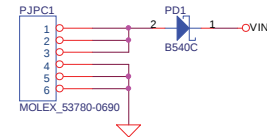
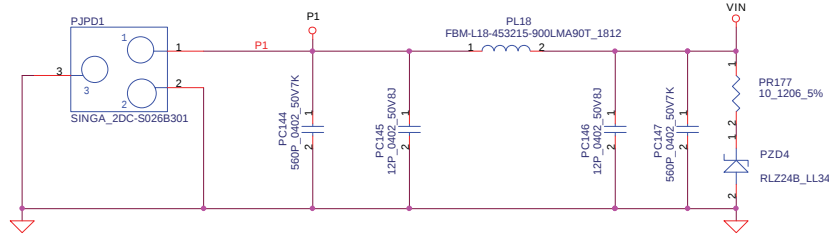
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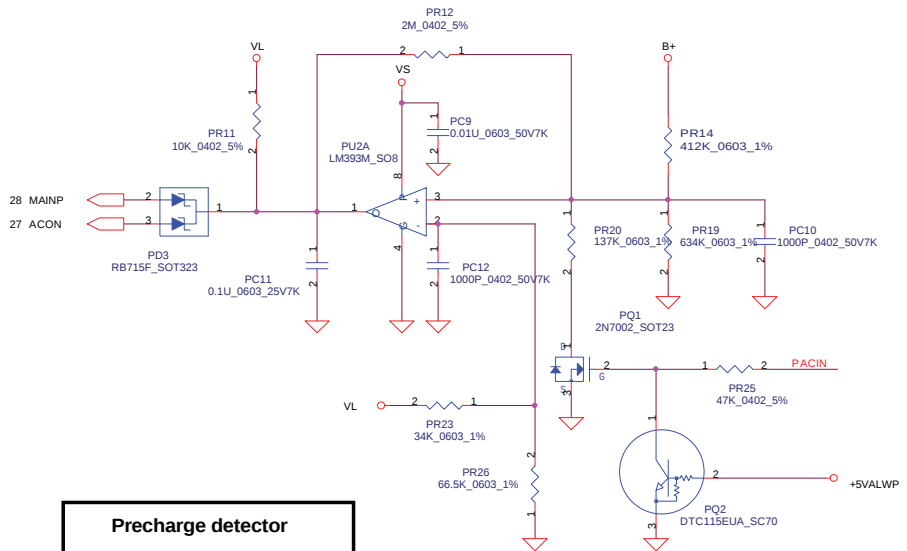
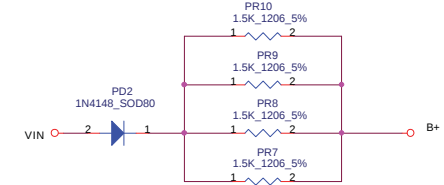
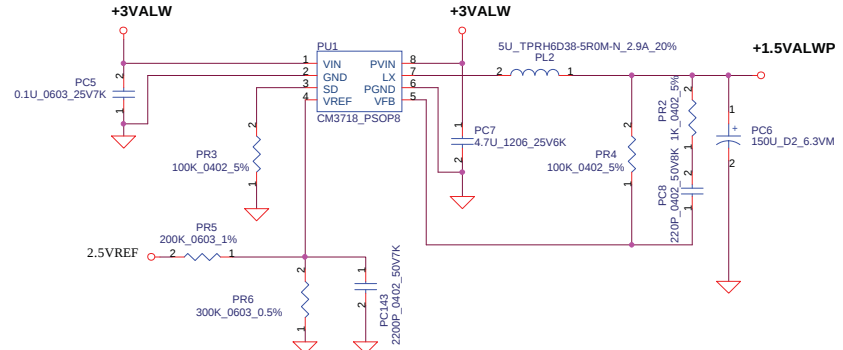
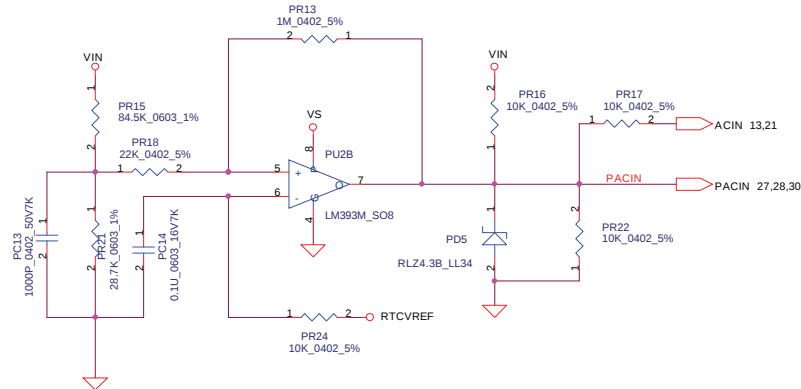
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DC/DC Interface		
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Charger Bay

Vin Detector
13.58V/13.02V

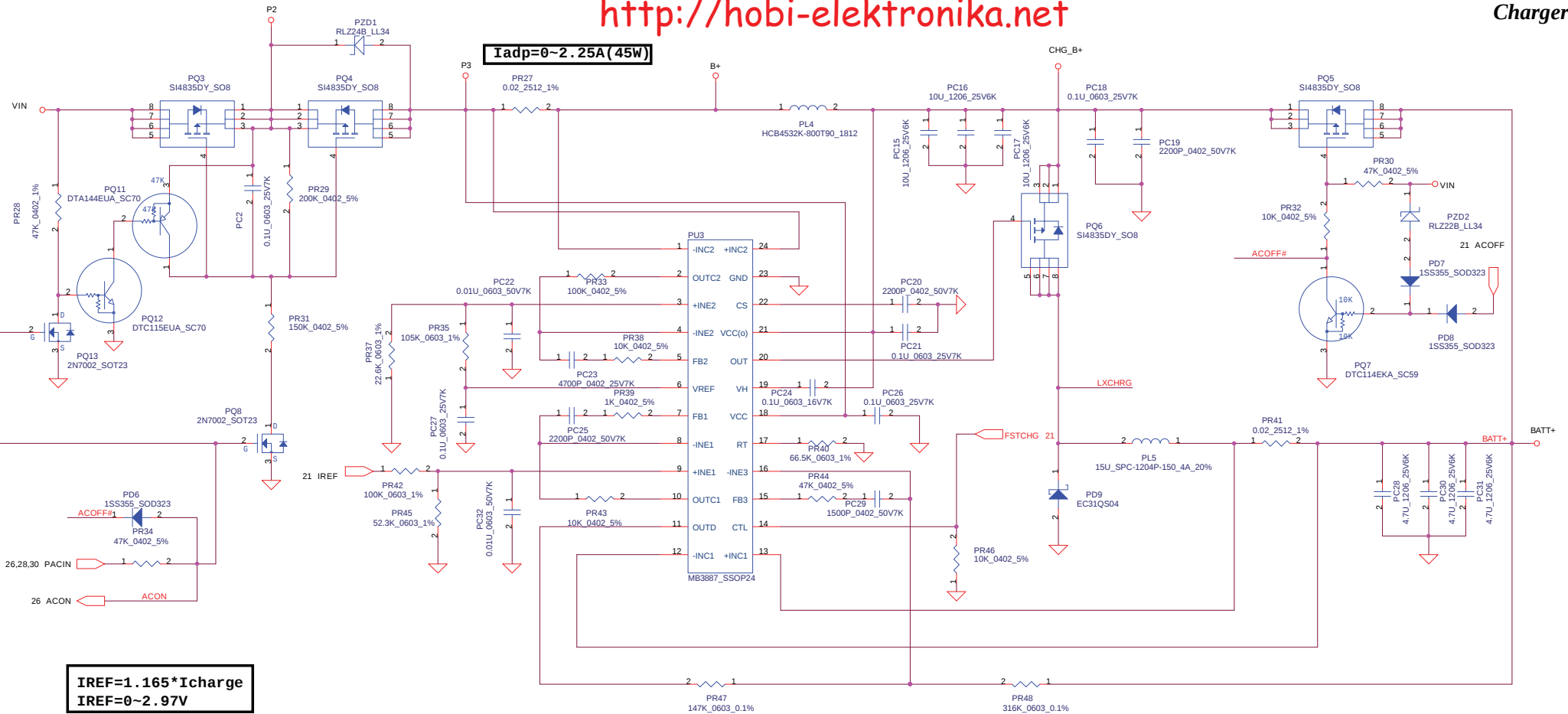


Precharge detector
12.47V/ 11.79V For ADAPTOR

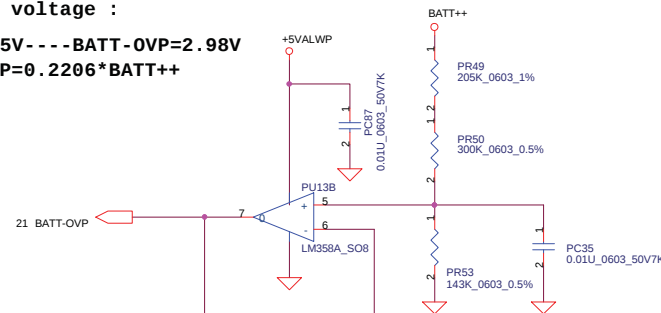
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Title		
Detector/+1.5VALWP		
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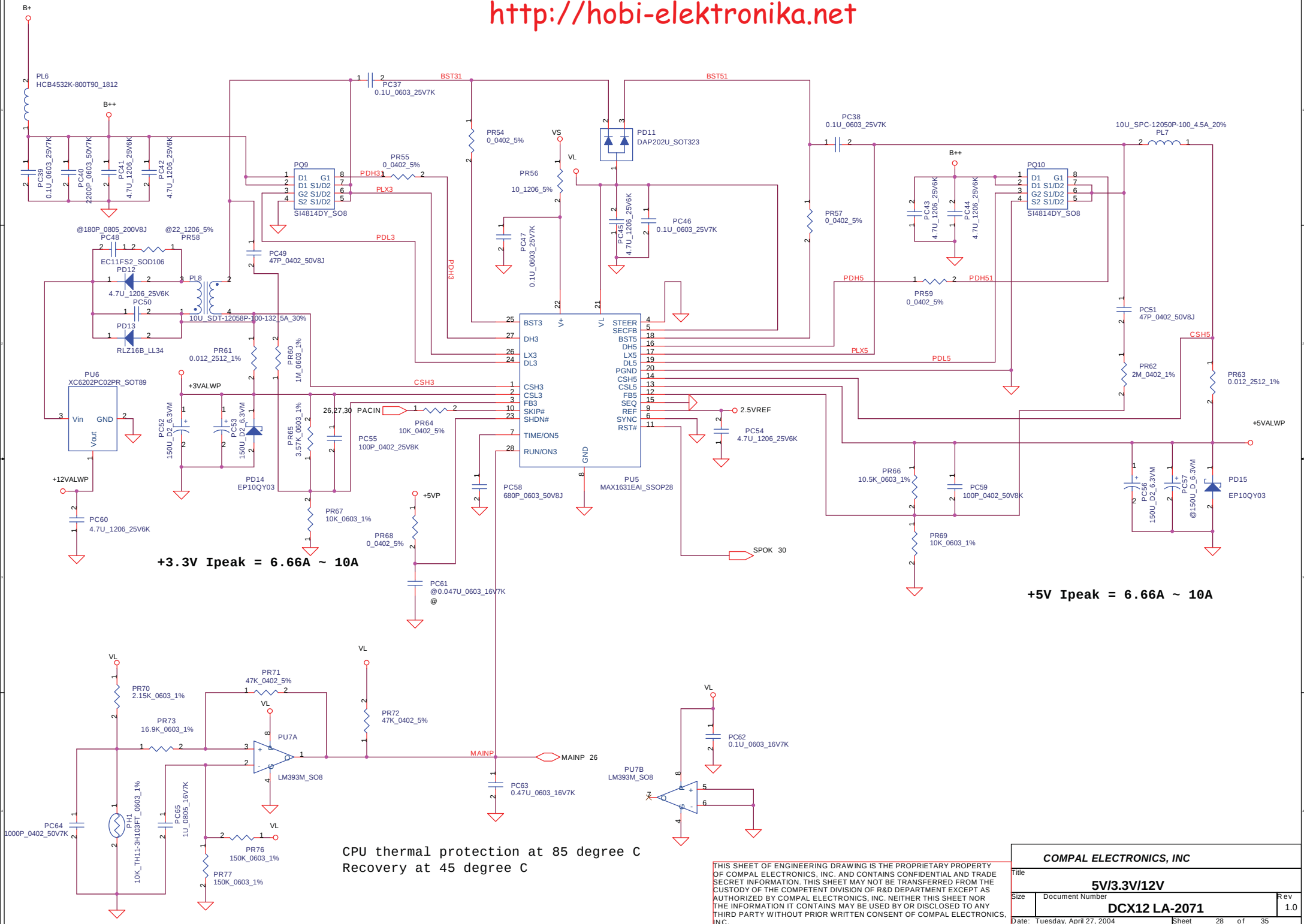


OVP voltage :
LI-3S :13.5V---BATT-OVP=2.98V
BATT-OVP=0.2206*BATT++



Charge voltage
3S LI-10N : 13.2V

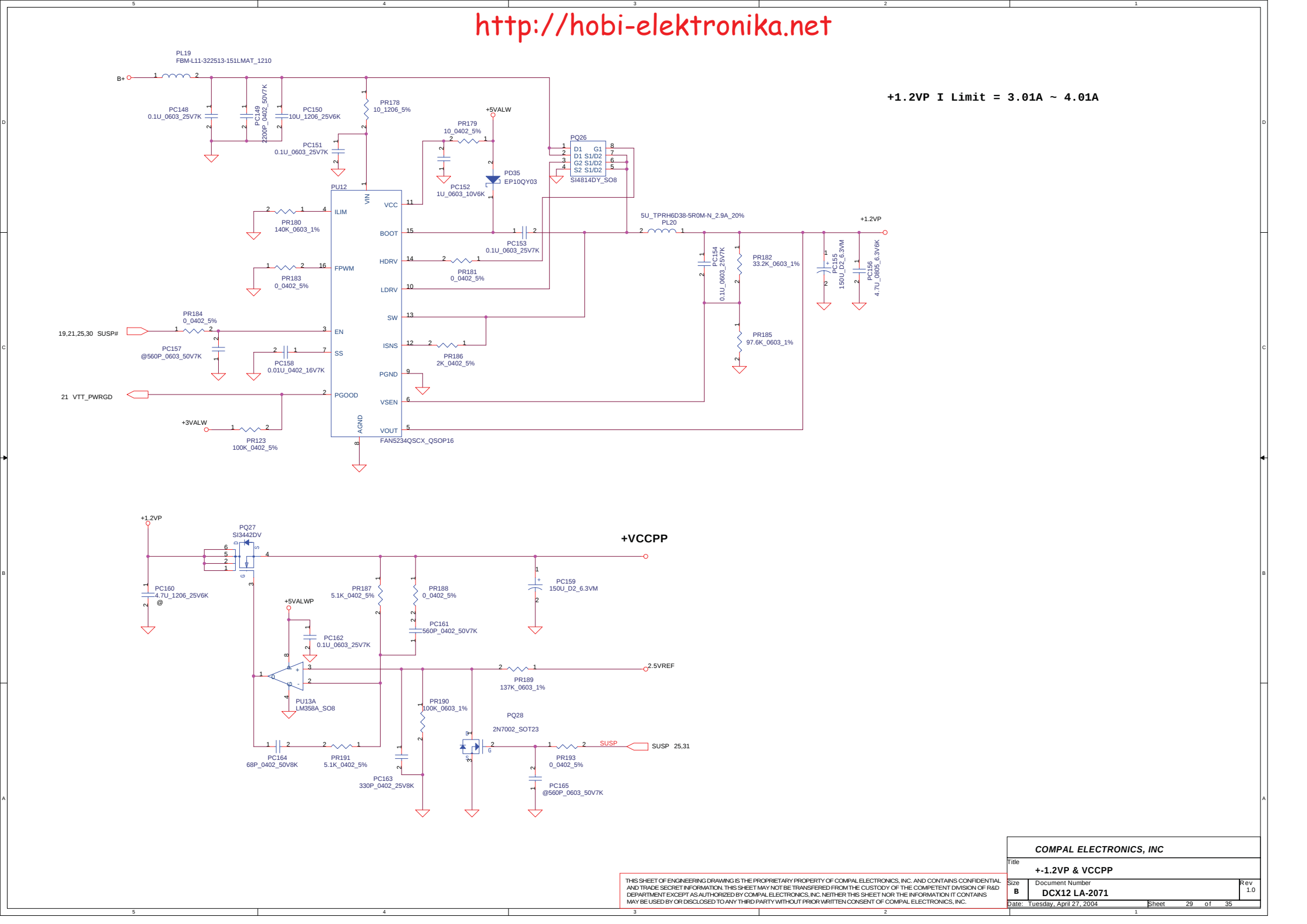
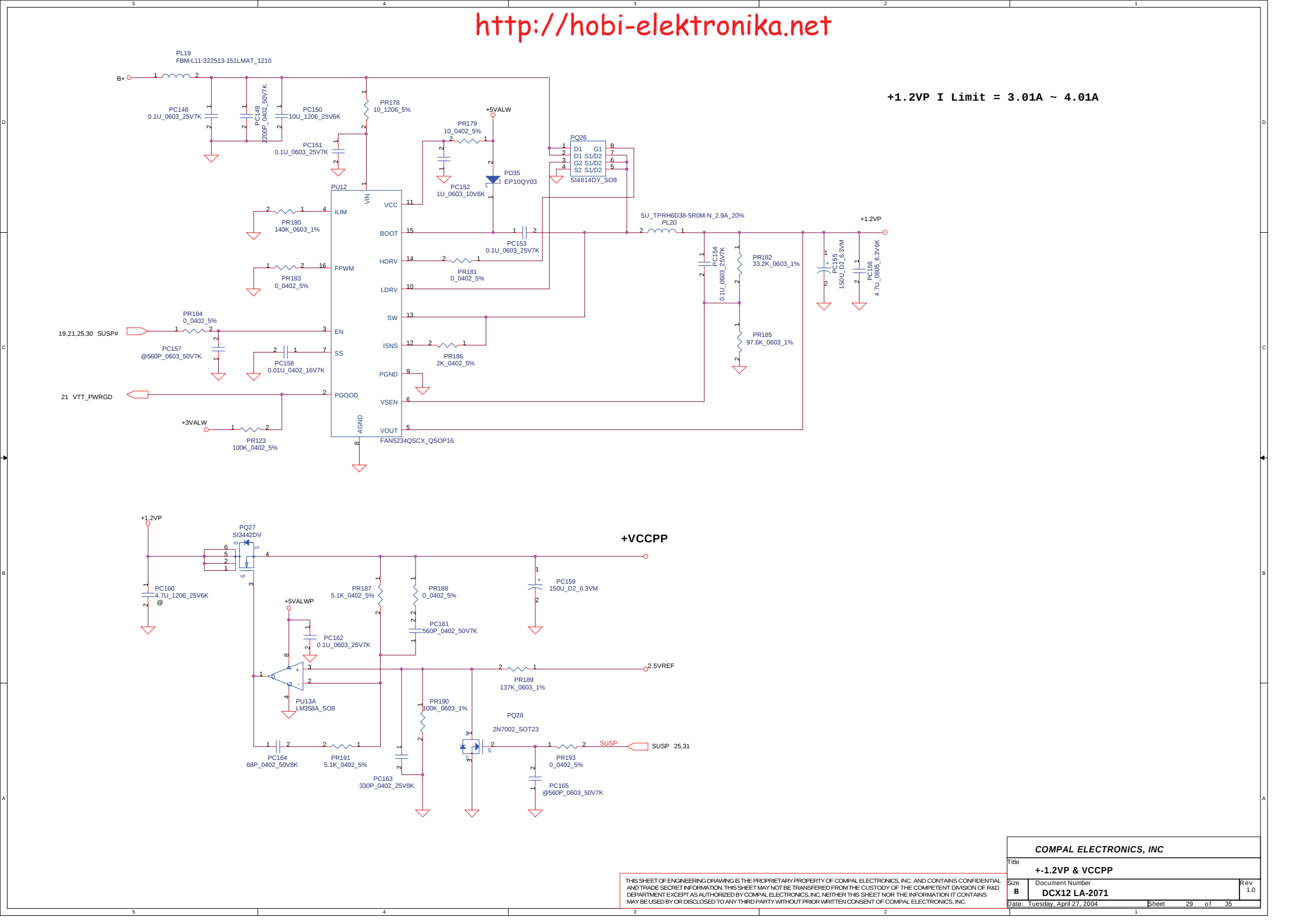
COMPAL ELECTRONICS, INC			
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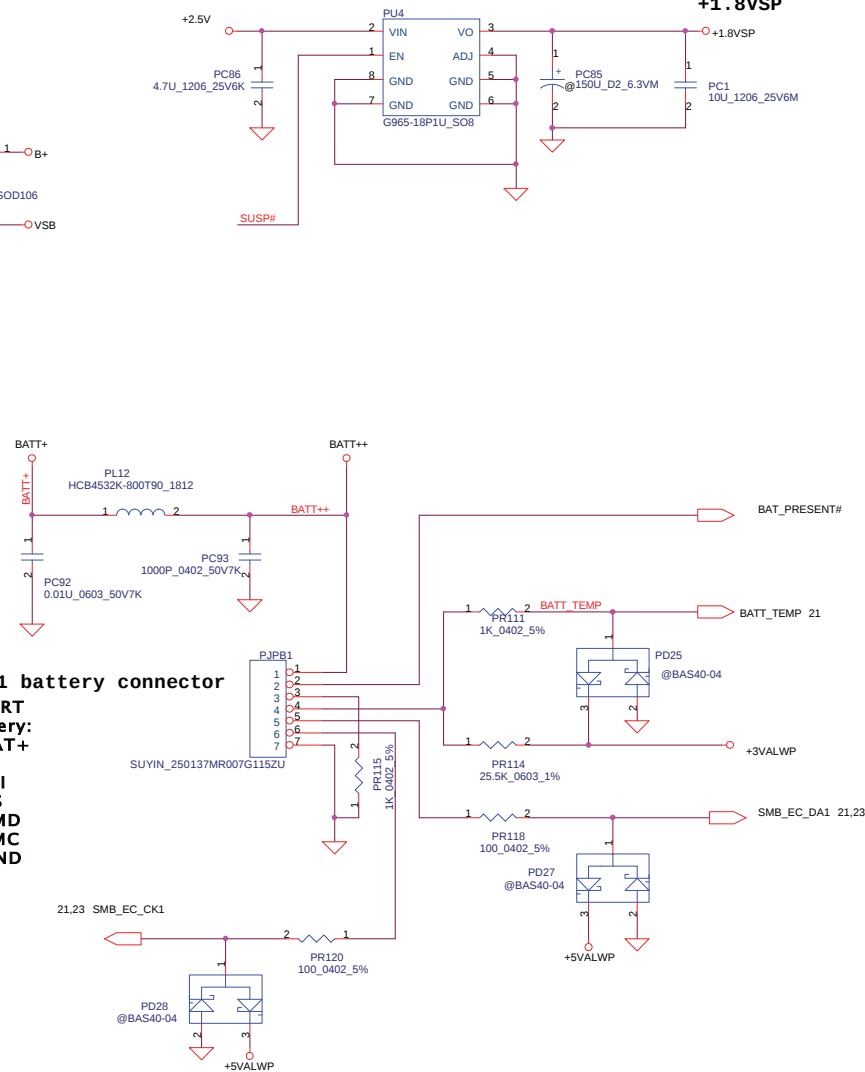


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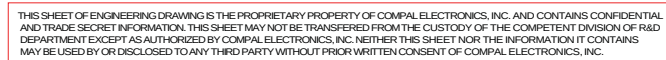
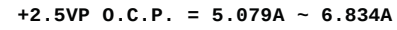
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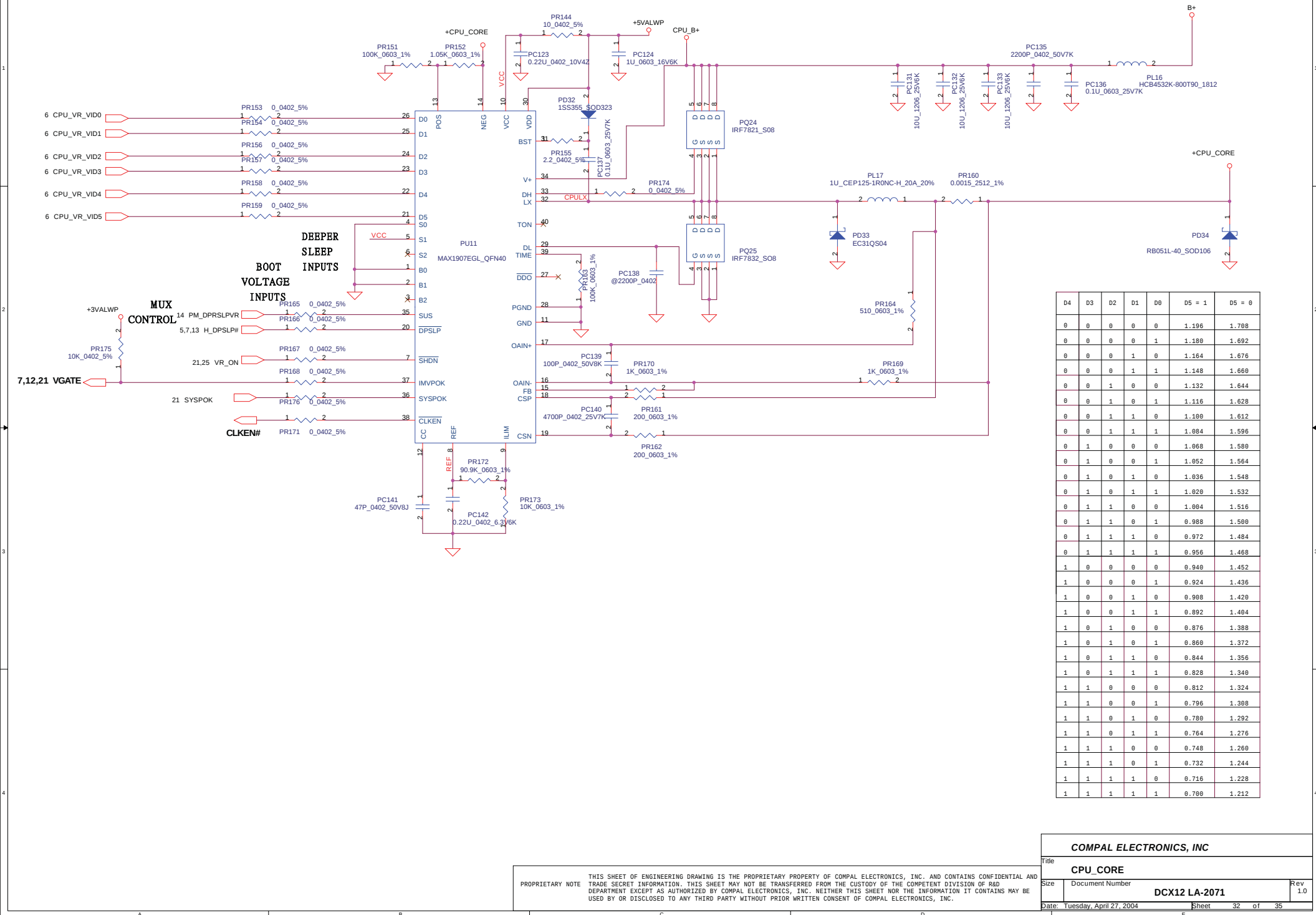
http://hobi-elektronika.net





7.GND





Item	Reason for change	PG#	Modify List	B.Ver#	Phase
1	Power saving for DVO I/F	7	Add R393 SD014100106 S RES 1/16W 1K +-1% 0603 S9	0.2	DVT
	For KB910	21	Remove BOM R177 ,R180 SD028100200 S RES 1/16W 10K +-5% 0402 Remove R187, R188 SD028000010 S RES A34 1/16W 0 +-5% 0402 U6.16 directly connect to +3VALW.	0.2	DVT
2	Remove USB HUB for DVT	22	Remove C712,C714,C715,C716,C750,C751 SE095104K00 S CER CAP .1U 10V +-10% X5R 04026 C713,C720 SE053106200 S CER CAP 10U 10V Z Y5V 08052 C754,C755 SE071220J00 S CER CAP 22P 50V +-5% NPO 04022 L51,L50 SM010015400 S SUPPRE KC FBM-L11-160808-800LMT 06032 R41,R45 SD028000010 S RES A34 1/16W 0 +-5% 04021 R48,R50,R54,R55,R56,R58 SD028000000 S RES 1/16W 0 +-5% 04024 R260,R781,R782 SD028100200 S RES 1/16W 10K +-5% 04023 R261,R264 SD0130000T4 S RES 1/16W 0 +-5% 06032 R262 SD014120200 S RES 1/16W 12K +-1% 06031 R267 SD013100500 S RES 1/16W 10M +-5% 06031 R278,R783,R780 SD028100200 S RES 1/16W 10K +-5% 04021 U18 SA024020310 S IC EE 2K SO-8 AT24C02N-10SI-2.71 U22 SA020040000 S IC USB20H04-JD TQFP-64 USB HUB1 Y10 24MHZ_20P_1BX24000BK1A SJ124P0M000	0.2	DVT
3	Correct JP7 library	23	Swap Pin Sequence 1 to 10 change 10 to 1	0.2	DVT
4	Correct switch function	24	Change connection of SW1, SW2, SW3, SW5, SW6 and JP8 Add PullUp to +3VALW Resistor RP13 SD309100200 S ROW RES 1/16W 10K +-5% 8P4R 0804	0.2	DVT
5	Modify Digitizal Contral signal	16	Add J2 for CTSB#, J3 for DTRB#	0.2	DVT
6	Add HW functi0n for KB901 version	21	Add J4 +RTCVCC for ENE 910 B0, J5 +3VALW for ENE 910 B2	0.2	DVT
7	Increase UJ Microphone Performance	23	Add R39 SD028000000 S RES 1/16W 0 +-5% 0402	0.2	DVT
8	Change MOSEFT	16	Cgange Q6 from SB523020005 S TR SI2302DS 1N SOT-23 to SB534020000 S TR A03402 1N SOT-23	0.2	DVT
		17	Cgange Q34 from SB523020005 S TR SI2302DS 1N SOT-23 to SB534020000 S TR A03402 1N SOT-23		
		17	Cgange Q34 from SB923010007 S TR SI2301DS 1P SOT-23 to SB934130000 S TR A03413 1P SOT-23		
		23	Cgange Q50 from SB923010007 S TR SI2301DS 1P SOT-23 to SB934130000 S TR A03413 1P SOT-23		
		25	Cgange U4,U11,U13,U30 from SB548000000 S TR SI4800DY-T1 1N SO-8 to SB544040100 S TR A04404 1N SO-8		
9	Change JP27 net name for WLAN and Bluetooth function	24	Change JP27 net name Change JP27.1 net name from SM_CLK to BT_ACTIVE Change JP27.4 net name from SM_DAT to WLAN_ACTIVE	0.3	PVT
10	Modify D3, D7 FootPrint	24	Modify D3,D7 FootPrint from LED0603 to LED_HT-191UYG_2P	0.3	PVT
11	Modify JP7 Component	23	Modify JP7 from 10Pin to 9Pin Modify JP7 Net name Sequence and del GND net	0.3	PVT
12	Enable DVO function	7	Remove BOM R393 SD014100106 S RES 1/16W 1K +-1% 0603 S9	0.3	PVT
13	Modify ENE1410 Power Plan to +3VS	18	Remove BOM R789 SD0130000T4 S RES 1/16W 0 +-5% 0603 Add BOM R788 SD0130000T4 S RES 1/16W 0 +-5% 0603	0.3	PVT
14	Change +VCCP control signal from VR_ON to SUSP	25	Remove BOM R82 SD028100300 S RES 1/16W 100K +-5% 0402 Q13 SB570020000 S TR 2N7002 1N SOT-23	0.3	PVT
15	Change BuleTooth LED Color	24	Cgange D3 from SC591UYG000 S LED HT-191UYG-DT YEL/GRN 1608 to SC591NB5A00 S LED HT-191NB5-DT BLUE 0603	0.3	PVT
16	Change LED Limit Current Resistor	24	Cgange R274 from SD014221000 S RES 1/16W 221 +-1% 0603 S9 to SD0134700T1 S RES 1/16W 470 +-5% 0603 S9 Cgange R209,R99,R308 from SD0133300T4 S RES 1/16W 330 +-5% 0603 S9 to SD0134700T1 S RES 1/16W 470 +-5% 0603 S9 Cgange R315 from SD0131800T2 S RES 1/16W 180 +-5% 0603 S9 to SD0134700T1 S RES 1/16W 470 +-5% 0603 S9 Cgange R6 from SD014221000 S RES 1/16W 221 +-1% 0603 S9 to SD0134700T1 S RES 1/16W 470 +-5% 0603 S9	0.3	PVT

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Version change list (P.I.R. List)

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Item	Fixed Issue	Reason for change	Rev.	PG#	Modify List	B.Ver#	Phase
1.	Modify the CPU_CORE 0.V.P. point.	Modify the CPU_CORE 0.V.P. point.	0.2	32	1.Change PR172 from 76.8K +-1% 0603 to 90.9K +-1% 0603. 2.Change PR173 from 100K +-1% 0603 to 10K +-1% 0603.	0.2	DVT
2.	Modify the pre-charge circuit as same BMX01.	Don't use the 15V AC Adaptor.	0.2	26	1.Change the PR20 from 215K +-1% 0603 to 137K +-1% 0603. 2.Change the PR14 from 499K +-1% 0603 to 412K +-1% 0603.	0.2	DVT
3.	Change +1.8VSP from LM358 to LD0 for cost down.	Change +1.8VSP from LM358 to LD0 for cost down.	0.2	30	1.Change PU4 from LM358A S0-8 to LD0 G965-18P1U S0P-8L REG. 2.Delete the PR104,PR103,PQ11,PQ13,PR99 and PR106, PR100,PC88,PC89,PC90.	0.2	DVT
4.	Modify the Vin-detector circuit as same BMX01.	Don't use the 15V AC Adaptor.	0.2	26	1.Change PR21 from 28.7K +-1% 0603 to 20K +-1% 0603.	0.2	DVT
5.	For bridge battery charge circuit,	Because cut-in new bridge battery(18mah), so need modify charge current.	0.2	30	1.Change PR105 from 34.8K +-1% 0603 to 43.2K +-1% 0603. 2.Change PR101 from 49.9K +-1% 0603 to 40.2K +-1% 0603. 3.Change PD21 from RB051L-40 S0D-106 to RB160L-40 S0D-106.	0.2	DVT
6.	For +1.25VP circuit,	Cost down solution,	0.2	31	1.Change PU15 from NE57814DDto APL5331KAC-TR. 2.Add the PR1 1K +-1% 0402. 3.Change PR203 from 100K +-5% 0402 to 1K +-1% 0402. 4.Delete the PC180,PC185 and PC186 .1U 25V K X7R 0603.	0.2	DVT
7.	For +1.25VP circuit's output capacitor,	Cost down solution,	0.2	31	1.Delete PC184 S POLY C 150U 6.3V M F(D2) PF R45 H1.9. 2.Add PC185 S CER CAP 10U 25V K X5R 1210.	0.2	DVT
8.	For +1.8VSP circuit's output capacitor,	Cost down solution,	0.2	30	1.Delete PC85 S POLY C 150U 6.3V M F(D2) PF R45 H1.9. 2.Add PC1 S CER CAP 10U 25V K X5R 1210.	0.2	DVT
9.	For +VCCP circuit's input capacitor,	Cost down solution,	0.2	29	1.Delete PC160 S CER CAP 4.7U 25V K X5R 1206 H1.6.	0.2	DVT
10.	For RTC battery's regulator,	Cost down solution,	0.2	30	1.Change PU9 from S IC S-812C33AUA-C2N-T2 S0T89-3 to S IC G920AT24U S0T89 REG 3.3V. 2.Delete PD29 S ZEN DIO RLZ16B (LL-34).	0.2	DVT
11.	For EMI soultion.	Add 2.2 on boot.	0.2	32	1.Change PR155 from 0 to 2.2.	0.2	DVT
12.	Change +1.8VSP output capacitor size.	Change +1.8VSP output capacitor size.	0.3	30	1.Change PC1 from size 1210 to 1206 H1.6.	0.3	PVT
13.	Change +1.25VP output capacitor size.	Change +1.25VP output capacitor size.	0.3	31	1.Change PC185 from size 1210 to 1206 H1.6.	0.3	PVT
14.	Chnage the +VCCP's power sequence.	Chnage the +VCCP's power sequence from +VR_ON# to SUSP.	0.3	29	1.Change PQ28 fromTR DTC115EUA NPN (UMT3) to TR 2N7002.	0.3	PVT
15.	The Vin OVP function is fail.	Add the some components initial circuit to improve the over voltage protection function.	0.3	27	1.Add PR28 47K 0402+-5%,PQ11 DAT144EUA_SC70,PQ12 DTC115EUA_SC70,PQ13 2N7002 S0T23,PC2 0.1U_25V 0603.	0.3	PVT

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