

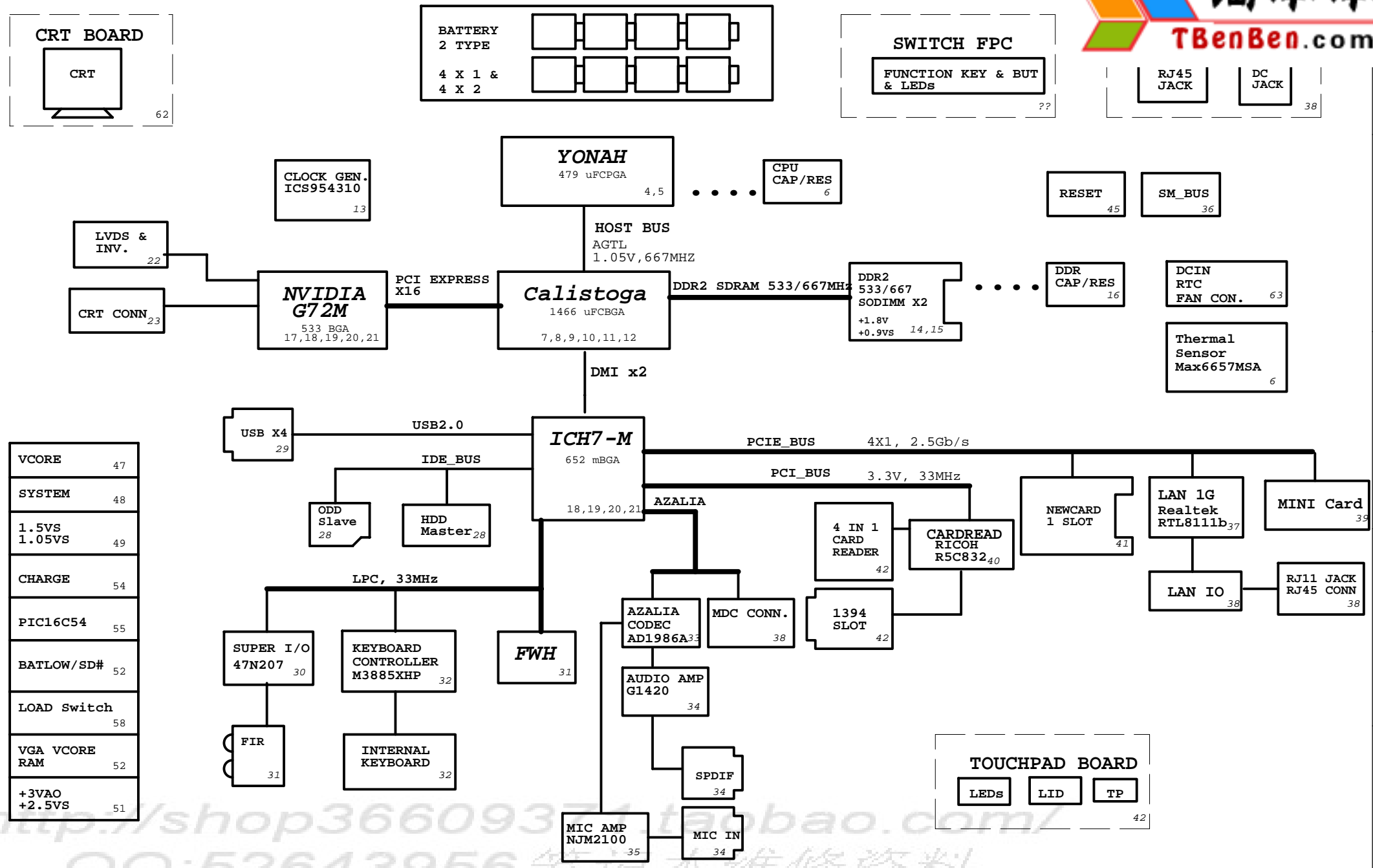
# V6J SCHEMATIC V2.0



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# V6J: YONAH/Calistoga/G72M BLOCK DIAGRAM



PCI Device	IDSEL#	REQ/GNT#	Interrupts	PC/PCI
Chipset (Host to PCI)	(AD30 internal)	n/a		
Mini_PCI	AD18	3	B,D	
LAN --88E8001	AD16	0	B	
CardBus	AD17	1	B	
1394	AD17	1	A	
4 IN 1		1	C	

AZALIA : PC  
 USB 0,1 : PC  
 USB 2,3 : PC  
 USB 4,5 : PC



CLK =  
 DDR\_SODIMM0 :  
 DDR\_SODIMM1 = 1010000x ( A0 )  
 THERMAL = 1001100x ( 98 )  
 TPM = TBD

SMBUS ADDRESS :

ICH7M_GPIO	Use As	Signal Name	Power
GPIO00	GPI	PM_BMBUSY#	+3VS
GPIO01	GPI	PCI_REQ#5	+3VS
GPIO02	GPI	G72M_THRM#(reserve)	+3VS
GPIO[3:5]	GPI	PCI_INT[E:H]	+3VS
GPIO06	GPO	BACK_OFF#	+3VS
GPIO07	GPI	WIRELESS_#	+3VS
GPIO08	GPI	EXTSMI#_3A	+3VSUS
GPIO09	GPI	ACIN_OC_ICH(reserve)	+3VSUS
GPIO10	GPI	CHG_FULLL_OC	+3VSUS
GPIO11	NATIVE	SMBALERT#	+3VSUS
GPIO12	GPI	KBCSCI_3	+3VSUS
GPIO13	GPI	BATIN_OC#_ICH(reserve)	+3VSUS
GPIO14	GPO	LID_ICH#_3A(reserve)	+3VSUS
GPIO15	GPI	802_LED#	+3VSUS
GPIO16	GPO	PM_DPRSLPVR	+3VSUS
GPIO17	GPO	PCI_GNT#5	+3VSUS
GPIO18	GPO	STP_PCI#	+3VSUS
GPIO19	GPI	SATA_DET_#1	+3VSUS
GPIO20	GPO	STP_CPU#	+3VS
GPIO21	GPI	BATSEL_2P(reserve)	+3VS
GPIO22	NATIVE	PCI_REQ#4	+3VS
GPIO23	NATIVE	LDRQ1#	+3VS
GPIO24	GPO		+3VSUS
GPIO25	GPO		+3VSUS
GPIO26	GPO	OP_SD#	+3VSUS
GPIO27	GPO	WLAN_ON	+3VSUS
GPIO28	GPO	PWR_1HZ	+3VSUS
GPIO29	NATIVE	USB_OC#45	+3VSUS
GPIO30	NATIVE	USB_OC#67	+3VSUS
GPIO31	NATIVE	USB_OC#67	+3VSUS
GPIO32	GPO	PM_CLKRUN#	+3VSUS
GPIO33	GPO	BT_ON	+3VS
GPIO34	GPO	FWH_WP#	+3VS
GPIO35	GPO		+3VS
GPIO36	GPO	BT_LED#	+3VS
GPIO37	GPI	PCB_VID0	+3VS
GPIO38	GPI	PCB_VID1	+3VS
GPIO39	GPI	PCB_VID2	+3VS
GPIO[40:47]	N/A	N/A	N/A
GPIO48	NATIVE	FWH_TBL#	+3VS
GPIO49	NATIVE	H_PWRGD	+3VS

M38857_GPIO	Use As	Signal Name
P20	GPO	KBCRSM
P21	GPI	
P22	GPO	BAT_LEARN
P23	GPO	CPPE_EN
P24	GPO	SET_PCIRSTNS#
P25	GPO	CAP_LED#
P26	GPO	NUM_LED#
P27	GPO	SCROLL_LED#
P40	GPO	KBC_EXTSMI
P41	GPO	PANLOCK_LED#
P42	GPO	WATCHDOG
P43	GPO	CHG_FULLL_KBC(reserve)
P44	GPO	KBDCPURST_3Q
P45	GPO	KBC_GA20
P46	GPO	KBSCI_3Q
P47	GPI	PM_CLKRUN#
P50	GPI	BAT_LOW#_KBC
P51	GPO	
P52	GPI	KBDDT0
P53	GPI	KBDDT1
P54	GPI	LID_ICH#_3A
P55	GPI	BAT_IN#_OC
P56	GPO	FAN_DA
P57	GPO	ADJ_BL
P60	GPI	BLUETOOTH_#
P61	GPI	INTERNET#
P62	GPI	CPPE#
P63	GPI	
P64	GPI	ACIN_OC
P65	GPI	MARATHON_#
P66	GPI	PANLOCK_#
P67	GPI	
P76	GPI/O	SMD_BAT
P77	GPI/O	SMC_BAT

G72M_GPIO	Use As	Signal Name
GPIO00	GPI	
GPIO01	GPI	
GPIO02	GPO	
GPIO03	GPO	LCD_VDD_EN#
GPIO04	GPO	LCD_BACKEN
GPIO05	GPO	
GPIO06	GPO	
GPIO07	GPO	
GPIO08	GPI	GPIO8/ALERT#
GPIO09	GPO	
GPIO10	GPIO	G72M_GPIO12
GPIO11	GPO	
GPIO12	GPO	

47N207_GPIO	Use As	Signal Name
GP10	GPIO	
GP11	GPIO	
GP12	GPO	
GP13	GPO	
GP14	GPO	FIR_SEL
GP15	GPIO	PWR_THRO#
GP16	GPIO	ODD_DIS#
GP17	GPIO	RST#_XCARD
GP30	GPIO	PID0
GP31	GPIO	
GP32	GPIO	G72M_THRO#
GP33	GPIO	CPUFAN_SPD_A
GP34	GPIO	SW_RST#
GP35	GPIO	
GP36	GPIO	
GP37	GPIO	



PROJECT: V6J

REVISION  
2.0

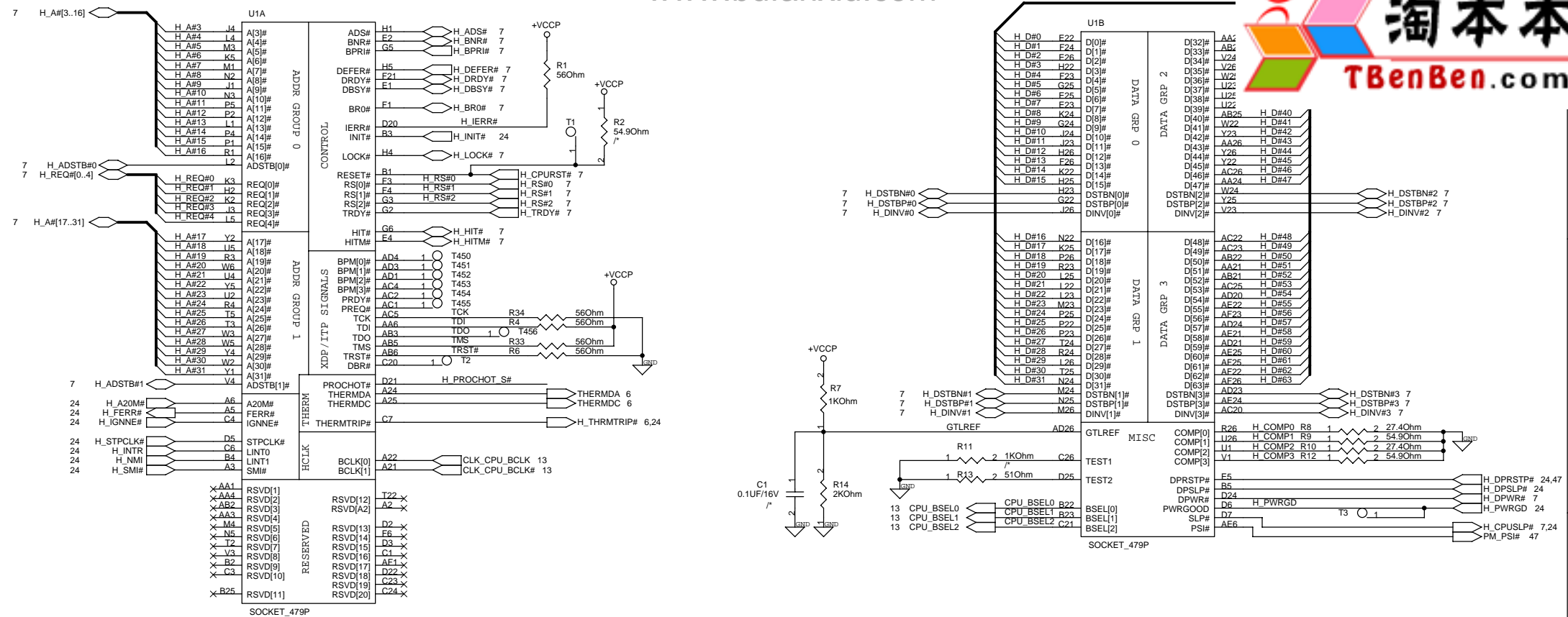
DATE: Friday, November 25, 2005  
SHEET 3 OF 63

DESCRIPTION:  
SYSTEM INFO.

SCHEMATIC FILE NAME : <OrgName>  
RELEASE DATE :

DESIGN ENGINEER :  
Feng Lin

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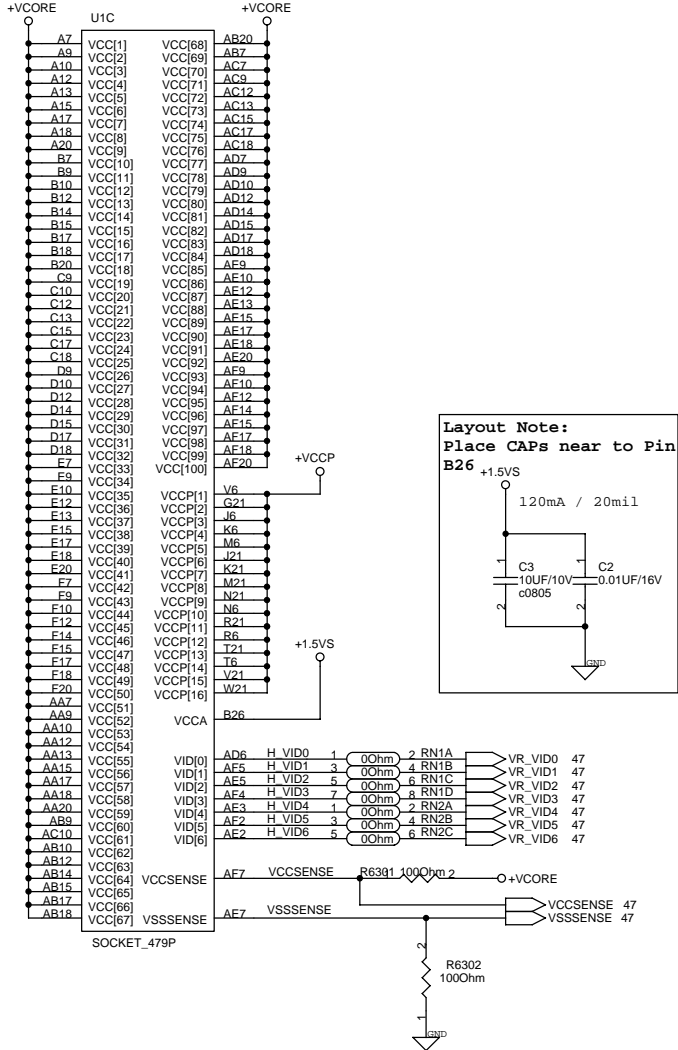
Layout Note : GTLREF  
Trace Length<500 mil (55 Ohm)  
T/B trace 5.5 , Space 25

BCLK	FSB	BSEL0	BSEL1	BSEL2
133	533	H	L	L
166	667	H	H	L

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YONAH FSB667			
	LFM	TYP	HFM
CPU State	C4	C3	C0
VCC	1.14V	1.2V	1.356V
ICC	0.9A	7.59A	27A

YONAH FSB667			
	MIN	TYP	MAX
VCCP	0.997V	1.05V	1.102V
ICCP			2.5A



UID	Pin	UID	Pin
A4	VSS[1]	PR	P22
A8	VSS[2]	P23	P24
A11	VSS[3]	R1	R2
A14	VSS[4]	R2	R5
A16	VSS[5]	R5	R22
A19	VSS[6]	R22	R25
A23	VSS[7]	R25	T1
A26	VSS[8]	T1	T4
B6	VSS[9]	T4	T23
B8	VSS[10]	T23	T26
B11	VSS[11]	T26	T3
B13	VSS[12]	T3	T12
B16	VSS[13]	T12	T21
B19	VSS[14]	T21	T24
B21	VSS[15]	T24	V2
B24	VSS[16]	V2	V5
C5	VSS[17]	V5	V22
C8	VSS[18]	V22	V25
C11	VSS[19]	V25	W1
C14	VSS[20]	W1	W4
C16	VSS[21]	W4	W23
C19	VSS[22]	W23	W26
C2	VSS[23]	W26	Y3
C22	VSS[24]	Y3	Y6
C25	VSS[25]	Y6	Y21
D1	VSS[26]	Y21	Y24
D4	VSS[27]	Y24	AA2
D8	VSS[28]	AA2	AA5
D11	VSS[29]	AA5	AA8
D13	VSS[30]	AA8	AA11
D16	VSS[31]	AA11	AA14
D19	VSS[32]	AA14	AA16
D23	VSS[33]	AA16	AA19
D26	VSS[34]	AA19	AA22
E3	VSS[35]	AA22	AA25
E6	VSS[36]	AA25	AB1
E8	VSS[37]	AB1	AB4
E11	VSS[38]	AB4	AB8
E14	VSS[39]	AB8	AB11
E16	VSS[40]	AB11	AB13
E19	VSS[41]	AB13	AB16
E21	VSS[42]	AB16	AB19
E24	VSS[43]	AB19	AB23
E5	VSS[44]	AB23	AB26
E8	VSS[45]	AB26	AC3
F11	VSS[46]	AC3	AC6
F13	VSS[47]	AC6	AC8
F16	VSS[48]	AC8	AC11
F19	VSS[49]	AC11	AC14
F2	VSS[50]	AC14	AC16
F22	VSS[51]	AC16	AC19
F25	VSS[52]	AC19	AC21
G4	VSS[53]	AC21	AC24
G1	VSS[54]	AC24	AD2
G23	VSS[55]	AD2	AD5
G26	VSS[56]	AD5	AD8
H3	VSS[57]	AD8	AD11
H6	VSS[58]	AD11	AD13
H21	VSS[59]	AD13	AD16
H24	VSS[60]	AD16	AD19
J2	VSS[61]	AD19	AD22
J5	VSS[62]	AD22	AD25
J22	VSS[63]	AD25	AE1
J25	VSS[64]	AE1	AE4
K1	VSS[65]	AE4	AE8
K4	VSS[66]	AE8	AE11
K23	VSS[67]	AE11	AE14
K26	VSS[68]	AE14	AE16
L3	VSS[69]	AE16	AE19
L6	VSS[70]	AE19	AE23
L21	VSS[71]	AE23	AE26
M2	VSS[72]	AE26	AF6
M22	VSS[73]	AF6	AF8
M5	VSS[74]	AF8	AF11
M22	VSS[75]	AF11	AF16
M25	VSS[76]	AF16	AF19
N1	VSS[77]	AF19	AF21
N4	VSS[78]	AF21	AF24
N23	VSS[79]	AF24	
N26	VSS[80]		
P3	VSS[81]		

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VID[6..0]	Voltage	VID[6..0]	Voltage	VID[6..0]	Voltage	VID[6..0]	Voltage
0000000	1.5000V	0100000	1.1000V	10			
0000001	1.4875V	0100001	1.0875V	1000000	0.6875V	1100000	0.2875V
0000010	1.4750V	0100010	1.0750V	1000010	0.6750V	1100010	0.2750V
0000011	1.4625V	0100011	1.0625V	1000011	0.6625V	1100011	0.2650V
0000100	1.4500V	0100100	1.0500V	1000100	0.6500V	1100100	0.2500V
0000101	1.4375V	0100101	1.0375V	1000101	0.6375V	1100101	0.2375V
0000110	1.4250V	0100110	1.0250V	1000110	0.6250V	1100110	0.2250V
0000111	1.4125V	0100111	1.0125V	1000111	0.6125V	1100111	0.2125V
0001000	1.4000V	0101000	1.0000V	1001000	0.6000V	1101000	0.2000V
0001001	1.3875V	0101001	0.9875V	1001001	0.5875V	1101001	0.1875V
0001010	1.3750V	0101010	0.9750V	1001010	0.5750V	1101010	0.1750V
0001011	1.3625V	0101011	0.9625V	1001011	0.5625V	1101011	0.1625V
0001100	1.3500V	0101100	0.9500V	1001100	0.5500V	1101100	0.1500V
0001101	1.3375V	0101101	0.9375V	1001101	0.5375V	1101101	0.1375V
0001110	1.3250V	0101110	0.9250V	1001110	0.5250V	1101110	0.1250V
0001111	1.3125V	0101111	0.9125V	1001111	0.5125V	1101111	0.1125V
0010000	1.3000V	0110000	0.9000V	1010000	0.5000V	1110000	0.1000V
0010001	1.2875V	0110001	0.8875V	1010001	0.4875V	1110001	0.0875V
0010010	1.2750V	0110010	0.8750V	1010010	0.4750V	1110010	0.0750V
0010011	1.2625V	0110011	0.8625V	1010011	0.4625V	1110011	0.0625V
0010100	1.2500V	0110100	0.8500V	1010100	0.4500V	1110100	0.0500V
0010101	1.2375V	0110101	0.8375V	1010101	0.4375V	1110101	0.0375V
0010110	1.2250V	0110110	0.8250V	1010110	0.4250V	1110110	0.0250V
0010111	1.2125V	0110111	0.8125V	1010111	0.4125V	1110111	0.0125V
0011000	1.2000V	0111000	0.8000V	1011000	0.4000V	1111000	0.0000V
0011001	1.1875V	0111001	0.7875V	1011001	0.3875V	1111001	0.0000V
0011010	1.1750V	0111010	0.7750V	1011010	0.3750V	1111010	0.0000V
0011011	1.1625V	0111011	0.7625V	1011011	0.3625V	1111011	0.0000V
0011100	1.1500V	0111100	0.7500V	1011100	0.3500V	1111100	0.0000V
0011101	1.1375V	0111101	0.7375V	1011101	0.3375V	1111101	0.0000V
0011110	1.1250V	0111110	0.7250V	1011110	0.3250V	1111110	0.0000V
0011111	1.1125V	0111111	0.7125V	1011111	0.3125V	1111111	0.0000V

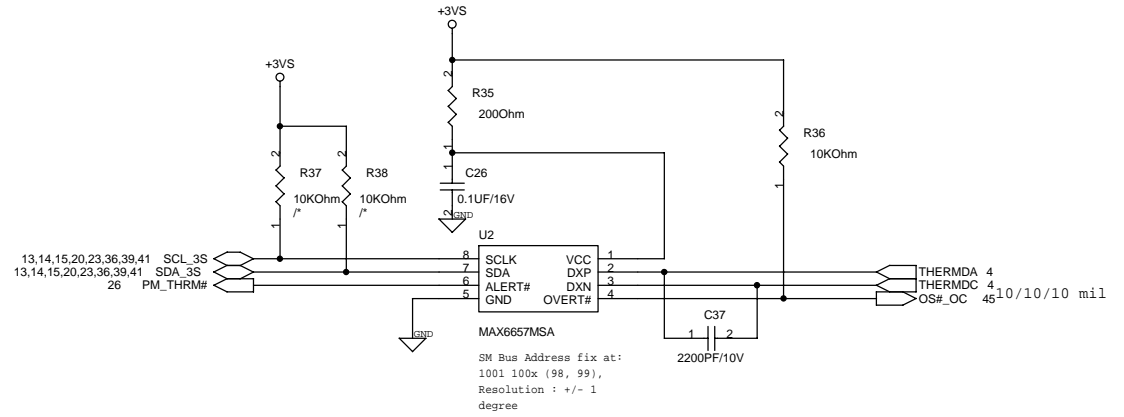
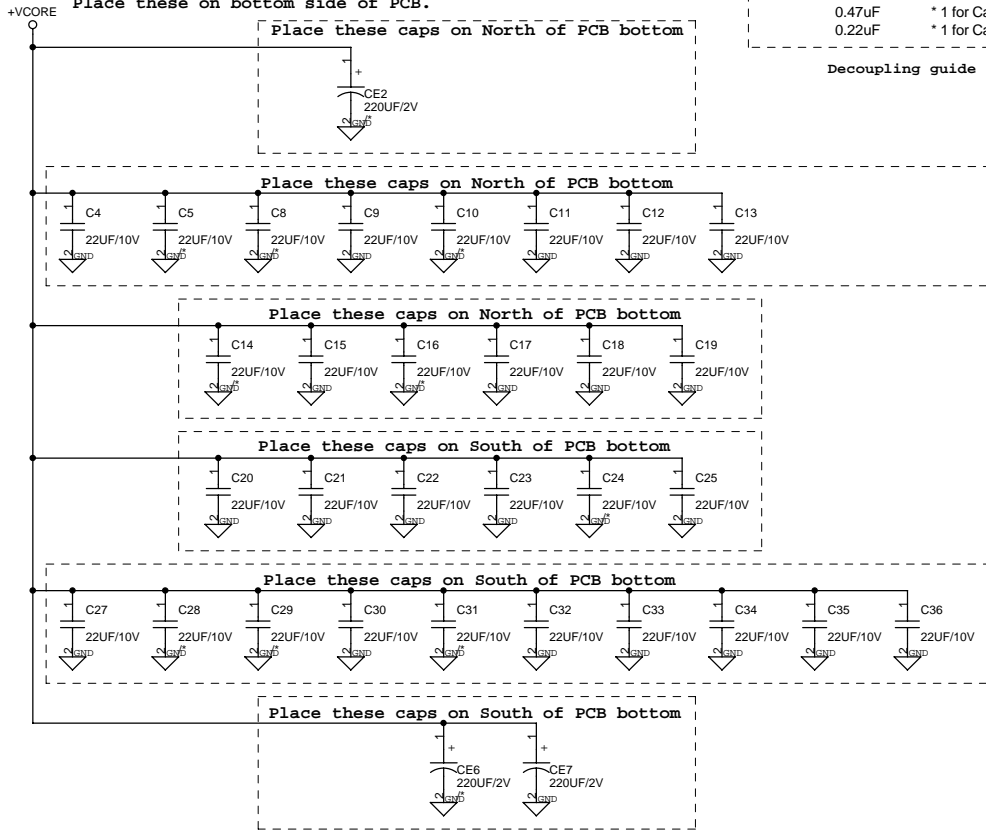
YONAH VID TABLE								
CPU FRQ.	HFM VOLTAGE	1.6G	1.4G	1.2G	1G	LFM 0.8G	C3/C4	
2.13G/B1	1.372V					0.988V	0.726V	
2.0G/B1	1.356V					0.988V	0.726V	
1.87G/B1	1.356V					0.988V	0.726V	
1.73G/B1	1.356V					0.988V	0.726V	
1.6G/B1	1.356V					0.988V	0.726V	
1.6G/A2	1.308V	1.292V	1.260V	1.228V	1.196V	0.844V	0.748V	

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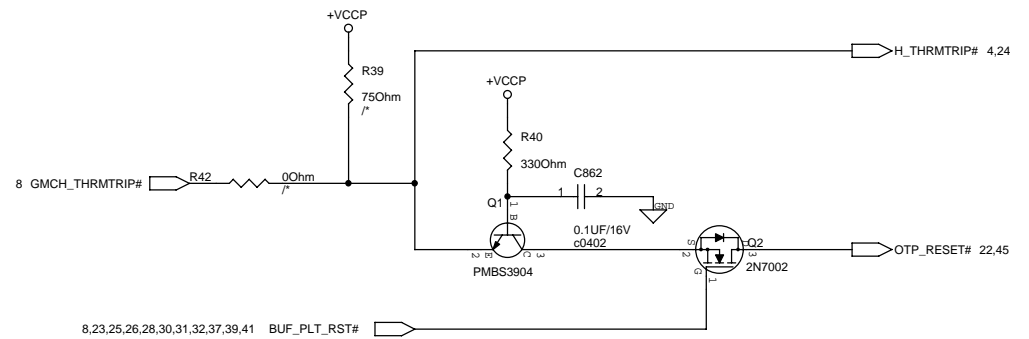
VCore	22uF/6.3V	* 20
	330uF/2V	* 6
VCCP	0.1uF	* 5 for CPU
	220uF	* 1 for CPU
	220uF	* 1 for Calistoga
	4.7uF	* 1 for Calistoga
	2.2uF	* 1 for Calistoga
	0.47uF	* 1 for Calistoga
	0.22uF	* 1 for Calistoga

Decoupling guide from INTEL

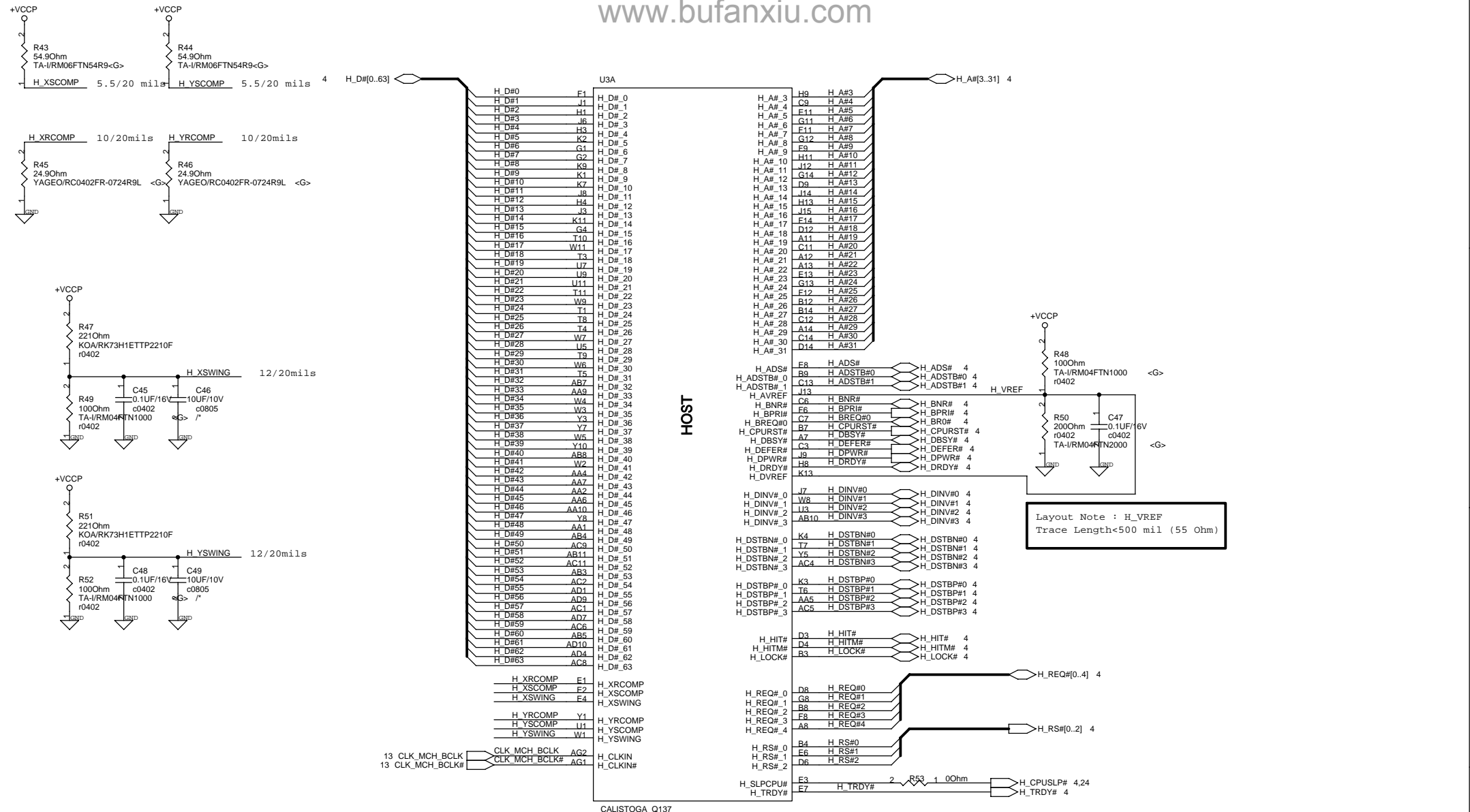
Layout Note :  
All of VCore Decoupling Caps  
Place these on bottom side of PCB.



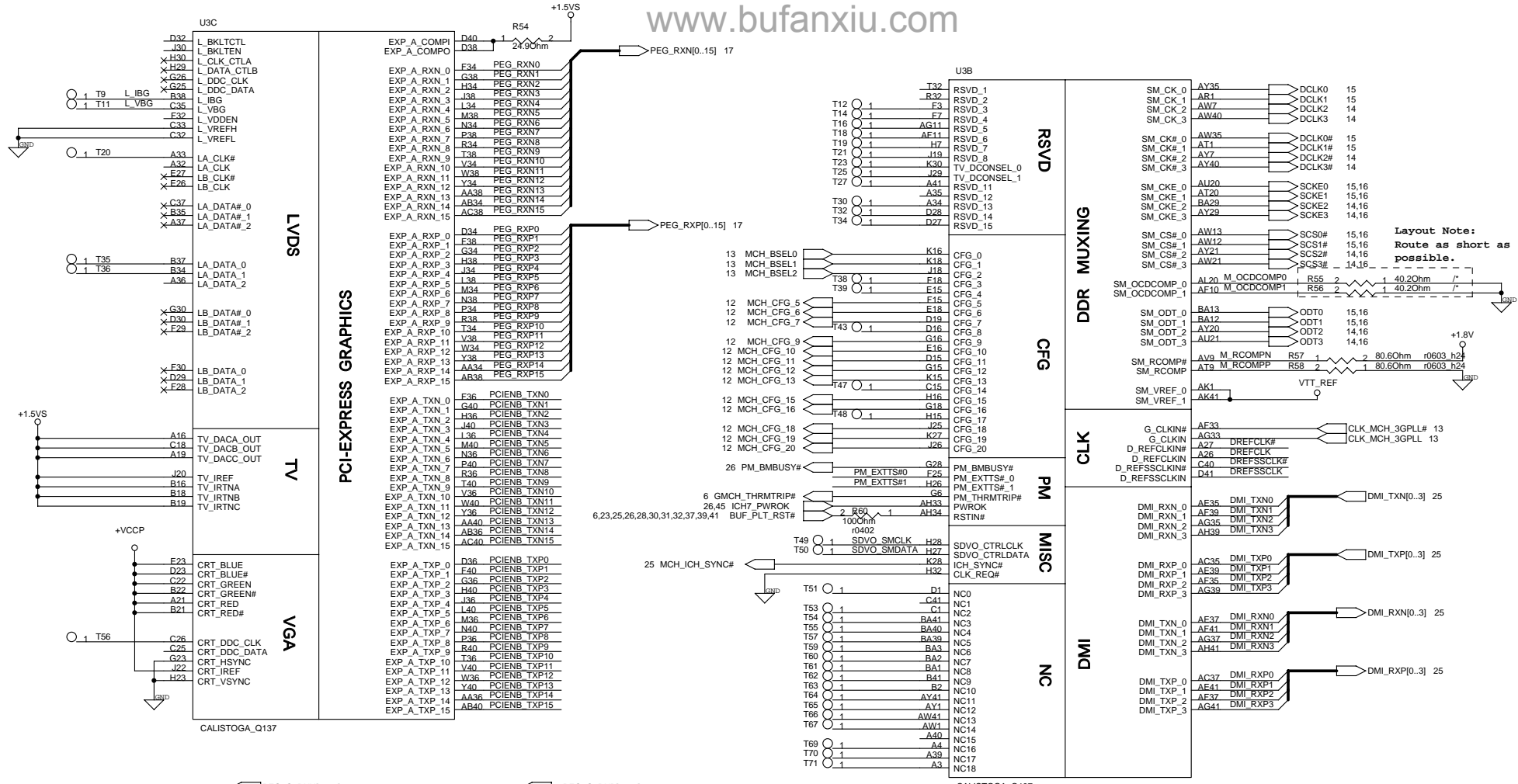
**THERMAL SENSOR**



Layout Note :  
+V1.05S (VCCP) Decoupling Capacitor  
(Place near CPU)



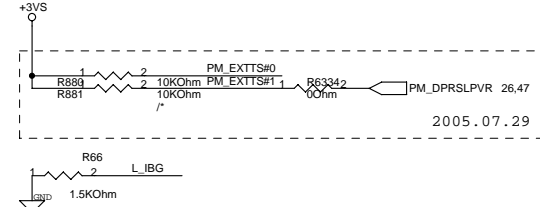
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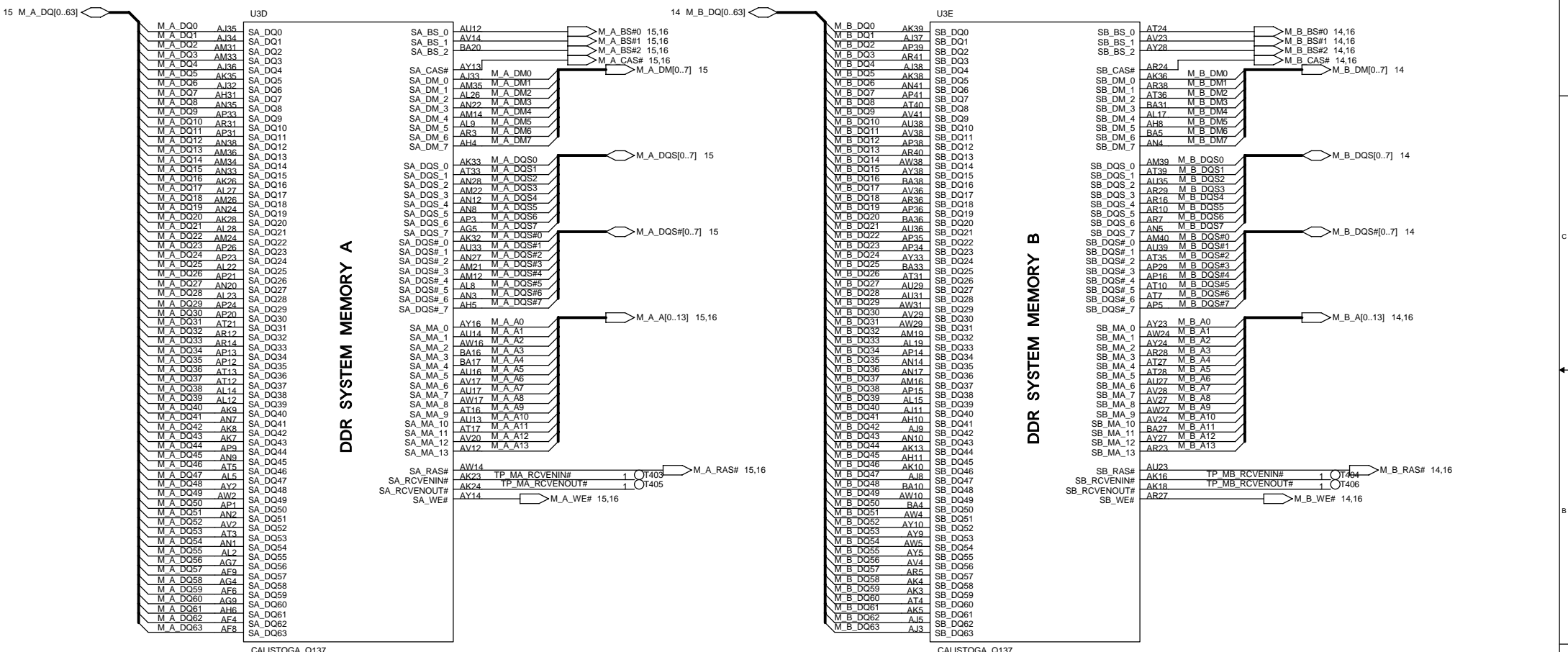
**Layout Note:**  
Route as short as possible.

PCIEBN_TXN0	1	2	PEG_G_RXN0	PCIEBN_TXP0	1	2	PEG_G_RXP0
PCIEBN_TXN1	1	2	0.1uF/16V	PCIEBN_TXP1	1	2	0.1uF/16V
PCIEBN_TXN1	1	2	PEG_G_RXN1	PCIEBN_TXP1	1	2	PEG_G_RXP1
PCIEBN_TXN2	1	2	0.1uF/16V	PCIEBN_TXP2	1	2	0.1uF/16V
PCIEBN_TXN2	1	2	PEG_G_RXN2	PCIEBN_TXP2	1	2	PEG_G_RXP2
PCIEBN_TXN3	1	2	0.1uF/16V	PCIEBN_TXP3	1	2	0.1uF/16V
PCIEBN_TXN3	1	2	PEG_G_RXN3	PCIEBN_TXP3	1	2	PEG_G_RXP3
PCIEBN_TXN4	1	2	0.1uF/16V	PCIEBN_TXP4	1	2	0.1uF/16V
PCIEBN_TXN4	1	2	PEG_G_RXN4	PCIEBN_TXP4	1	2	PEG_G_RXP4
PCIEBN_TXN5	1	2	0.1uF/16V	PCIEBN_TXP5	1	2	0.1uF/16V
PCIEBN_TXN5	1	2	PEG_G_RXN5	PCIEBN_TXP5	1	2	PEG_G_RXP5
PCIEBN_TXN6	1	2	0.1uF/16V	PCIEBN_TXP6	1	2	0.1uF/16V
PCIEBN_TXN6	1	2	PEG_G_RXN6	PCIEBN_TXP6	1	2	PEG_G_RXP6
PCIEBN_TXN7	1	2	0.1uF/16V	PCIEBN_TXP7	1	2	0.1uF/16V
PCIEBN_TXN7	1	2	PEG_G_RXN7	PCIEBN_TXP7	1	2	PEG_G_RXP7
PCIEBN_TXN8	1	2	0.1uF/16V	PCIEBN_TXP8	1	2	0.1uF/16V
PCIEBN_TXN8	1	2	PEG_G_RXN8	PCIEBN_TXP8	1	2	PEG_G_RXP8
PCIEBN_TXN9	1	2	0.1uF/16V	PCIEBN_TXP9	1	2	0.1uF/16V
PCIEBN_TXN9	1	2	PEG_G_RXN9	PCIEBN_TXP9	1	2	PEG_G_RXP9
PCIEBN_TXN10	1	2	0.1uF/16V	PCIEBN_TXP10	1	2	0.1uF/16V
PCIEBN_TXN10	1	2	PEG_G_RXN10	PCIEBN_TXP10	1	2	PEG_G_RXP10
PCIEBN_TXN11	1	2	0.1uF/16V	PCIEBN_TXP11	1	2	0.1uF/16V
PCIEBN_TXN11	1	2	PEG_G_RXN11	PCIEBN_TXP11	1	2	PEG_G_RXP11
PCIEBN_TXN12	1	2	0.1uF/16V	PCIEBN_TXP12	1	2	0.1uF/16V
PCIEBN_TXN12	1	2	PEG_G_RXN12	PCIEBN_TXP12	1	2	PEG_G_RXP12
PCIEBN_TXN13	1	2	0.1uF/16V	PCIEBN_TXP13	1	2	0.1uF/16V
PCIEBN_TXN13	1	2	PEG_G_RXN13	PCIEBN_TXP13	1	2	PEG_G_RXP13
PCIEBN_TXN14	1	2	0.1uF/16V	PCIEBN_TXP14	1	2	0.1uF/16V
PCIEBN_TXN14	1	2	PEG_G_RXN14	PCIEBN_TXP14	1	2	PEG_G_RXP14
PCIEBN_TXN15	1	2	0.1uF/16V	PCIEBN_TXP15	1	2	0.1uF/16V
PCIEBN_TXN15	1	2	PEG_G_RXN15	PCIEBN_TXP15	1	2	PEG_G_RXP15
PCIEBN_TXN15	1	2	0.1uF/16V	PCIEBN_TXP15	1	2	0.1uF/16V

No stuff for internal graphic

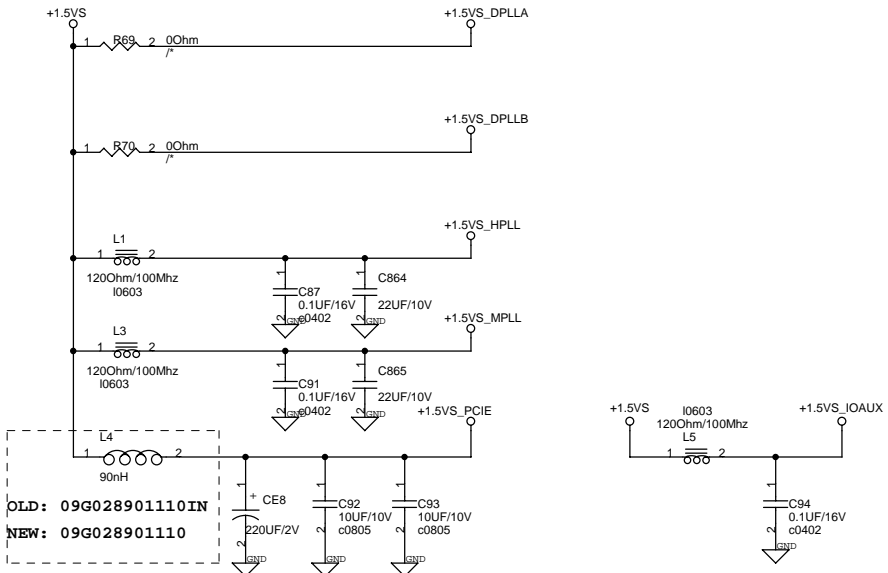




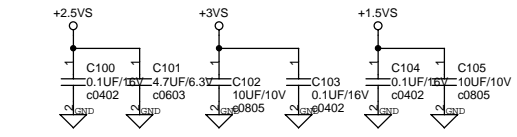


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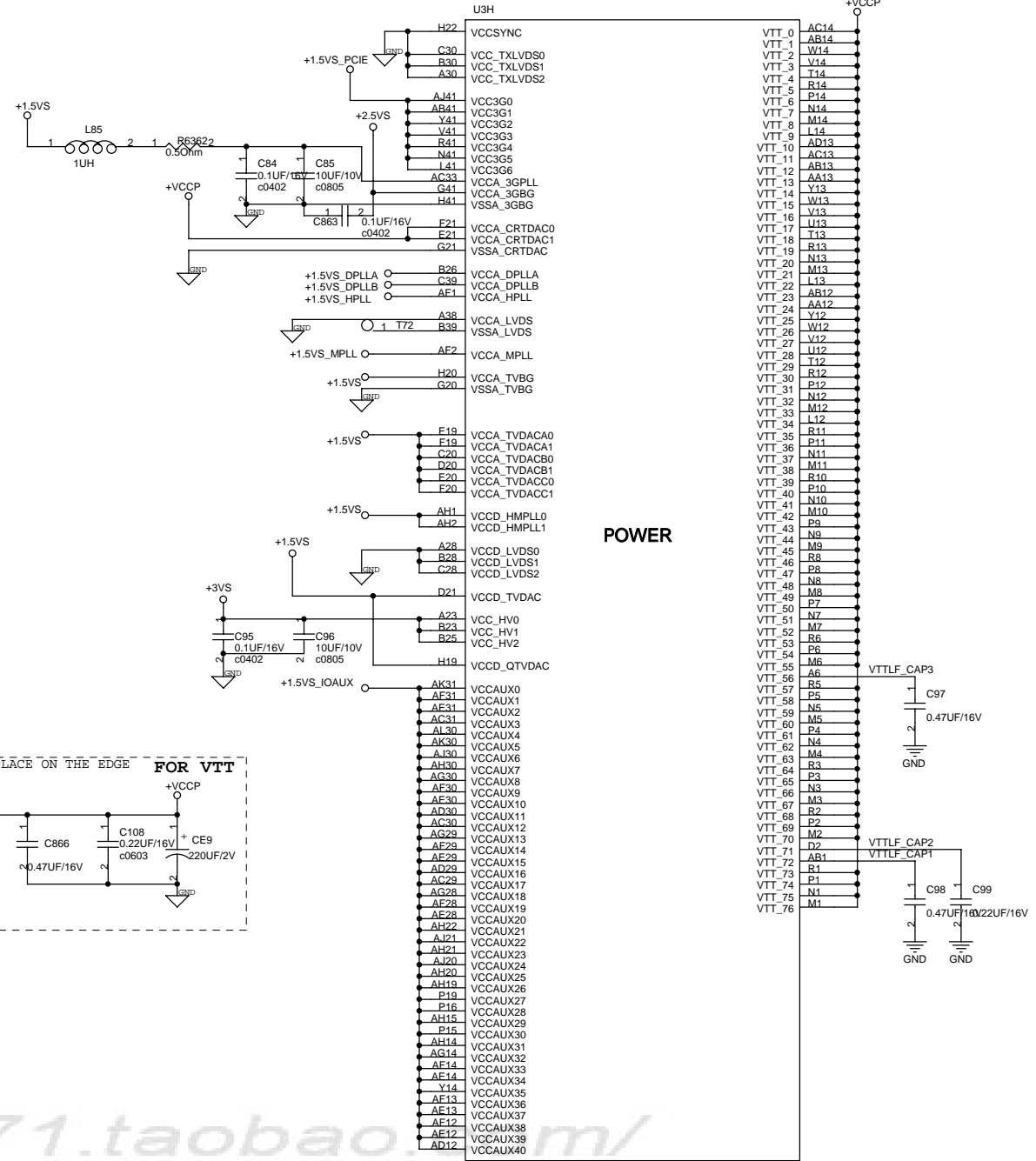
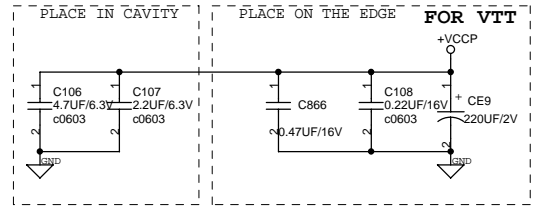
NOTE:0.1uF caps in 1.5SxPLL need to be located as edge caps within 200 mils.



OLD: 09G028901110IN  
NEW: 09G028901110

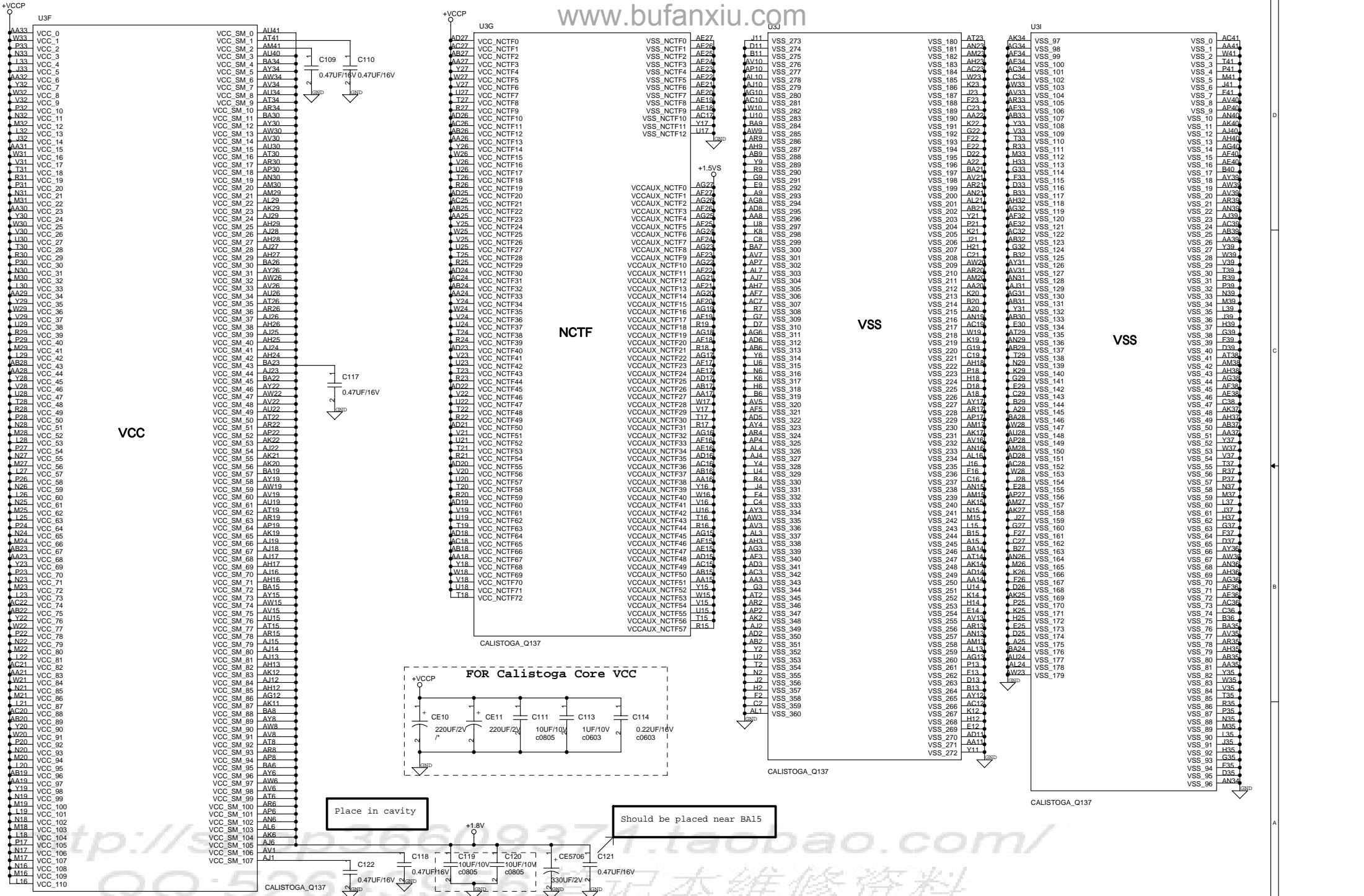


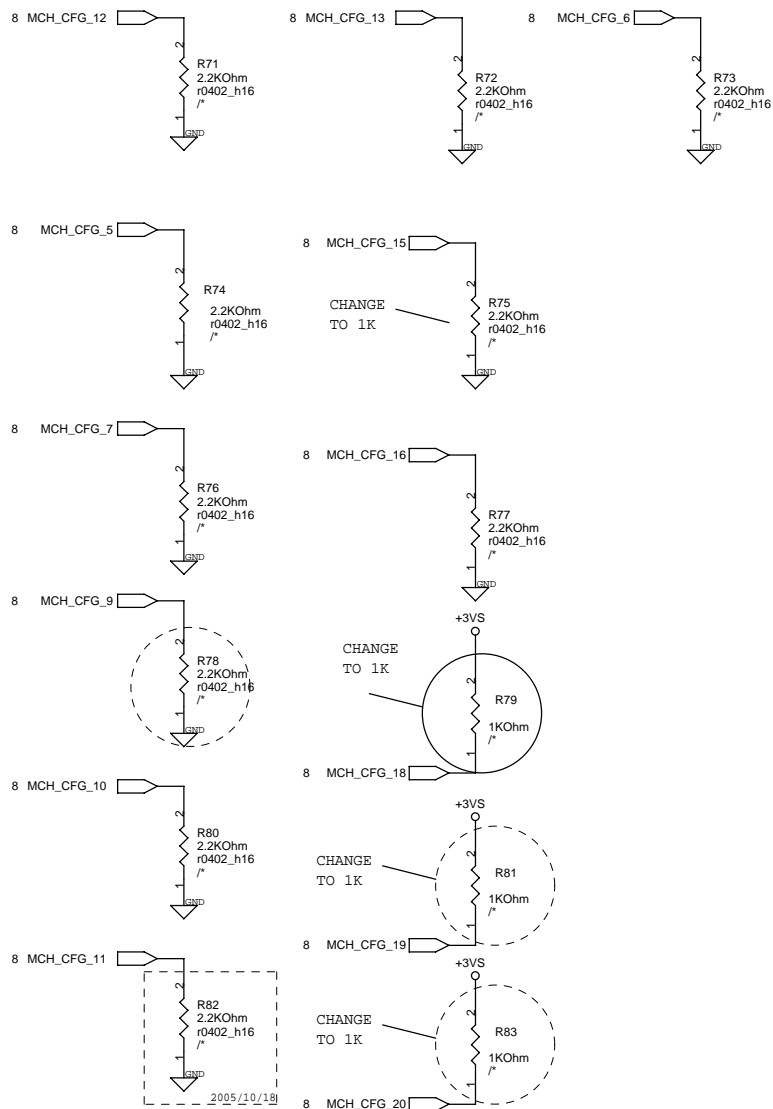
NOTE:0.1UF CAPS USED IN +1.5VS, +3.3VS +2.5VS should be placed within 200 mils of edge.



POWER

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Signal Name	Configuration	Notes
CFG[2:0]	011= 667 FSB 001= 533 FSB	Selection the FSB frequency
CFG5	0= DMIX2 1= DMIX4	Selection between DMIX2 and DMIX4
CFG7	0= Reserved 1= Mobil Yonah	Control the target processor
CFG9	0= Lane Reversal EN 1= Normal Operation	
CFG[13:12]	01= XOR 10= Z 11= Normal Operation	
CFG16	0= Dynamic ODT DIS 1= Dynamic ODT EN	Control FSB Dynamic ODT
CFG18	0= 1.05V 1= 1.5V	Control GMCH Vcore level
CFG19	0= Normal Operation 1= DMI Lane Revesal EN	
SDVOCTRL_DATA	0= No SDVO device 1= SDVO device present	

**Intel Demo Circuit**

CFG6	0= Moby Dick 1= Calistoga	
CFG9	0= Lane Reversal EN 1= Normal Operation	
CFG11	0= Reserved 1= 8x Enable	PSB 4x CLK Enable
CFG20	0= Only SDVO or PCIE x1 (Default) 1= SDVO and PCIE x1 are operating	

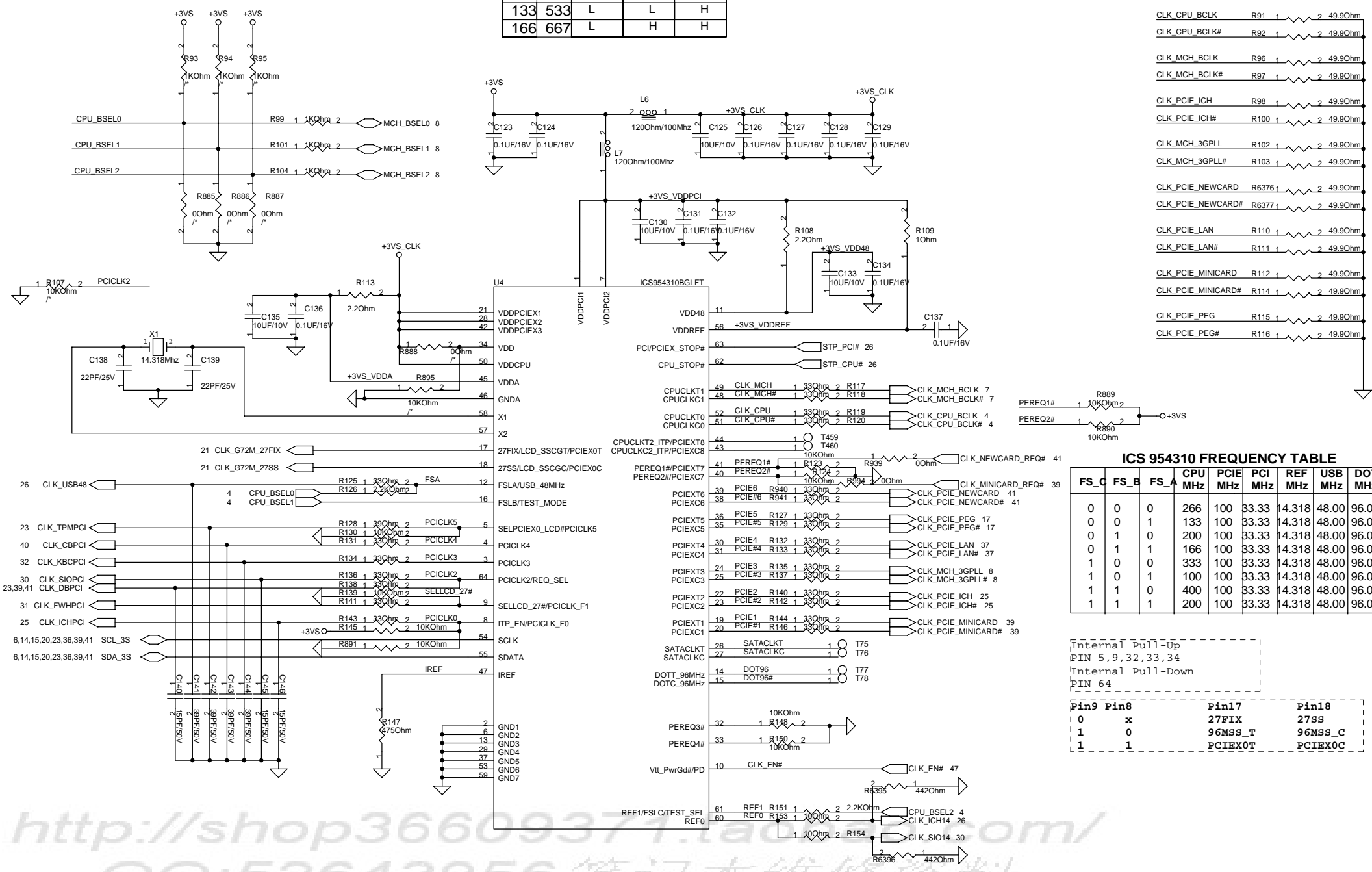
CFG[2..0] need external pullup resistors.  
CFG[17..3] have internal pullup resistors.  
CFG[19..18] have internal pulldown resistors.  
SDVOCTRL\_DATA has internal pulldown resistors.

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Bclk	FSB	FSLC	FSLB	FSLA
133	533	L	L	H
166	667	L	H	H

PLACE termination close to source IC



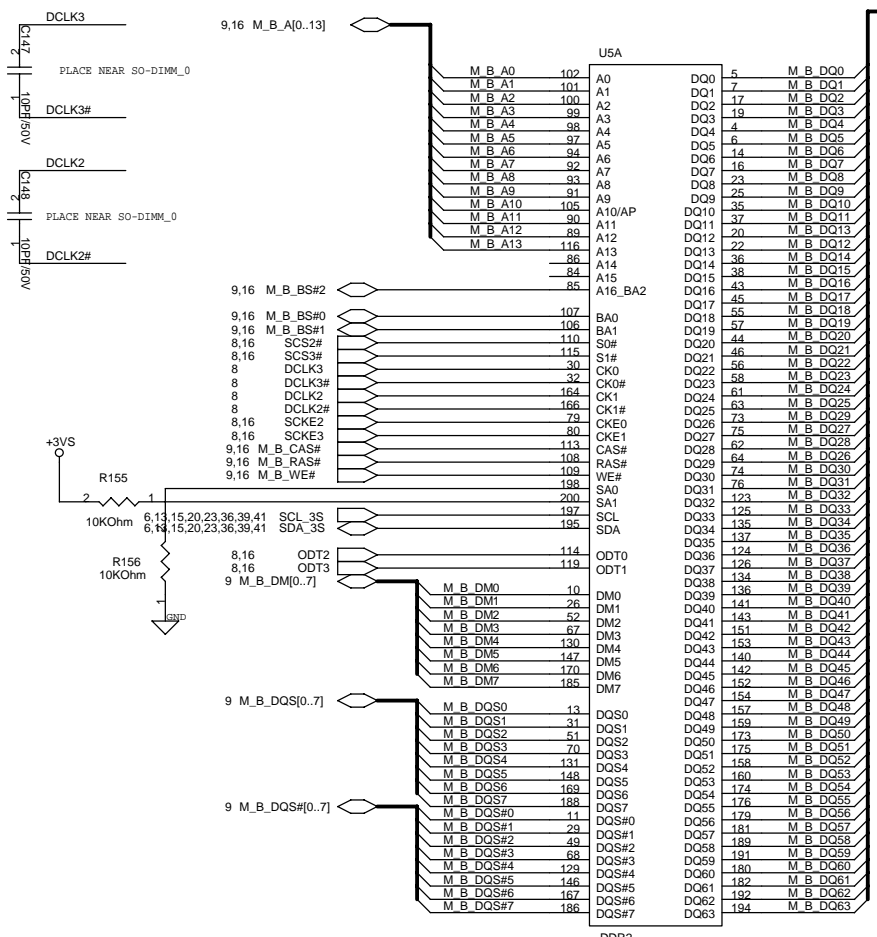
ICS 954310 FREQUENCY TABLE

FS_C	FS_B	FS_A	CPU MHz	PCI MHz	PCI MHz	REF MHz	USB MHz	DOT MHz
0	0	0	266	100	33.33	14.318	48.00	96.00
0	0	1	133	100	33.33	14.318	48.00	96.00
0	1	0	200	100	33.33	14.318	48.00	96.00
0	1	1	166	100	33.33	14.318	48.00	96.00
1	0	0	333	100	33.33	14.318	48.00	96.00
1	0	1	100	100	33.33	14.318	48.00	96.00
1	1	0	400	100	33.33	14.318	48.00	96.00
1	1	1	200	100	33.33	14.318	48.00	96.00

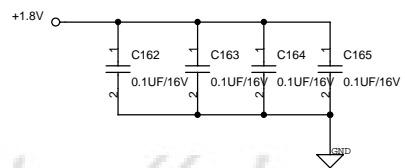
Internal Pull-Up  
PIN 5, 9, 32, 33, 34  
Internal Pull-Down  
PIN 64

Pin9	Pin8	Pin17	Pin18
0	x	27FIX	27SS
1	0	96MSS_T	96MSS_C
1	1	PCIE_X0T	PCIE_X0C

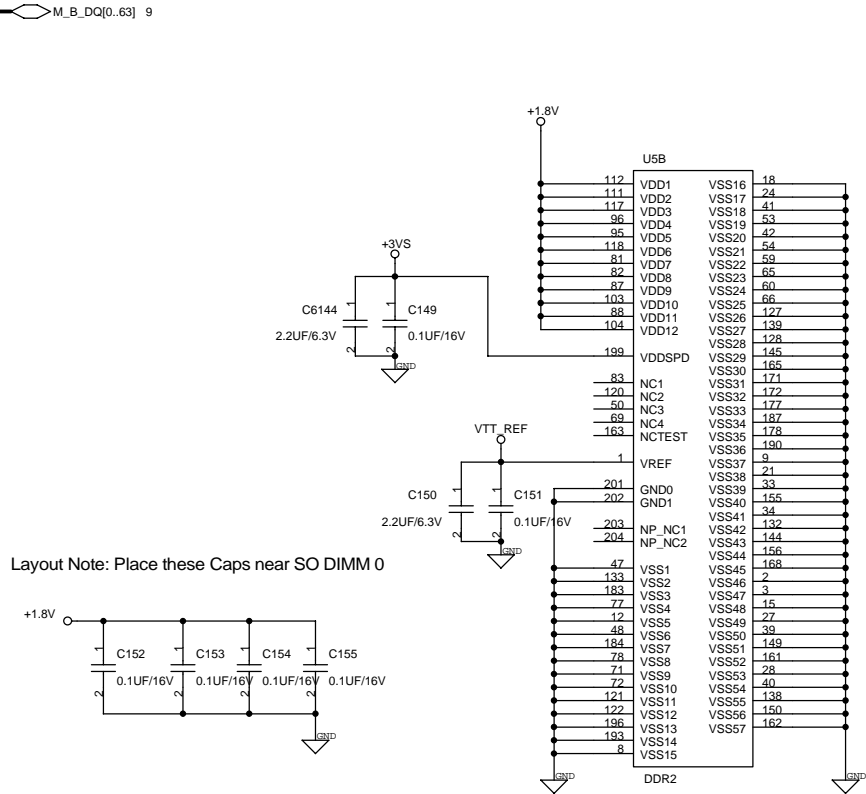
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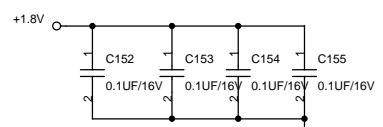
Layout Note: Place these High-Freq decoupling Caps near the GMCH



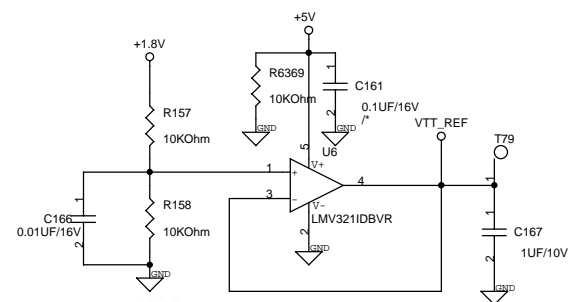
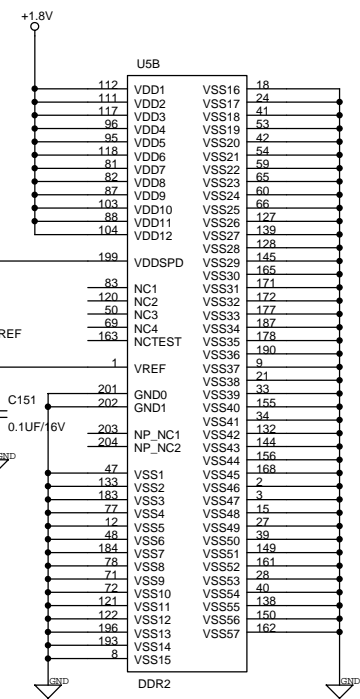
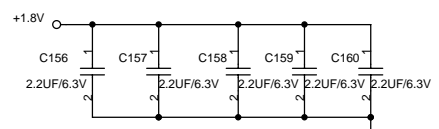
SO-DIMM Part is QUASAR  
BOM is TYCO



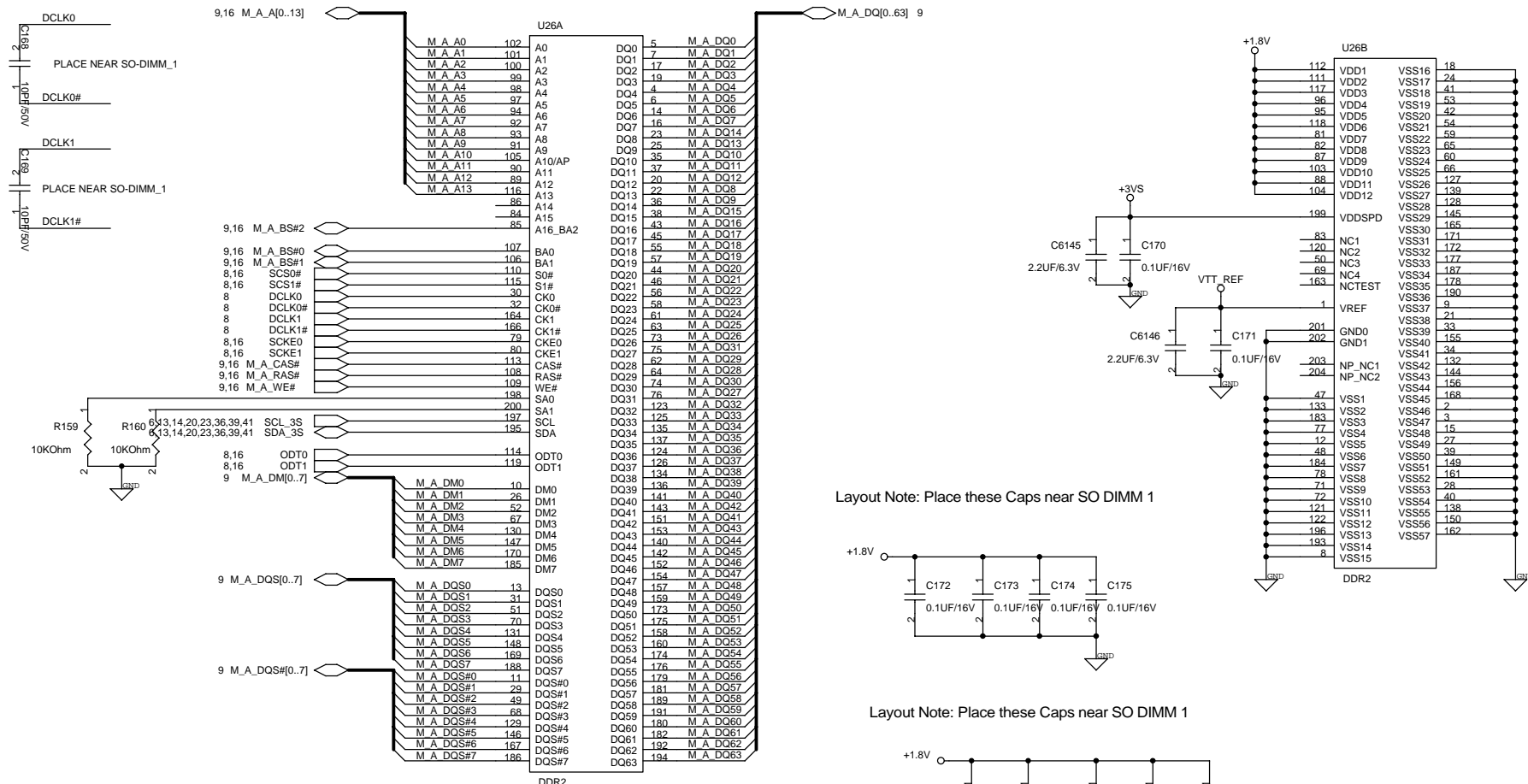
Layout Note: Place these Caps near SO DIMM 0



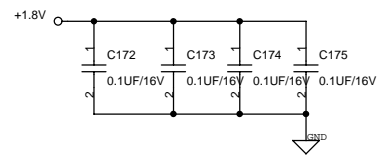
Layout Note: Place these Caps near SO DIMM 0



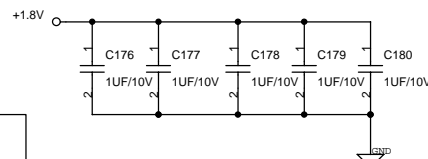
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Layout Note: Place these Caps near SO DIMM 1



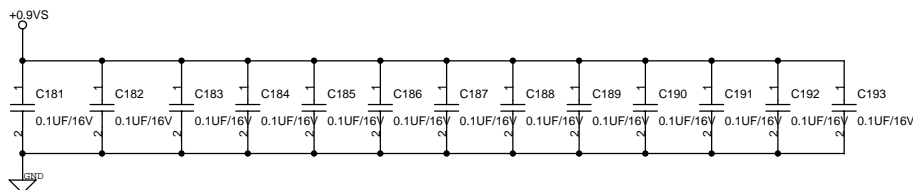
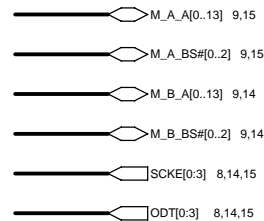
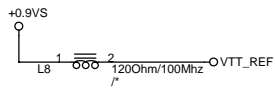
Layout Note: Place these Caps near SO DIMM 1



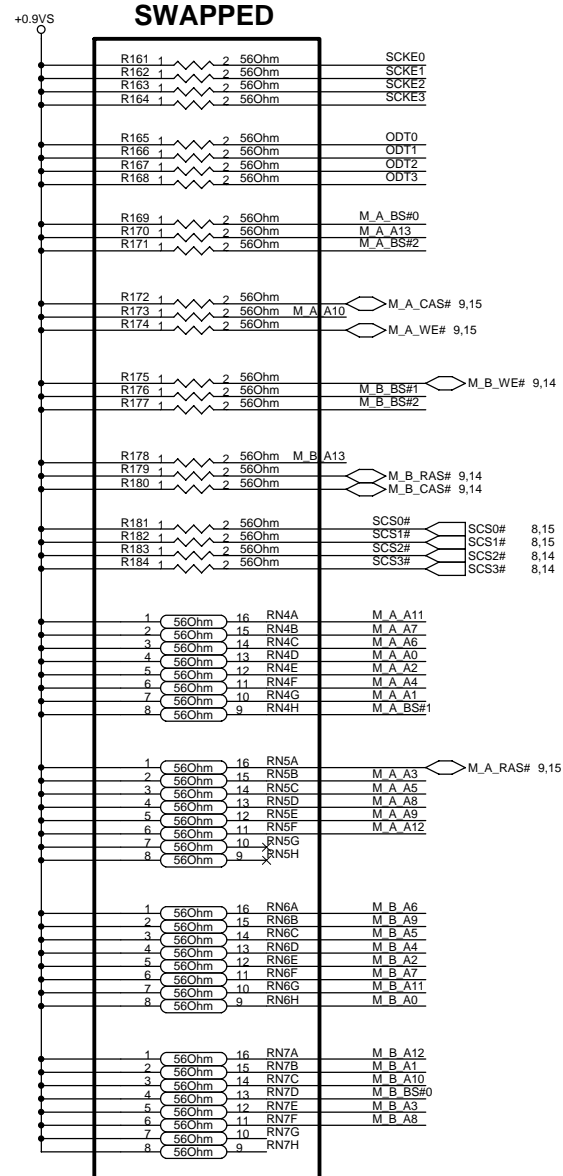
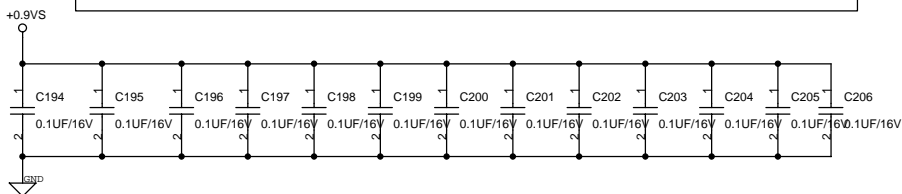
SO-DIMM Part is QUASAR  
BOM is TYCO

SO-DIMM 1 is placed farther  
from the GMCH than SO-DIMM 0

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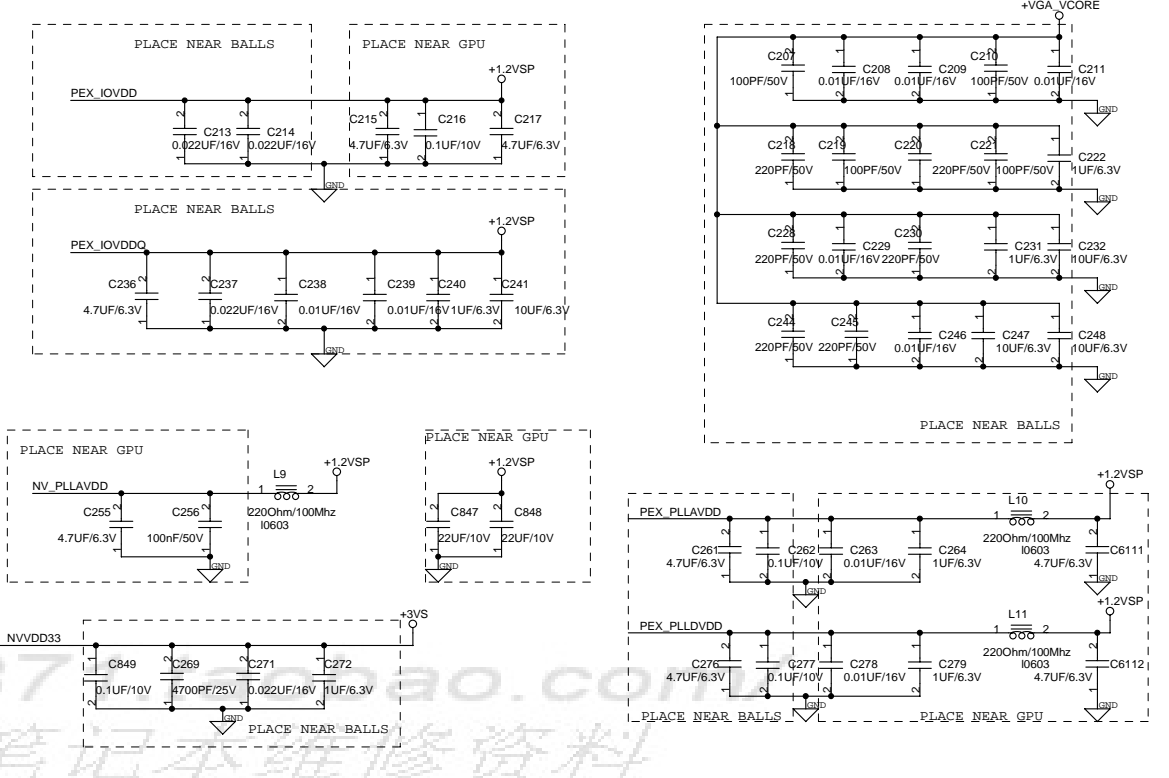
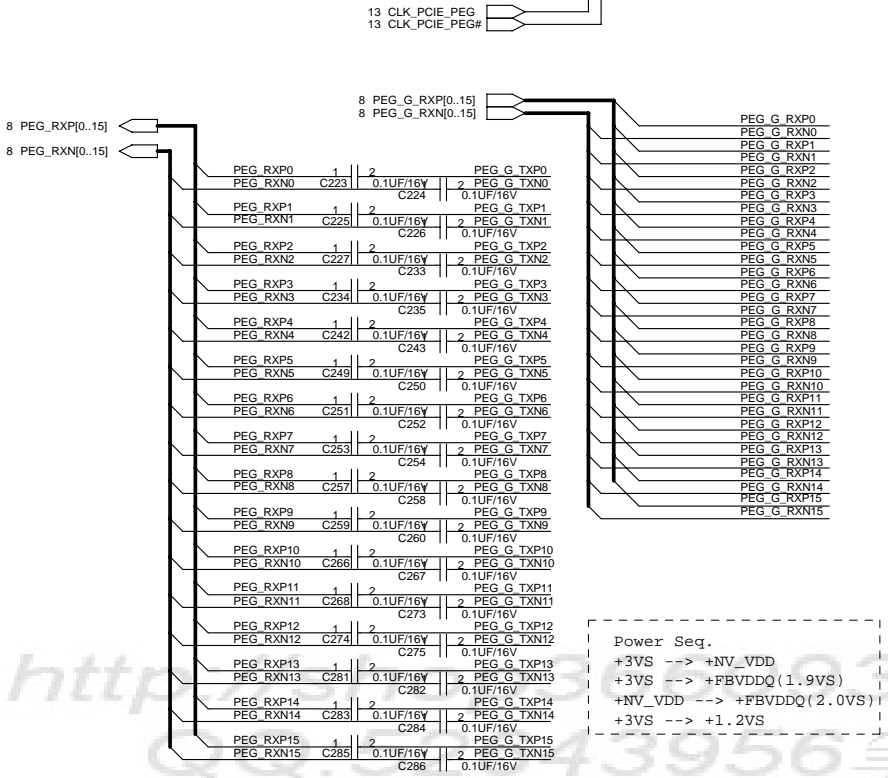
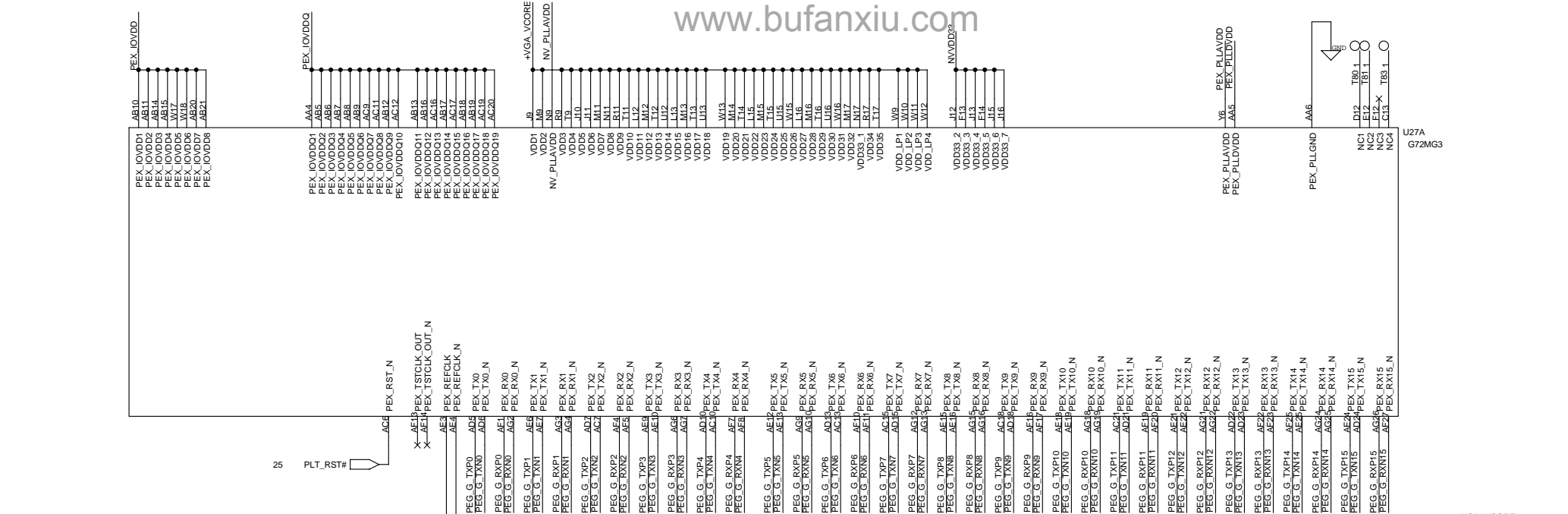


Layout note: Place one cap close to every 2 pullup resistors terminated to +0.9VS

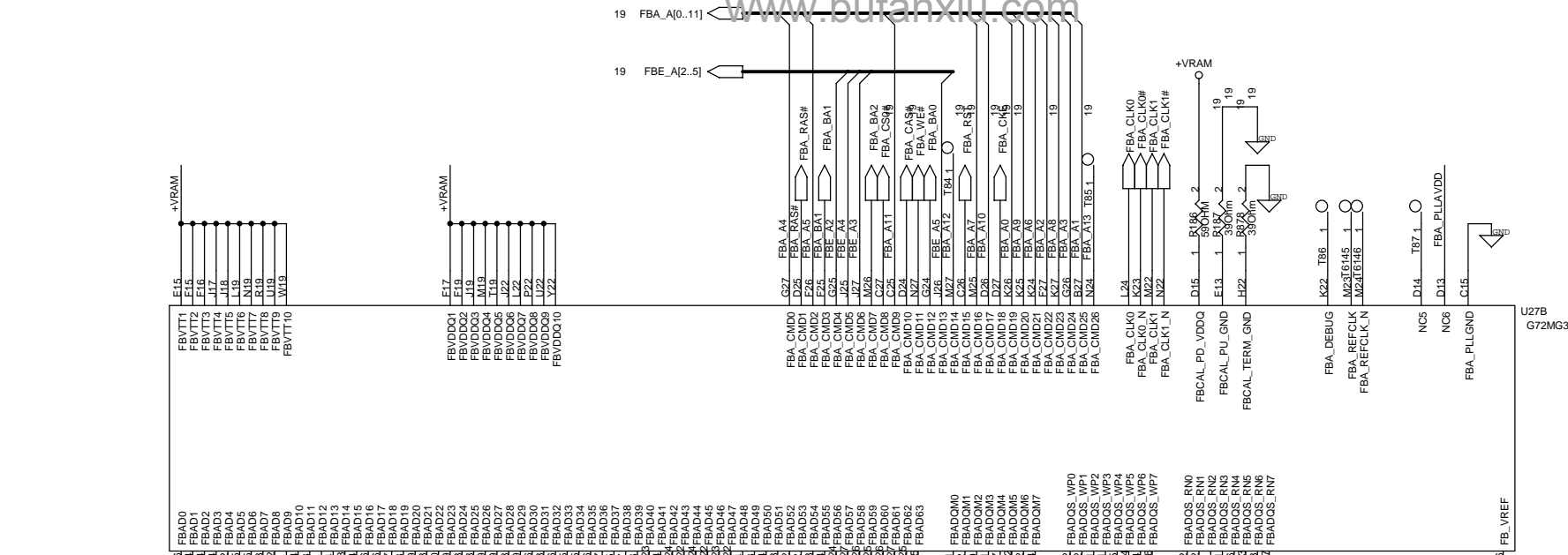


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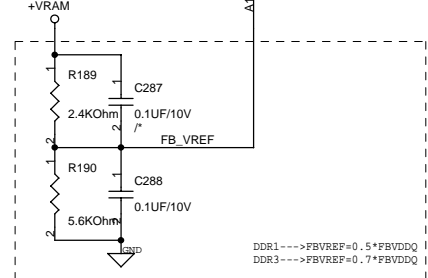
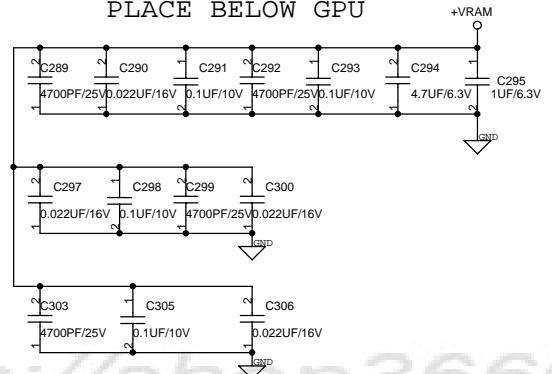


Power Seq.  
 +3VS --> +NV\_VDD  
 +3VS --> +FBVDDQ (1.9VS)  
 +NV\_VDD --> +FBVDDQ (2.0VS)  
 +3VS --> +1.2VS



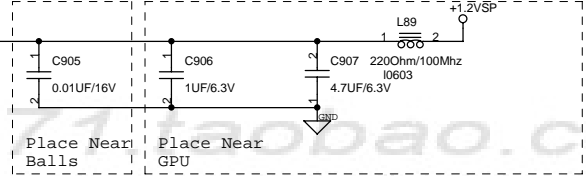
GDDR3 8x32 FBVDDQ 2.0V 144PIN

NVVDD-->VRAM  
PLACE BELOW GPU



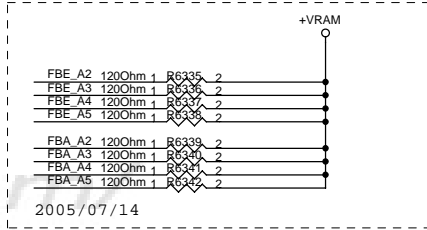
VREF=0.7 \* FBVDDQ in SPEC of Infineon

DDR1---->FBVREF=0.5\*FBVDDQ  
DDR3---->FBVREF=0.7\*FBVDDQ

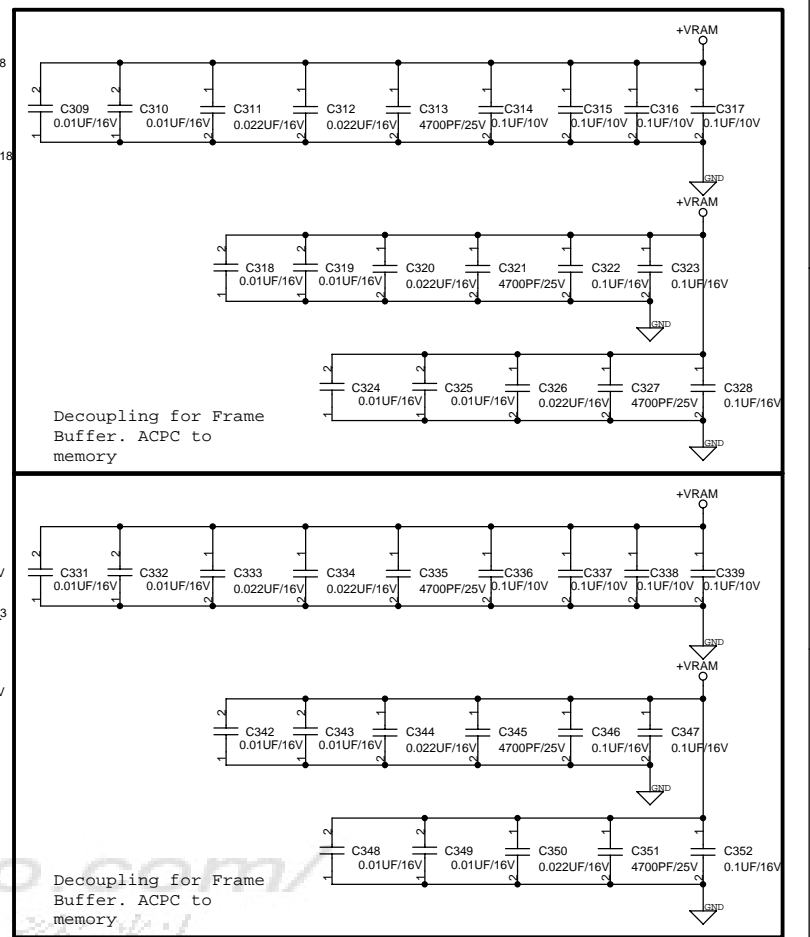
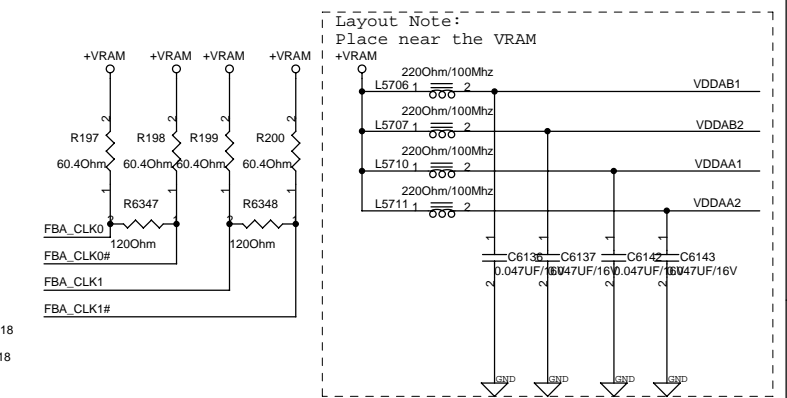
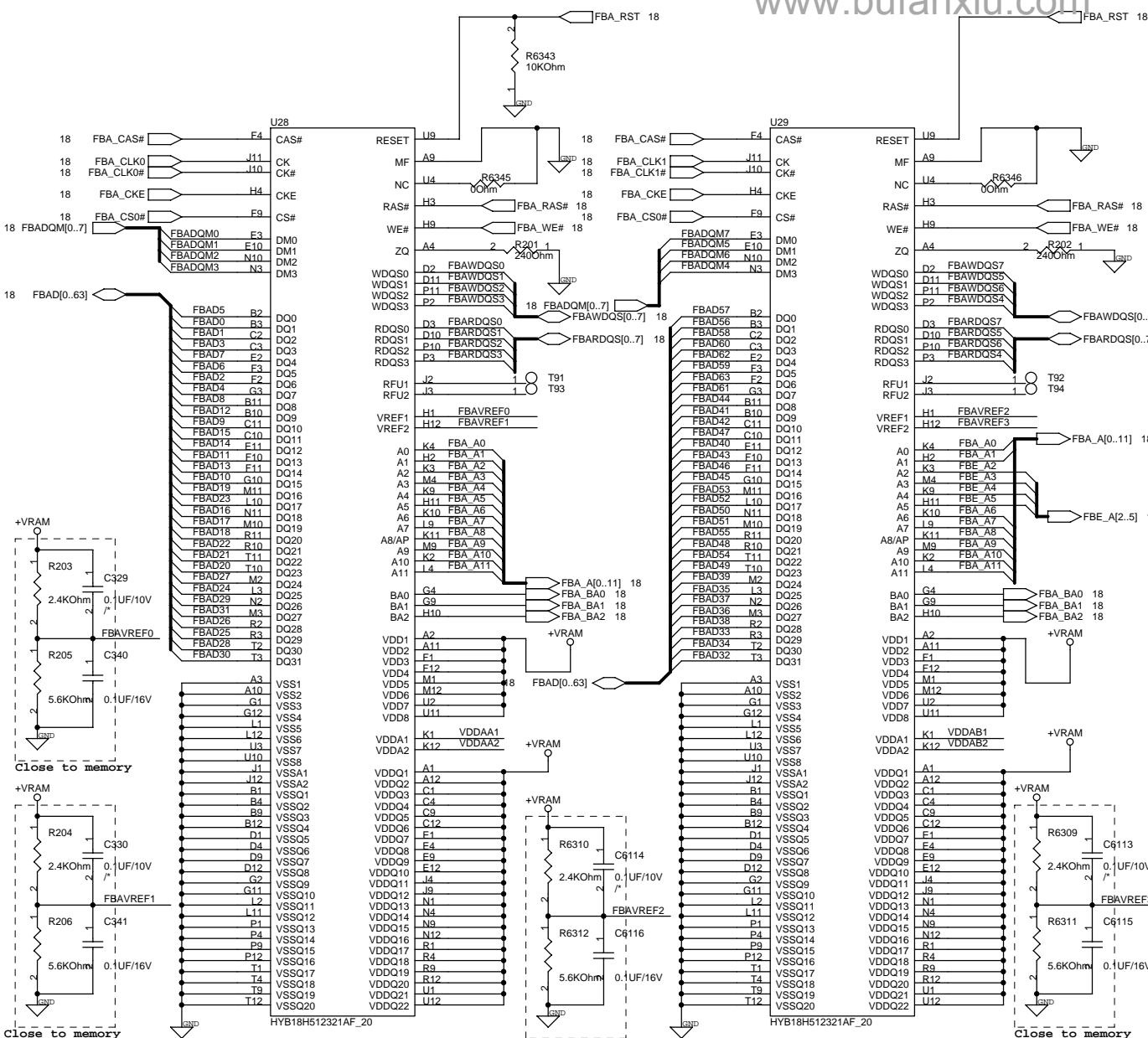


Place Near Balls

Place Near GPU



2005/07/14



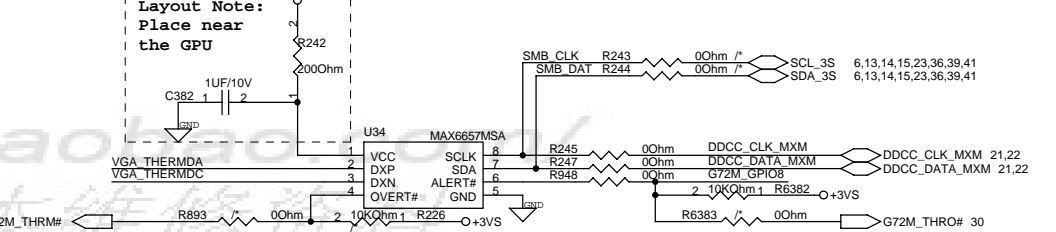
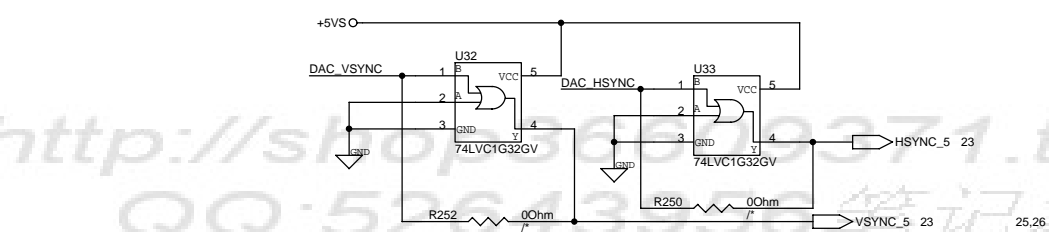
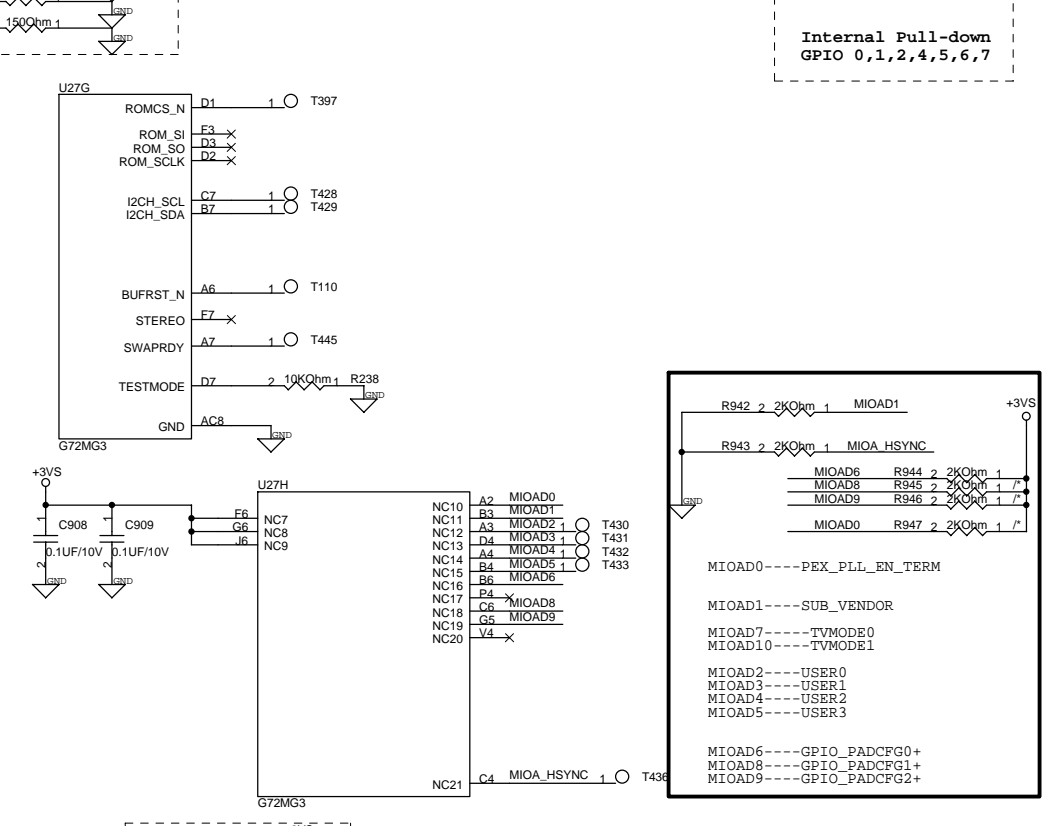
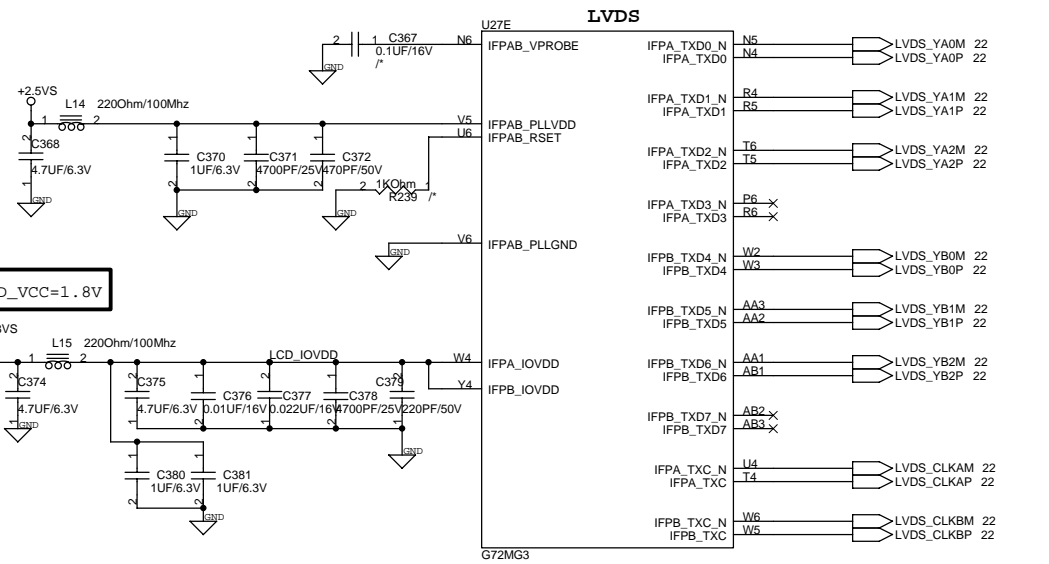
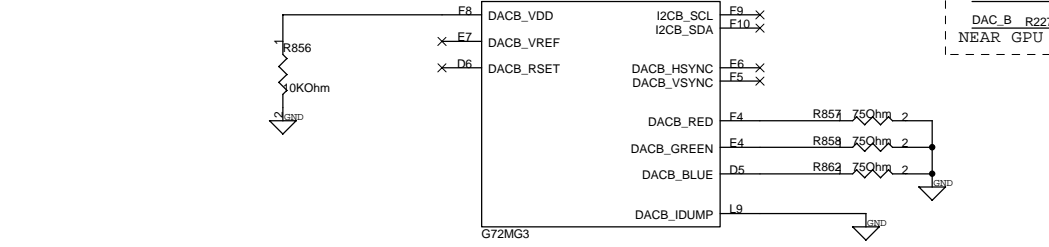
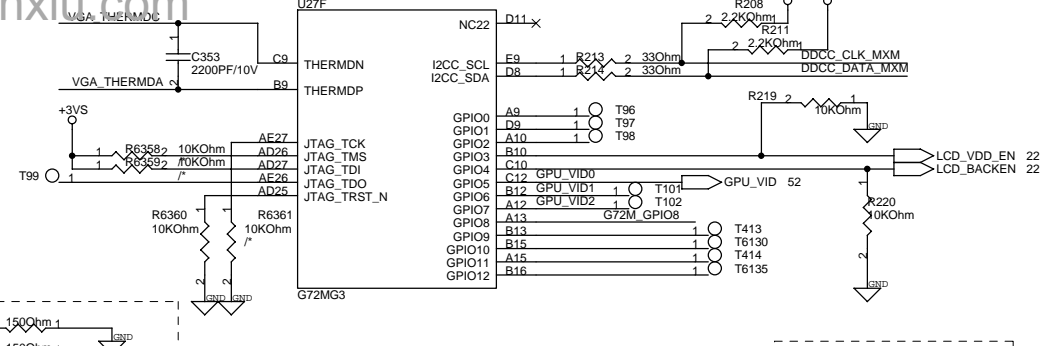
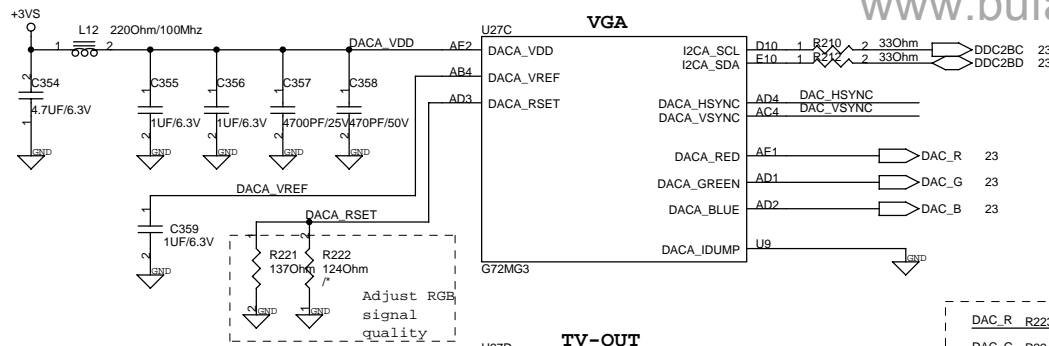
VREF1=0.7\*VDDQ for 136pin

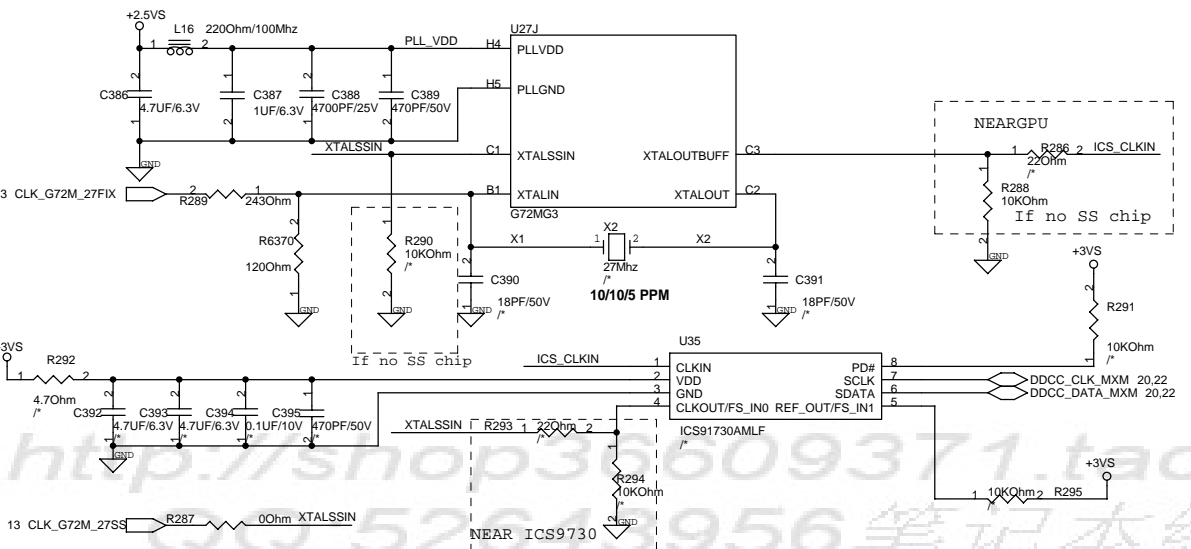
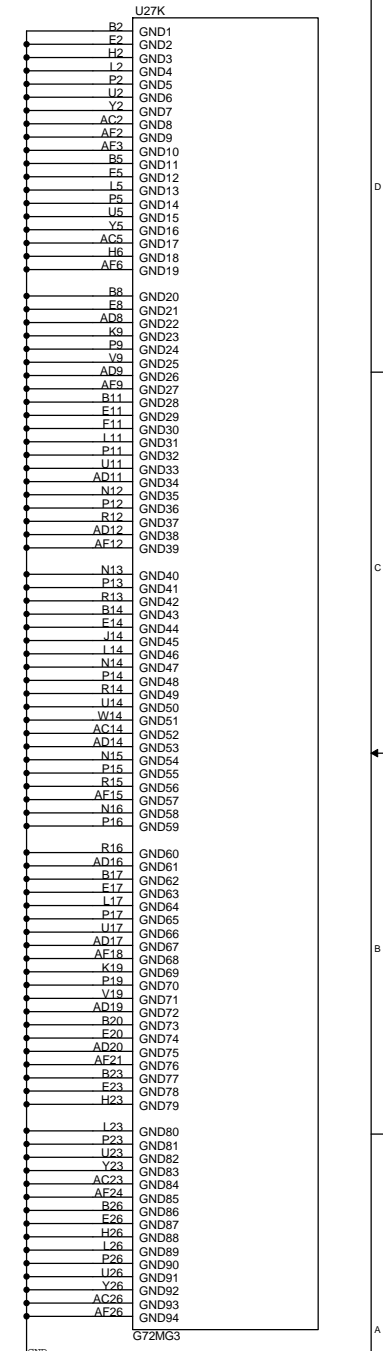
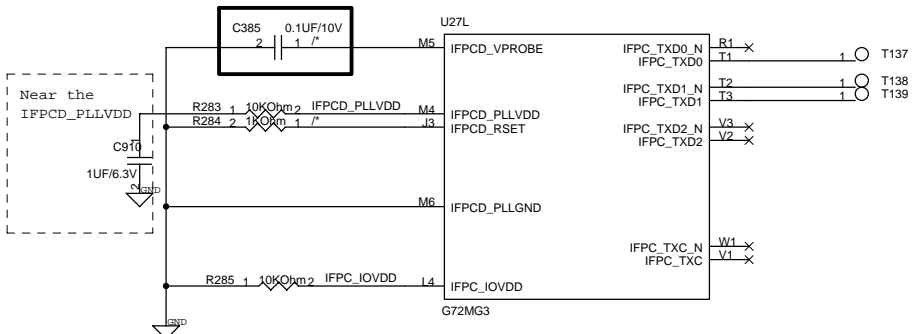
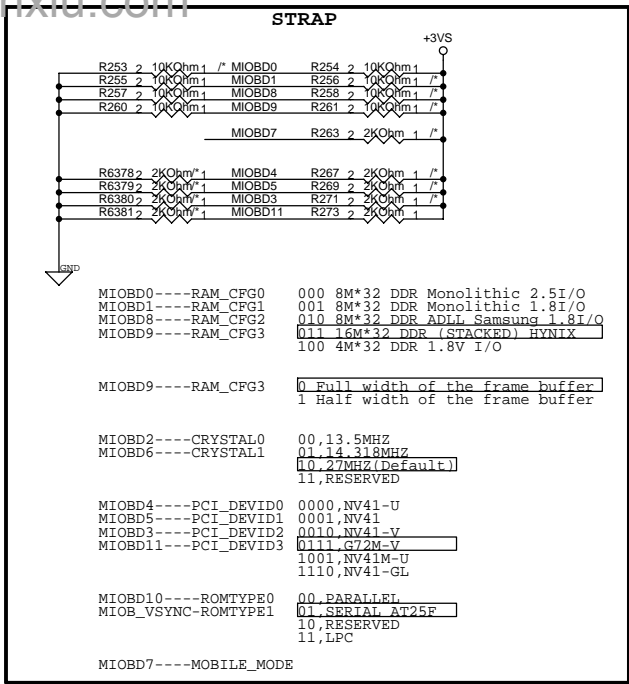
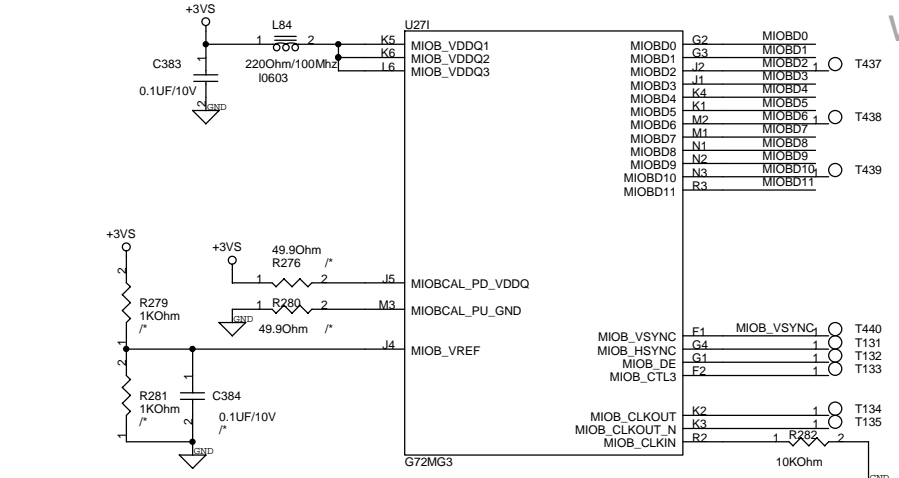
VREF1=0.7\*VDDQ for 136pin

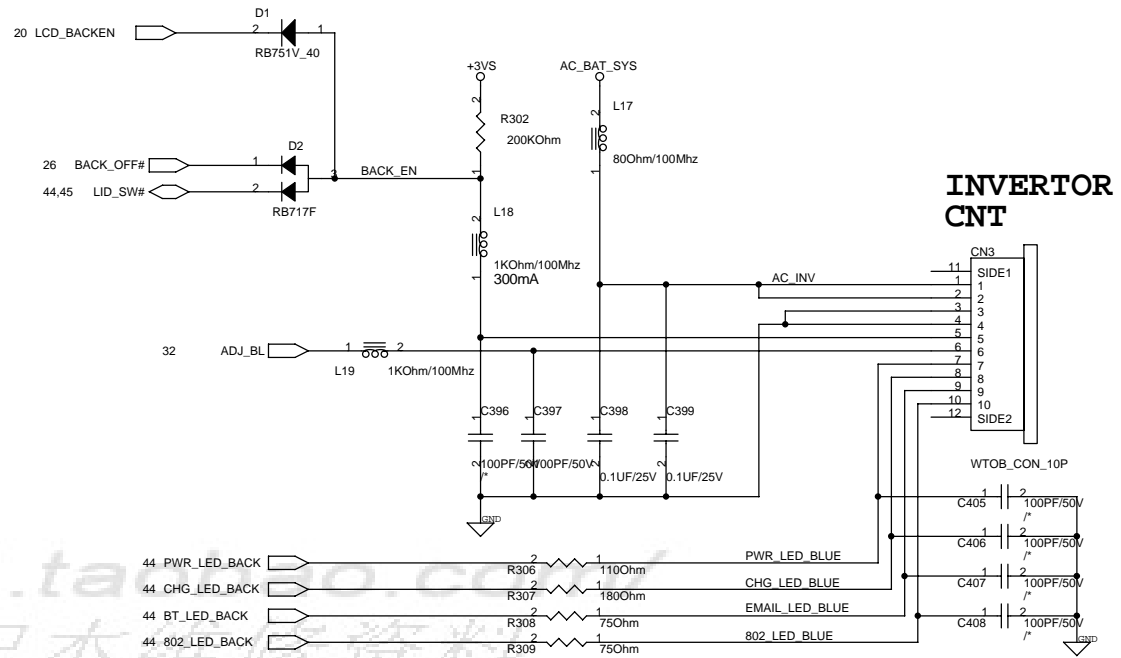
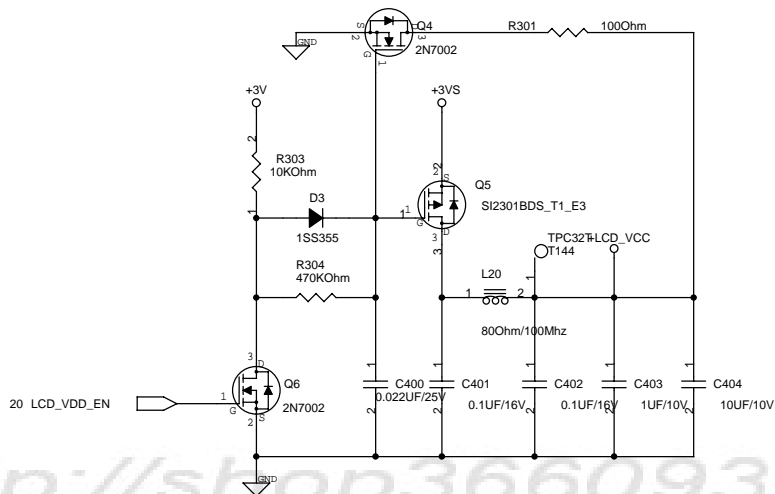
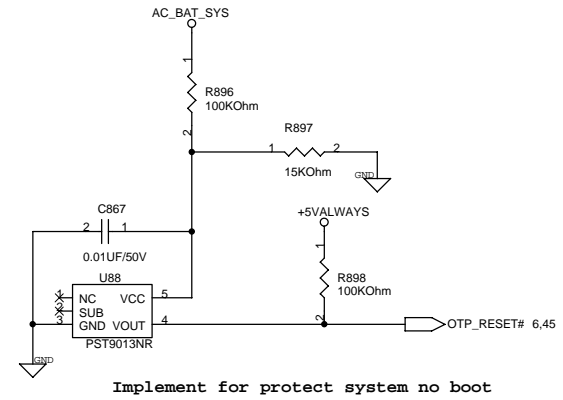
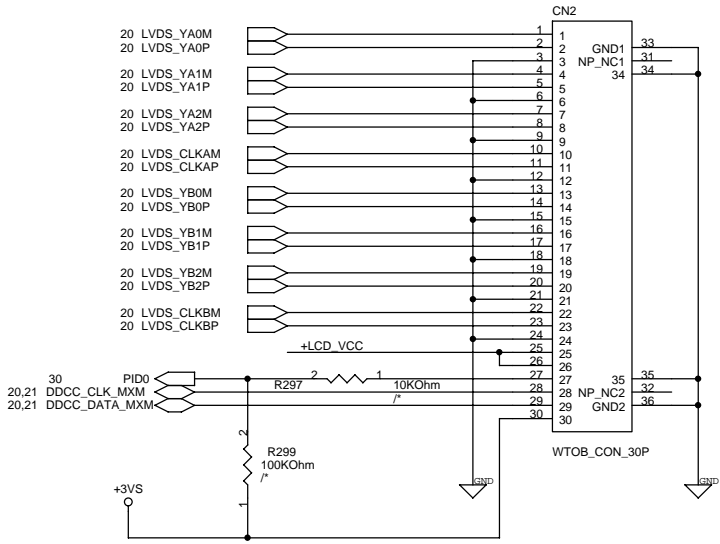
VREF1=0.7\*VDDQ for 136pin

VREF1=0.7\*VDDQ for 136pin

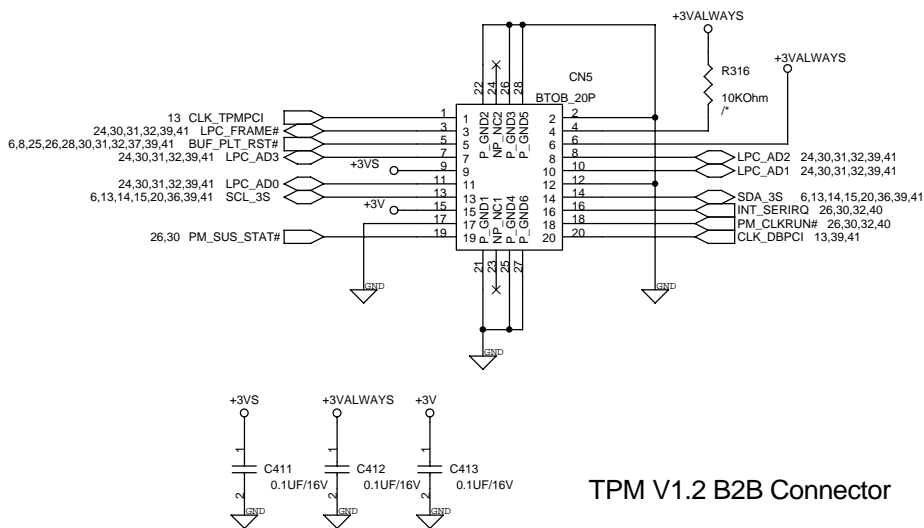
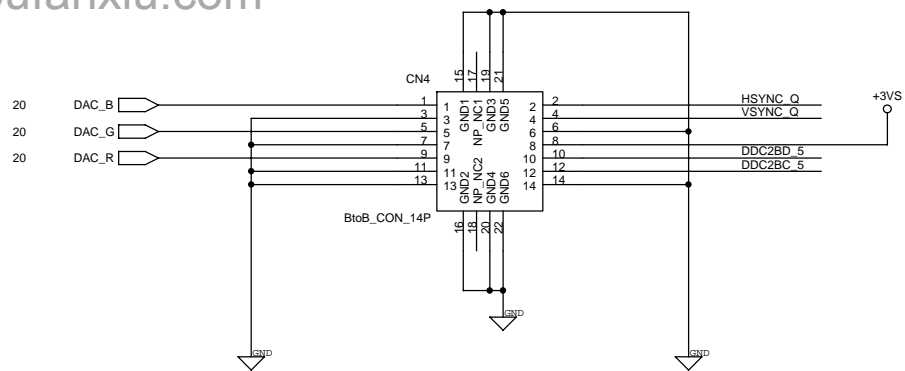
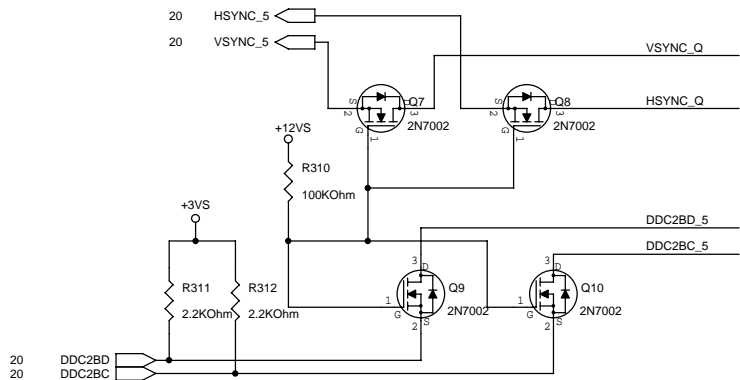
FBVDDQ=1.8V in Infineon SPEC



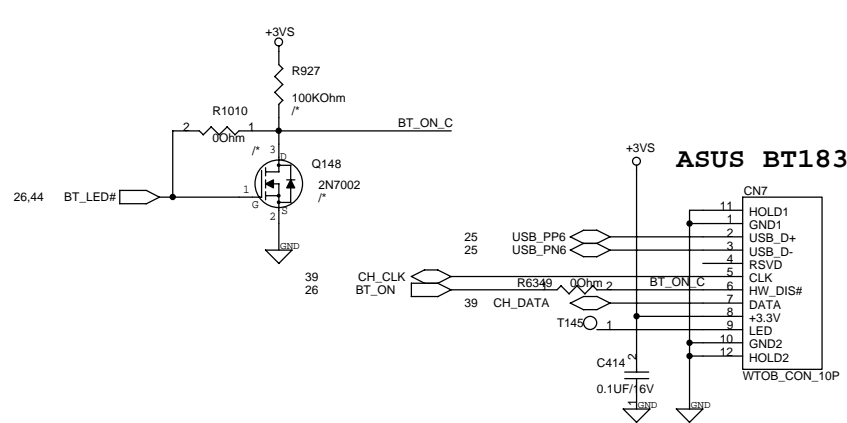




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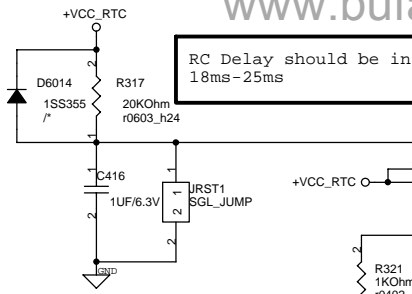
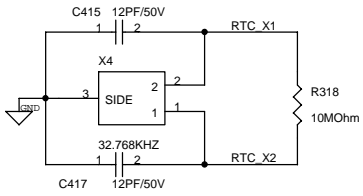


TPM V1.2 B2B Connector

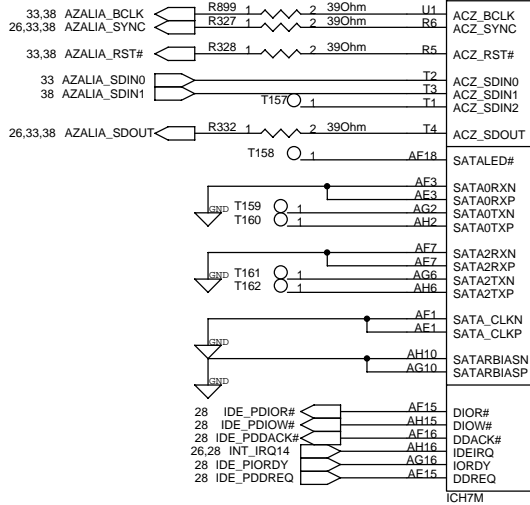


BT B2B Connector

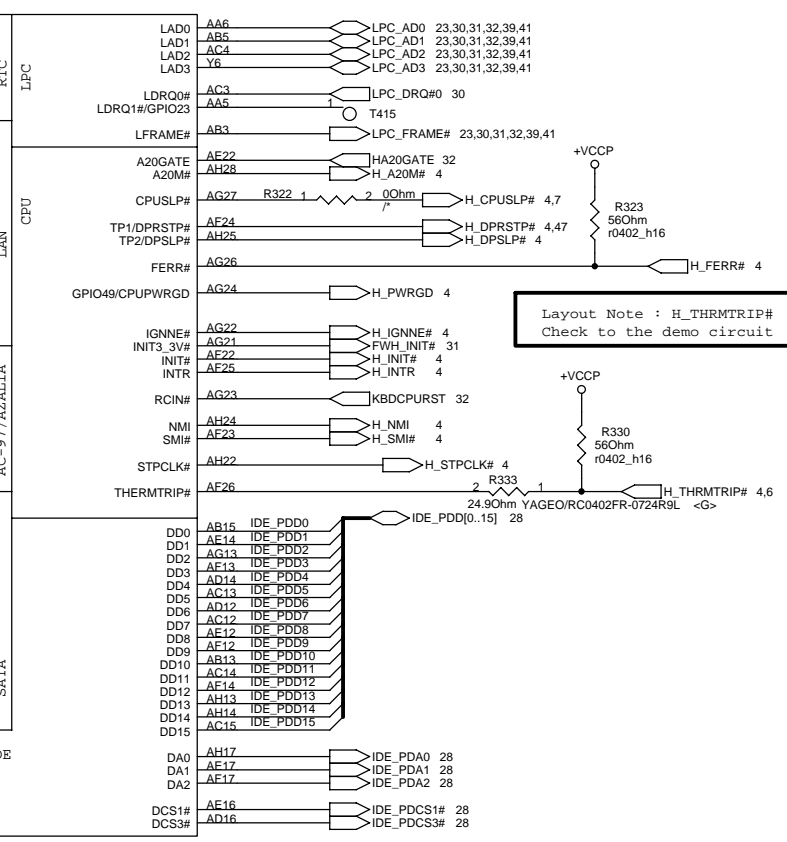
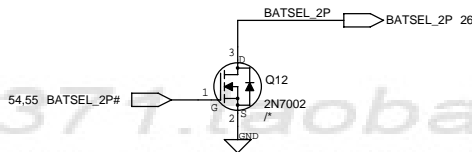
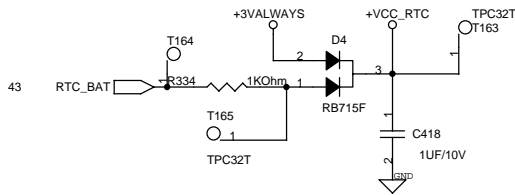
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ACZ\_SDIN[2:0] Integrated pull-down resistors.



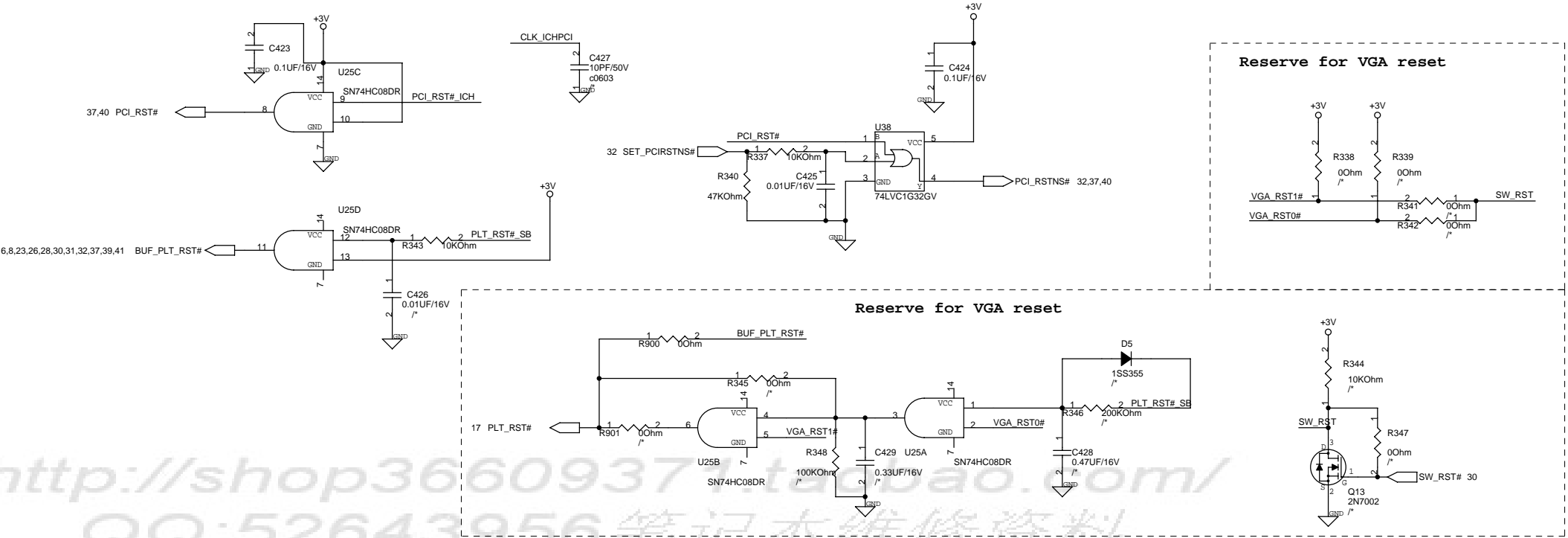
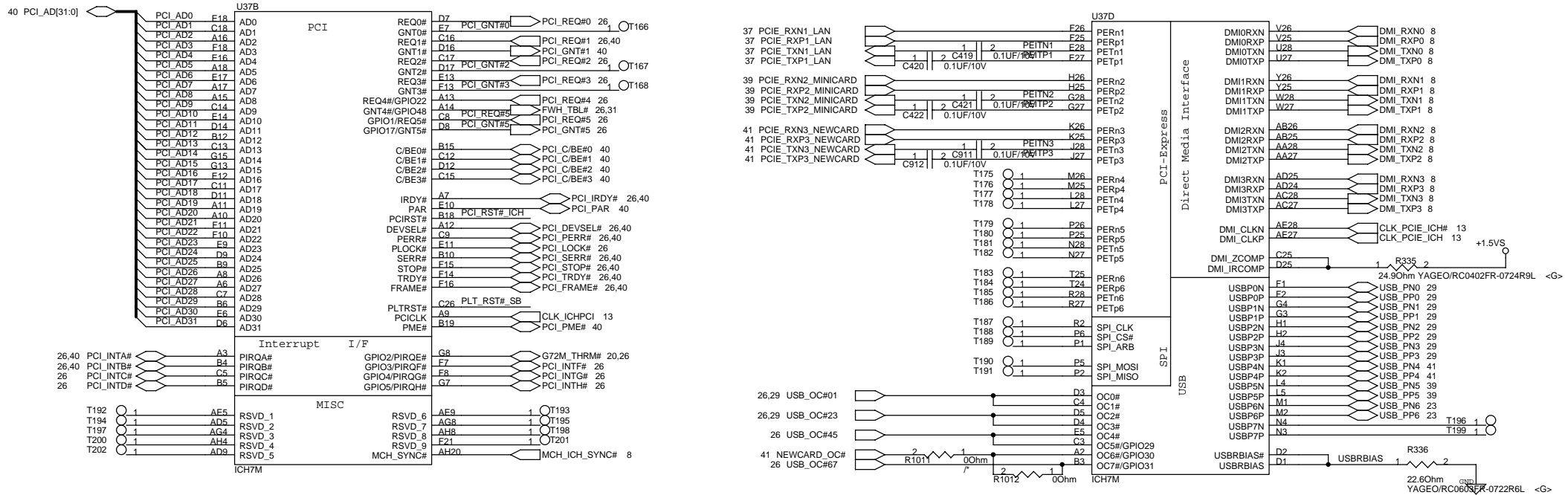
Power Plane	Max Power Consumption			
	S0	S3cold	S4/S5	G3
Vcc1_05	0.86A	NA	NA	NA
VccSus1_05	NOTE1	NA	NA	NA
Vcc1_5	1.78A	NA	NA	NA
Vcc3_3	0.33A	NA	NA	NA
VccSus3_3	52mA	30mA	30mA	NA
VccRTC	NA	NA	NA	6uA
V5REF	6mA	NA	NA	NA
V5REF_Sus	10mA	10mA	10mA	NA
V_CPU_IO	14mA	NA	NA	NA
VccUSBPLL	10mA	NA	NA	NA
VccDMIPLL	50mA	NA	NA	NA
VccSATAPLL	50mA	NA	NA	NA



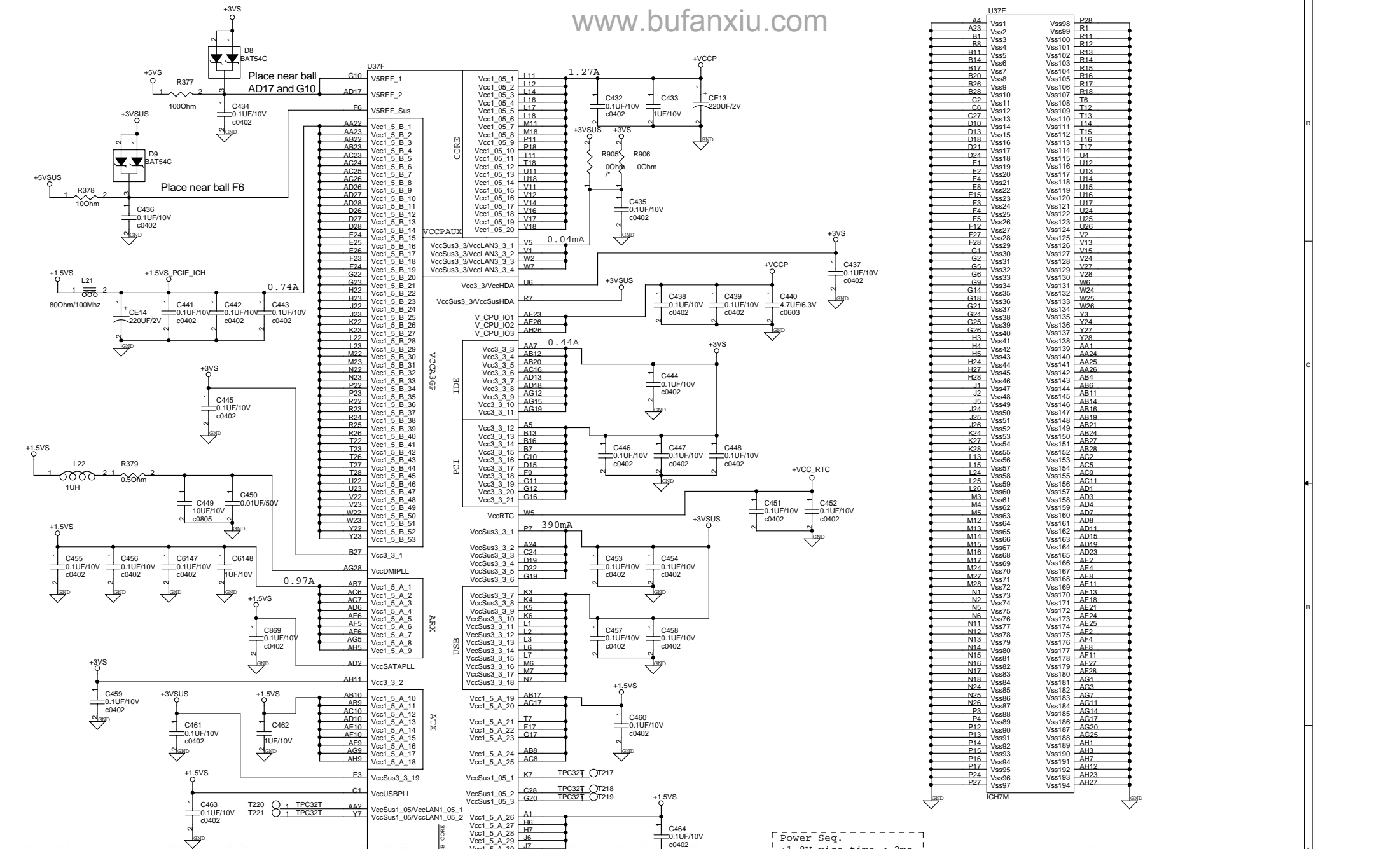
Layout Note : H\_THRMTRIP# Check to the demo circuit

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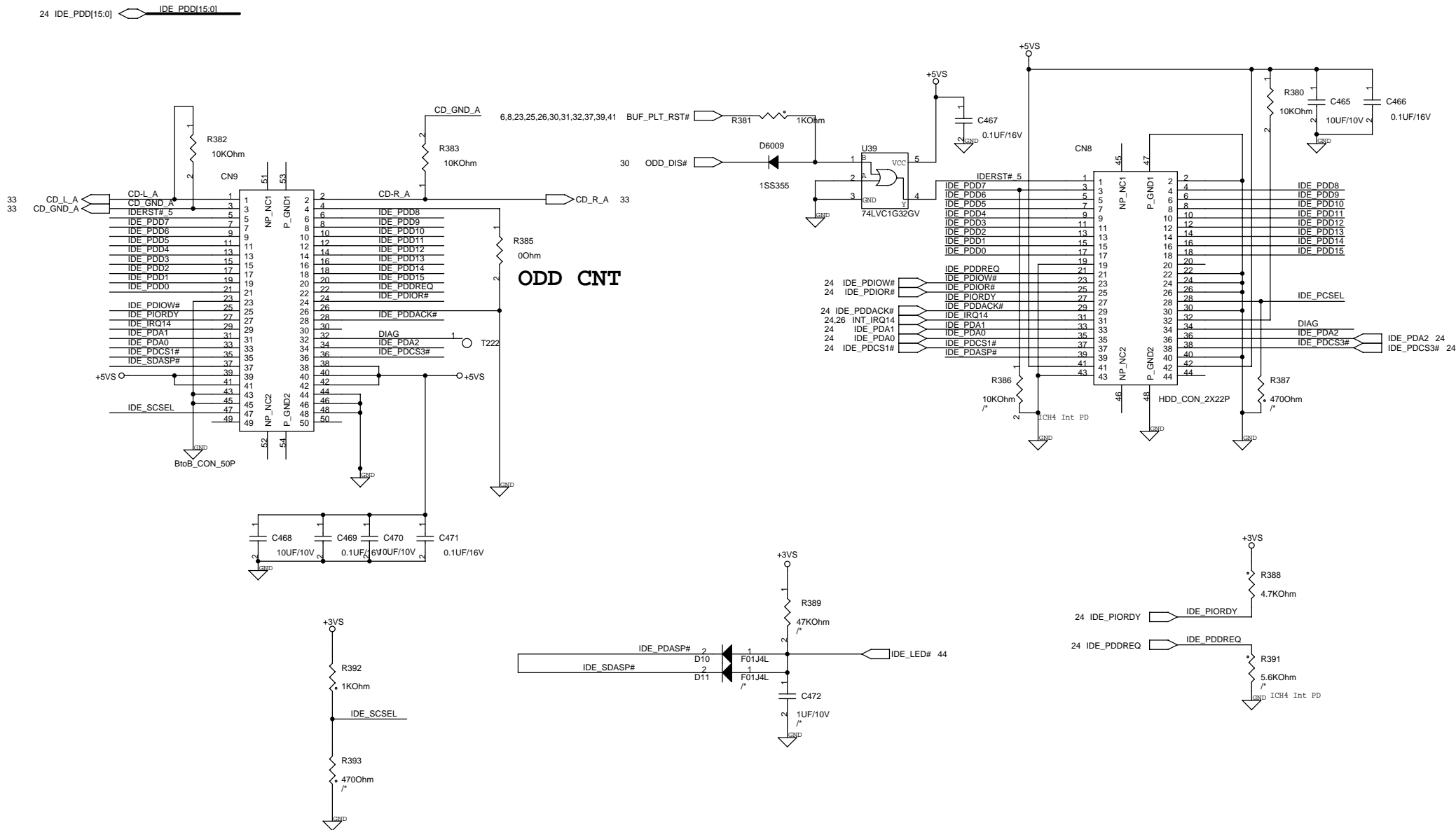






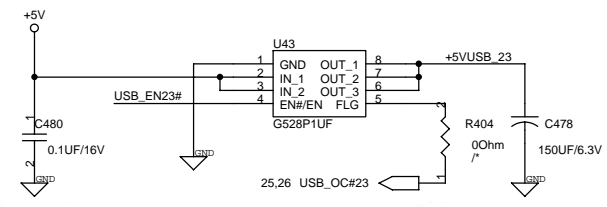
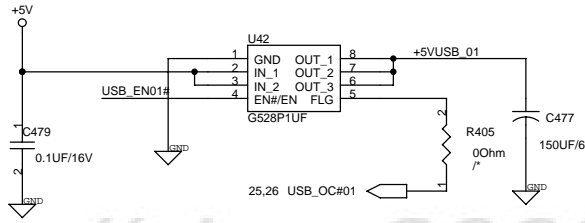
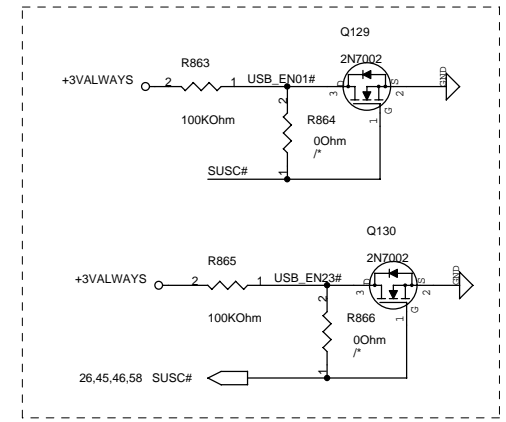
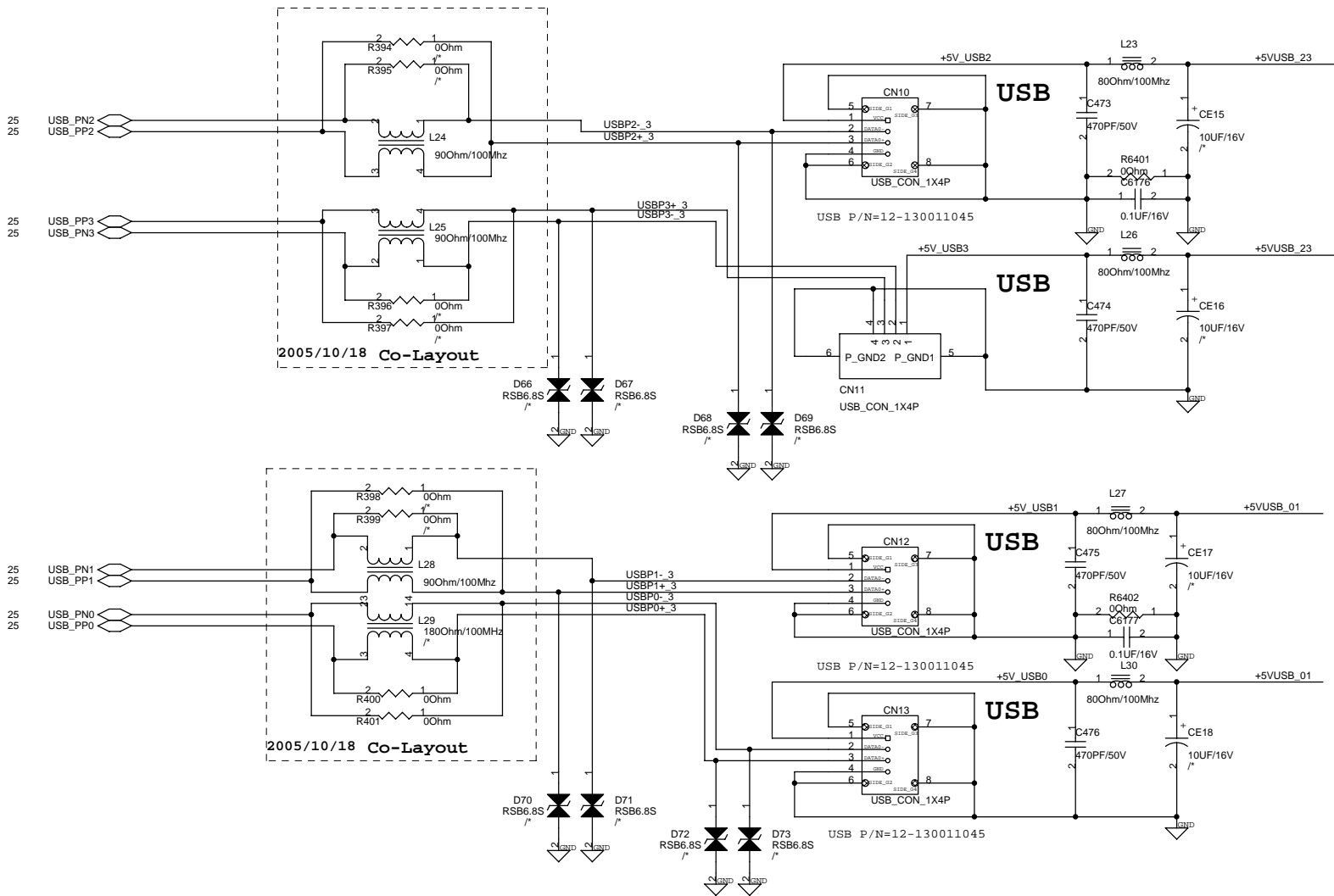
A4	Vss1	Vss98	P28
A23	Vss2	Vss99	R1
B1	Vss3	Vss100	R11
B8	Vss4	Vss101	R12
B11	Vss5	Vss102	R13
B14	Vss6	Vss103	R14
B17	Vss7	Vss104	R15
B20	Vss8	Vss105	R16
B26	Vss9	Vss106	R17
B28	Vss10	Vss107	R18
C2	Vss11	Vss108	T6
C6	Vss12	Vss109	T12
C27	Vss13	Vss110	T13
D10	Vss14	Vss111	T14
D13	Vss15	Vss112	T15
D18	Vss16	Vss113	T16
D21	Vss17	Vss114	T17
D24	Vss18	Vss115	U4
F1	Vss19	Vss116	U12
F2	Vss20	Vss117	U13
F4	Vss21	Vss118	U14
F8	Vss22	Vss119	U15
F15	Vss23	Vss120	U16
F3	Vss24	Vss121	U17
F4	Vss25	Vss122	U24
F5	Vss26	Vss123	U25
F12	Vss27	Vss124	U26
F27	Vss28	Vss125	U2
F28	Vss29	Vss126	U1
G1	Vss30	Vss127	V15
G2	Vss31	Vss128	V24
G5	Vss32	Vss129	V27
G6	Vss33	Vss130	V28
G9	Vss34	Vss131	W6
G14	Vss35	Vss132	W24
G18	Vss36	Vss133	W25
G21	Vss37	Vss134	W26
G24	Vss38	Vss135	Y2
G25	Vss39	Vss136	Y24
G26	Vss40	Vss137	Y27
H3	Vss41	Vss138	Y28
H4	Vss42	Vss139	AA1
H5	Vss43	Vss140	AA24
H24	Vss44	Vss141	AA25
H27	Vss45	Vss142	AA26
H28	Vss46	Vss143	AB4
J1	Vss47	Vss144	AB6
J2	Vss48	Vss145	AB11
J5	Vss49	Vss146	AB14
J24	Vss50	Vss147	AB16
J25	Vss51	Vss148	AB19
J26	Vss52	Vss149	AB21
K24	Vss53	Vss150	AB24
K27	Vss54	Vss151	AB27
K28	Vss55	Vss152	AB28
L13	Vss56	Vss153	AC2
L15	Vss57	Vss154	AC5
L24	Vss58	Vss155	AC9
L25	Vss59	Vss156	AC11
L26	Vss60	Vss157	AD1
M3	Vss61	Vss158	AD3
M4	Vss62	Vss159	AD4
M5	Vss63	Vss160	AD7
M12	Vss64	Vss161	AD8
M13	Vss65	Vss162	AD11
M14	Vss66	Vss163	AD15
M15	Vss67	Vss164	AD19
M16	Vss68	Vss165	AD23
M17	Vss69	Vss166	AE2
M24	Vss70	Vss167	AE4
M27	Vss71	Vss168	AE8
M28	Vss72	Vss169	AE11
N1	Vss73	Vss170	AE13
N2	Vss74	Vss171	AE18
N5	Vss75	Vss172	AE21
N6	Vss76	Vss173	AE24
N11	Vss77	Vss174	AE25
N12	Vss78	Vss175	AF2
N13	Vss79	Vss176	AF4
N14	Vss80	Vss177	AF8
N15	Vss81	Vss178	AF11
N16	Vss82	Vss179	AF28
N17	Vss83	Vss180	AG1
N18	Vss84	Vss181	AG3
N24	Vss85	Vss182	AG7
N25	Vss86	Vss183	AG11
N26	Vss87	Vss184	AG14
P3	Vss88	Vss185	AG17
P4	Vss89	Vss186	AG20
P12	Vss90	Vss187	AG25
P13	Vss91	Vss188	AH1
P14	Vss92	Vss189	AH1
P15	Vss93	Vss190	AH3
P16	Vss94	Vss191	AH7
P17	Vss95	Vss192	AH12
P24	Vss96	Vss193	AH23
P27	Vss97	Vss194	AH27

Power Seq.  
+1.8V rise time < 2ms  
+1.5V --> +VCCP  
+5VS --> +3VS  
+5VSUS --> +3VSUS



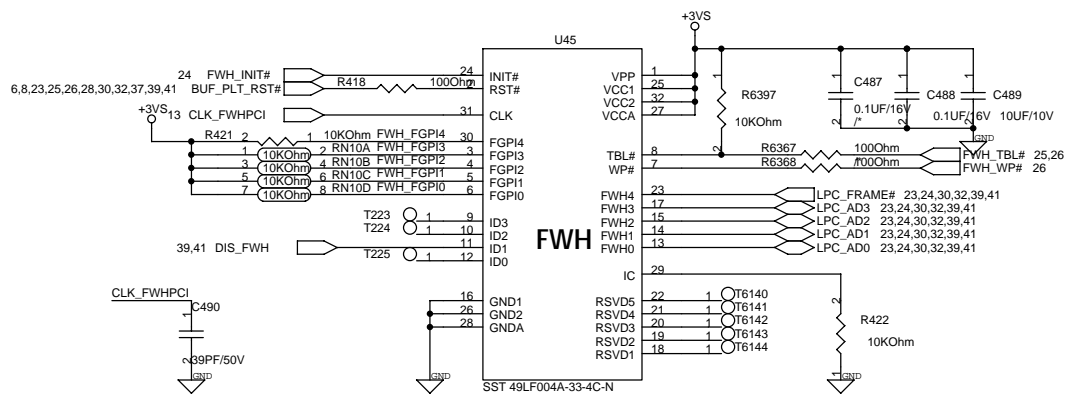
<http://shop36609371.taobao.com/>  
 QQ:52643956 笔记本维修资料

ASUS PROJECT: V6J	REVISION	DATE: Friday, November 25, 2005	DESCRIPTION:	SCHMATIC FILE NAME :	<OrgName>	DESIGN ENGINEER :
	2.0	SHEET 28 OF 63	HDD & ODD CONN.	RELEASE DATE :		Julian Kuo

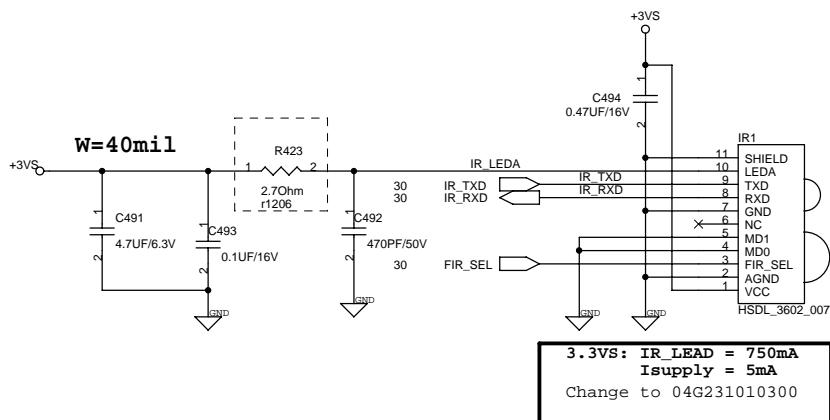


<http://shop36609371.taobao.com/>  
 QQ:52643956 笔记本维修资料





PLCC32 Socket Part Number :  
12G04300032F,12-04300032I  
.12-04300032J,12-04300032J



<http://shop36609371.taobao.com/>  
QQ:52643956 笔记本维修资料



PROJECT: V6J

REVISION  
2.0

DATE: Friday, November 25, 2005  
SHEET 31 OF 63

DESCRIPTION:

FIR & FWH

SCHEMATIC FILE NAME :  
RELEASE DATE :

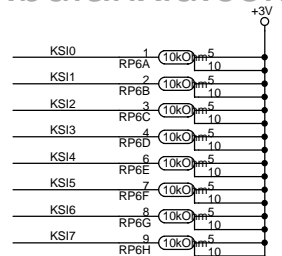
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DESIGN ENGINEER :

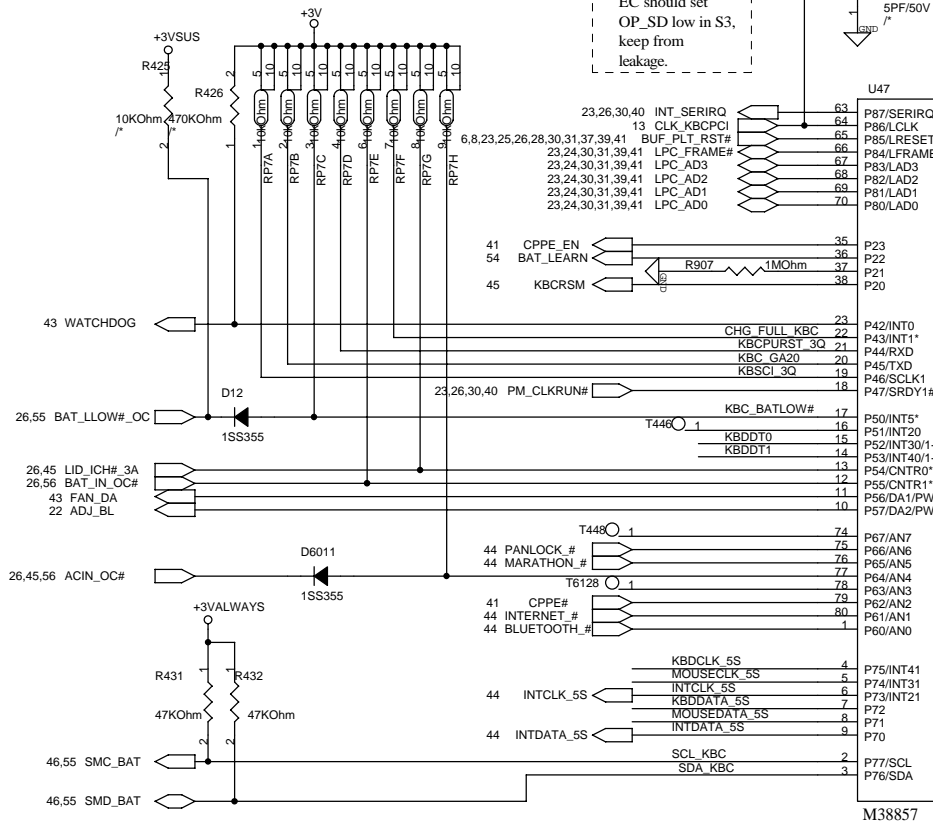
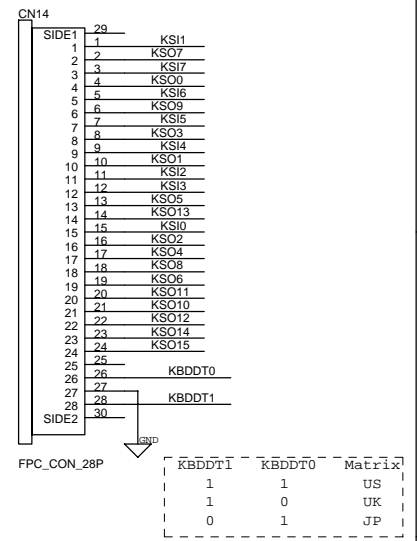
Julian Kuo

P2.1 Low : Power Button Override disable  
Input Event only at P54, P55, P60 - P67  
P50, P43, P54, P55 are wake-up event inputs when KBC in standby mode

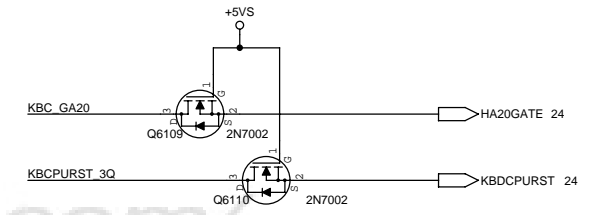
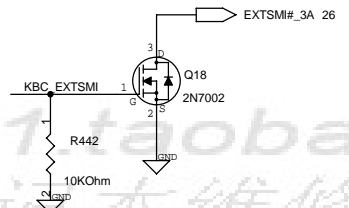
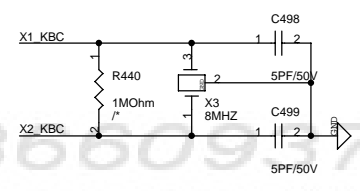
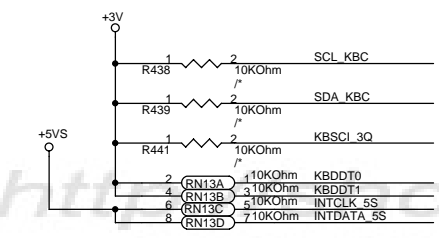
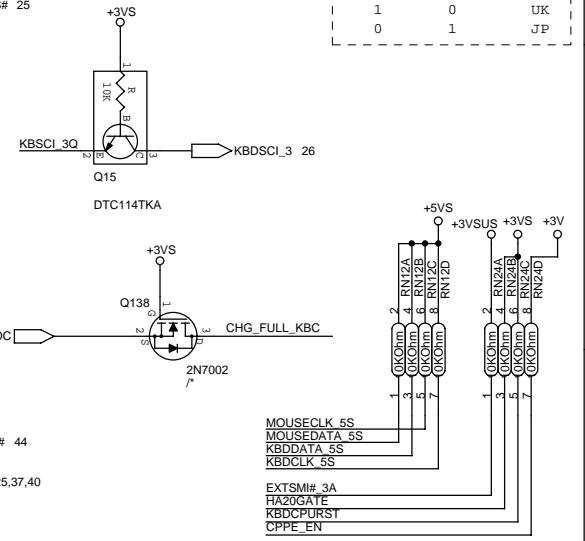
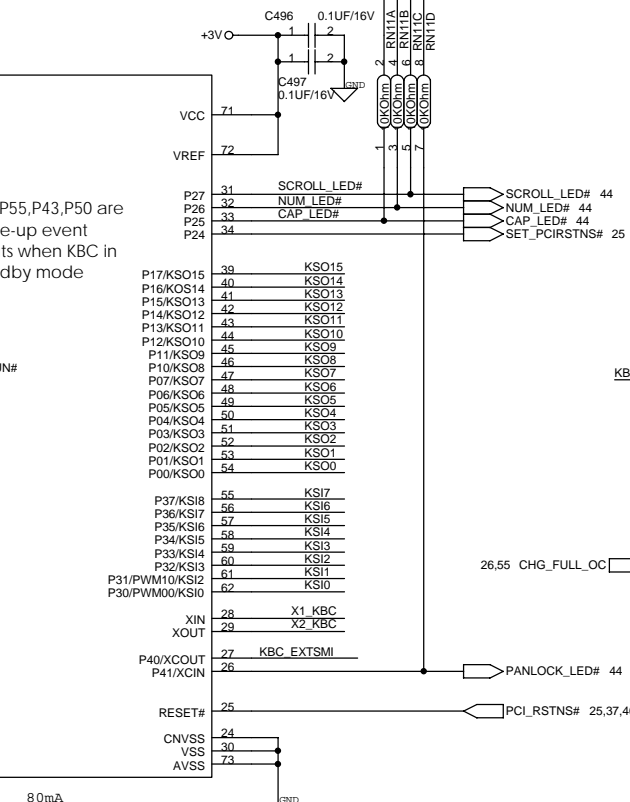
EC should set OP\_SD low in S3, keep from leakage.



### KEYBOARD CNT



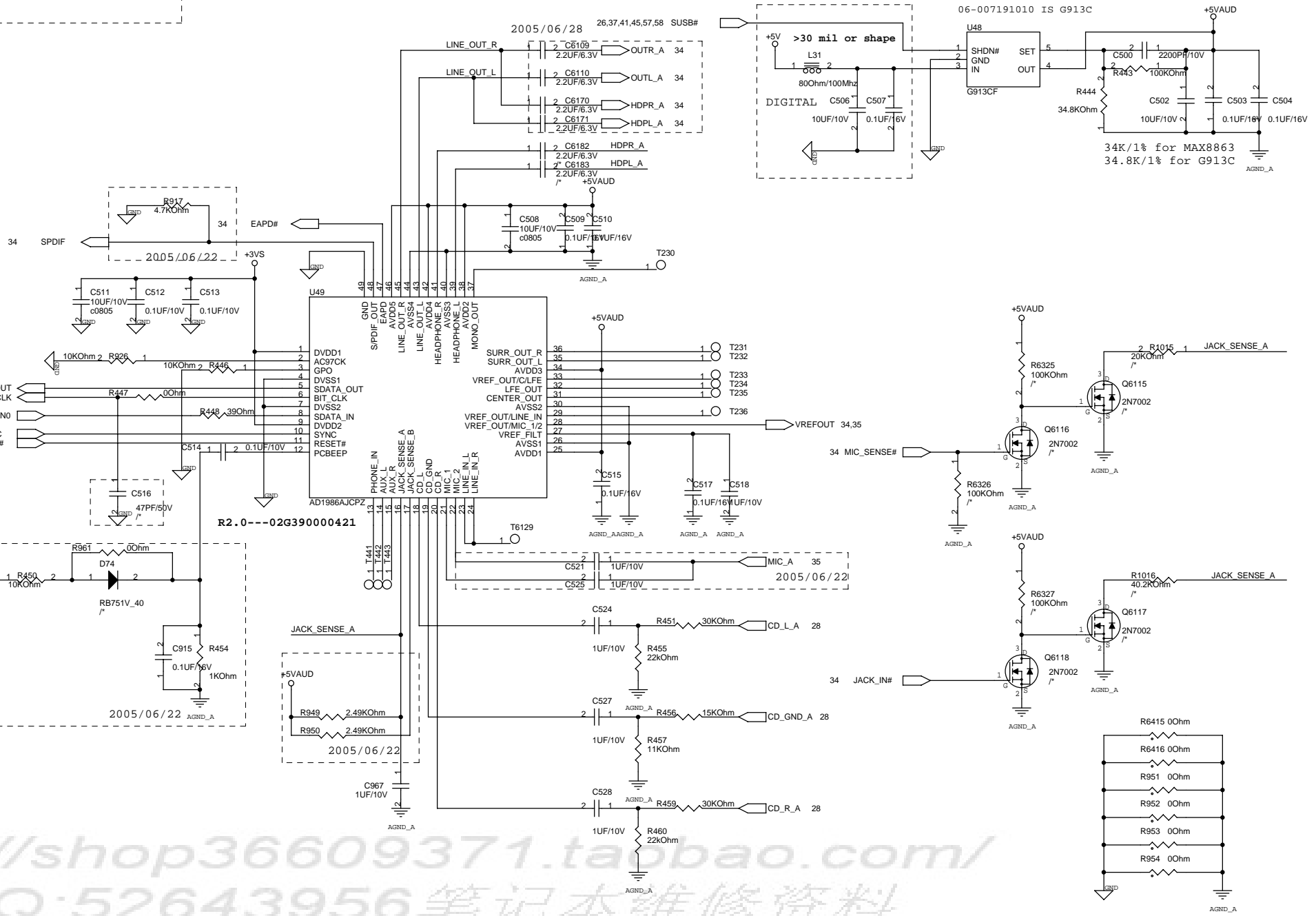
P54, P55, P43, P50 are wake-up event inputs when KBC in standby mode





Internal pull low: SDATA-IN  
Internal pull up: JD0, JD1, JD2, XTLSSEL

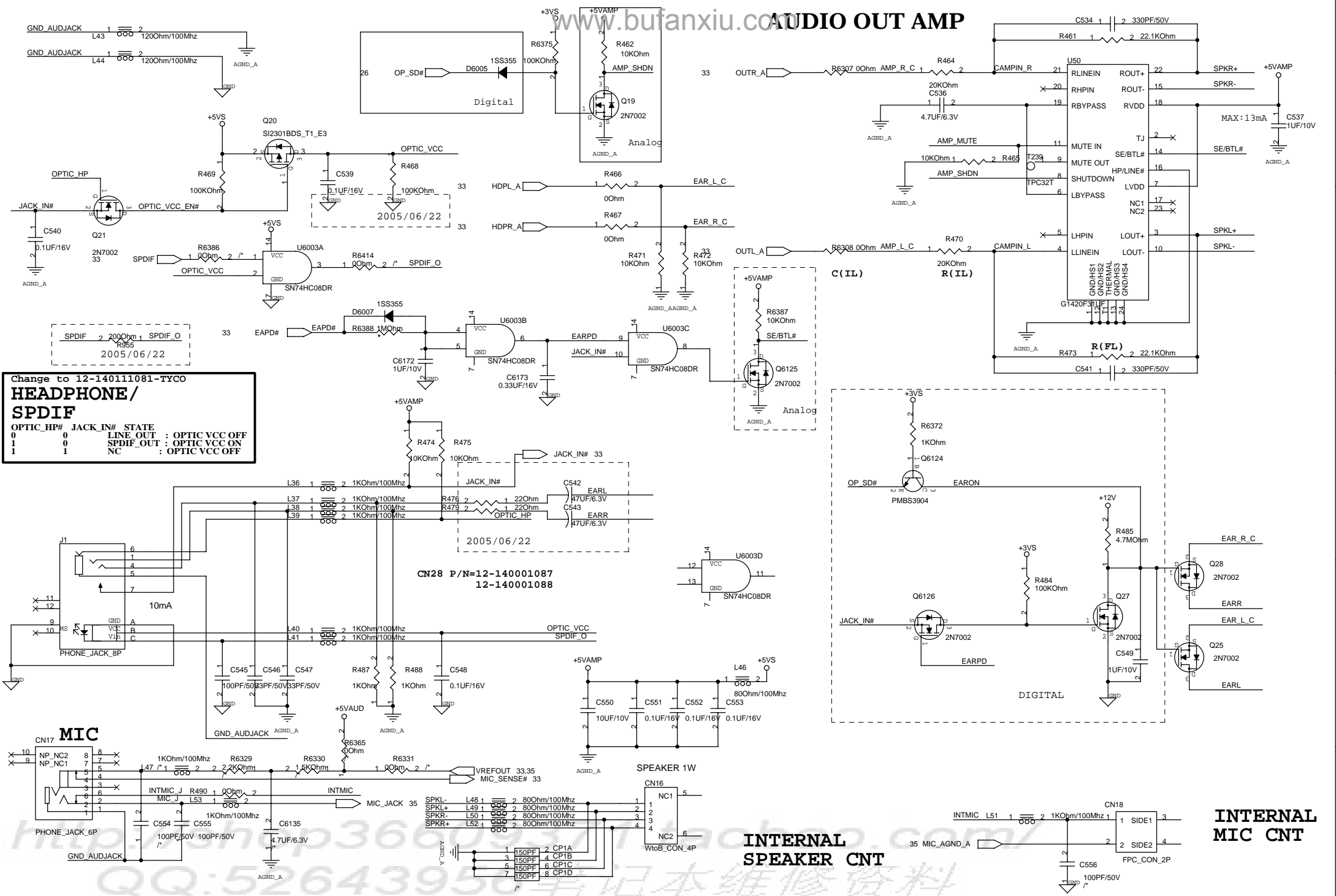
$$V_o = V_{ref} = (1.250) * (1 + R_{428}/R_{429}) - G_{913C}$$



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QQ:52643956 笔记本维修资料

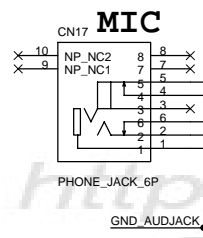
<b>ASUS</b>	<b>PROJECT: V6J</b>	REVISION	DATE: Friday, November 25, 2005	DESCRIPTION:	SCHMATIC FILE NAME :	<OrgName>	DESIGN ENGINEER :
		2.0	SHEET 33 OF 63	<b>AUDIO AD1986</b>	RELEASE DATE :		<b>Feng Lin</b>

# AUDIO OUT AMP



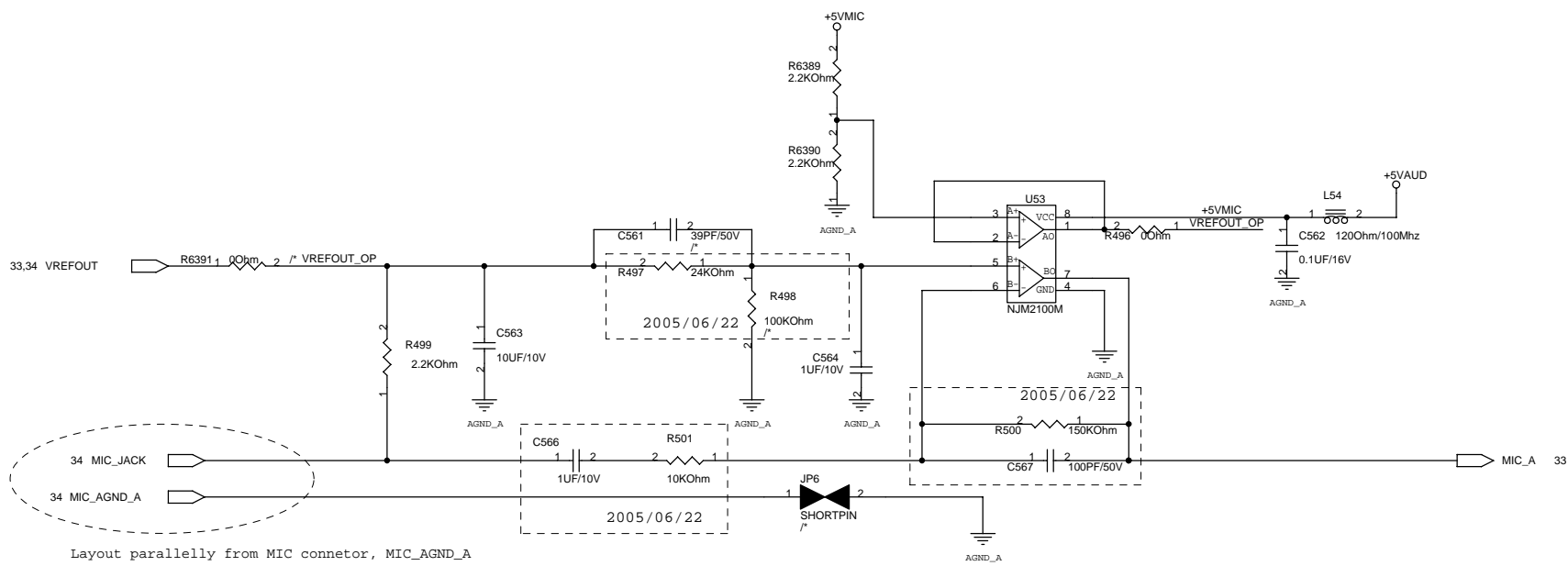
**Change to 12-140111081-TYCO HEADPHONE/SPDIF**

OPTIC_HP#	JACK_IN#	STATE
0	0	LINE_OUT : OPTIC VCC OFF
1	0	SPDIF_OUT : OPTIC VCC ON
1	1	NC : OPTIC VCC OFF



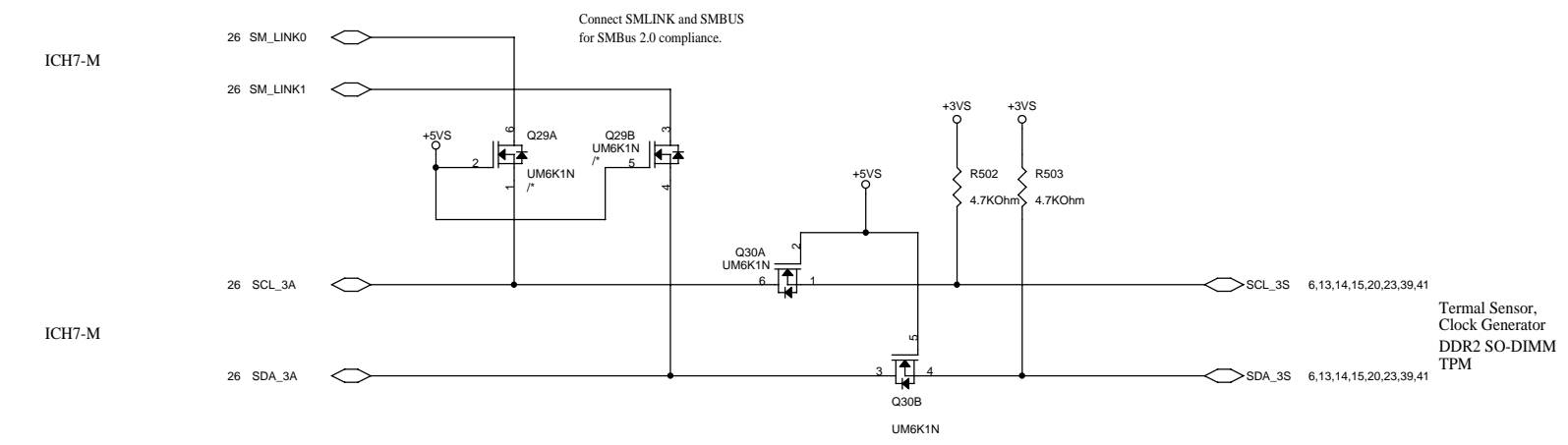
**INTERNAL SPEAKER CNT**

**INTERNAL MIC CNT**



Layout parallely from MIC connetor, MIC\_AGND\_A  
short AGND\_A by JP3 near U48

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+3VALWAYS	O	+3VALWAYS	23,24,29,32,44,45,46,51,60
+3VSUS	O	+3VSUS	26,27,32,37,41,45,48
+5VALWAYS	O	+5VALWAYS	22,48,51,54
+5VSUS	O	+5VSUS	27,44,48
+3VO	O	+3V	22,23,25,26,32,37,38,39,41,42,44,45,46,51,58
+5VO	O	+5V	14,29,33,41,44,46,56,58
+12V	O	+12V	34,42,58
+3VS	O	+3VS	6,8,10,12,13,14,15,17,20,21,22,23,26,27,28,30,31,32,33,34,37,39,40,41,42,44,45,46,47,49,57,58
+5VS	O	+5VS	20,27,28,32,34,39,43,44,45,46,47,58
+12VS	O	+12VS	23,44,58
VTT_REF0	O	VTT_REF	8,14,15,16
+2.5VS	O	+2.5VS	10,20,21,46,51
+1.8VS	O	+1.8VS	20,46,58
+0.9VS	O	+0.9VS	16,50
+1.5VS	O	+1.5VS	5,8,10,11,25,27,39,41,46,49
+VCC_RTC	O	+VCC_RTC	24,27
+1.8V	O	+1.8V	8,11,14,15,46,50
+3VA	O	+3VALWAYS	23,24,29,32,44,45,46,51,60
+5VA	O	+5VALWAYS	22,48,51,54
+5VAUD	O	+5VAUD	33,34,35
VTT_REF0	O	VTT_REF	8,14,15,16
A/D_DOCK_IN	O	A/D_DOCK_IN	43,54,56,57
+3VSUS_PEO	O	+3VSUS_PE	41
+3VS_PEO	O	+3VS_PE	41
+1.5VS_PEO	O	+1.5VS_PE	41

NEWCARD

<b>YONAH</b>			
+VCCP	O	+VCCP	4,5,6,7,8,10,11,24,27,30,46,49
+VCORE	O	+VCORE	5,6,46,47
+1.5VS	O	+1.5VS	5,8,10,11,25,27,39,41,46,49

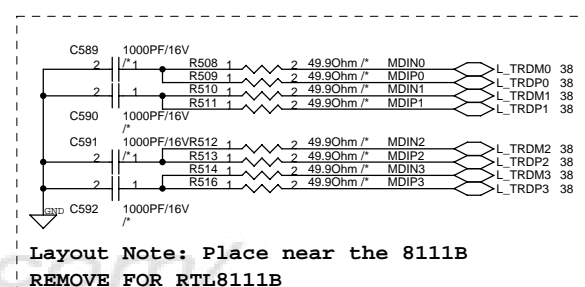
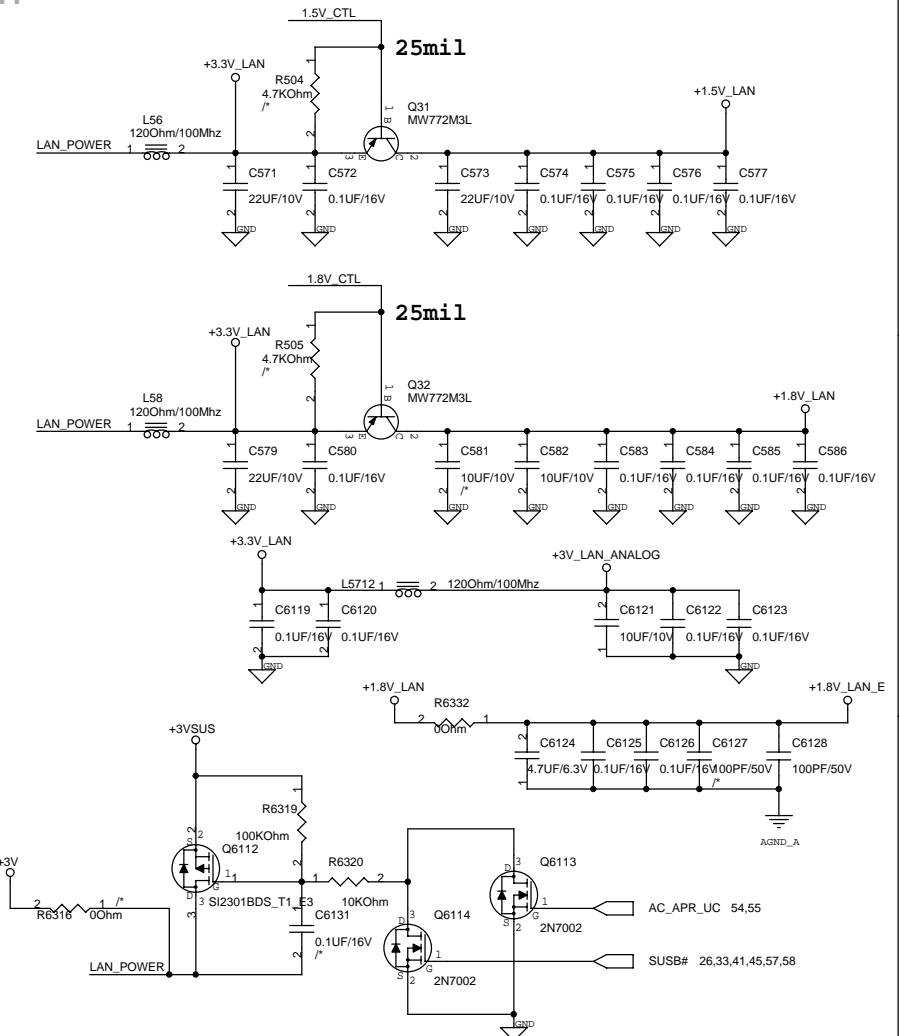
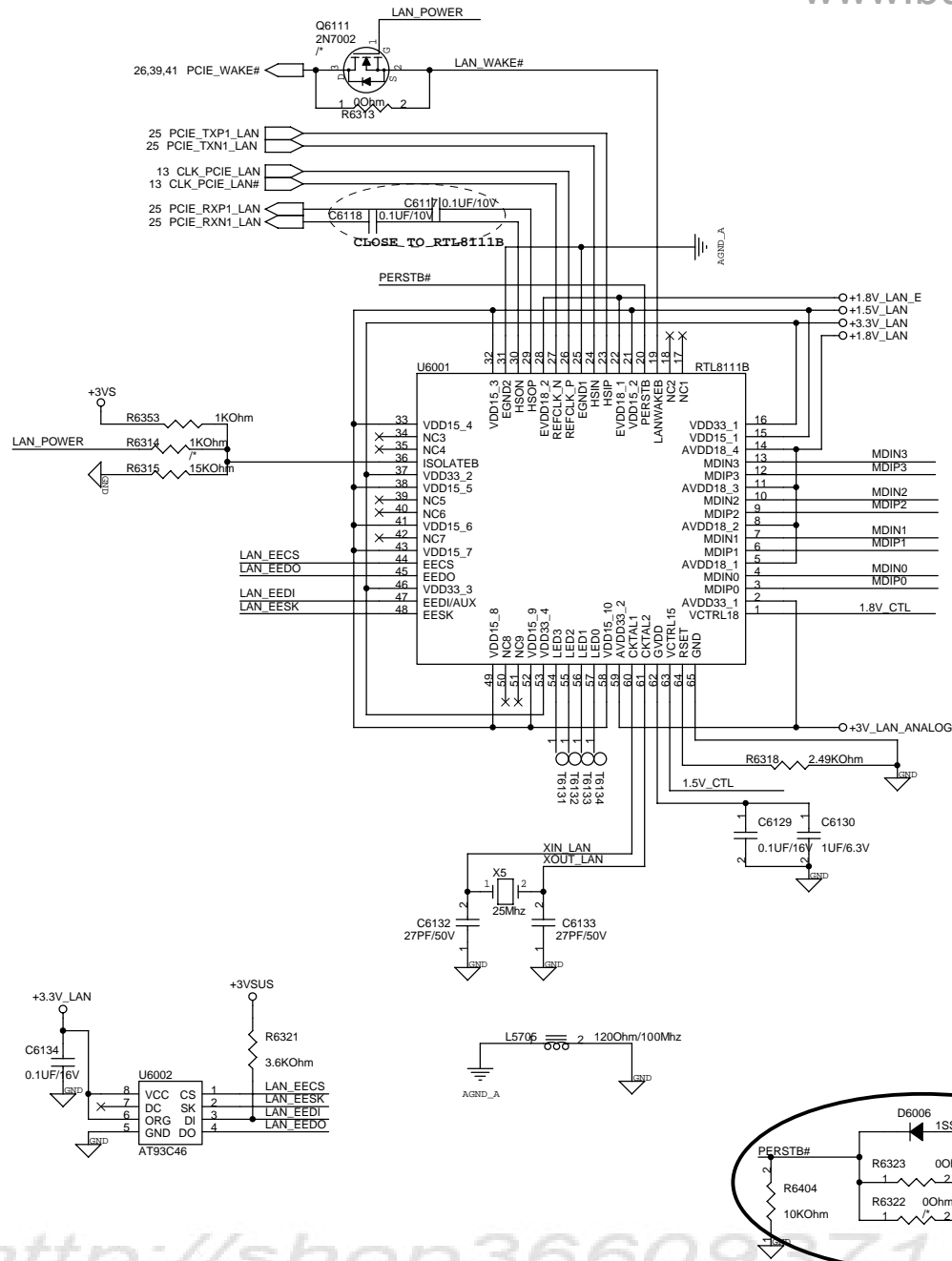
<b>Calistoga</b>			
+VCCP	O	+VCCP	4,5,6,7,8,10,11,24,27,30,46,49
+1.5VS	O	+1.5VS	5,8,10,11,25,27,39,41,46,49
+3VS	O	+3VS	6,8,10,12,13,14,15,17,20,21,22,23,26,27,28,30,31,32,33,34,37,39,40,41,42,44,45,46,47,49,57,58
+1.8VS	O	+1.8VS	20,46,58
VTT_REF0	O	VTT_REF	8,14,15,16
+2.5VS	O	+2.5VS	10,20,21,46,51
+1.8V	O	+1.8V	8,11,14,15,46,50

<b>G72M G3-64</b>			
+VGA_VCORE	O	+VGA_VCORE	17,46,52
+1.2VSP	O	+1.2VSP	17,18,46,53
+3VS	O	+3VS	6,8,10,12,13,14,15,17,20,21,22,23,26,27,28,30,31,32,33,34,37,39,40,41,42,44,45,46,47,49,57,58
+VRAM	O	+VRAM	18,19,46,52
+2.5VS	O	+2.5VS	10,20,21,46,51
+1.8VS	O	+1.8VS	20,46,58
+5VS	O	+5VS	20,27,28,32,34,39,43,44,45,46,47,58

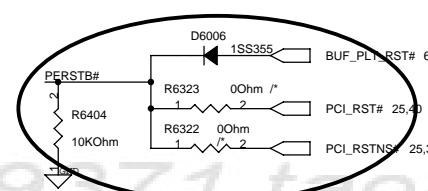
<b>ICH7</b>			
+VCC_RTC	O	+VCC_RTC	24,27
+VCCP	O	+VCCP	4,5,6,7,8,10,11,24,27,30,46,49
+3V	O	+3V	22,23,25,26,32,37,38,39,41,42,44,45,46,51,58
+1.5VS	O	+1.5VS	5,8,10,11,25,27,39,41,46,49
+3VSUS	O	+3VSUS	26,27,32,37,41,45,48
+5VSUS	O	+5VSUS	27,44,48

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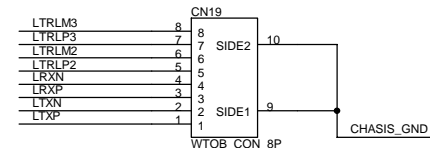
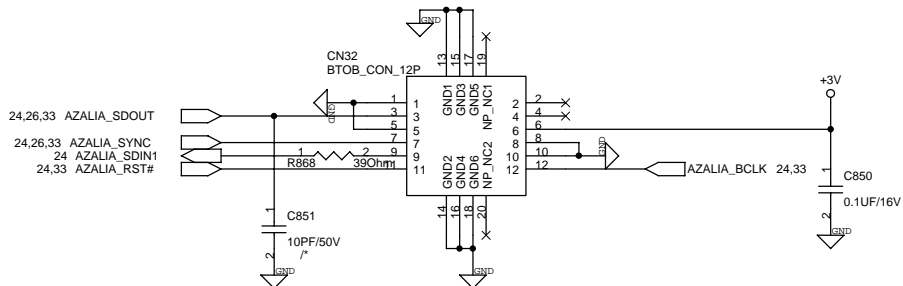


Layout Note: Place near the 8111B  
REMOVE FOR RTL8111B

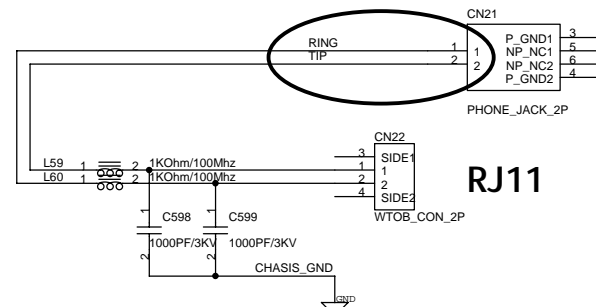


http://shop36609371.taobao.com  
QQ:52643956 笔记本维修资料

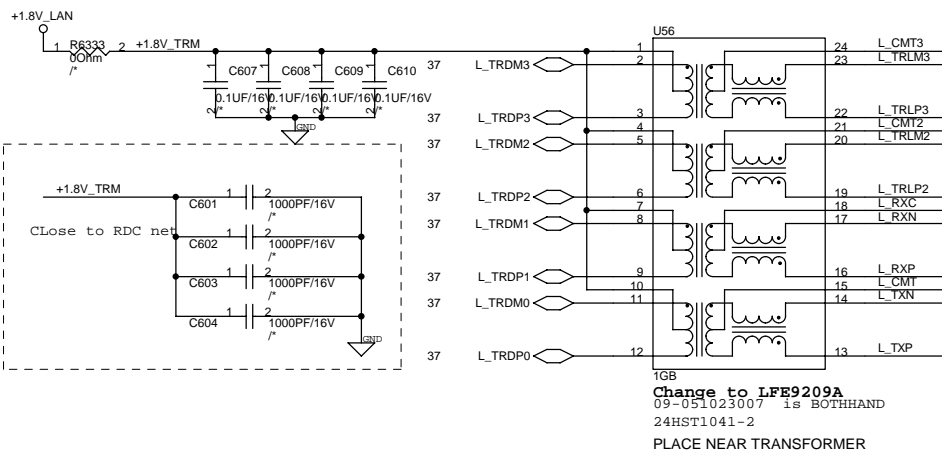
MDC CNT



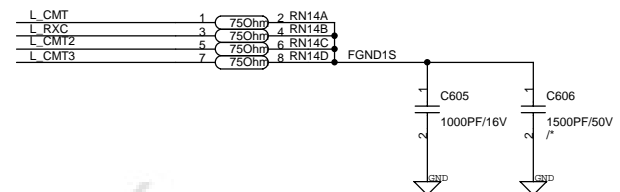
RJ45



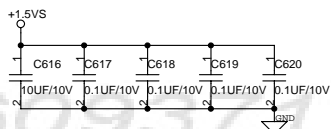
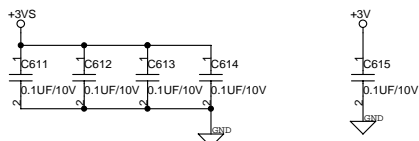
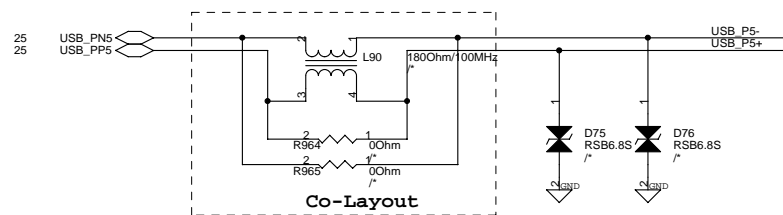
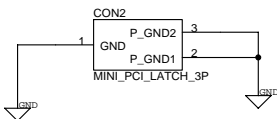
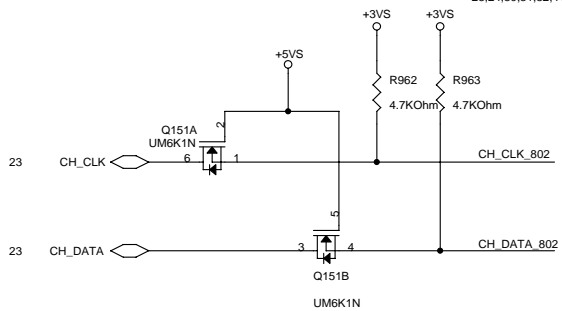
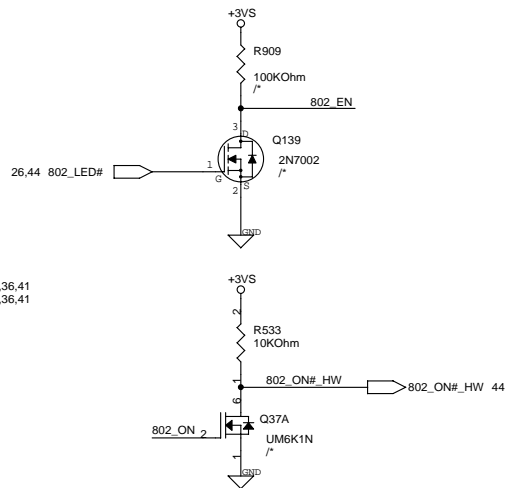
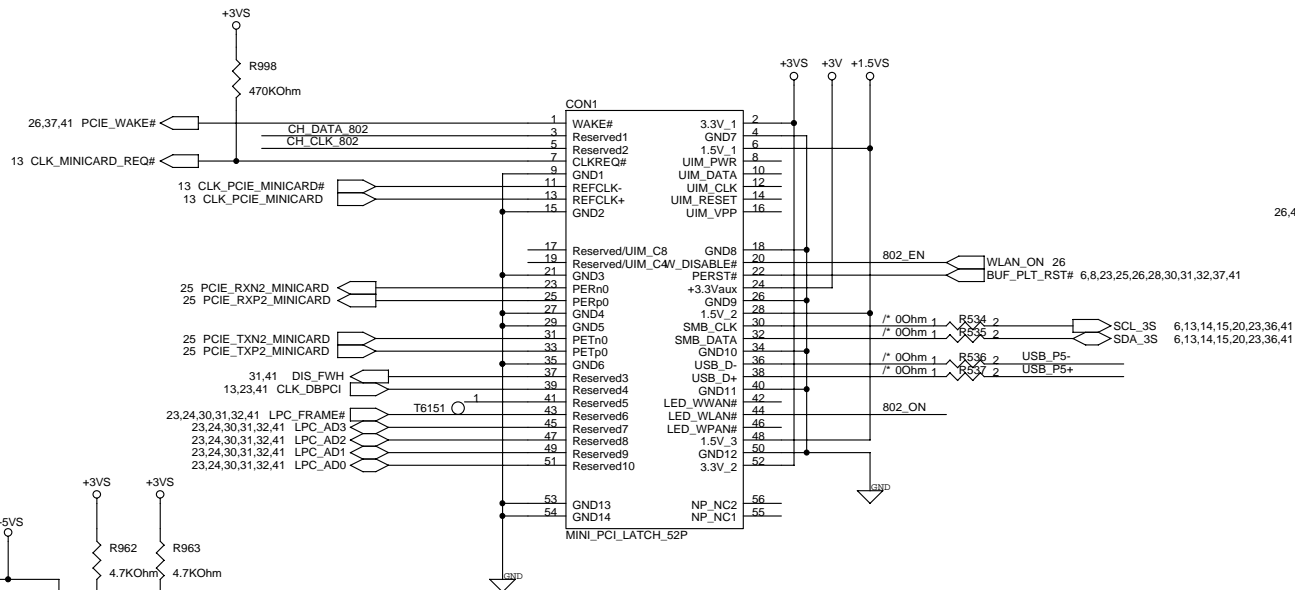
RJ11



L_TRLP2	LTRLP2	L_TXP	LTXP
L_TRLM2	LTRLM2	L_TXN	LTXN
L_TRLP3	LTRLP3	L_RXP	LRXP
L_TRLM3	LTRLM3	L_RXN	LRXN

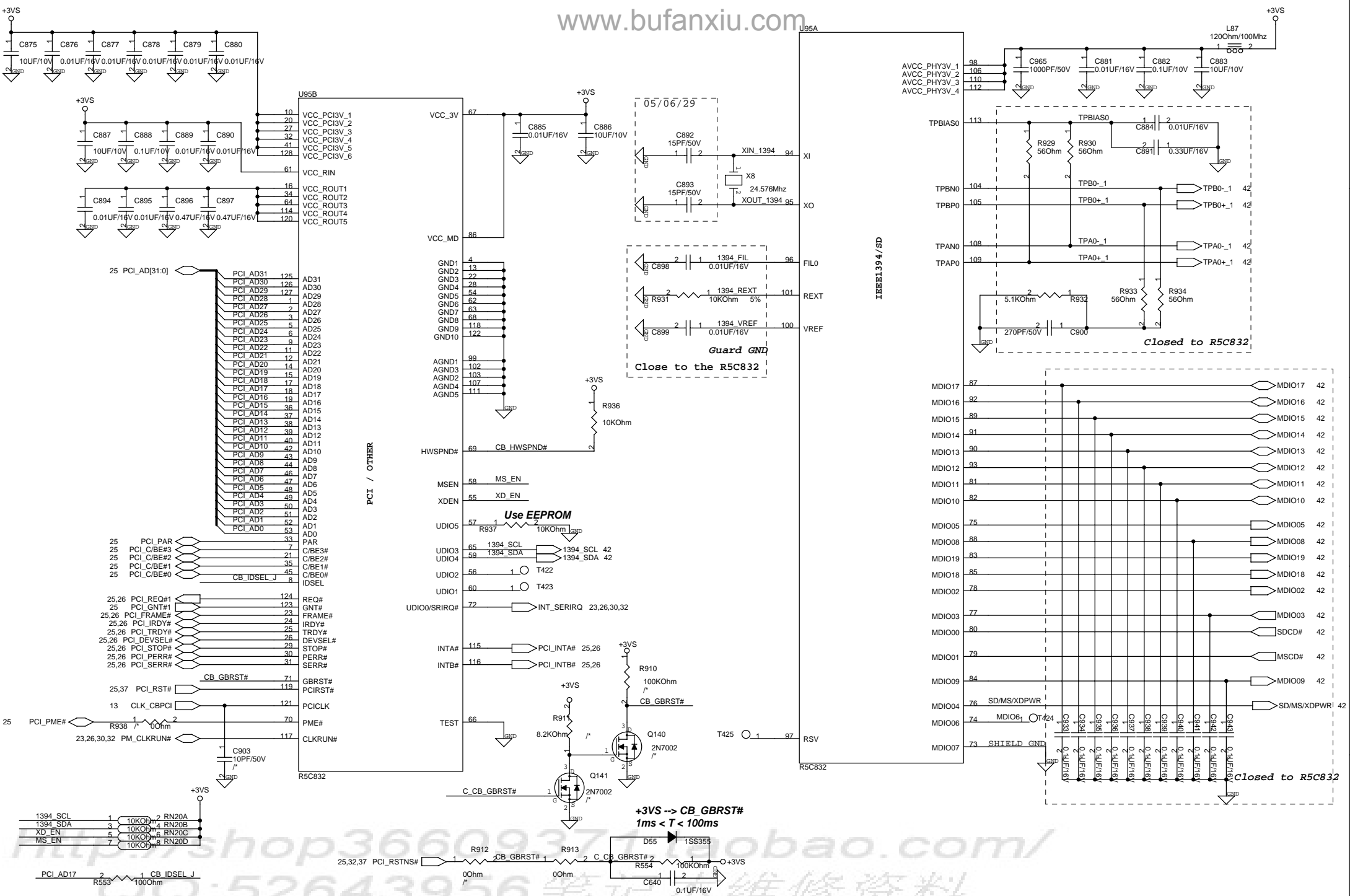


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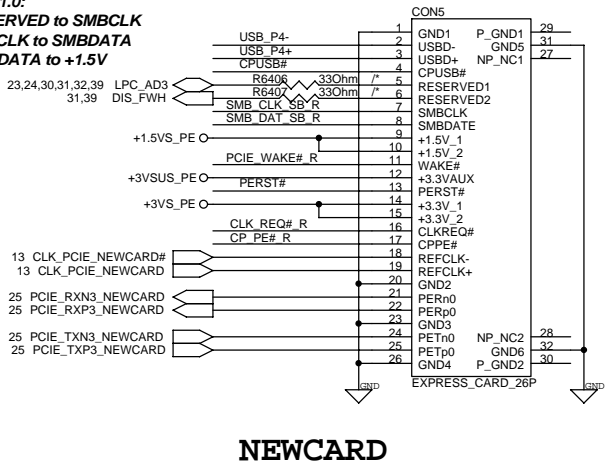
<http://shop36609571.taobao.com/>

QQ:52643956 笔记本维修资料

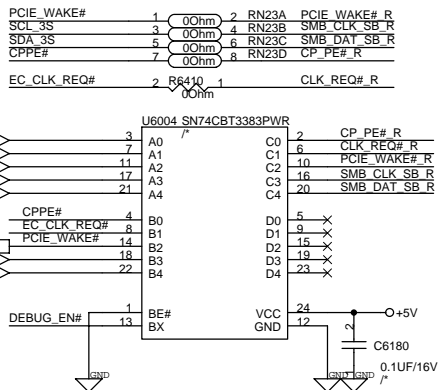
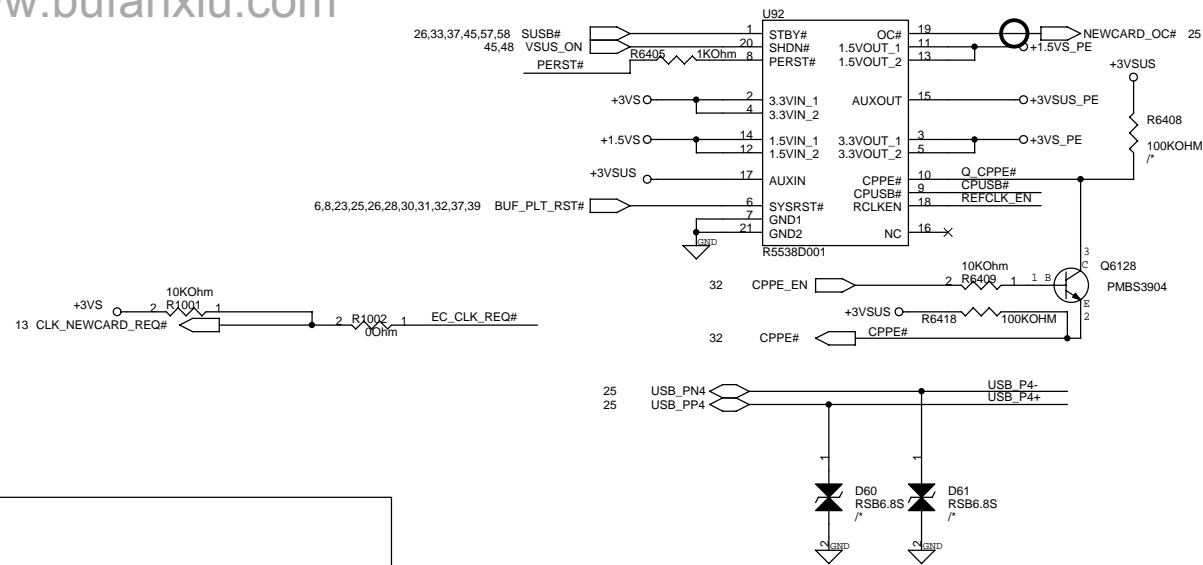




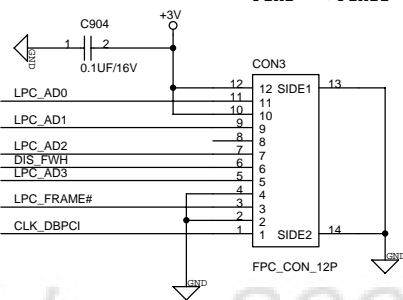
**IExpressCard Standard 1.0:**  
**Change Pin7 from RESERVED to SMBCLK**  
**Change Pin8 from SMBCLK to SMBDATA**  
**Change Pin9 from SMBDATA to +1.5V**



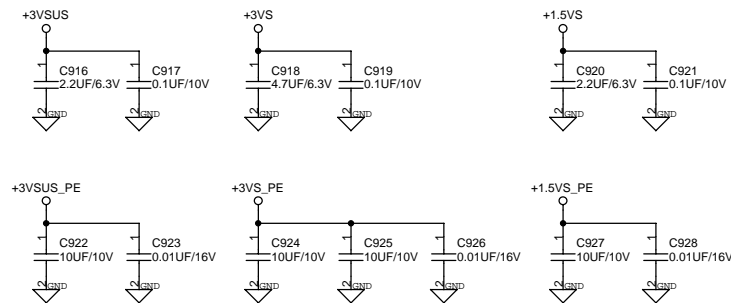
**NEWCARD**



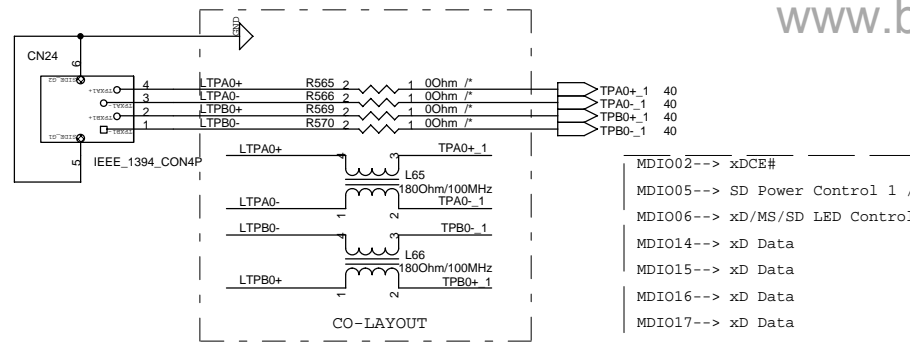
**LPC Connector (Debug)**



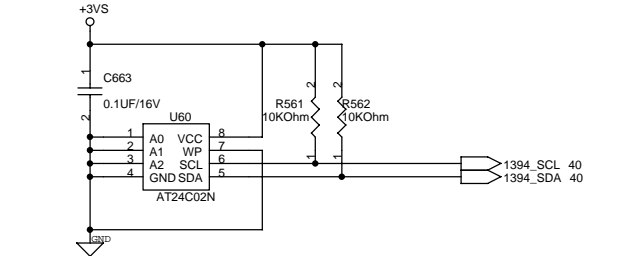
Note: Layout define Pin1--->Pin12



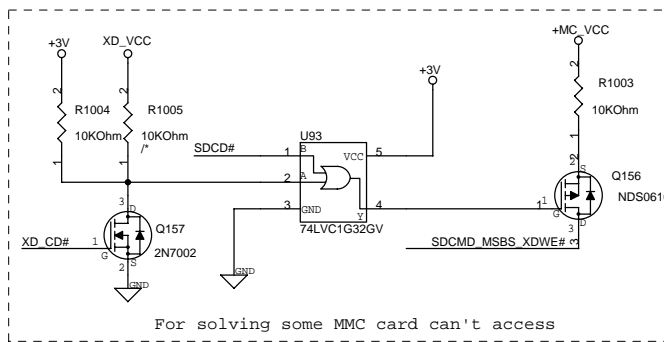
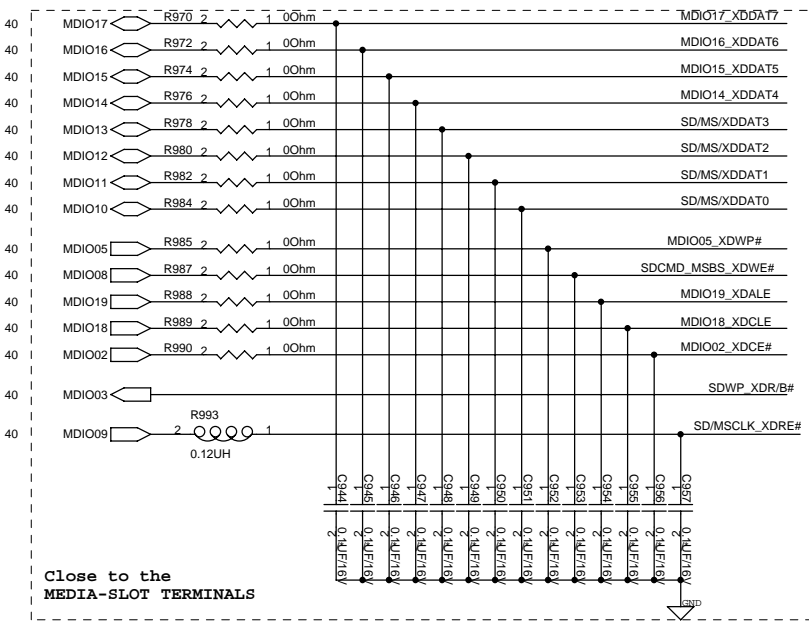
1394A



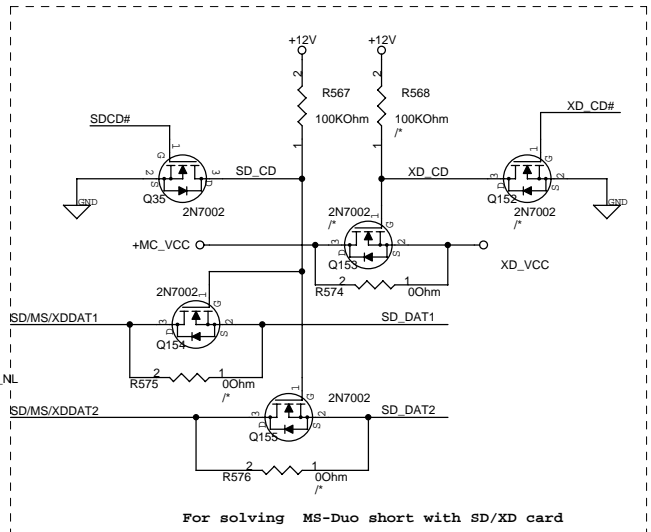
- MDIO01--> MS Card Detect
- MDIO03--> SD Write Protect
- MDIO04--> SD Card Power0 Control/MS Power Control
- MDIO07--> SD External Clock/MS External Clock
- MDIO08--> SD Command/MS Bus State
- MDIO09--> SD Clock/MS Clock
- MDIO10--> SD Data 0/MS Data 0
- MDIO11--> SD Data 1/MS Data 1
- MDIO12--> SD Data 2/MS Data 2
- MDIO13--> SD Data 3/MS Data 3



- MDIO02--> xDCE#
- MDIO05--> SD Power Control 1 / xDWP
- MDIO06--> xD/MS/SD LED Control
- MDIO14--> xD Data
- MDIO15--> xD Data
- MDIO16--> xD Data
- MDIO17--> xD Data
- MDIO18--> xD CLE
- MDIO19--> xD ALE

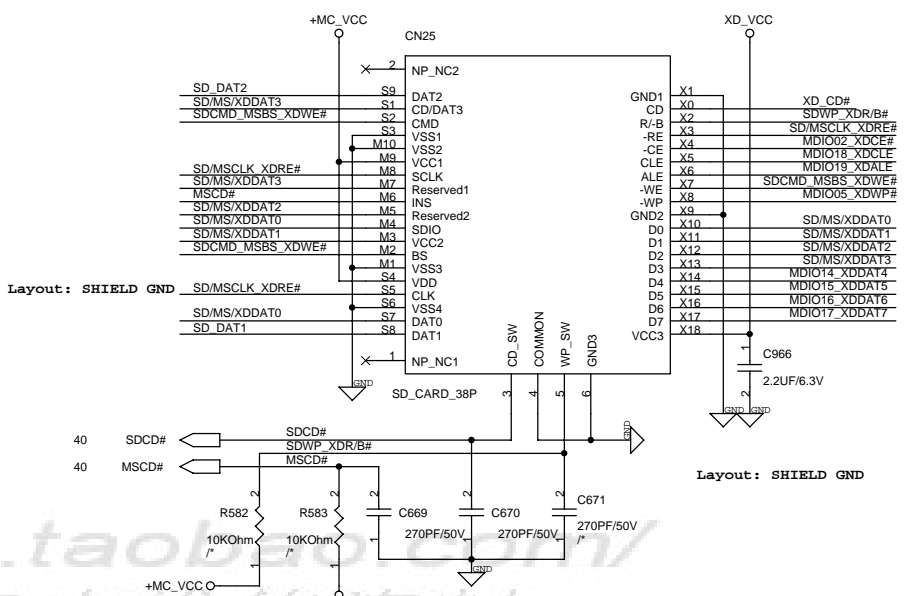
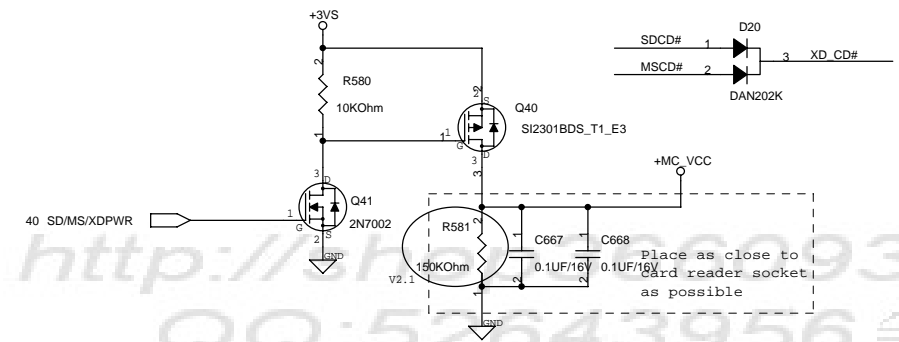


For solving some MMC card can't access

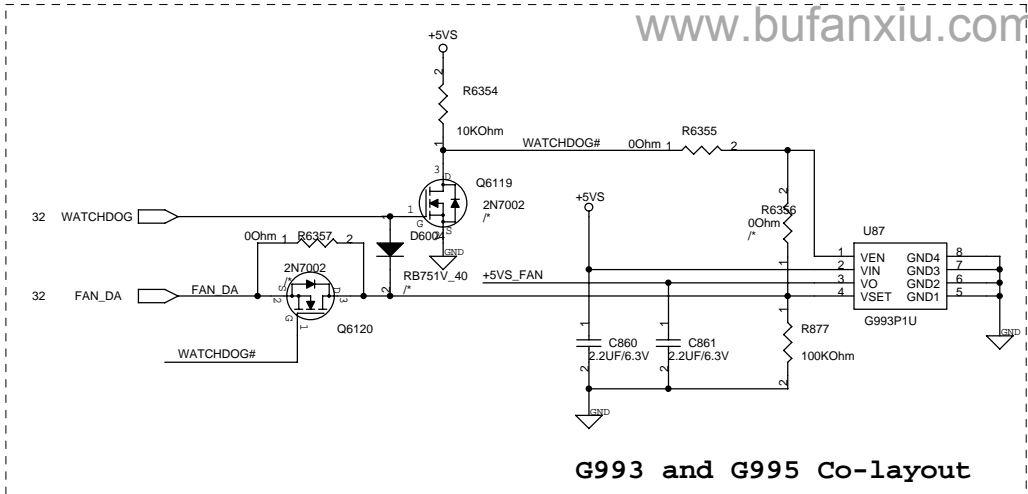


For solving MS-Duo short with SD/XD card

Close to the MEDIA-SLOT TERMINALS

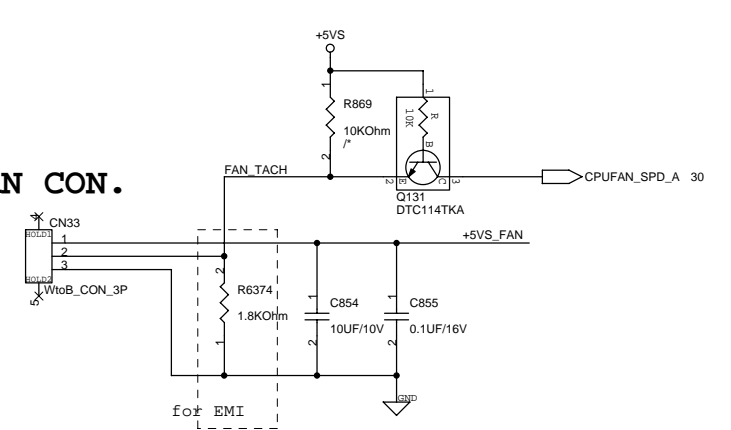


Layout: SHIELD GND

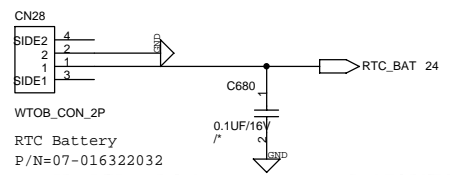


G993 and G995 Co-layout

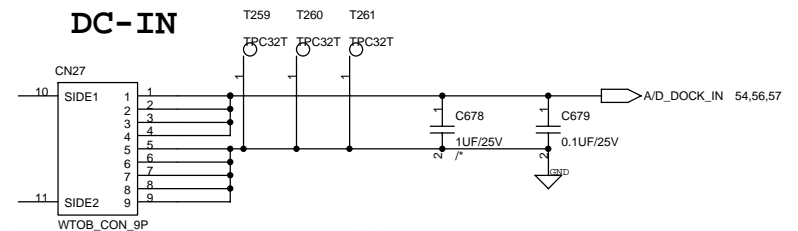
FAN CON.



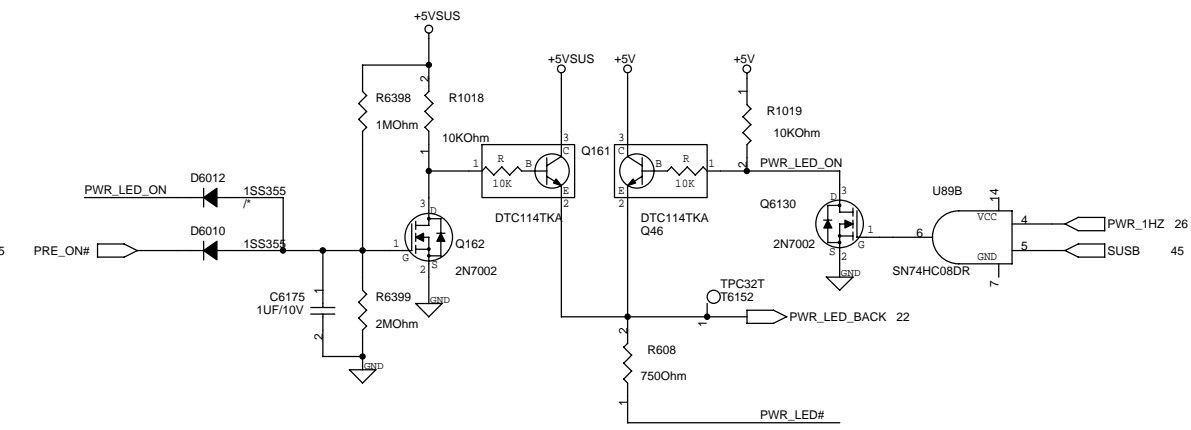
RTC BAT



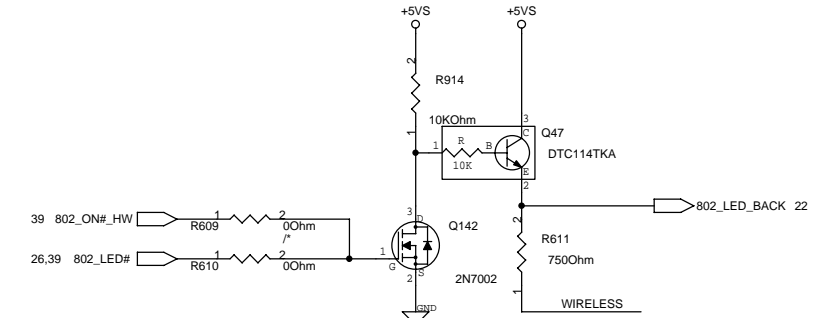
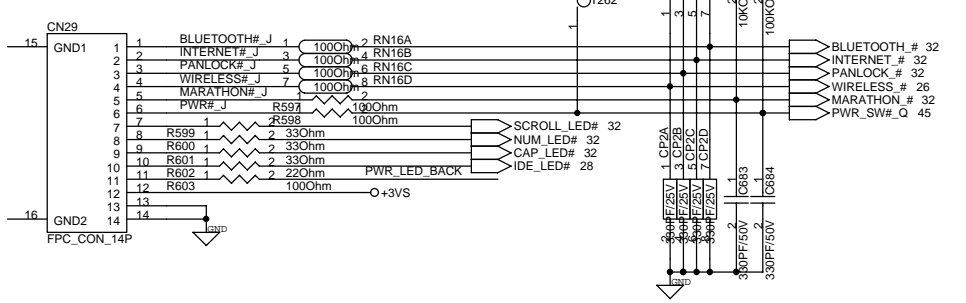
DC-IN



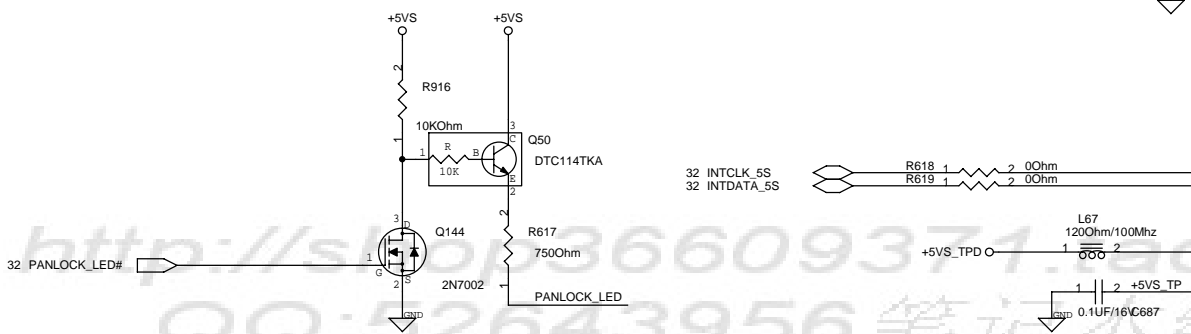
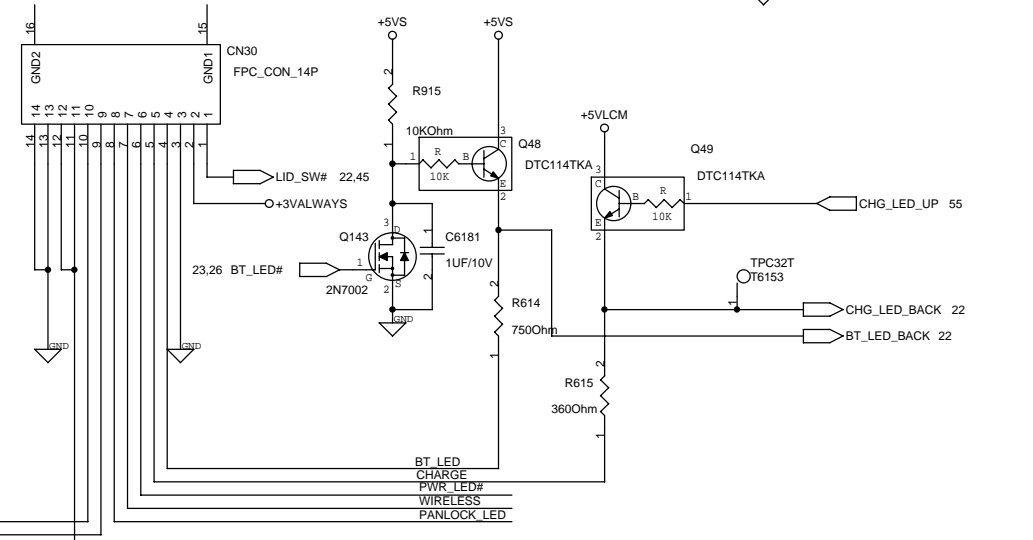
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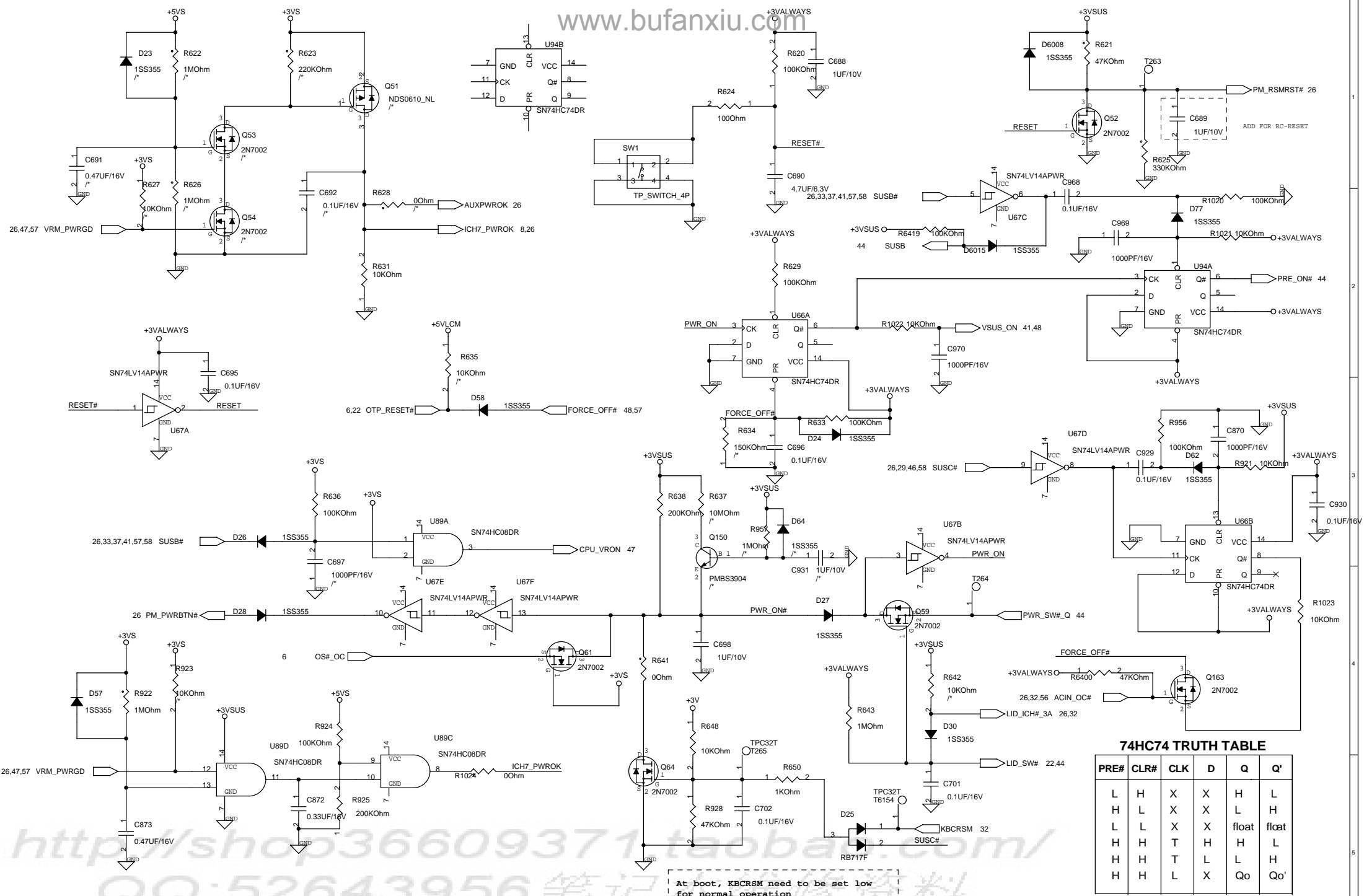
### SWITCH FPC CONN



### TOUCH PAD CNT



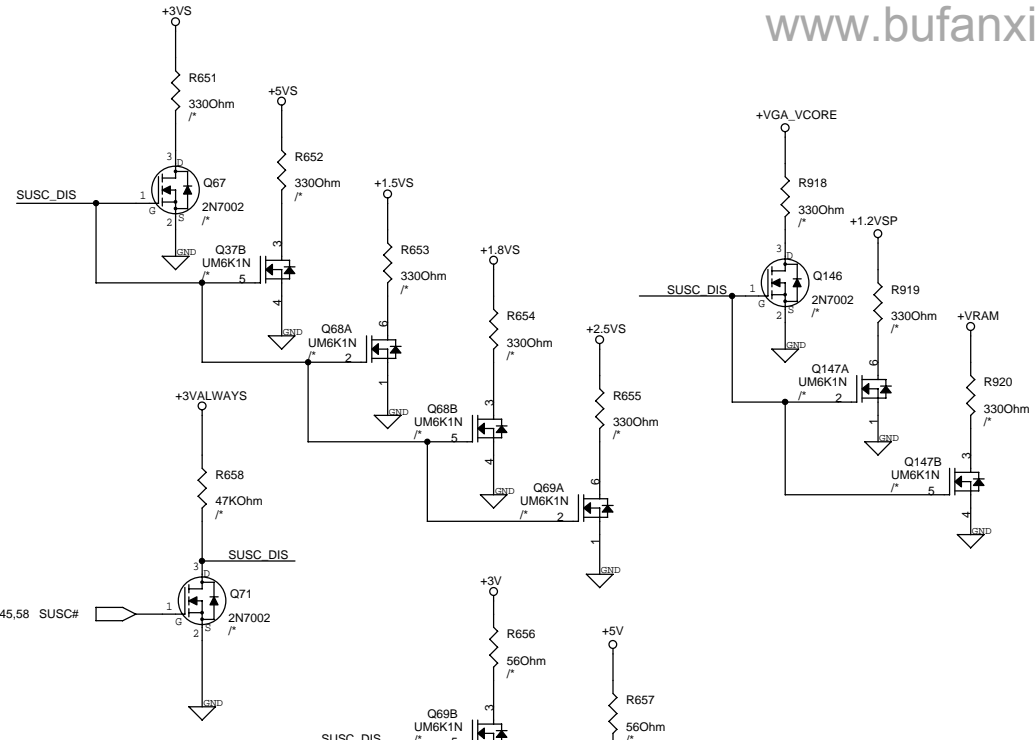
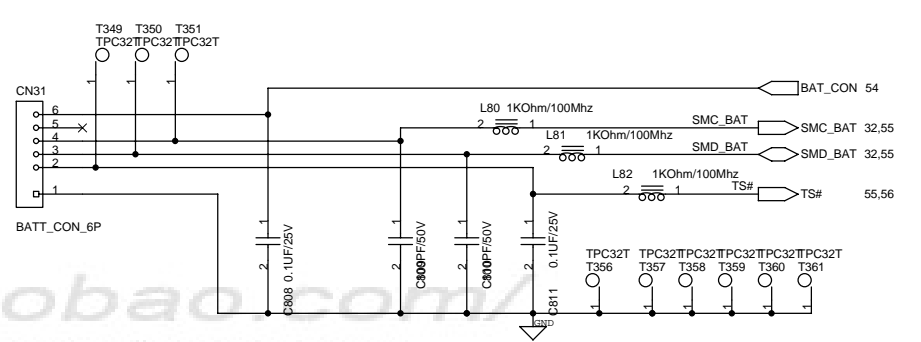
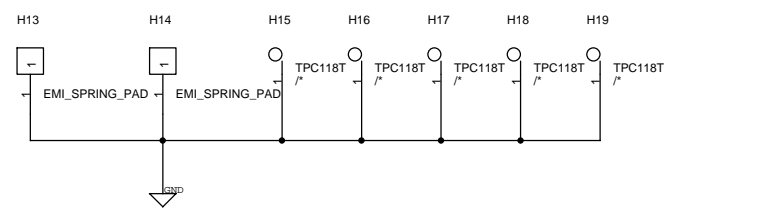
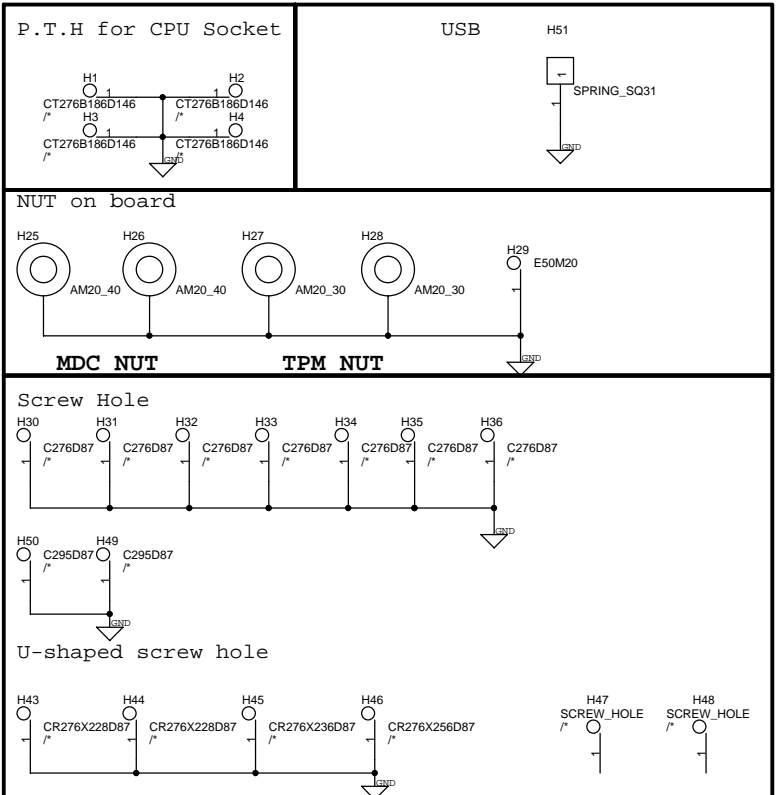
http://s10036609371.taobao.com/ QQ:52643956 笔记本维修资料



**74HC74 TRUTH TABLE**

PRE#	CLR#	CLK	D	Q	Q'
L	H	X	X	H	L
H	L	X	X	L	H
L	L	X	X	float	float
H	H	T	H	H	L
H	H	T	L	L	H
H	H	L	X	Qo	Qo'

At boot, KBKCRSM need to be set low for normal operation

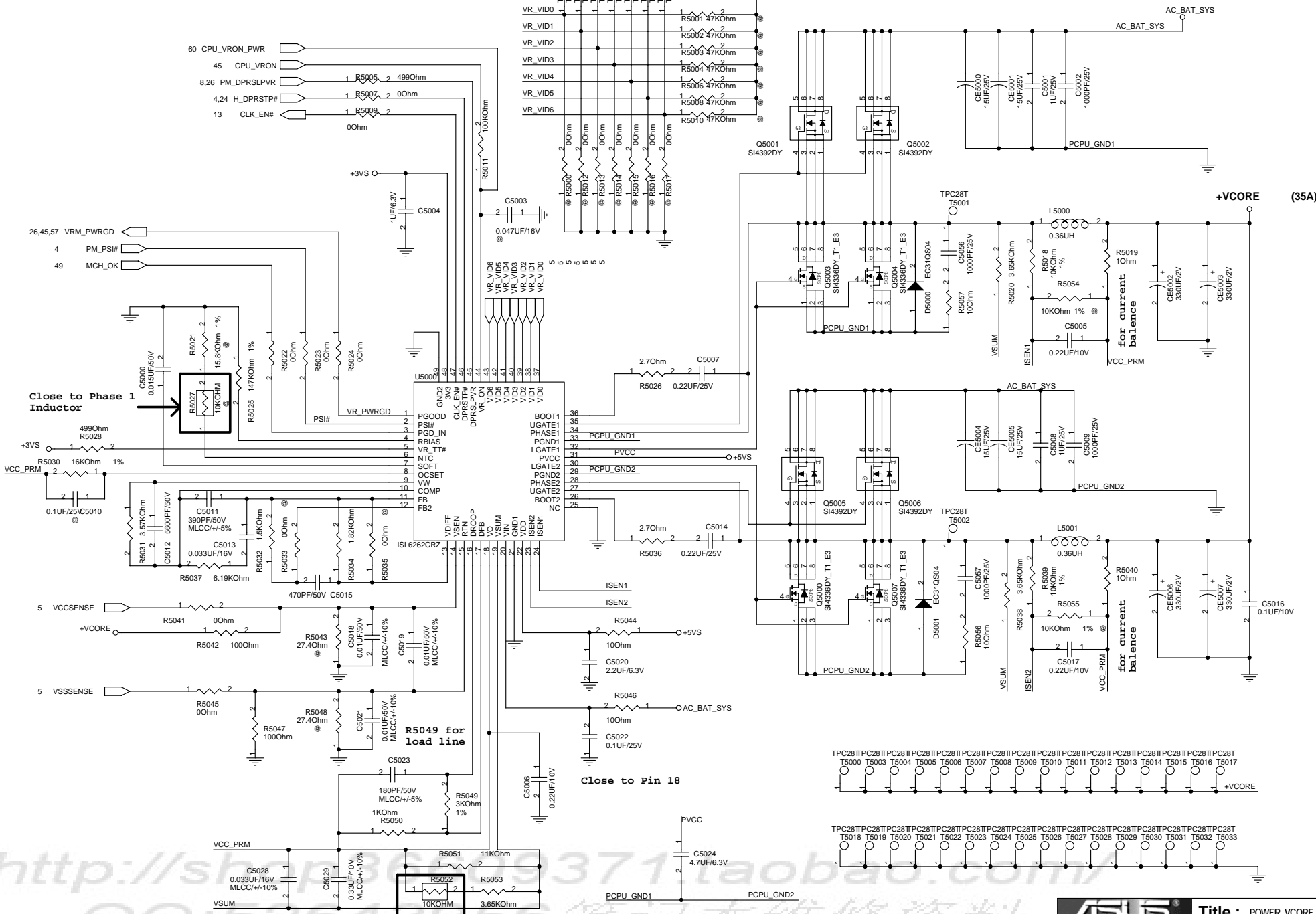


**CROSS MOD**

+1.8V	C6150	1	0.1UF/10V	+VGA_VCORE
+1.8V	C6158	1	0.1UF/10V	+VGA_VCORE
+1.5VS	C6159	1	0.1UF/10V	+VGA_VCORE
+1.5VS	C6160	1	0.1UF/10V	+VGA_VCORE
+1.5VS	C6152	1	0.1UF/10V	+1.8V
+1.8V	C6161	1	0.1UF/10V	+3VS
+1.8V	C6162	1	0.1UF/10V	+3VS
+1.5VS	C6165	1	0.1UF/10V	+3VS
+1.5VS	C6166	1	0.1UF/10V	+3VS
+3VS	C6155	1	0.1UF/25V	AC_BAT_SYS
+3VS	C6167	1	0.1UF/25V	AC_BAT_SYS
+VCCP	C6156	1	0.1UF/25V	AC_BAT_SYS
+VCCP	C6168	1	0.1UF/25V	AC_BAT_SYS
+VCORE	C6169	1	0.1UF/25V	AC_BAT_SYS

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Close to Phase 1 Inductor

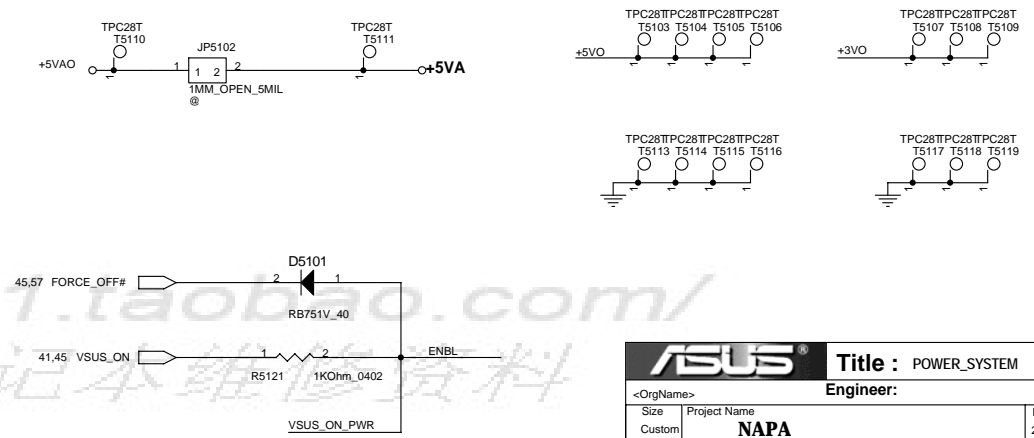
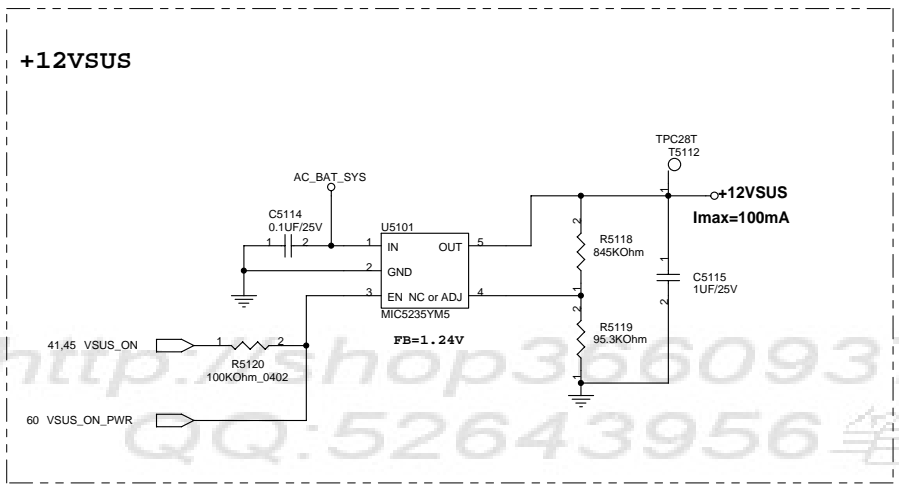
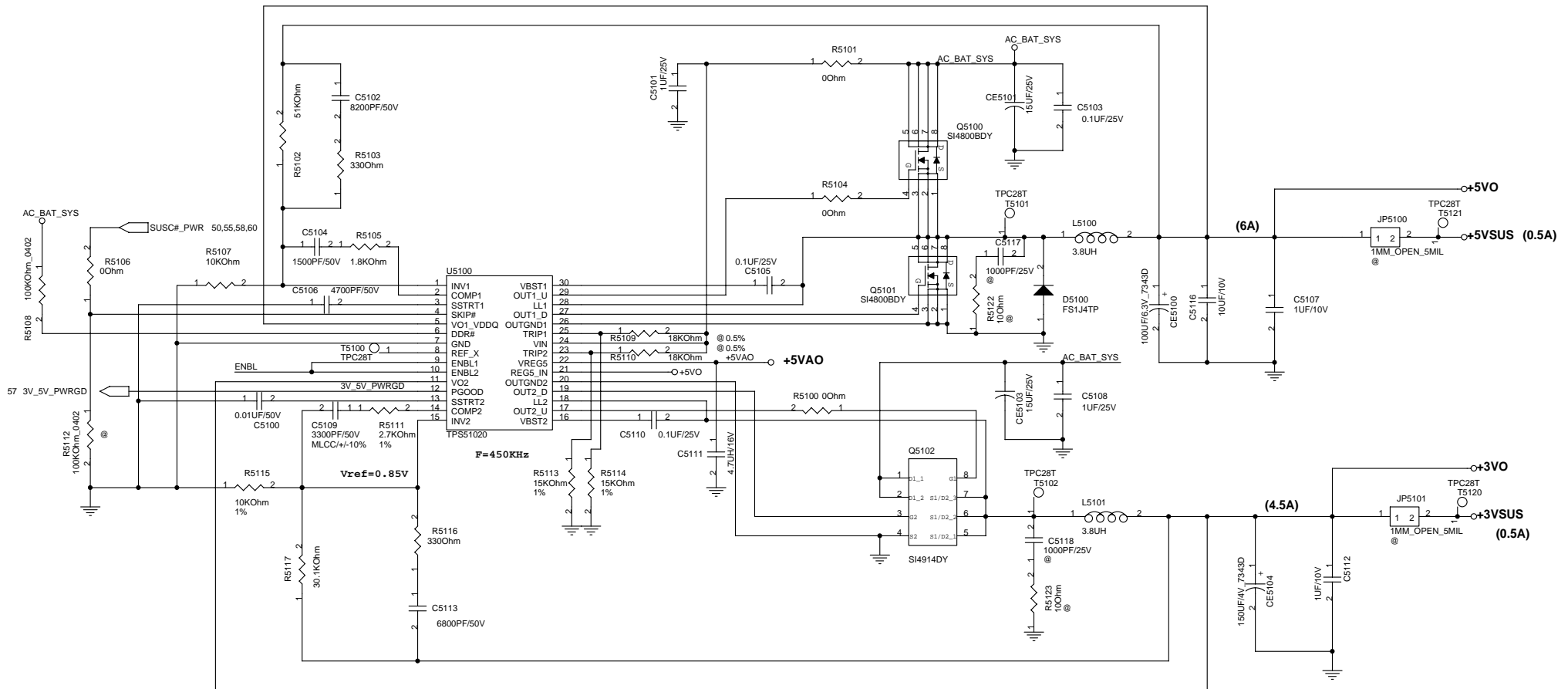
Close to Pin 18

C5028 & C5029 for transient response

Close to Phase 1 Inductor

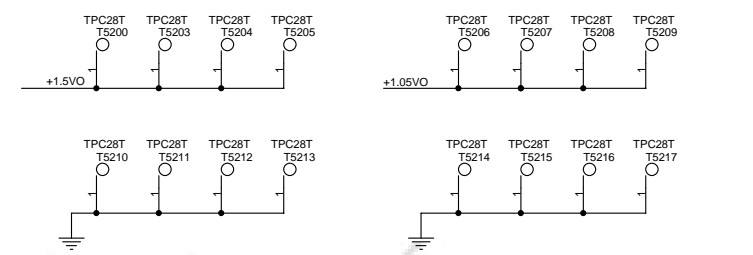
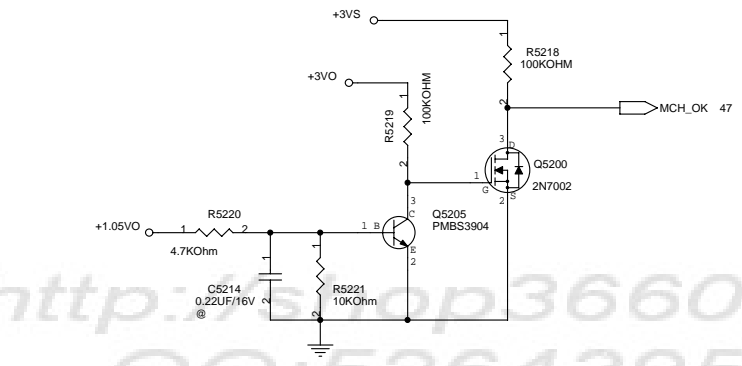
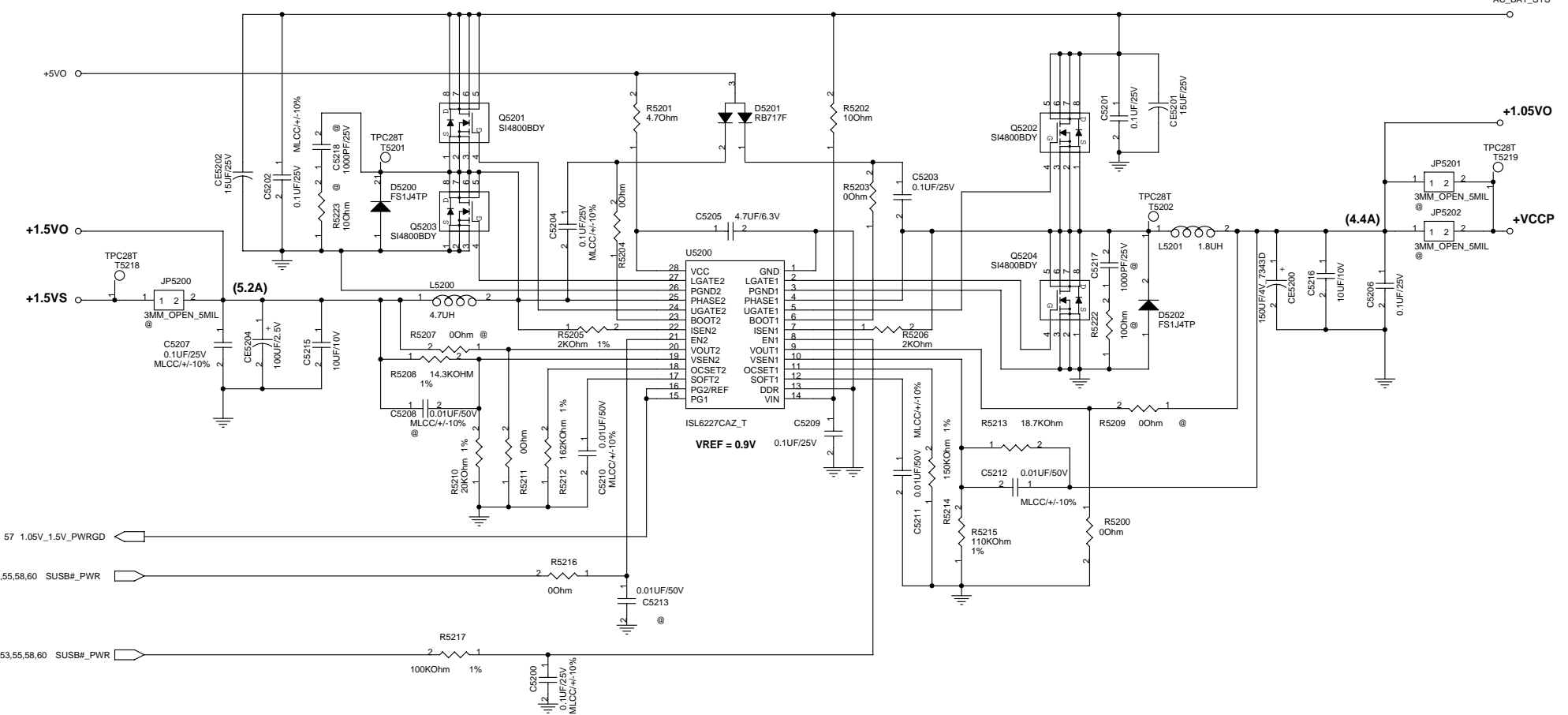
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Engineer:			
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	Custom	<b>NAPA</b>	2.0
Date: Friday, November 25, 2005	Sheet	47	of 63

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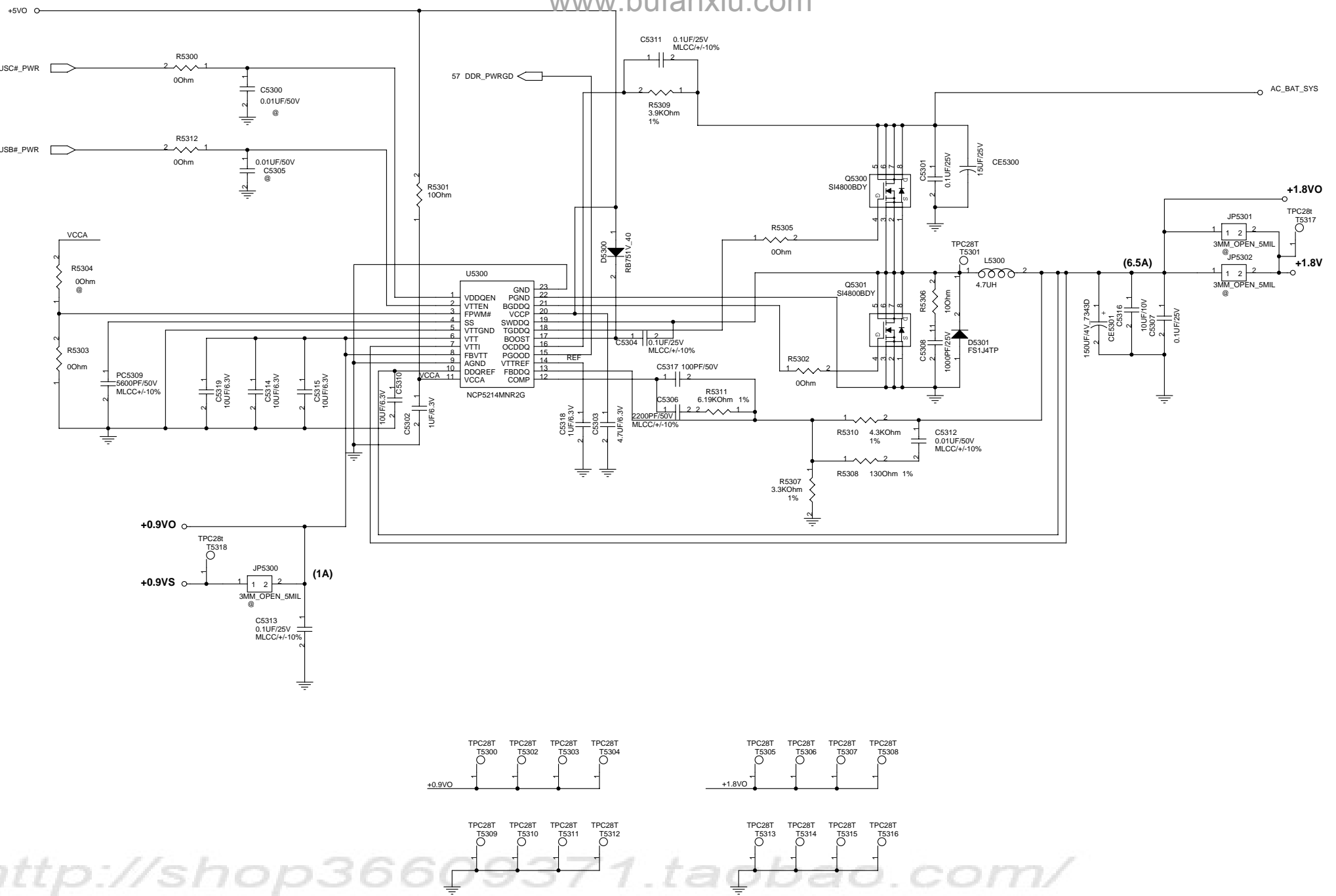


<b>ASUS</b>		Title : POWER_SYSTEM	
Engineer:		NAPA	
<OrgName>	Size	Project Name	Rev
Custom			2.0
Date: Friday, November 25, 2005	Sheet	48	of 63



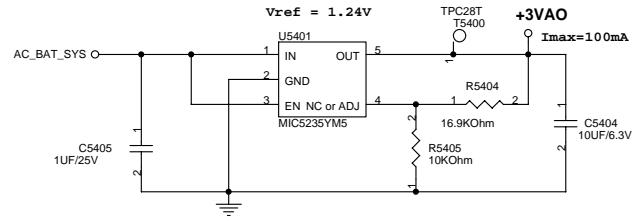
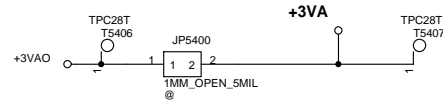


<http://shop36609371.taobao.com/>  
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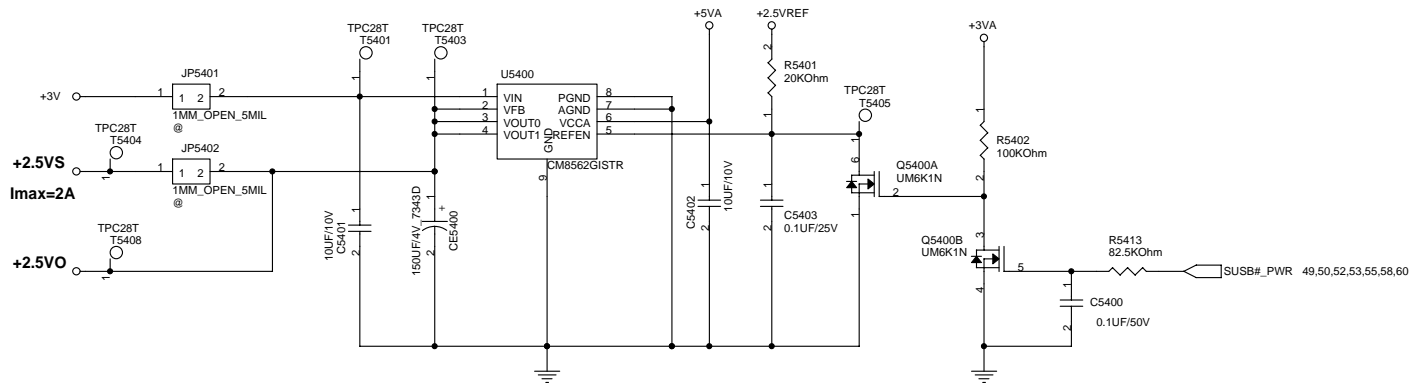


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+3VAO

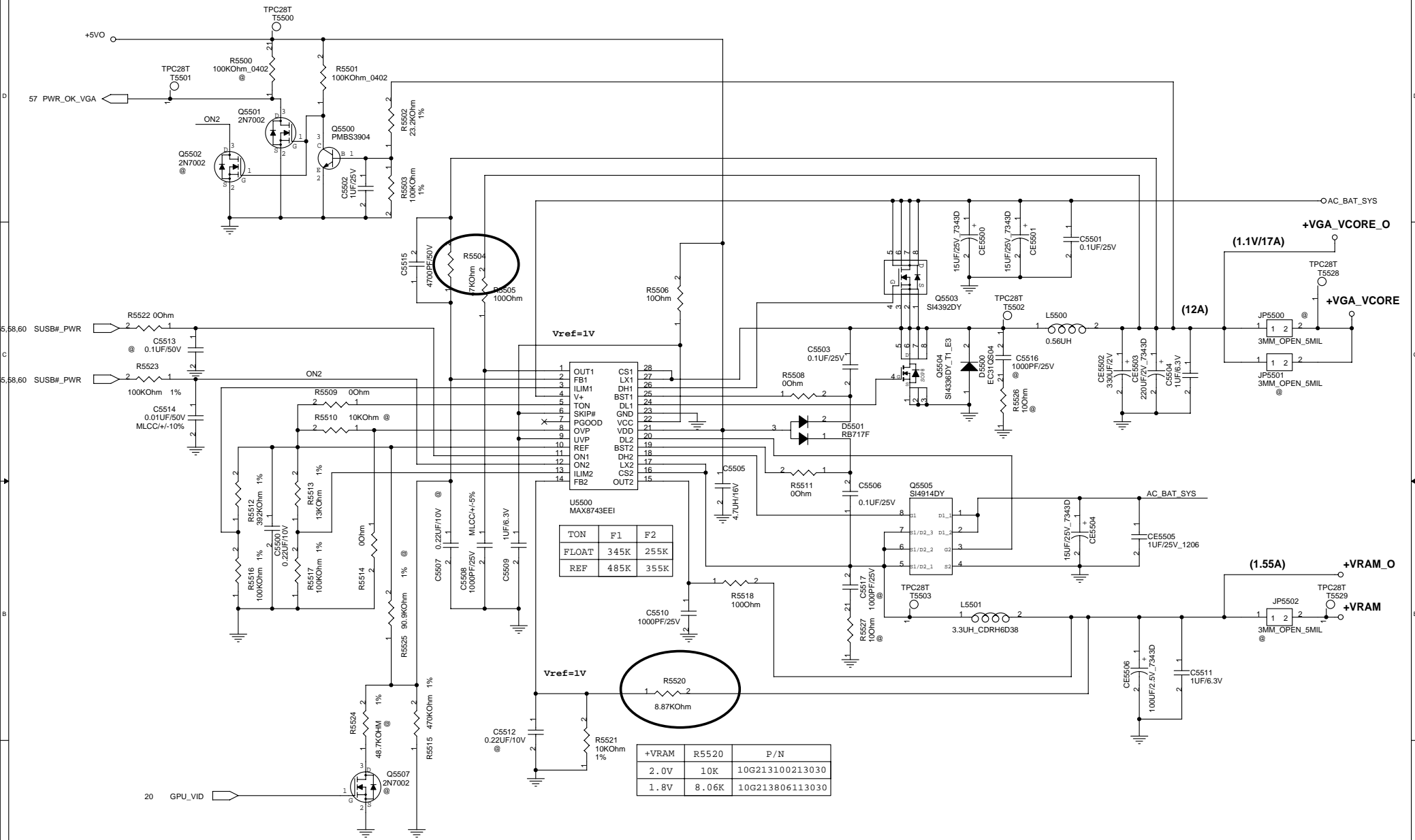


+2.5VS



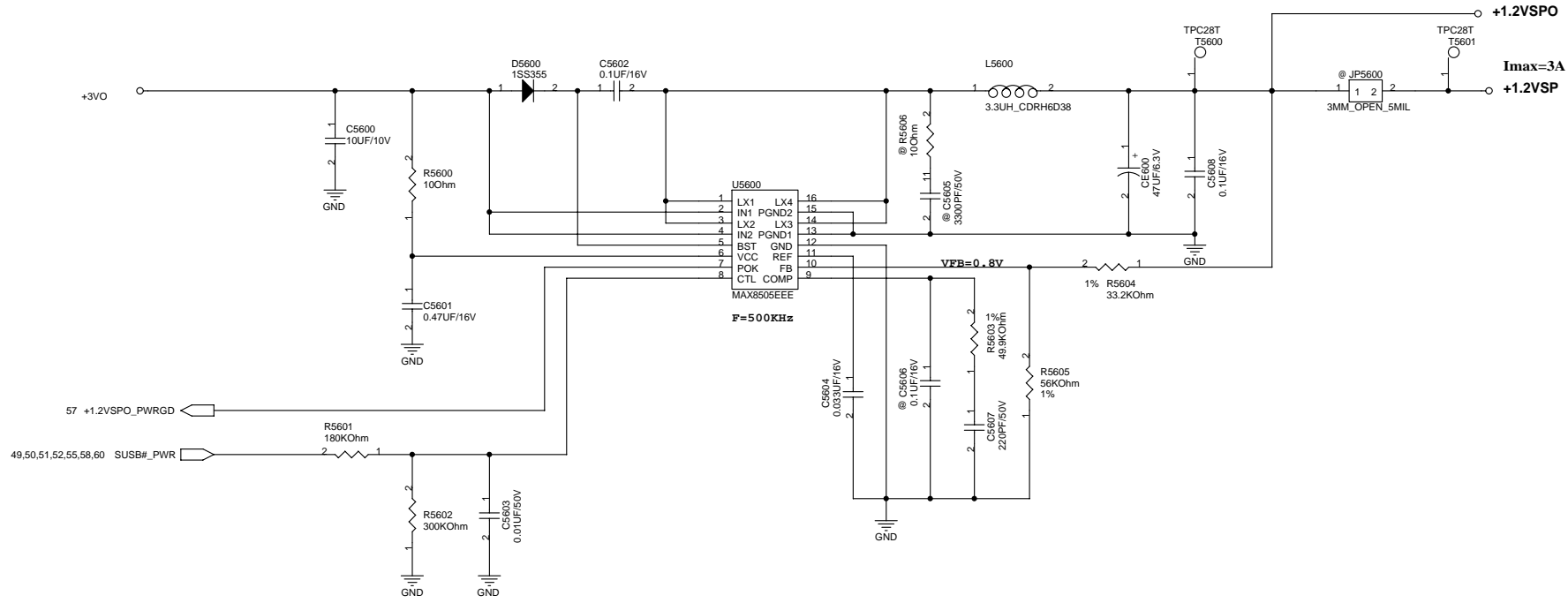
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+1.2VSP

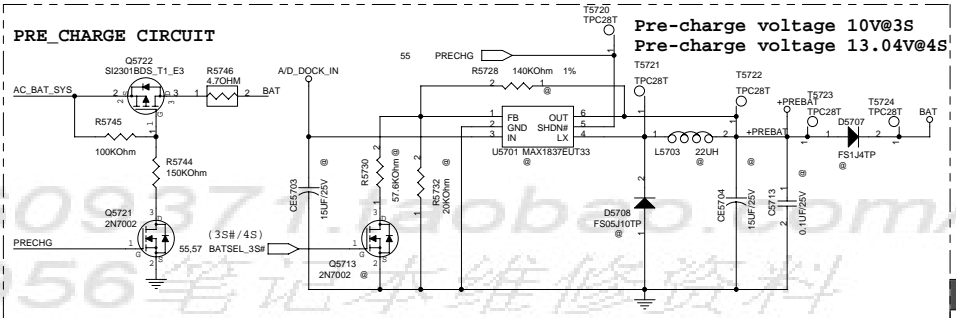
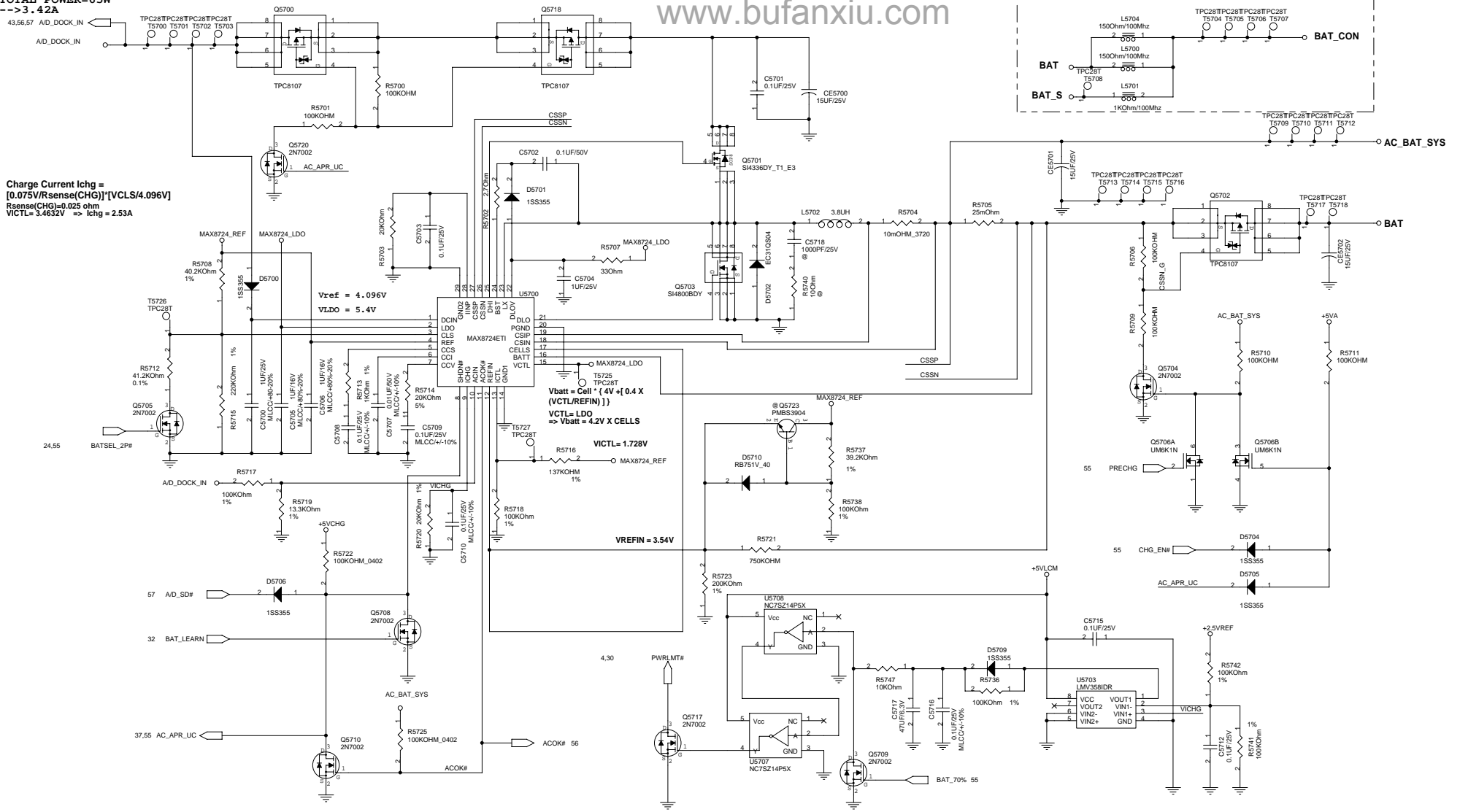


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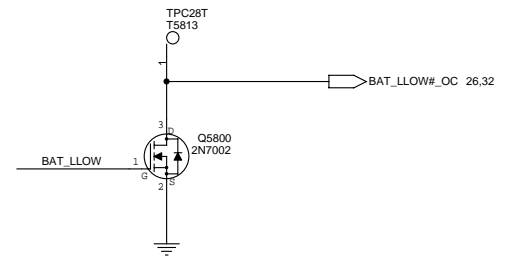
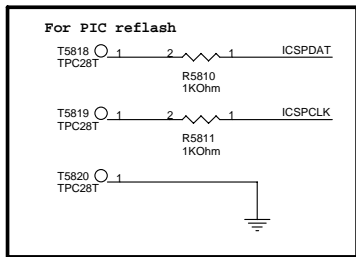
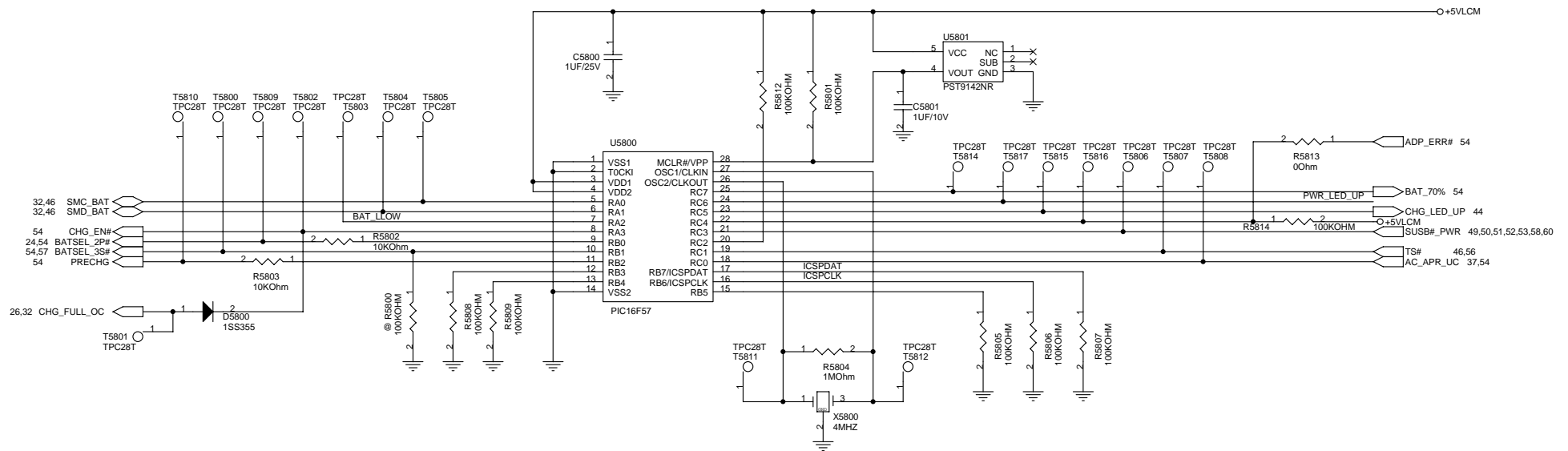
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<OrgName>		Engineer:			
Size	Project Name			Rev	
Custom	<b>NAPA</b>			2.0	
Date: Friday, November 25, 2005		Sheet	53	of	63

TOTAL POWER=65W  
->>3.42A

Charge Current Ichg =  
[0.075V/Rsense(CHG)]\*[VCLS/4.096V]  
Rsense(CHG)=0.025 ohm  
VICTL= 3.4632V => Ichg = 2.53A

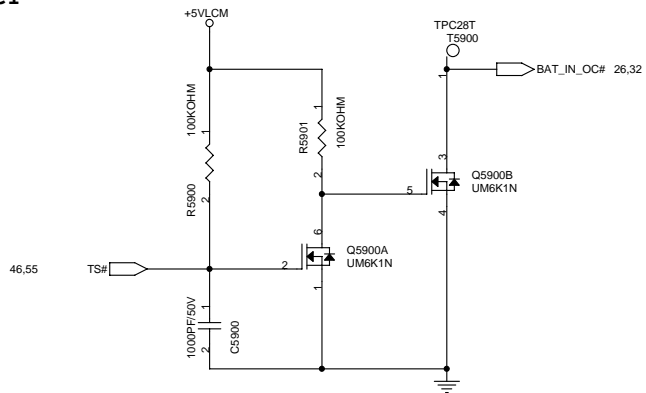


PIC16F57

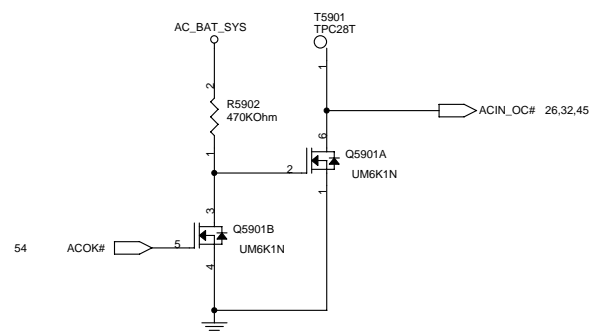


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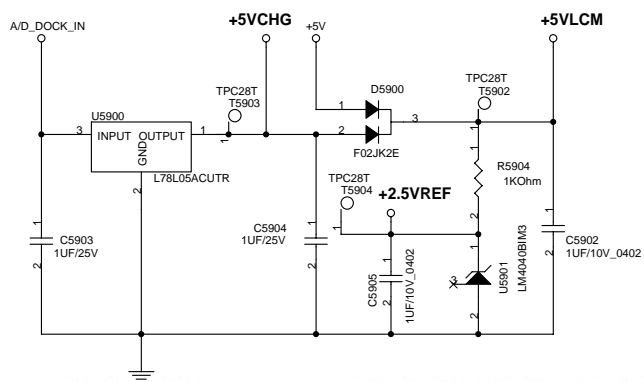
BATTERY IN DETECT



ADAPTER IN DETECT



+5VLCM, +5VCHG & +2.5VREF

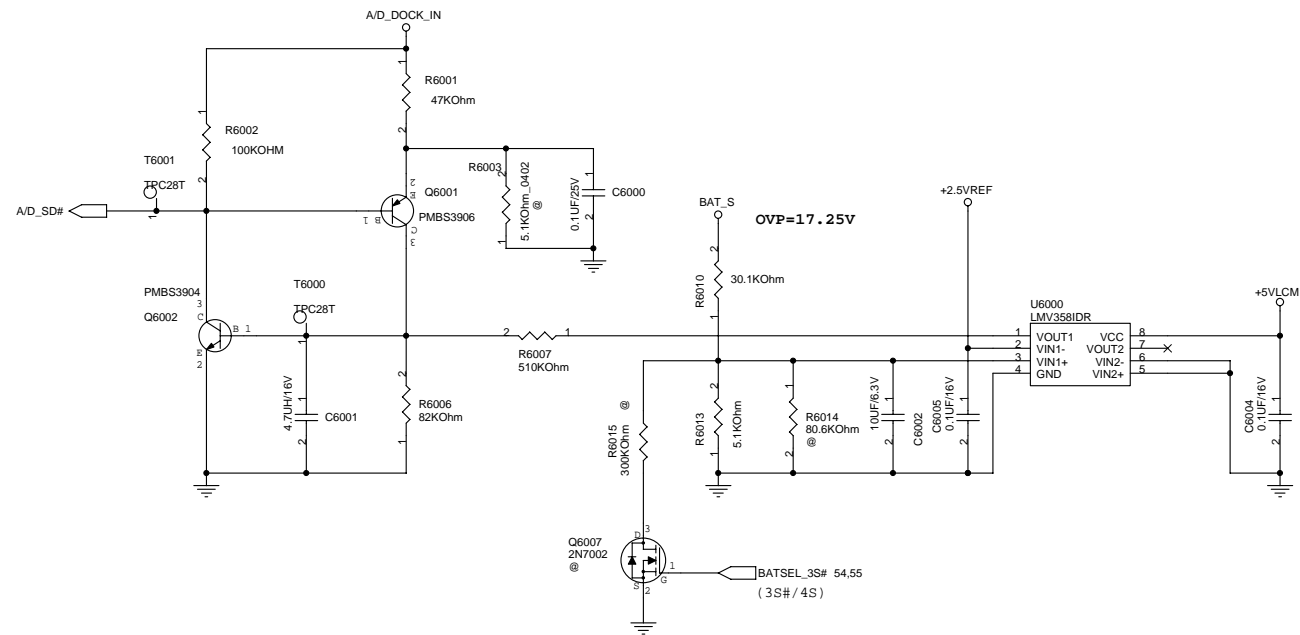


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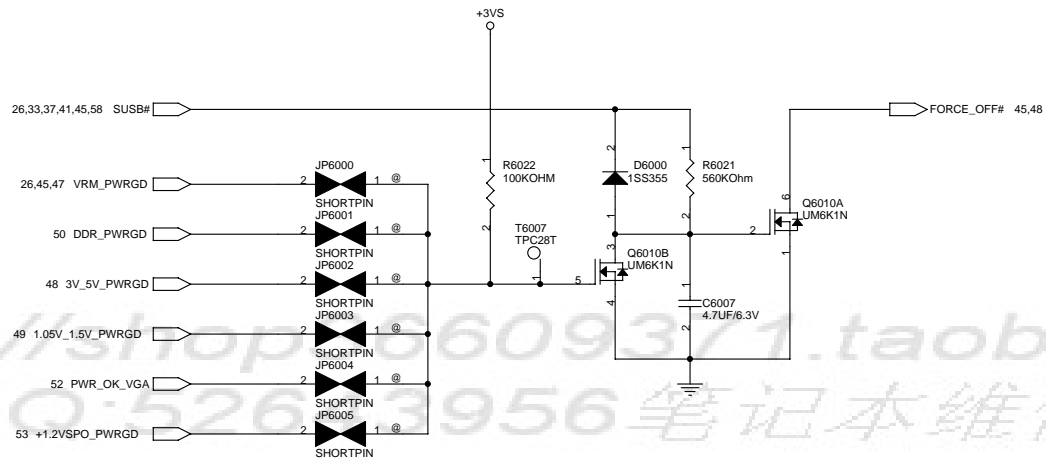
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<OrgName>		<b>Engineer:</b>	
Size	Project Name	Rev	
Custom	<b>NAPA</b>	2.0	
Date: Friday, November 25, 2005		Sheet	56 of 63



BATTERY A/D\_SD# (OVP)



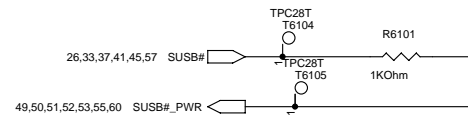
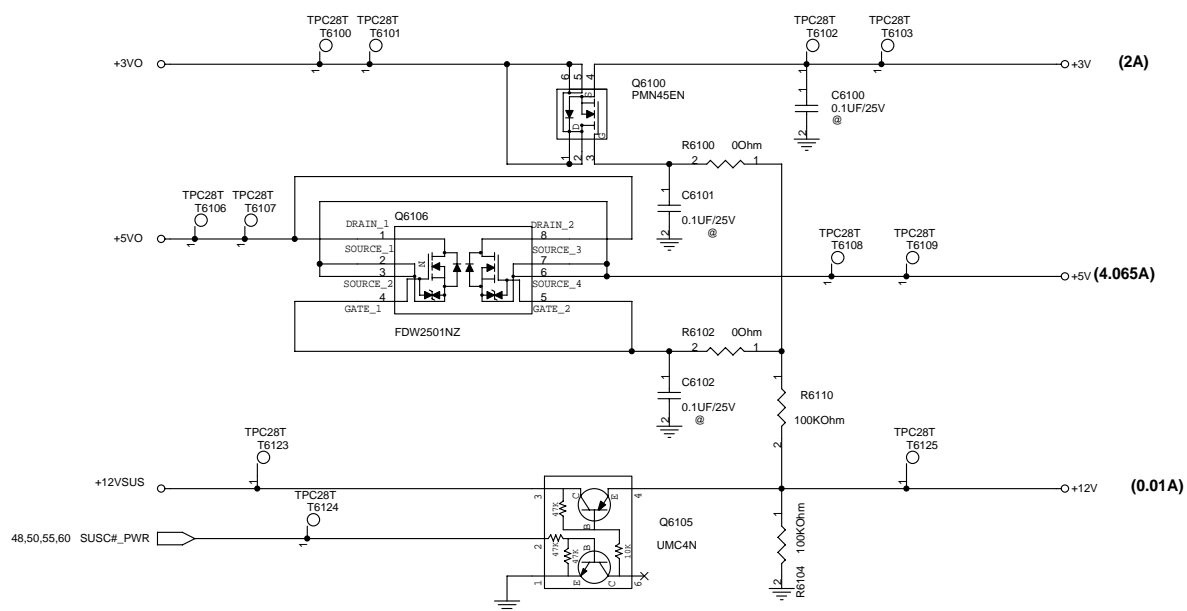
POWER GOOD DETECTOR



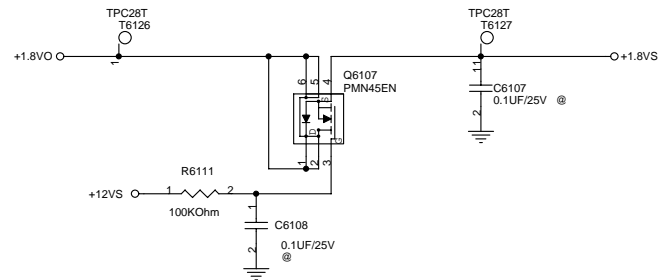
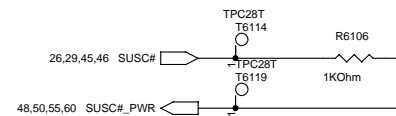
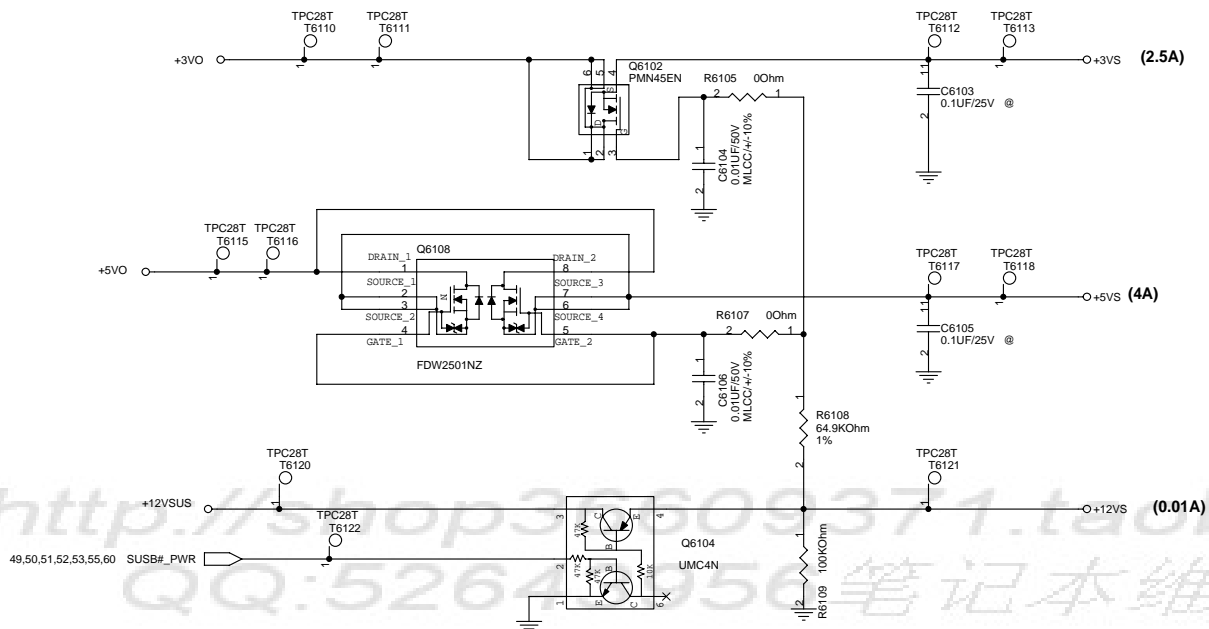
- TPC28T T6003 0\_1 VRM\_PWRGD
- TPC28T T6004 0\_1 DDR\_PWRGD
- TPC28T T6005 0\_1 3V\_5V\_PWRGD
- TPC28T T6006 0\_1 1.05V\_1.5V\_PWRGD

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 QQ: 5263956 笔记本维修资料

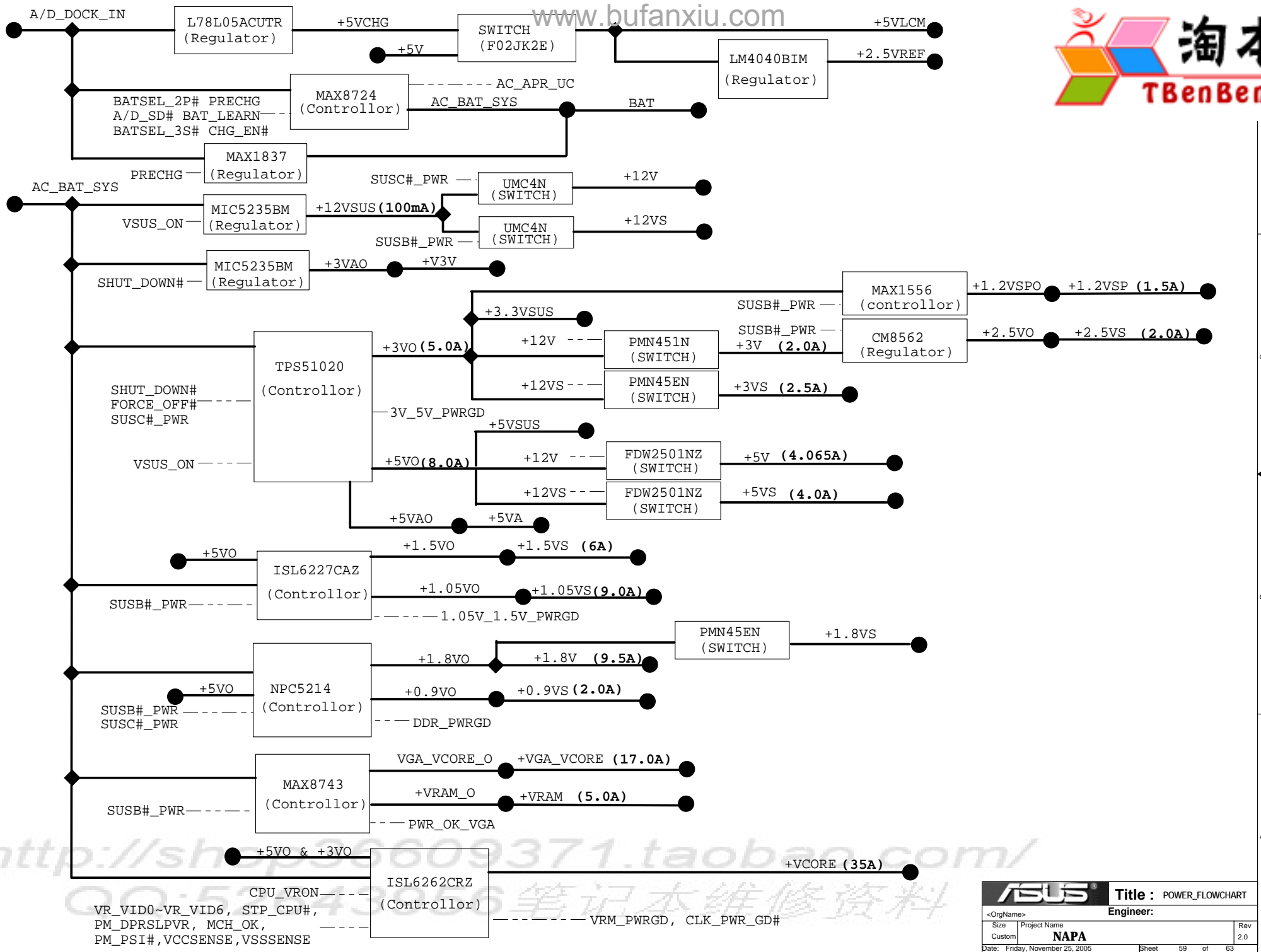
SUSC#\_PWR POWER



SUSB#\_PWR POWER



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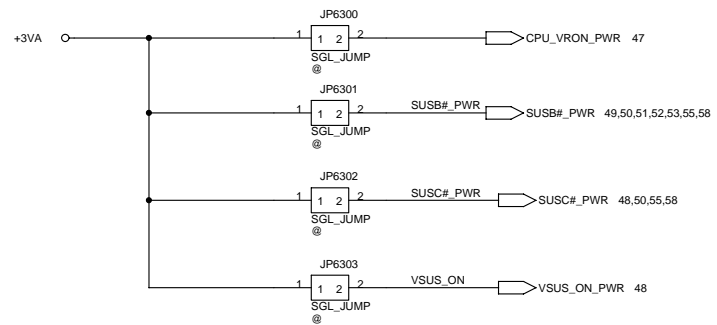


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<b>ASUS</b>		<b>Title : POWER_FLOWCHART</b>	
Engineer:			
Size	Project Name	Rev	
Custom	<b>NAPA</b>	2.0	
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FOR POWER TEST



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Revision History

V1.0 to V1.1

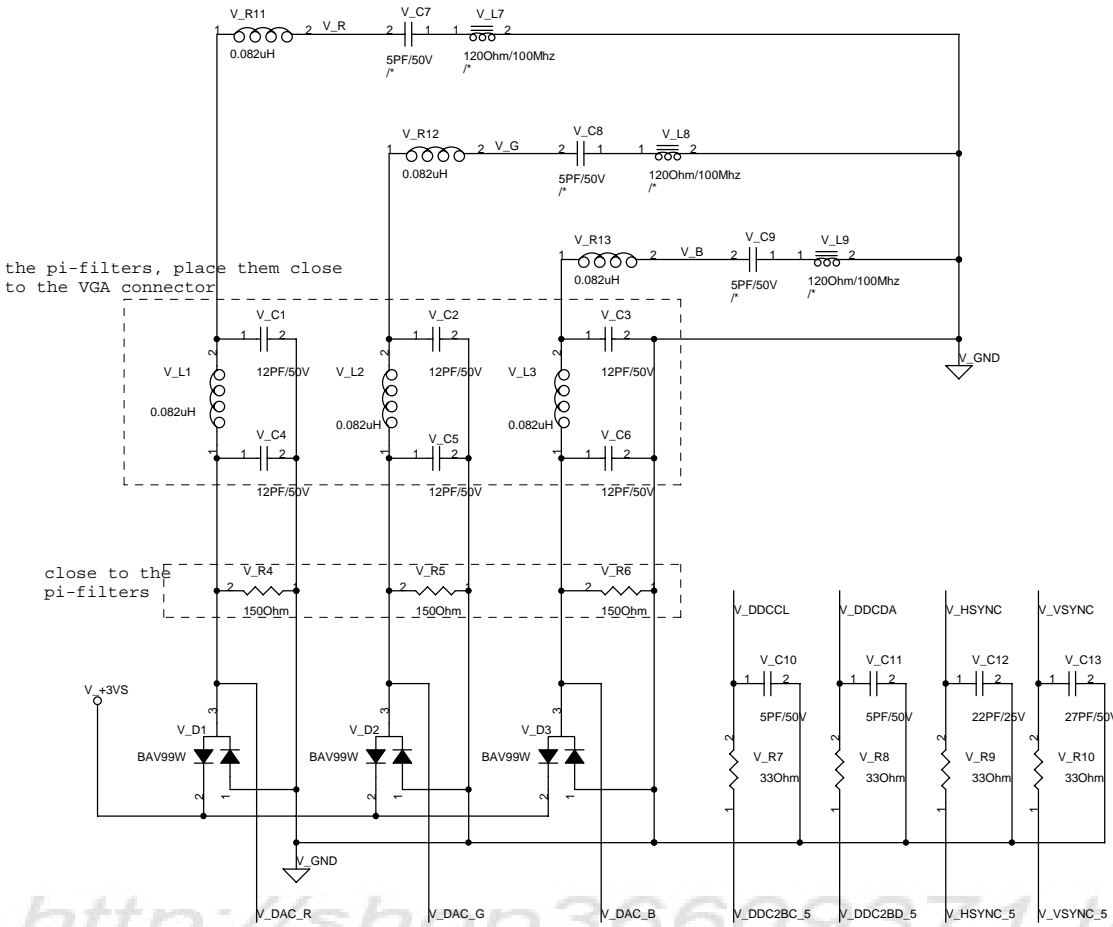
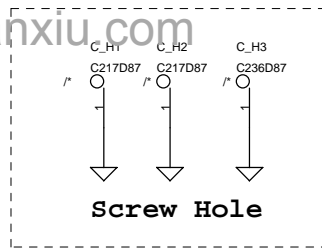
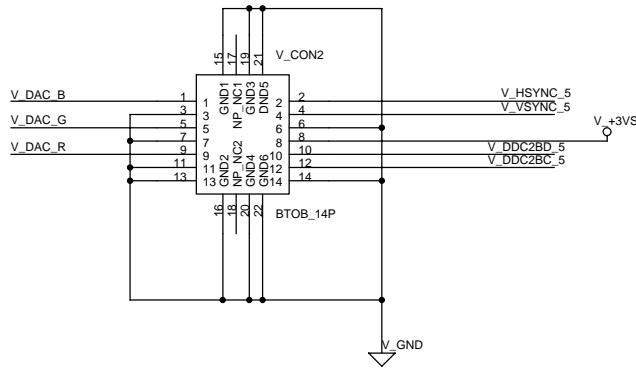
1. D58 change from DAP202 to lss355
2. Panel detection chagne from PID to EDID method.
3. Reserve panel dectection by PID method.
4. Tuning power sequence by power circuitry.
5. TP\_MA\_RCVEN\* net can't connect with TP\_MB\_RCVEN\*, so cut it.
6. CPU address A14 and A15 is swap for booting.
7. Populate R6347 = R6348 =120 Ohm by nVIDIA recommend.
8. Change VGA chip from G72M-V to G72M, so change device ID strapping.
9. CHG\_FULLL\_OC net has doubled pull-up to +3vs and +3vsus, so remove +3vsus pull-up for leakage.
10. CLK\_EN# pull-up to +3vs will has leakage current from cpu vcore controller. so remove it.
11. Lan chip reset signal has leakage current output to system reset signal, so add D6006 to solve it.
12. +1.5VS power trace is too small from source to calistoga IC, so increase trace width.
13. Remove R639 because system has no shutdown signal from POWER.
14. R638 change to 200k and C698 change to 1uF for power on button feeling.
15. CFG18, 16, 15 has wrong connection, correct it.
16. C138=C139=22pF for tunning 14.318MHz crystal freauency.
17. RN15 pin 2 pull-up power change from +3V to +3VS for solving leakage current at S3 state.
18. Change audio circuitry for solving pop noise.
19. Change pci-express decoupling caps from 0.1uF/Y5V to 0.1uF/X5R.
20. Microphone pull-up power source change to OP AMP generate.
21. R287=0 Ohm and R290 remove for G72M need +3VS level input about 27MHz spread spectrum input pin.
22. MAX6649 be used on G72M has wrong connection, so correct it.
23. Populate R574=0 Ohm for XD card work fine.
24. Remove R6360, R6361, R6358, R6359 for JTAG pin pull-up/down on G72M.
25. Populate C563, C566 for improve microphone quality.
26. Add D6008 for PM\_RSMRST# discharge quickly.
27. Tunning C141-C146, R128, C490 value base on EVT report about clk signal quality issue.
28. Add ODD disable function support.

V1.1 to V2.0

1. Calistoga CRT disable guide change, so IREF pin connect to power directly.
2. Add circuitry for newcard disable support.
3. R381 change to 1K Ohm for ODD disable support.
4. Reserve newcard type debug card support circuitry.
5. Add mini card type debug card support circuitry.
6. MAX6649 be used on G72M change to MAX6657.
7. Add TPM connector debug card support.
8. The reset signal of lan chip pull-down 10K Ohm.
9. RTCRST# delay time control add diode for quick discharge.
10. Populate R6351, C? for solving led will flash once when system power on.
11. Add usb spring and beas on agnd and dgnd for EMI request.
12. Disable audio jack sense feature.
13. Add Q6130 for 1HZ Flash

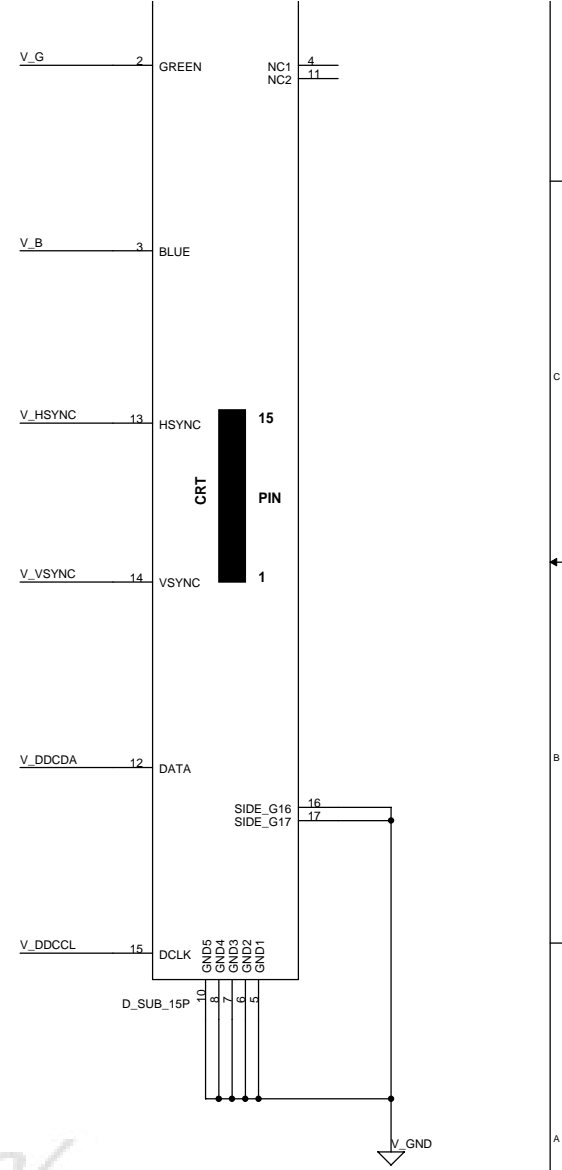
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ASUS PROJECT: V6J	REVISION	DATE: Friday, November 25, 2005	DESCRIPTION:	SCHMATIC FILE NAME :	<OrgName>	DESIGN ENGINEER :
	2.0	SHEET 61 OF 63	Content	RELEASE DATE :		Feng Lin

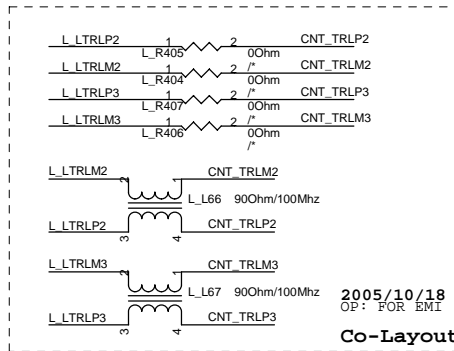
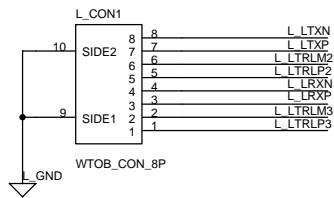
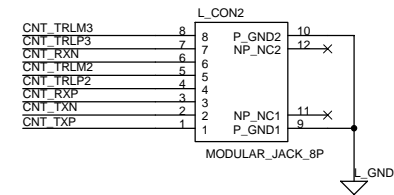
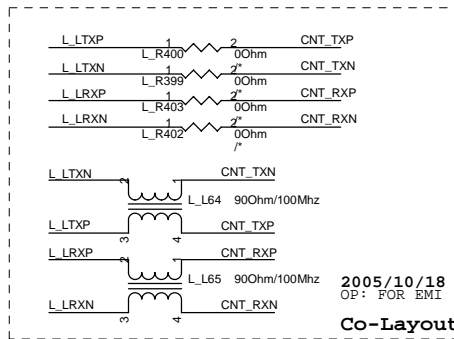
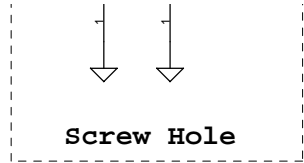
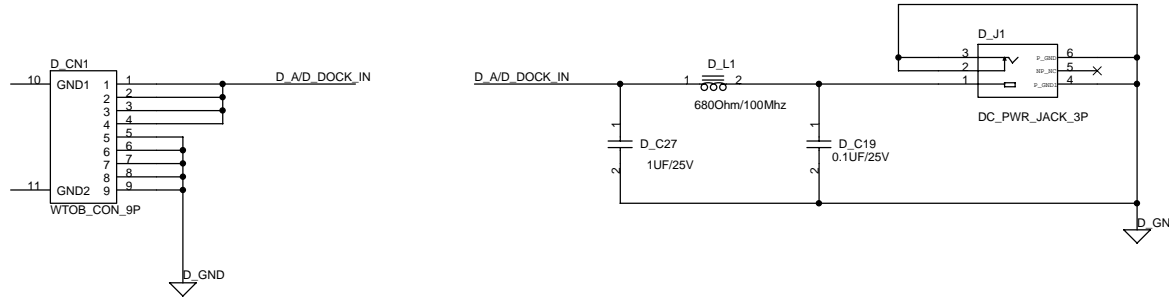


the pi-filters, place them close to the VGA connector

close to the pi-filters



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