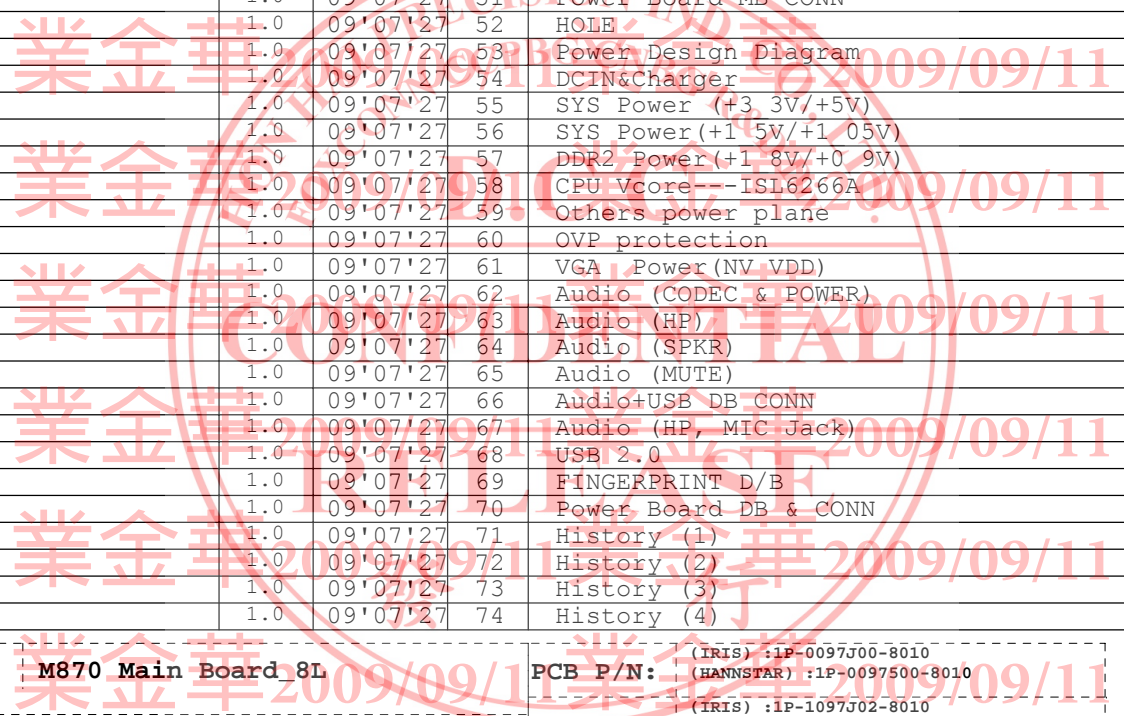


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04	Penryn(HOST BUS) 2/3	1.0	09'07'27	41	Marvell GLAN(88E8057)	1.0	09'07'27
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06	CLOCK GEN	1.0	09'07'27	43	Audio+USB MB CONN	1.0	09'07'27
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09	Cantiga (GRAPHIC) 3/7	1.0	09'07'27	46	PCIE (MS&SD)	1.0	09'07'27
10	Cantiga (DDR2) 4/7	1.0	09'07'27	47	CAMERA	1.0	09'07'27
11	Cantiga (POWER,VCC) 5/7	1.0	09'07'27	48	USB2.0	1.0	09'07'27
12	Cantiga (VCC CORE) 6/7	1.0	09'07'27	49	Bluetooth	1.0	09'07'27
13	Cantiga (VSS) 7/7	1.0	09'07'27	50	LED & T/P & LID	1.0	09'07'27
14	DDR2(SO-DIMM 0) 1/2	1.0	09'07'27	51	Power Board MB CONN	1.0	09'07'27
15	DDR2(SO-DIMM 1) 2/2	1.0	09'07'27	52	HOLE	1.0	09'07'27
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17	VGA (PCI-E BUS) Strap 2/9	1.0	09'07'27	54	DCIN&Charger	1.0	09'07'27
18	VGA(GDDR) # 3/9	1.0	09'07'27	55	SYS Power (+3.3V/+5V)	1.0	09'07'27
19	VGA(GDDR) # 4/9	1.0	09'07'27	56	SYS Power (+1.5V/+1.05V)	1.0	09'07'27
20	VGA (CRT) 5/9	1.0	09'07'27	57	DDR2 Power(+1.8V/+0.9V)	1.0	09'07'27
21	VGA (LVDS/TMDS) 6/9	1.0	09'07'27	58	CPU Vcore---ISL6266A	1.0	09'07'27
22	VGA (XTAL/GPIO) 7/9	1.0	09'07'27	59	Others power plane	1.0	09'07'27
23	VGA (INTER DISPLAY) 8/9	1.0	09'07'27	60	OVP protection	1.0	09'07'27
24	VGA (POWER/GROUND) 9/9	1.0	09'07'27	61	VGA Power (NV VDD)	1.0	09'07'27
25	VRAM (GDDR3) 1/2	1.0	09'07'27	62	Audio (CODEC & POWER)	1.0	09'07'27
26	VRAM (GDDR3) 2/2	1.0	09'07'27	63	Audio (HP)	1.0	09'07'27
27	VRAM (BYPASS) 1/2	1.0	09'07'27	64	Audio (SPKR)	1.0	09'07'27
28	VRAM (BYPASS) 2/2	1.0	09'07'27	65	Audio (MUTE)	1.0	09'07'27
29	CRT	1.0	09'07'27	66	Audio+USB DB CONN	1.0	09'07'27
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31	HDMI	1.0	09'07'27	68	USB 2.0	1.0	09'07'27
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34	ICH9-M (GPIO) 3/5	1.0	09'07'27	71	History (1)	1.0	09'07'27
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37	EC+KBC (WPCE775L)	1.0	09'07'27	74	History (4)	1.0	09'07'27



Project Code & Schematics Subject: M870 Main Board 8L

PCB P/N: (IRIS) :1P-0097J00-8010
 (HANNSTAR) :1P-0097500-8010
A/B P/N: (IRIS) :1P-1097J02-8010
 (HANNSTAR) :1P-1097500-8010
FU/B P/N: (IRIS) :1P-1097J00-8010
 (HANNSTAR) :1P-1097503-8010
Ch/B P/N: (IRIS) :1P-1097J01-8010
 (HANNSTAR) :1P-1097501-8010
 (IRIS) :1P-1097J03-8010
FP/B P/N: (HANNSTAR) :1P-1097502-8010

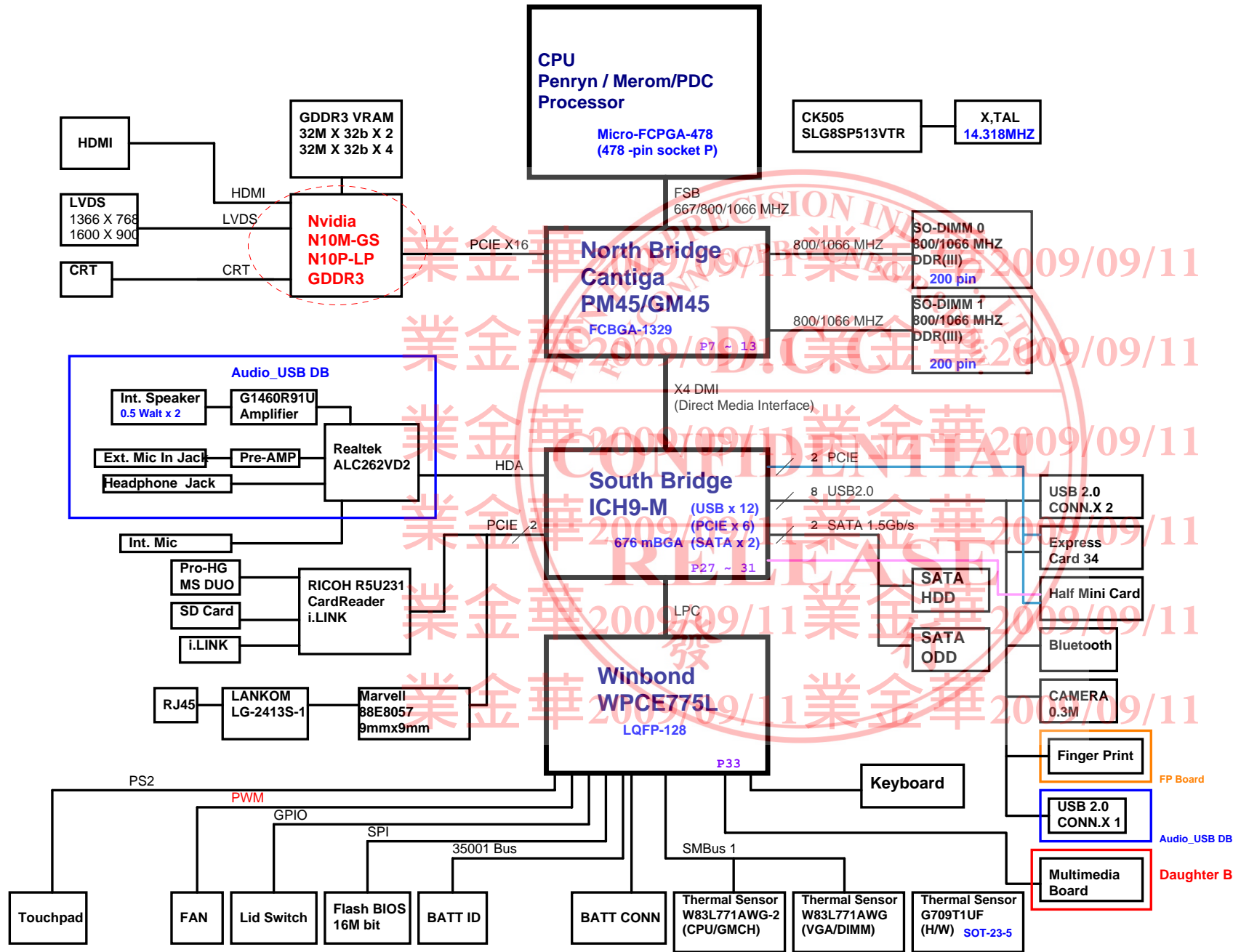
<http://www.fangyuannb.com> <http://shop63900485.taobao.com>

P. Leader	Check by	Design by
FOXCONN HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division		
Title Index Page		
Size Custom	Document Number M870-1-01	Rev 1.0
Date:	Monday, July 27, 2009	Sheet 1 of 75

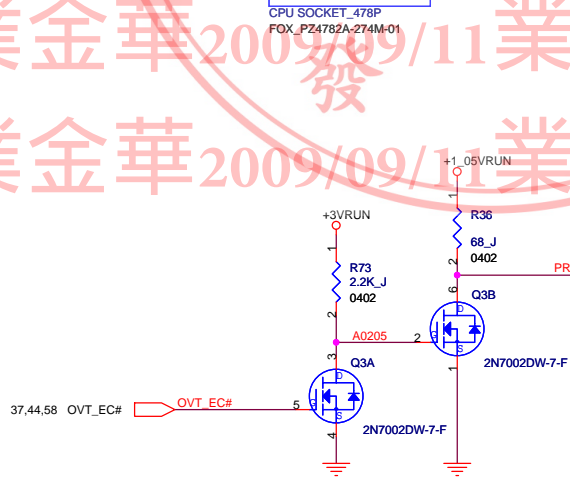
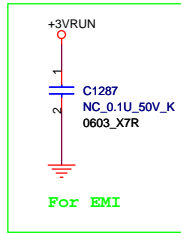
M870(Montevina + N10M/N10P-LP)

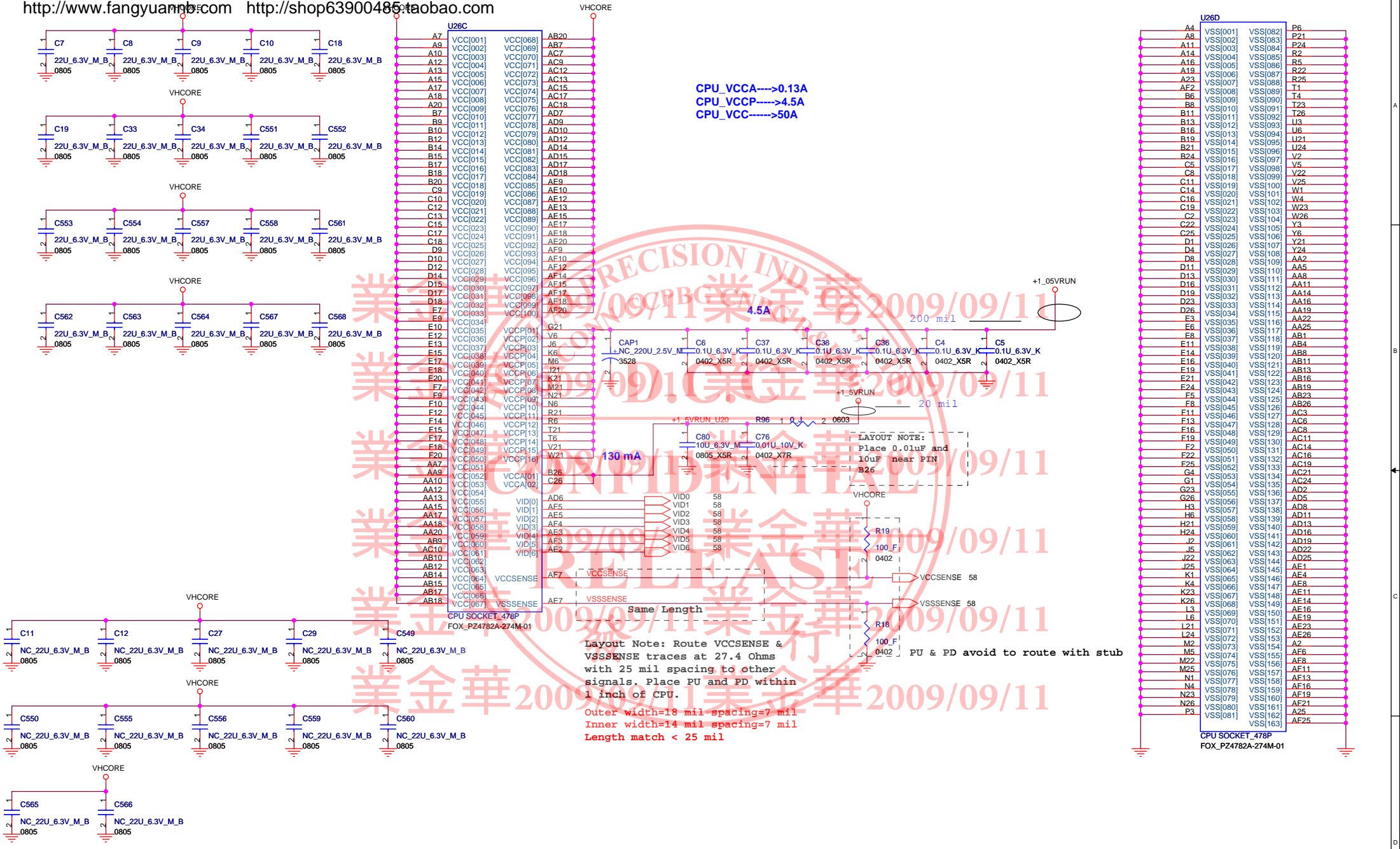
http://www.fangyuannb.com http://shop63900485.taobao.com

TI CHARGER BQ24753 P.54	
OUTPUTS	
DC_IN	BT+ DCBATOUT
SYSTEM DC/DC MAX17020ETJ+ P.55	
INPUTS	OUTPUTS
DCBATOUT	+5VALW +5VALW_LDO +3VALW +ECVCC +12V
SYSTEM DC/DC SC412 P.56	
INPUTS	OUTPUTS
DCBATOUT	+1_5VRUN +1_05VRUN
SYSTEM DC/DC SC412+G2998 P.57	
INPUTS	OUTPUTS
DCBATOUT	+1_8VSUS +0_9VRUN
CPU DC/DC ISL6266A P.58	
INPUTS	OUTPUTS
DCBATOUT	VHORE
SYSTEM DC/DC SC411+APL5913 P.61	
INPUTS	OUTPUTS
DCBATOUT	NV_VDD +1_5VRUN PEX_VDD



7 H_AA#[3..35]





CPU_VCCA---->0.13A
 CPU_VCCP---->4.5A
 CPU_VCC---->50A

130 mA

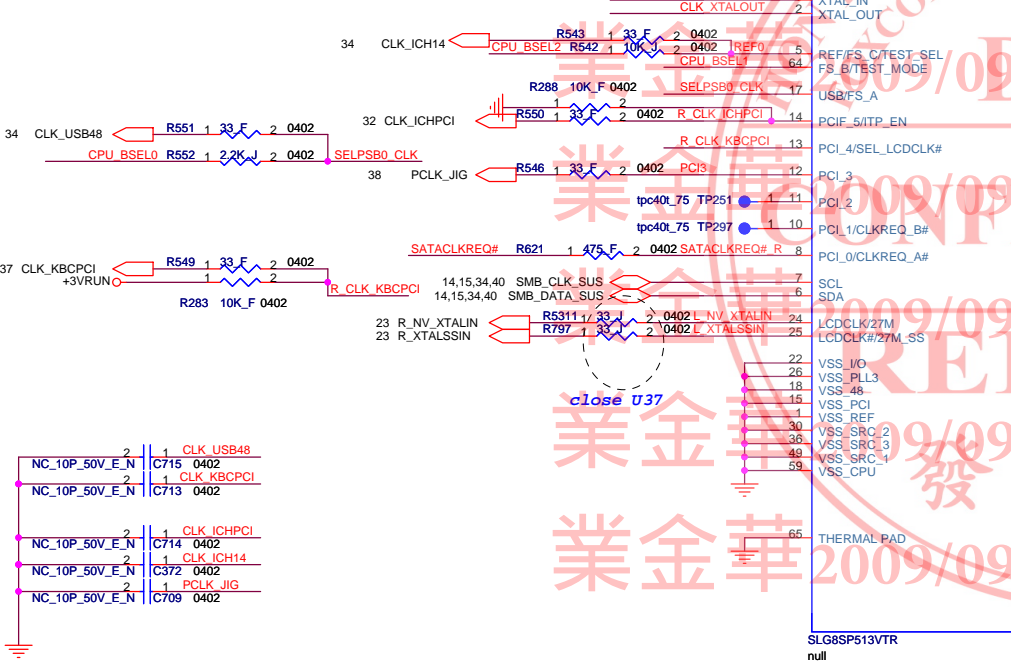
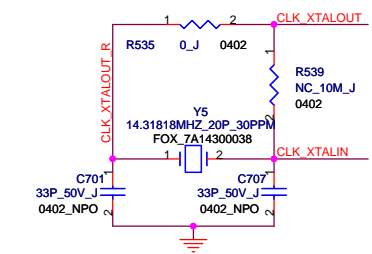
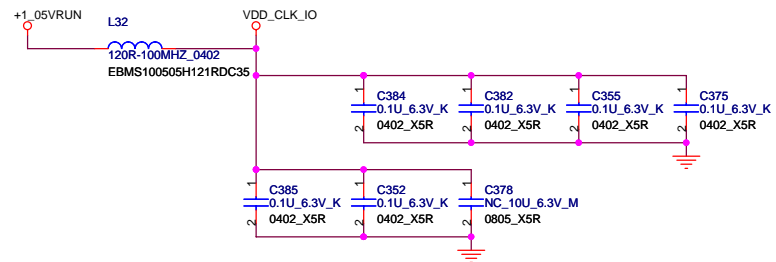
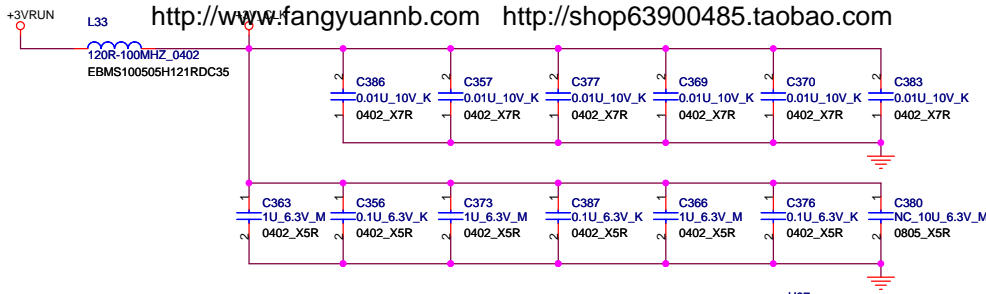
Same Length

Layout Note: Route VCCSENSE & VSSSENSE traces at 27.4 Ohms with 25 mil spacing to other signals. Place PU and PD within 1 inch of CPU.

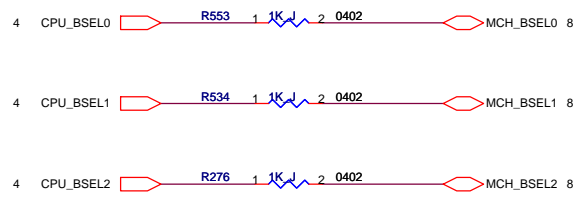
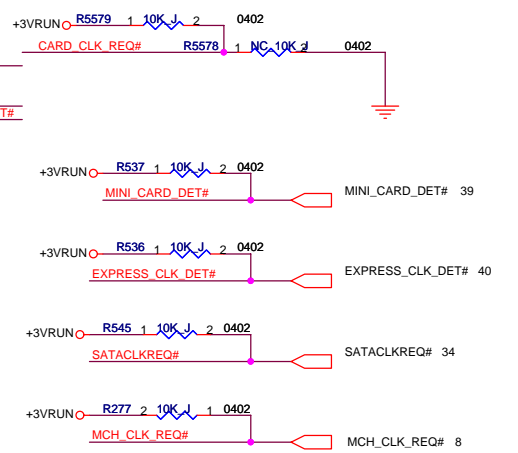
Outer width=18 mil spacing=7 mil
 Inner width=14 mil spacing=7 mil
 Length match < 25 mil

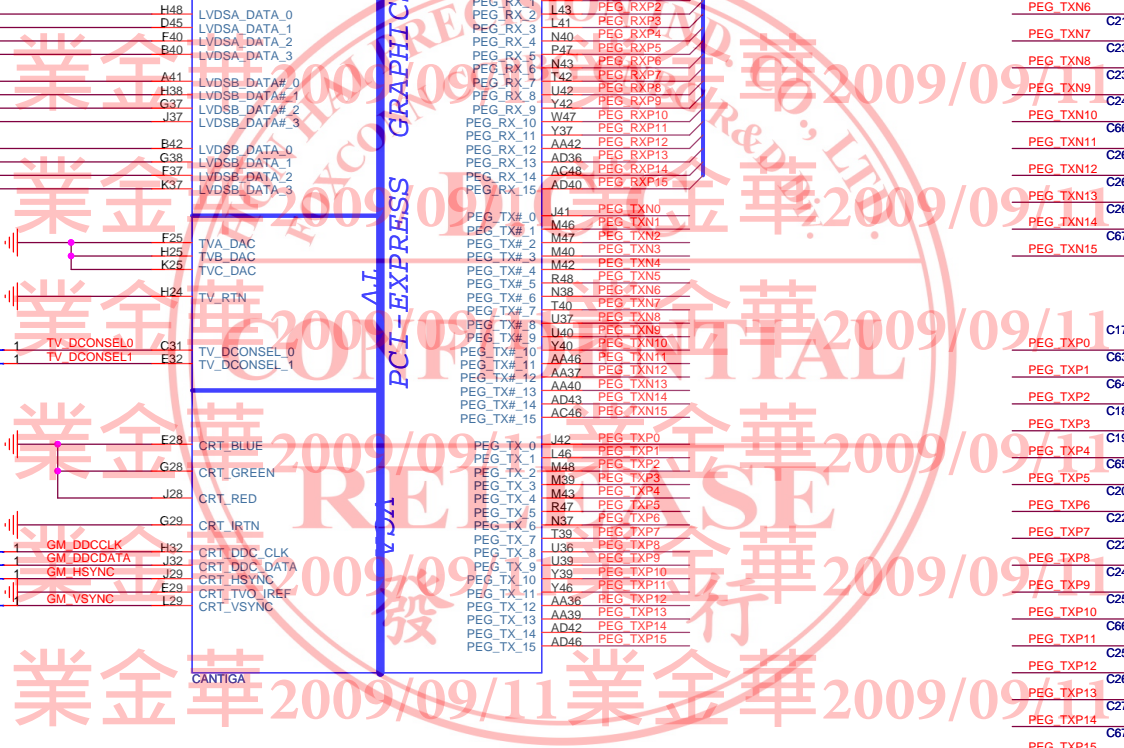
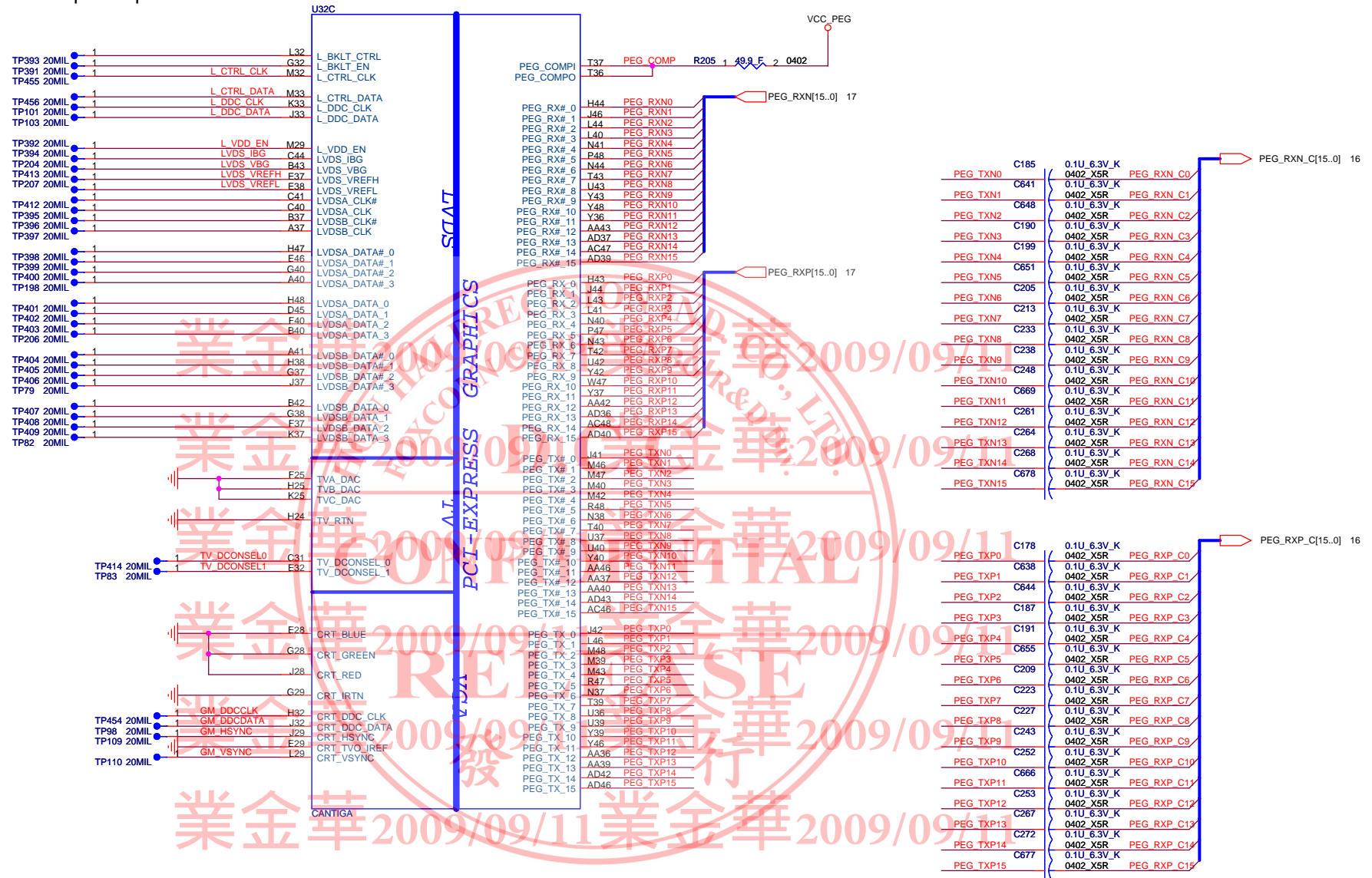
LAYOUT NOTE:
 Place 0.01uF and 10uF near PIN B26

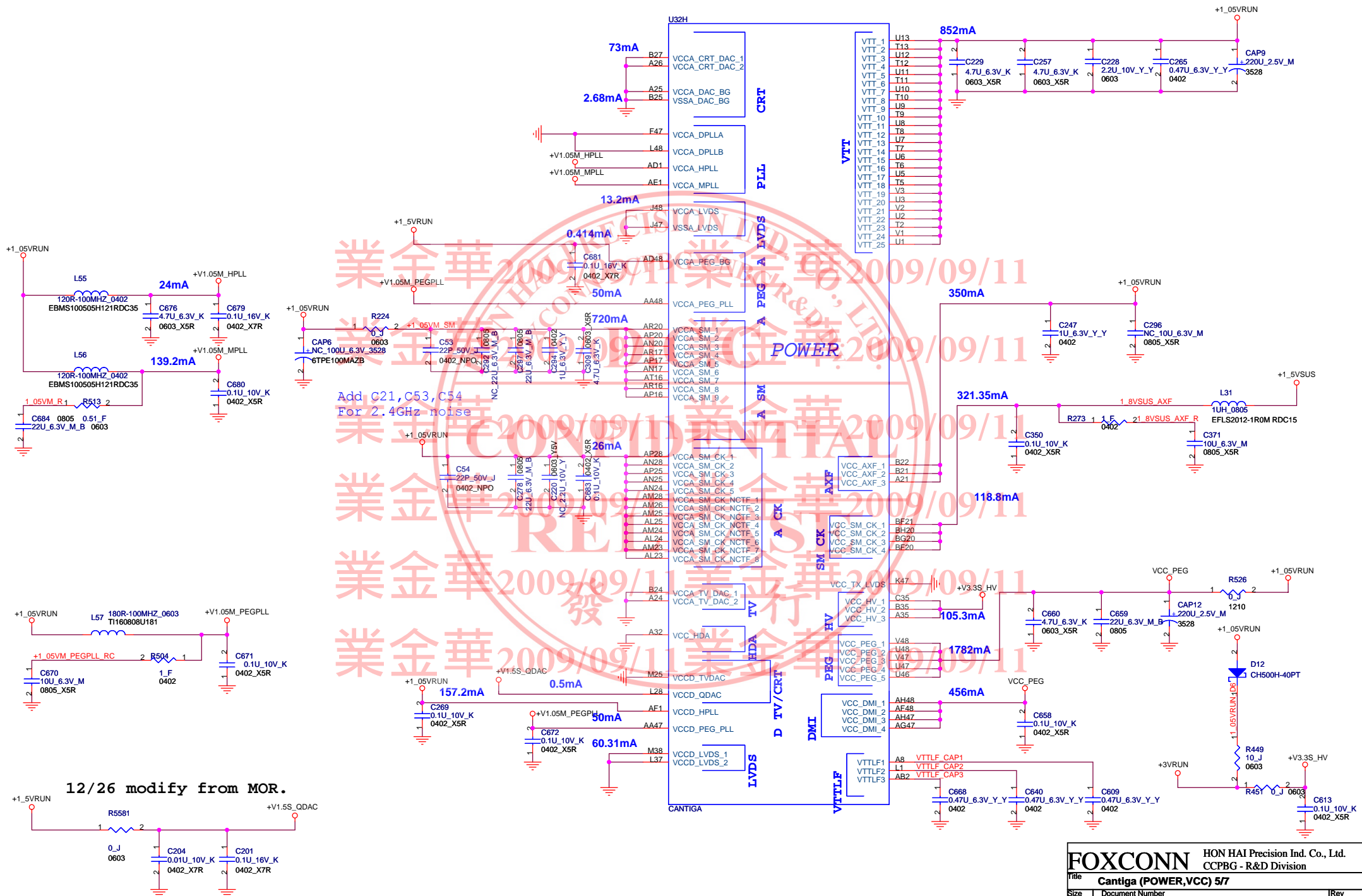
PU & PD avoid to route with stub

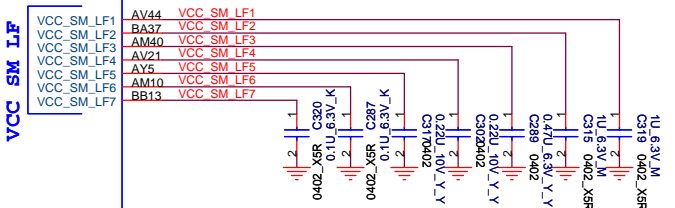
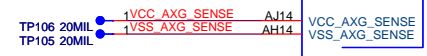
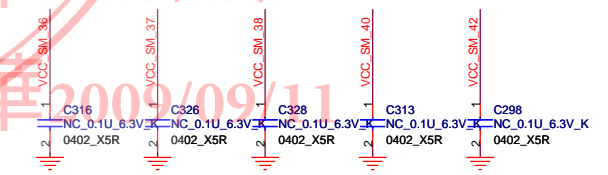
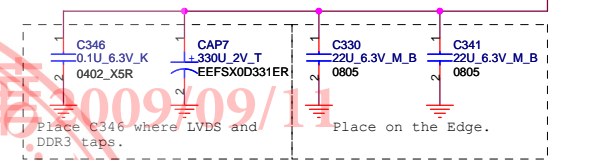
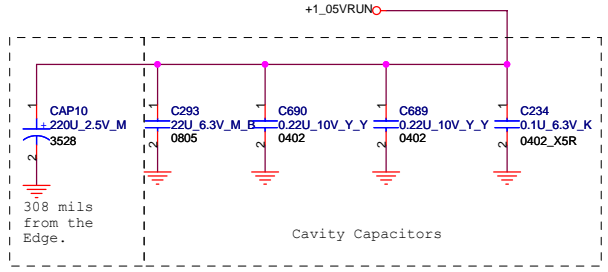
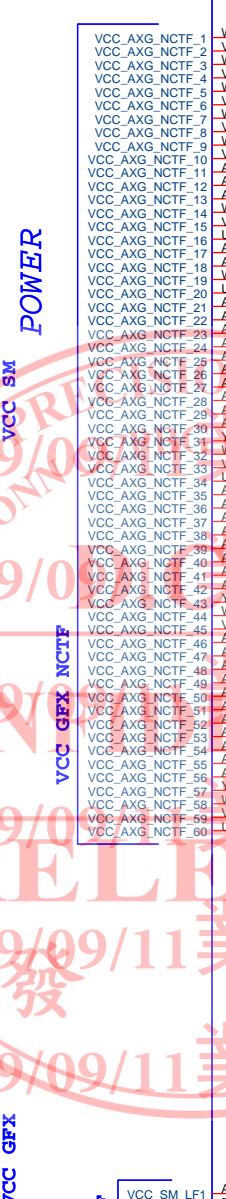
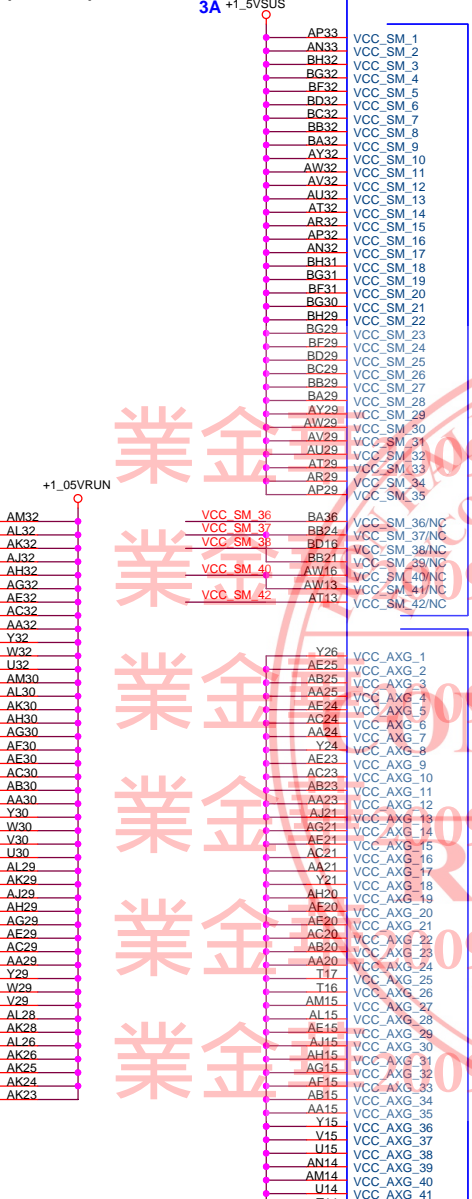
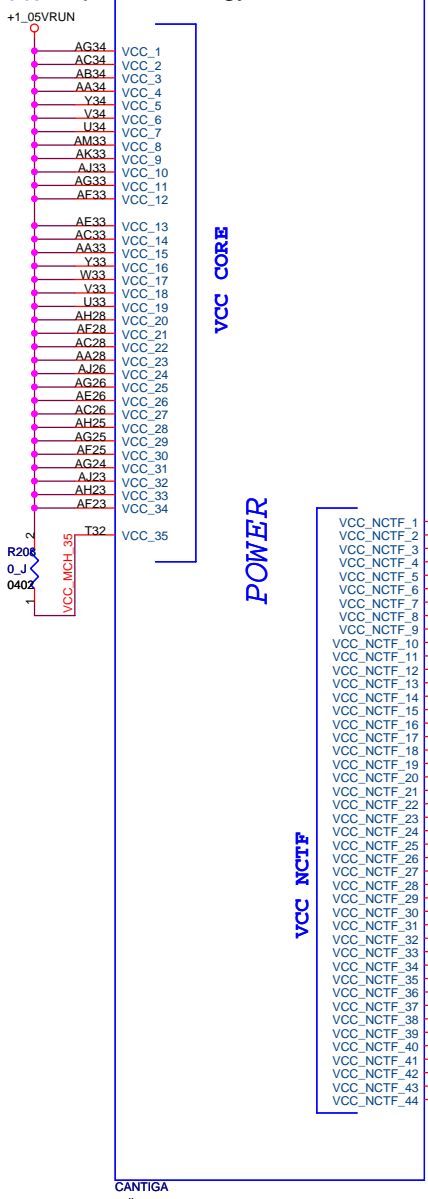


Clock Request	Clock Request Function
CR#A	SATACLKREQ#
CR#B	NC
CR#C	NC
CR#D	NC
CR#E	MINI_CARD_DET#
CR#F	EXPRESS_CLK_DET#
CR#G	MCH_CLK_REQ#
CR#H	CARD_CLK_REQ#









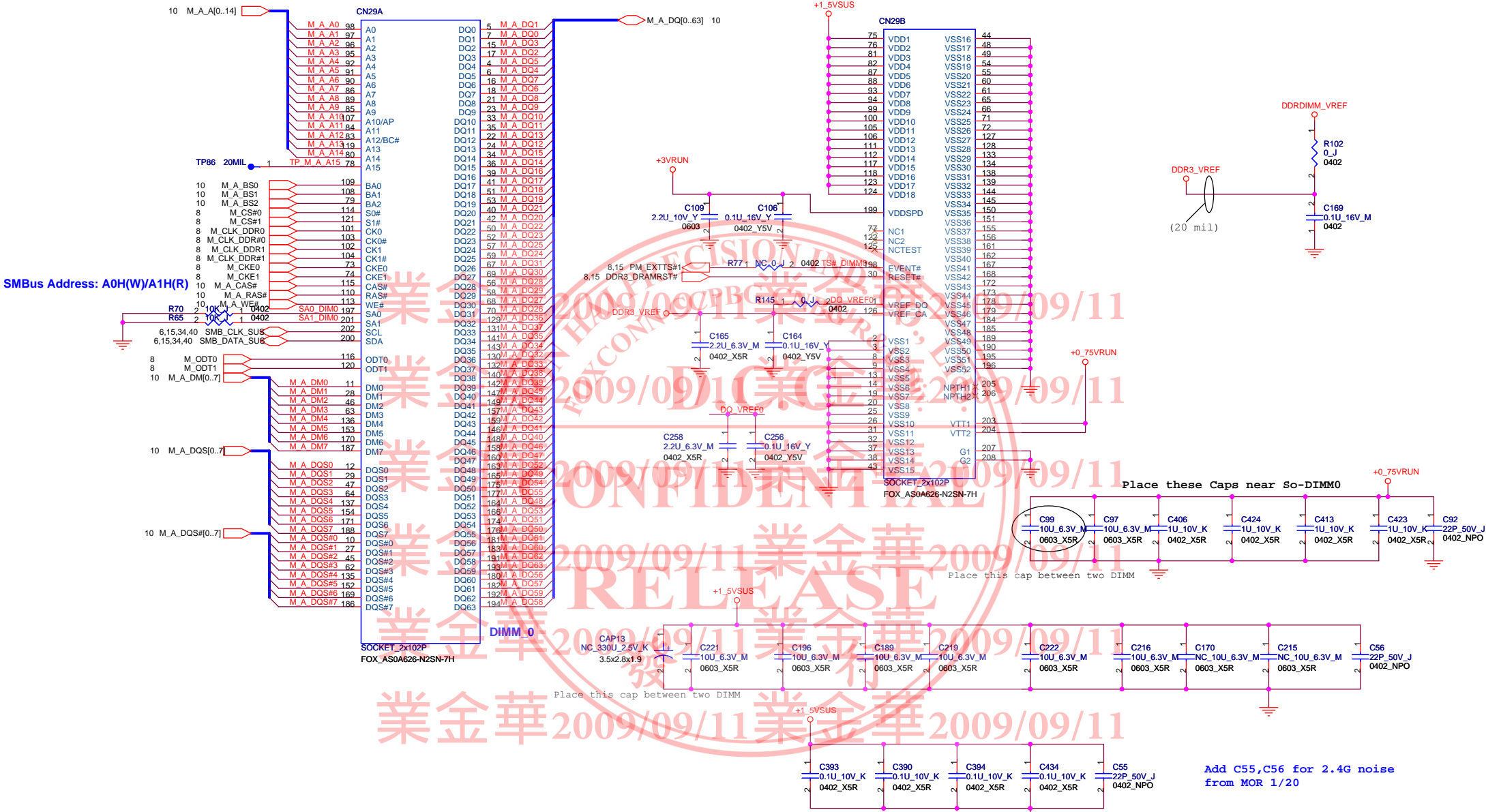
U321		U32J	
AU48	VSS_1	VSS_100	AM36
AR48	VSS_2	VSS_101	AE36
AL48	VSS_3	VSS_102	P36
BB47	VSS_4	VSS_103	L36
AW47	VSS_5	VSS_104	J36
AN47	VSS_6	VSS_105	F36
AM47	VSS_7	VSS_106	AE21
AD47	VSS_8	VSS_107	AB21
AB47	VSS_9	VSS_108	R21
Y47	VSS_10	VSS_109	Y35
T47	VSS_11	VSS_110	J21
L47	VSS_12	VSS_111	T35
G47	VSS_13	VSS_112	BC20
BD46	VSS_14	VSS_113	AM34
BA46	VSS_15	VSS_114	AJ34
AV46	VSS_16	VSS_115	AF34
AR46	VSS_17	VSS_116	AE34
AM46	VSS_18	VSS_117	W34
V46	VSS_19	VSS_118	B34
R46	VSS_20	VSS_119	A34
P46	VSS_21	VSS_120	BG33
H46	VSS_22	VSS_121	BC33
F46	VSS_23	VSS_122	BA33
BF44	VSS_24	VSS_123	AV33
AH44	VSS_25	VSS_124	AR33
AD44	VSS_26	VSS_125	AL33
AA44	VSS_27	VSS_126	AH33
Y44	VSS_28	VSS_127	AB33
U44	VSS_29	VSS_128	BC17
M44	VSS_30	VSS_129	AW17
F44	VSS_31	VSS_130	L33
BC43	VSS_32	VSS_131	H33
AV43	VSS_33	VSS_132	M17
AM43	VSS_34	VSS_133	N32
AR43	VSS_35	VSS_134	K32
C43	VSS_36	VSS_135	F32
BG42	VSS_37	VSS_136	C32
AY42	VSS_38	VSS_137	A31
AT42	VSS_39	VSS_138	AN29
AN42	VSS_40	VSS_139	T29
AE42	VSS_41	VSS_140	AN16
N42	VSS_42	VSS_141	N29
L42	VSS_43	VSS_142	K29
BD41	VSS_44	VSS_143	H29
AU41	VSS_45	VSS_144	F29
AM41	VSS_46	VSS_145	G16
AH41	VSS_47	VSS_146	A29
AD41	VSS_48	VSS_147	BG28
AA41	VSS_49	VSS_148	BD28
Y41	VSS_50	VSS_149	BA28
U41	VSS_51	VSS_150	A15
T41	VSS_52	VSS_151	AV28
M41	VSS_53	VSS_152	AT28
F41	VSS_54	VSS_153	AR28
BC40	VSS_55	VSS_154	AJ28
AV40	VSS_56	VSS_155	AG28
AM40	VSS_57	VSS_156	AE28
AR40	VSS_58	VSS_157	BC13
C40	VSS_59	VSS_158	BA13
BG39	VSS_60	VSS_159	Y28
AY39	VSS_61	VSS_160	P28
AT39	VSS_62	VSS_161	K28
AN39	VSS_63	VSS_162	H28
AA39	VSS_64	VSS_163	F28
Y39	VSS_65	VSS_164	C28
U39	VSS_66	VSS_165	N13
T39	VSS_67	VSS_166	L13
L39	VSS_68	VSS_167	AH26
BH38	VSS_69	VSS_168	E13
BC38	VSS_70	VSS_169	BF12
BA38	VSS_71	VSS_170	AV12
AU38	VSS_72	VSS_171	AM12
AH38	VSS_73	VSS_172	AA12
AD38	VSS_74	VSS_173	AC25
AA38	VSS_75	VSS_174	Y25
Y38	VSS_76	VSS_175	N25
U38	VSS_77	VSS_176	L25
T38	VSS_78	VSS_177	J25
L38	VSS_79	VSS_178	G11
F38	VSS_80	VSS_179	G11
C38	VSS_81	VSS_180	BG10
BF37	VSS_82	VSS_181	AV10
BB37	VSS_83	VSS_182	AT10
AW37	VSS_84	VSS_183	AY24
AN37	VSS_85	VSS_184	AT24
AJ37	VSS_86	VSS_185	AJ24
H37	VSS_87	VSS_186	AH24
G37	VSS_88	VSS_187	M10
BG36	VSS_89	VSS_188	BE9
BD36	VSS_90	VSS_189	BC9
AK15	VSS_91	VSS_190	AN9
AU36	VSS_92	VSS_191	AM9
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			VSS_457
			VSS_458
			VSS_459
			VSS_460
			VSS_461
			VSS_462
			VSS_463
			VSS_464
			VSS_465
			VSS_466
			VSS_467
			VSS_468
			VSS_469
			VSS_470
			VSS_471
			VSS_472
			VSS_473
			VSS_474
			VSS_475
			VSS_476
			VSS_477
			VSS_478
			VSS_479
			VSS_480
			VSS_481
			VSS_482
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			VSS_492
			VSS_493
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			VSS_498
			VSS_499
			VSS_500

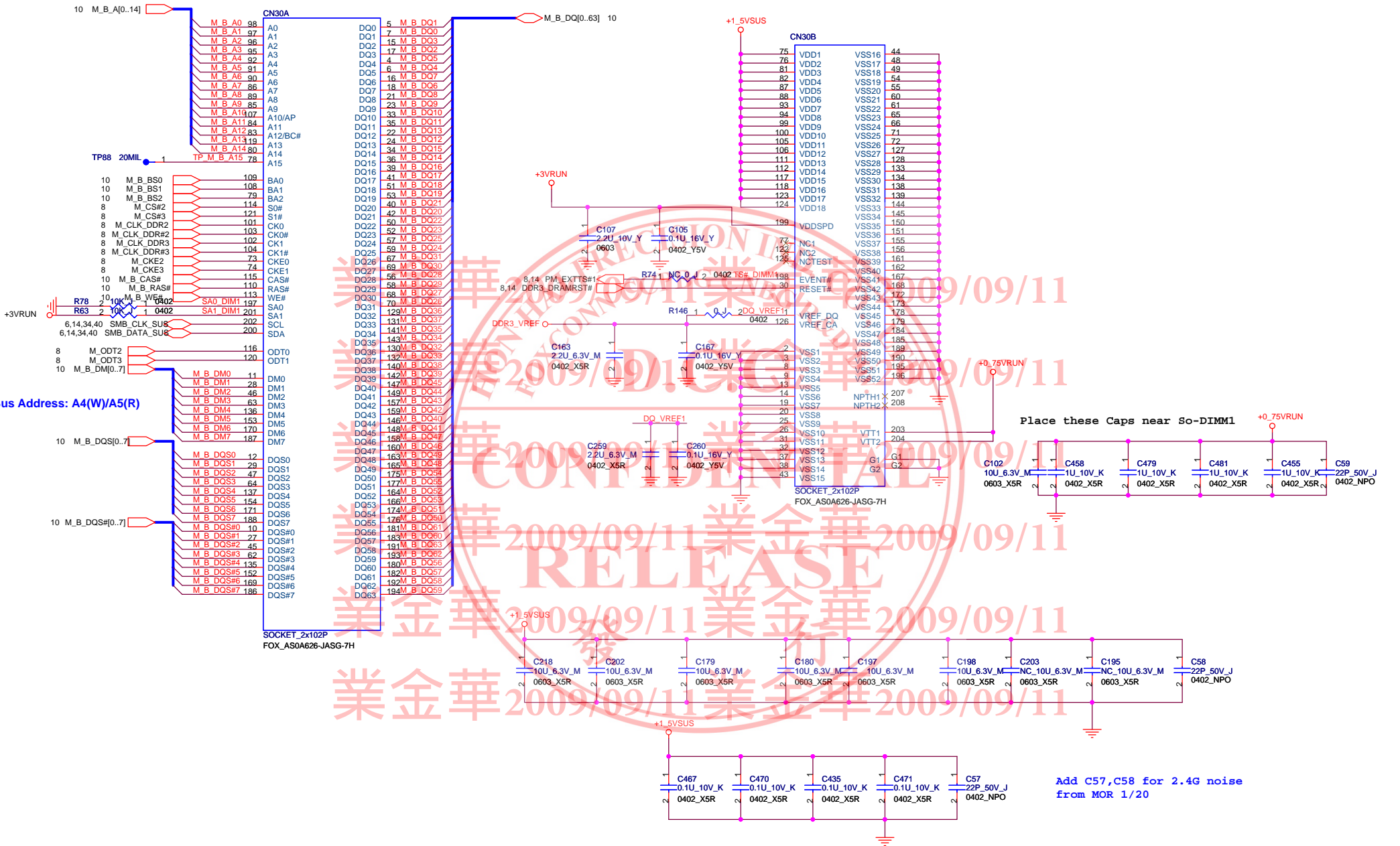
CANTIGA CANTIGA

FOXCONN HON HAI Precision Ind. Co., Ltd.
 CCPBG - R&D Division

Title: **Cantiga (VSS) 777**

Size: A3	Document Number: M870-1-01	Rev: 1.0
Date: Monday, July 27, 2009	Sheet: 13	of: 75

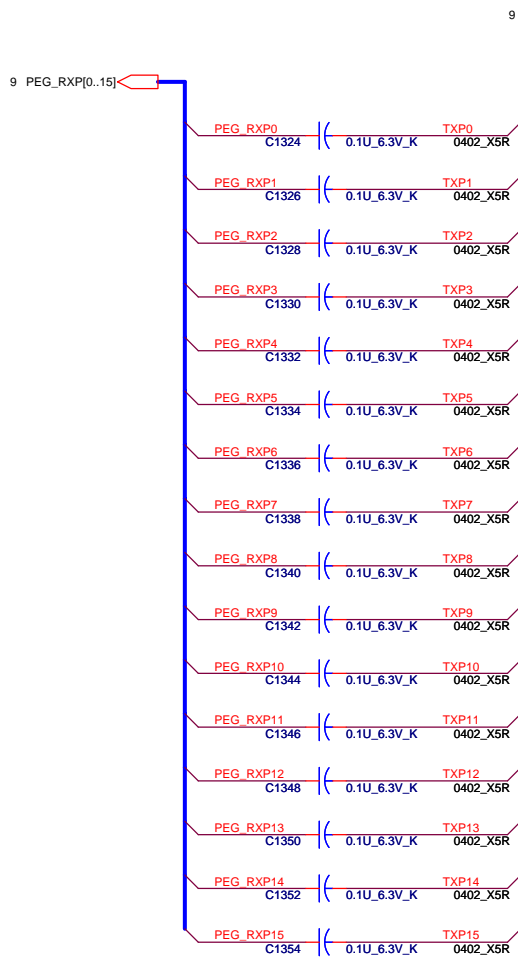




SMBus Address: A4(W)/A5(R)

Place these Caps near So-DIMM1

Add C57,C58 for 2.4G noise from MOR 1/20



```

XCLK_417
0 (27M Hz)
1 (Reserved)
FB_0_BAR_SIZE
0 256MB
1 (Reserved)
SMB_ALT_ADDR
0 0x9E
1 0x9C(multi-GPU usage)
VGA_DEVICE
0 3D device(class code 302h)
1 VGA device(class code 300h)

SUB_VENDOR
0 (No video BIOS ROM)
1 (BIOS ROM is present)

SLOT_CLK_CFG
0 (GPU and MCH not share a common reference clk)
1 (GPU and MCH share a common reference clk)

PEX_PLL_EN_TERM
0 (Disable)
1 (Enable)

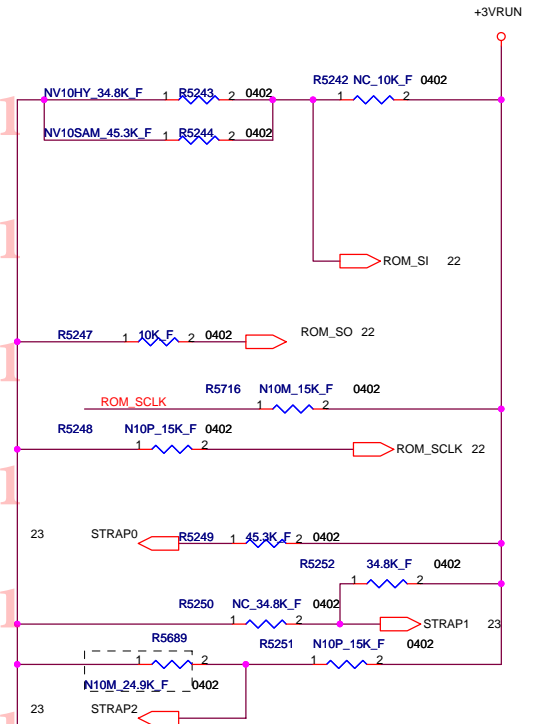
USER[3:0]
1000

N10X_3GIO_PADCFG[3:0]
0110

N10X_PCI_DEVID[3:0]
N10P-LP 1010b
N10M-GS 0100b
PCI_DEVICE_IDS
N10P-LP 0x0A2A
N10M-GS 0x0A74
  
```

```

0000 64-bit Reserved
0010 32Mx32 GDDR3 - 136 ball 64-bit Hynix - 35K pul Low.
0011 32Mx32 GDDR3 - 136 ball 64-bit Samsung- 45K pull Low
  
```



Logical Strap bit Mapping

Resister values	Pull-up to VDD	Pull-down to GND
5KΩ	1000	0000
10KΩ	1001	0001
15KΩ	1010	0010
20KΩ	1011	0011
25KΩ	1100	0100
30KΩ	1101	0101
35KΩ	1110	0110
45KΩ	1111	0111

Strap Options

Physical Strapping pin	Power Rail	Logical Strapping pin3	Logical Strapping pin2	Logical Strapping pin1	Logical Strapping pin0
ROM_SI	+3VRUN	RAMCFG[3]	RAMCFG[2]	RAMCFG[1]	RAMCFG[0]
ROM_SO	+3VRUN	XCLK_417	FB_0_BAR_SIZE	SMB_ALT_ADDR	VGA_DEVICE
ROM_SCLK	+3VRUN	PCI_DEVID[4]	SUB_VENDOR	SLOT_CLK_CFG	PEX_PLL_EN_TERM
STRAP0	+3VRUN	USER[3]	USER[2]	USER[1]	USER[0]
STRAP1	+3VRUN	3GIO_PADCFG[3]	3GIO_PADCFG[2]	3GIO_PADCFG[1]	3GIO_PADCFG[0]
STRAP2	+3VRUN	PCI_DEVID[3]	PCI_DEVID[2]	PCI_DEVID[1]	PCI_DEVID[0]

Refer to <GB1 Family Design Guide DG-03276-001_v01_secured>

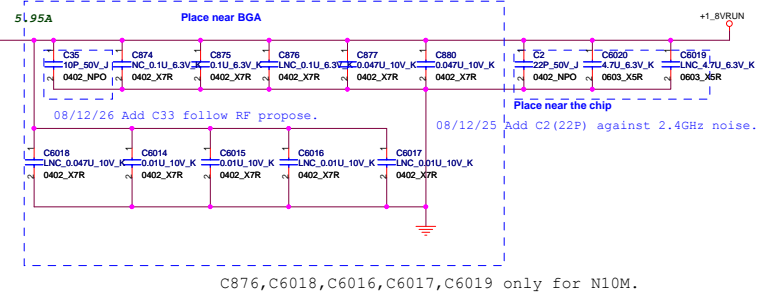
FOXCONN HON HAI PRECISION IND. CO., LTD.
CPBG - R&D Division

Title: **VGA (PCI-EXPRESS/STRAP) 2 OF 9**

Size A3 Document Number **M870-1-01** Rev **1.0**

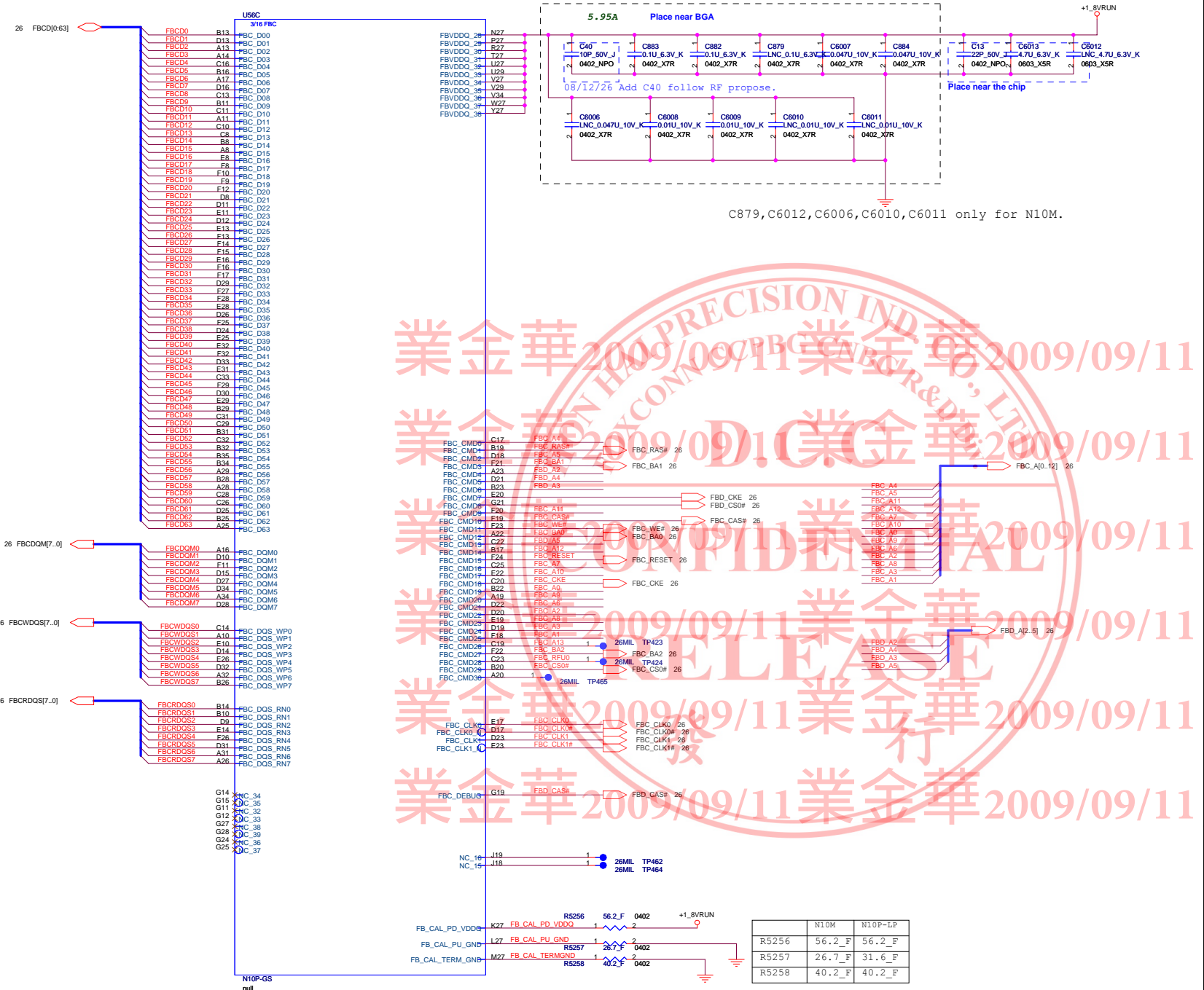
Date: Monday, July 27, 2009 Sheet 17 of 75

Pin	Signal	Component	Value
25	FBAD[0:63]	FBAD0	L32
		FBAD1	N30
		FBAD2	L33
		FBAD3	N34
		FBAD4	N35
		FBAD5	P38
		FBAD6	P33
		FBAD7	K36
		FBAD8	K35
		FBAD9	K33
		FBAD10	K34
		FBAD11	H33
		FBAD12	G34
		FBAD13	E34
		FBAD14	E33
		FBAD15	G31
		FBAD16	G30
		FBAD17	G32
		FBAD18	G32
		FBAD19	K30
		FBAD20	K30
		FBAD21	H30
		FBAD22	K31
		FBAD23	L31
		FBAD24	L30
		FBAD25	M32
		FBAD26	M32
		FBAD27	N30
		FBAD28	M33
		FBAD29	P31
		FBAD30	R32
		FBAD31	R31
		FBAD32	AG30
		FBAD33	AG30
		FBAD34	AG31
		FBAD35	AE31
		FBAD36	AE30
		FBAD37	AE30
		FBAD38	AC32
		FBAD39	AC32
		FBAD40	AN33
		FBAD41	AL31
		FBAD42	AM33
		FBAD43	AL33
		FBAD44	AK31
		FBAD45	AK32
		FBAD46	AL30
		FBAD47	AK30
		FBAD48	AH33
		FBAD49	AK31
		FBAD50	AH34
		FBAD51	AH32
		FBAD52	AM33
		FBAD53	AL32
		FBAD54	AM34
		FBAD55	AM35
		FBAD56	AE33
		FBAD57	AE32
		FBAD58	AE34
		FBAD59	AE35
		FBAD60	AE34
		FBAD61	AE33
		FBAD62	AC32
		FBAD63	AC32



Pin	Signal	Component	Value
25	FBADQM[7..0]	FBADQM0	P32
		FBADQM1	H36
		FBADQM2	R35
		FBADQM3	P30
		FBADQM4	AL32
		FBADQM5	AL32
		FBADQM6	AL33
		FBADQM7	AC33
		FBADQM8	AC33
		FBADQM9	AC33
		FBADQM10	AC33
		FBADQM11	AC33
		FBADQM12	AC33
		FBADQM13	AC33
		FBADQM14	AC33
		FBADQM15	AC33
		FBADQM16	AC33
		FBADQM17	AC33
		FBADQM18	AC33
		FBADQM19	AC33
		FBADQM20	AC33
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		FBADQM22	AC33
		FBADQM23	AC33
		FBADQM24	AC33
		FBADQM25	AC33
		FBADQM26	AC33
		FBADQM27	AC33
		FBADQM28	AC33
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		FBADQM74	AC33
		FBADQM75	AC33
		FBADQM76	AC33
		FBADQM77	AC33
		FBADQM78	AC33
		FBADQM79	AC33
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		FBADQM98	AC33
		FBADQM99	AC33
		FBADQM100	AC33



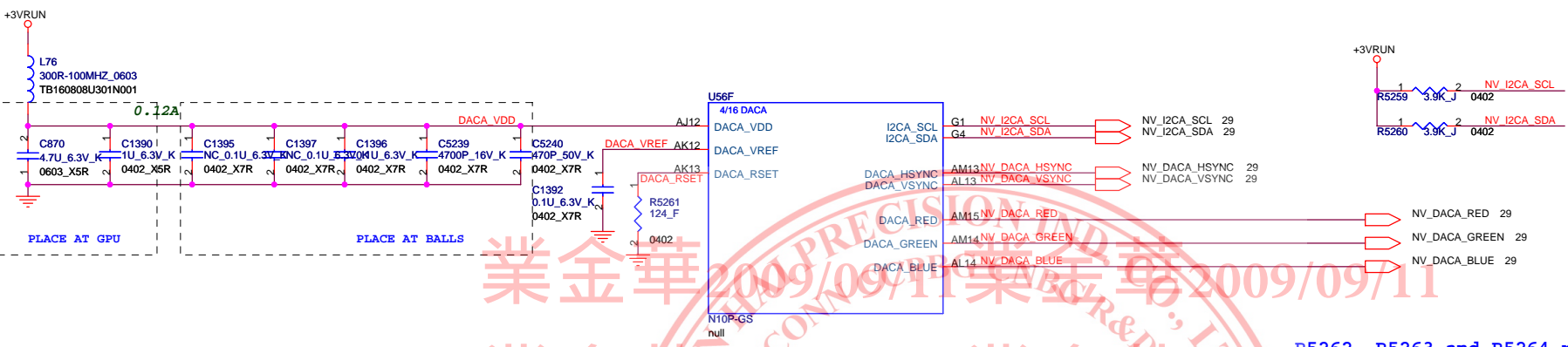


C879,C6012,C6006,C6010,C6011 only for N10M.

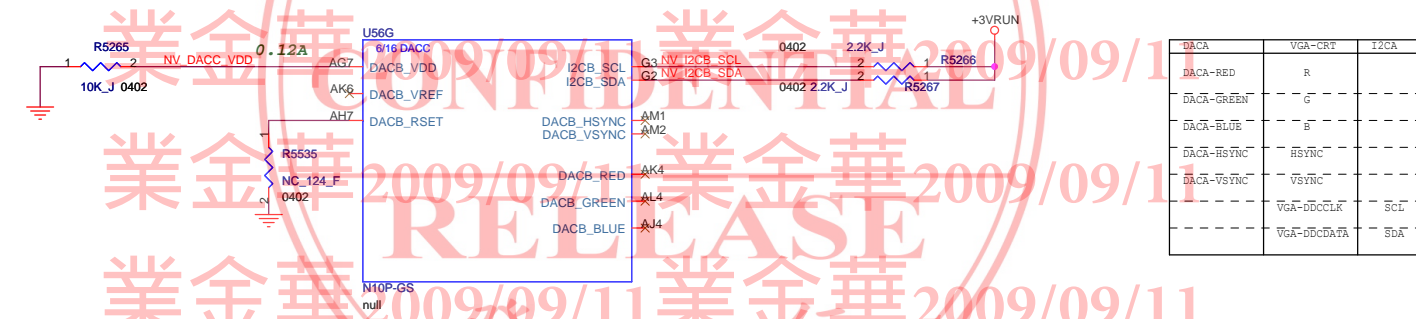


	N10M	N10P-LP
R5256	56.2_F	56.2_F
R5257	26.7_F	31.6_F
R5258	40.2_F	40.2_F

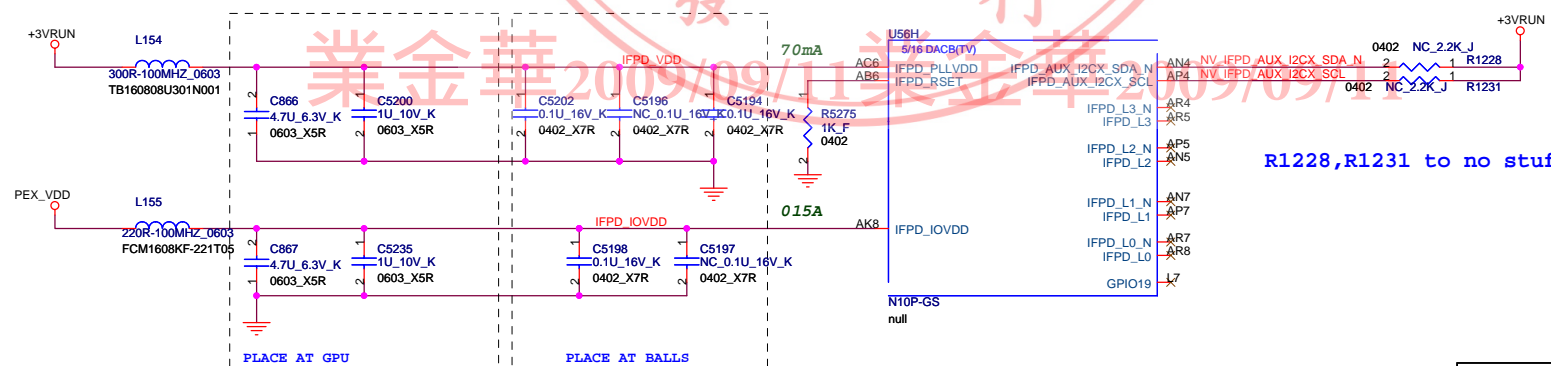
Place components close to the GPU



R5262, R5263 and R5264 remove ---MOR 2/27



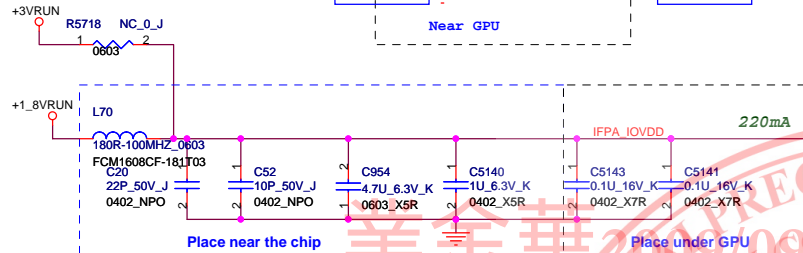
DACA	VGA-CRT	I2CA
DACA-RED	R	
DACA-GREEN	G	
DACA-BLUE	B	
DACA-HSYNC	Hsync	
DACA-VSYNC	Vsync	
	VGA-DDCLK	SC1
	VGA-DDC2DATA	SdA



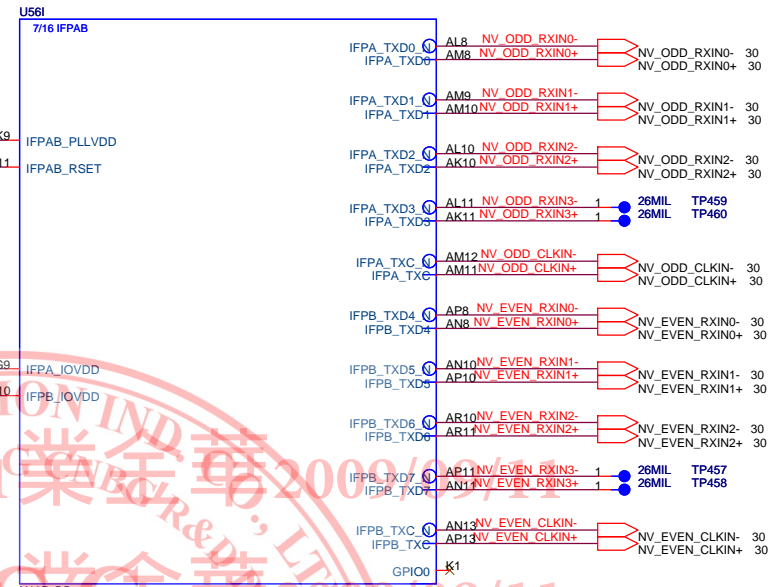
R1228, R1231 to no stuff ---MOR 5/25

08/12/26 Add C51,C52 10p follow RF propose.

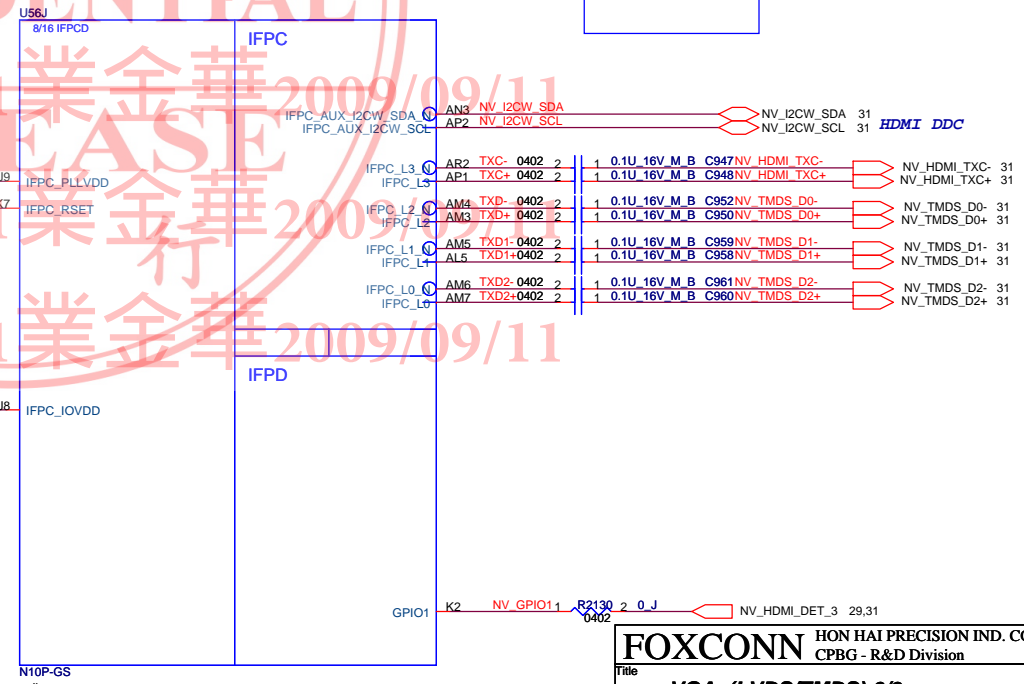
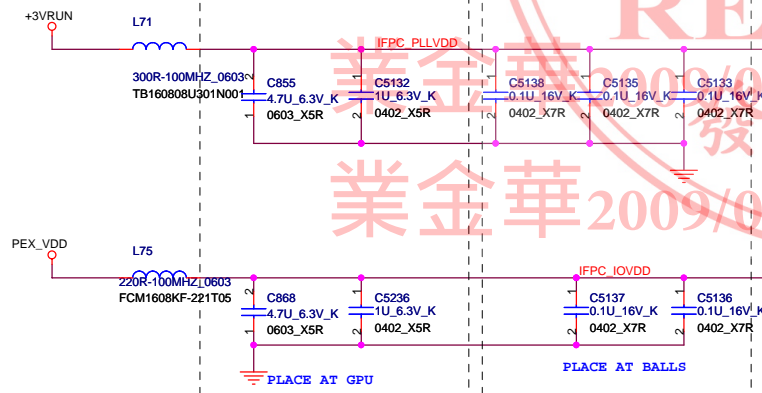
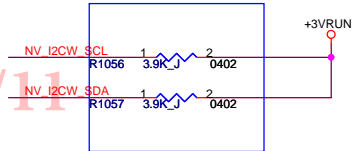
09/02/05 Reserve +3VRUN for IOVDD from MOR.

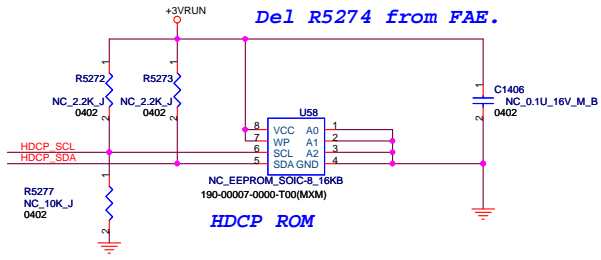


08/12/25 Add C20,C22 against 2.4GHz noise.

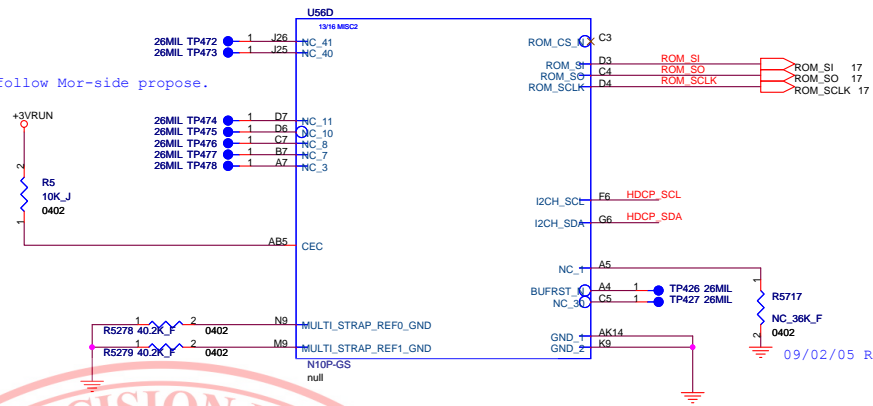


08/12/22 Change R1056,R1057 from 2.2K to 3.9K follow Mor-side propose.

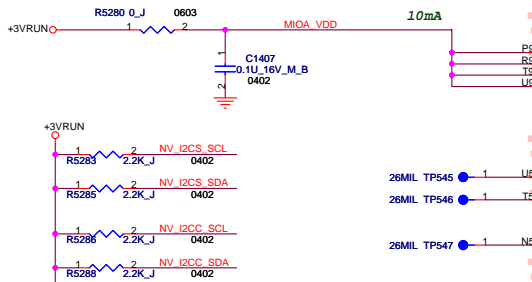




08/12/26 Add R5 follow Mor-side propose.



09/02/05 Reserve R5717 follow Mor-side propose.

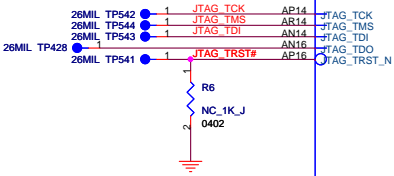
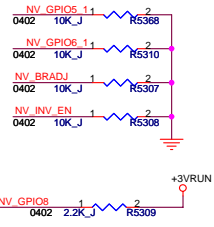


12/30 Remove the components for MIOx_CAL and MIOX_VREF. From FAE suggestion.

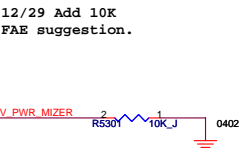


GPIO	I/O	Internal pull low	GPIO TABLE
GPIO0	I	YES	
GPIO1	I	Yes	HDMI Hot Plug Detect 0 (HPD0) Active High
GPIO2	I	Yes	LCD BL Brightness (LCD0_BL_PWM) Active High
GPIO3	O	No	Panel Power (LCD0_VDD) Active High
GPIO4	O	Yes	LCD Backlight enable (LCD0_BL_EN) Active High
GPIO5	O	Yes	FOR Power Control NVDD 0.95V/1.05V Active High
GPIO6	O	No	reserve for NVDD adjust.
GPIO8	O	No	reserve for reset EC
GPIO9	I	No	System Power Limit Alert Input Active Low

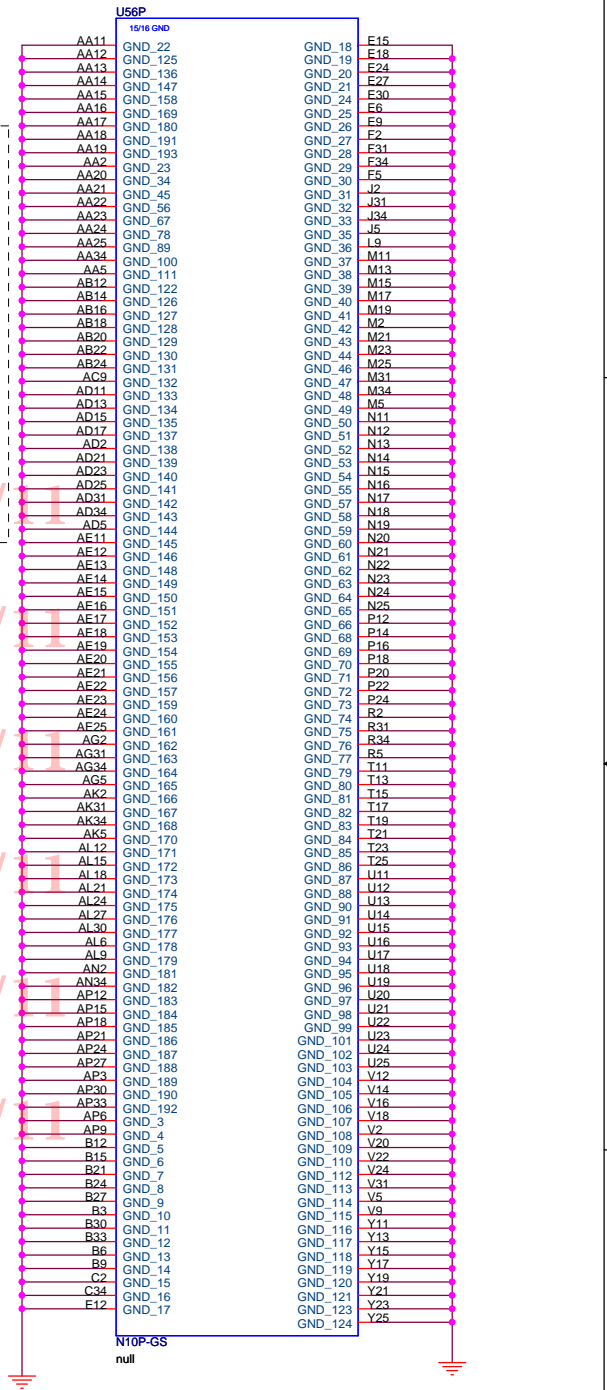
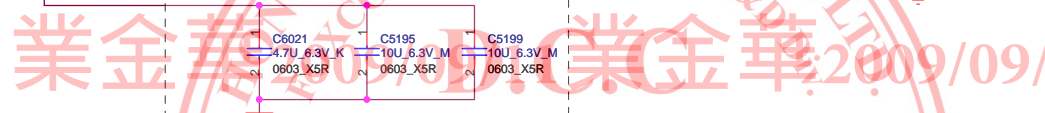
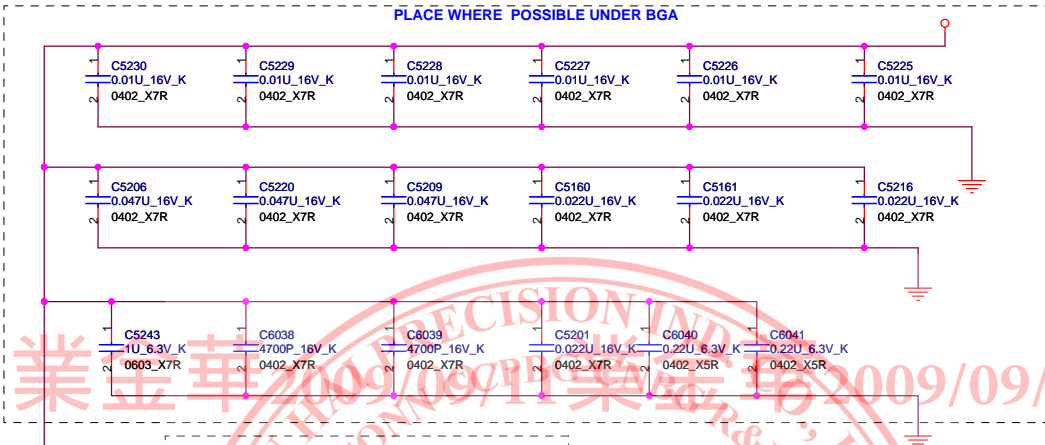
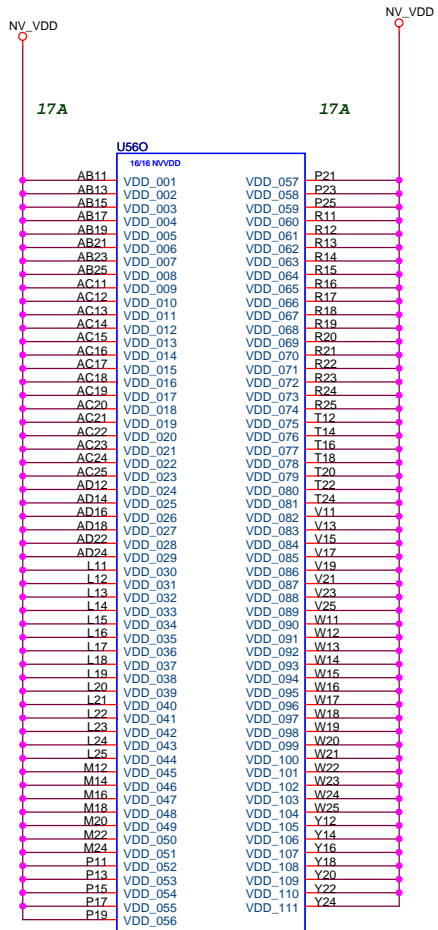
12/29 Add R5310 10K FAE suggestion.

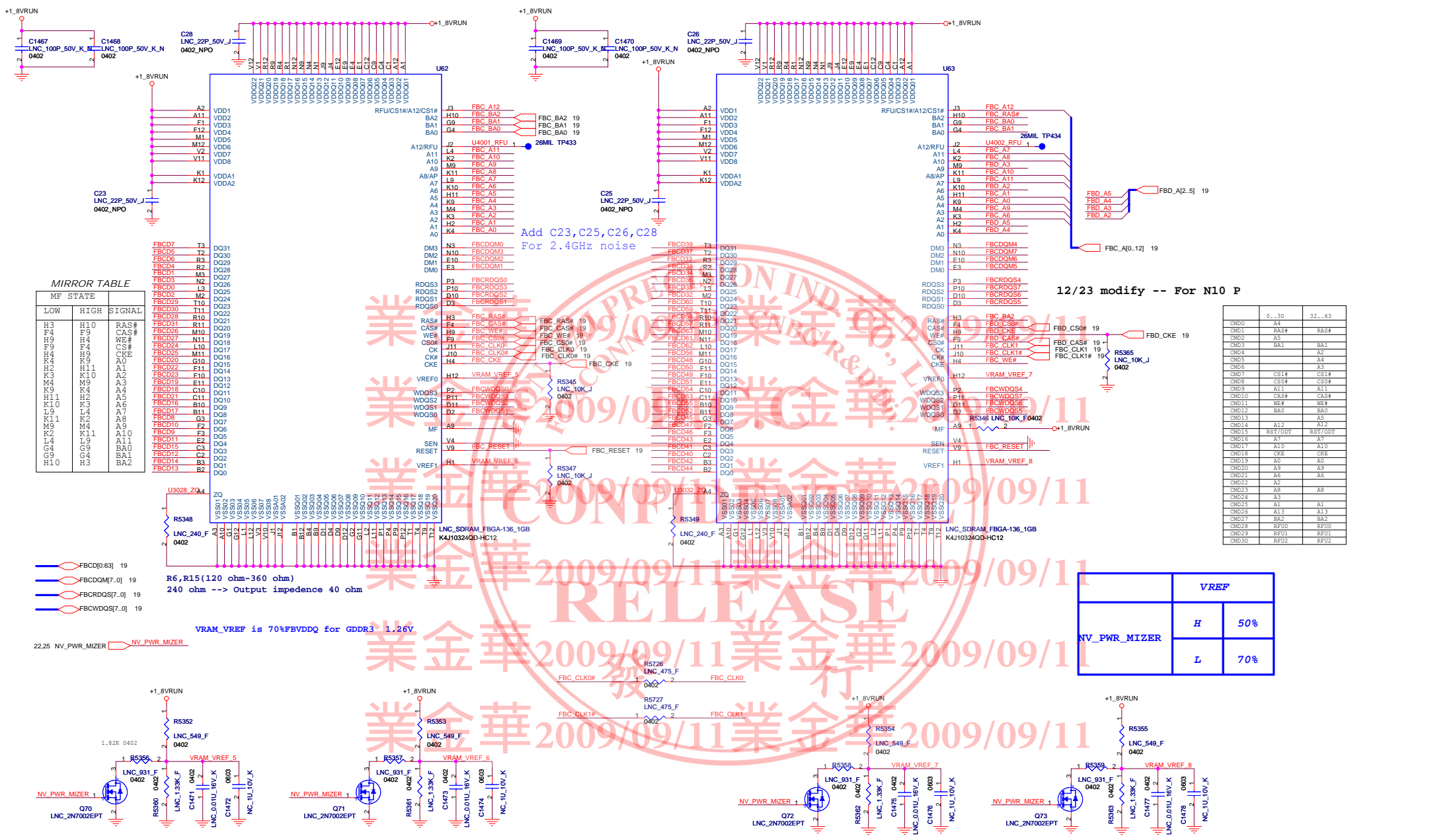


12/29 Add 10K FAE suggestion.



SIGNAL	I/O	Description
I2CA_SCL	I/O	For CRT VGA I2C_Compatibal Bus Signals
I2CA_SDA	I/O	For CRT VGA I2C_Compatibal Bus Signals
I2CB_SCL	I/O	NC(for DVI I2C_Compatibal Bus Signals)
I2CB_SDA	I/O	NC(Notebook DVI I2C_Compatibal Bus Signals)
I2CC_SCL	I/O	NC(Notebook DVI I2C_Compatibal Bus Signals)
I2CC_SDA	I/O	NC(Notebook DVI I2C_Compatibal Bus Signals)
I2CS_SCL	I/O	For VGA thermal I2C_Compatibal Bus Signals.
I2CS_SDA	I/O	Support a direct interface to the internal temperature sensor





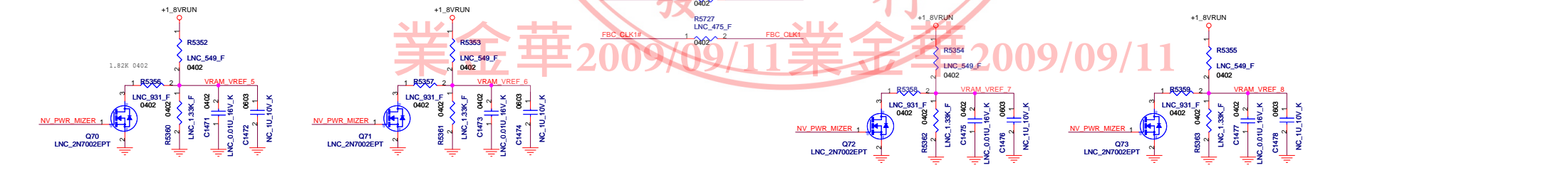
MIRROR TABLE

MF STATE	LOW	HIGH	SIGNAL
H3	H10	RAS#	RAS#
F4	F9	CAS#	CAS#
H9	H4	WE#	WE#
F8	F4	CS#	CS#
H4	H9	CKE	CKE
K4	K9	A0	A0
H2	H11	A1	A1
K3	K10	A2	A2
M4	M9	A3	A3
K9	K4	A4	A4
H11	H2	A5	A5
K10	K3	A6	A6
L9	L4	A7	A7
K11	K11	A8	A8
M9	M4	A9	A9
K2	K11	F0	F0
L4	L9	F1	F1
G4	G9	BA0	BA0
G9	G4	BA1	BA1
H10	H3	BA2	BA2

R6, R15 (120 ohm-360 ohm)
240 ohm --> Output impedance 40 ohm

VRAM_VREF is 70%FBVDDQ for GDDR3 1.26V

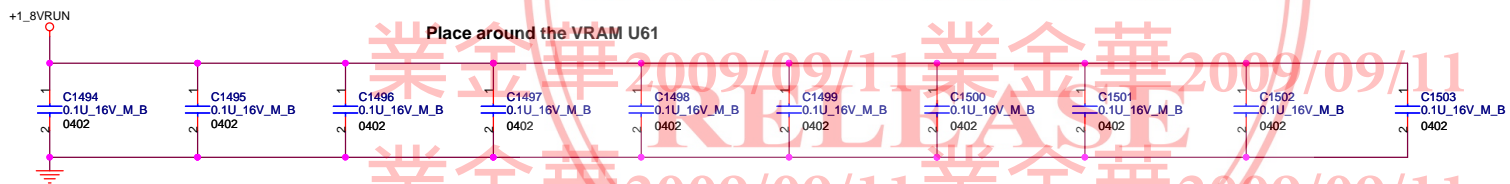
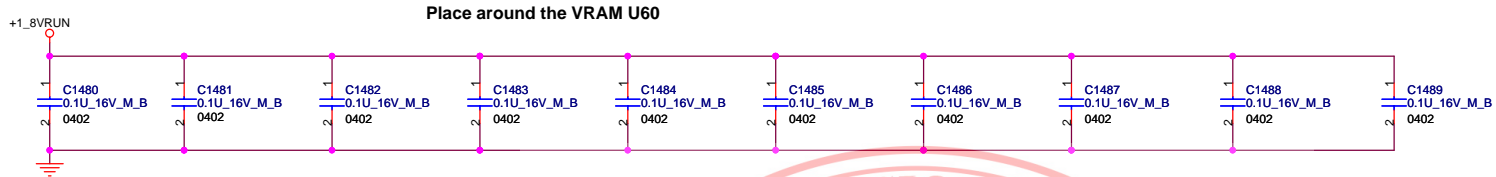
22.25 NV_PWR_MIZER

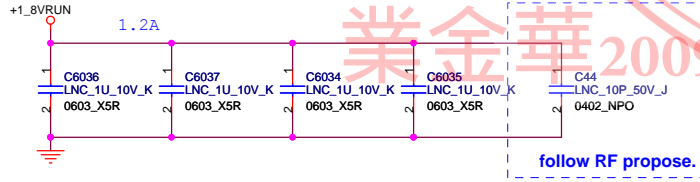
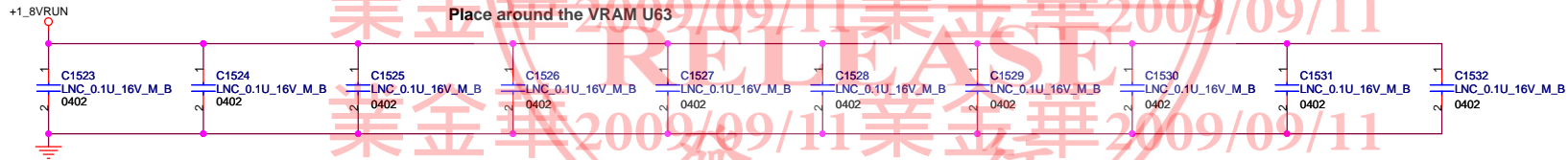
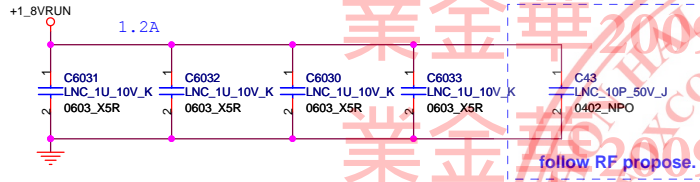
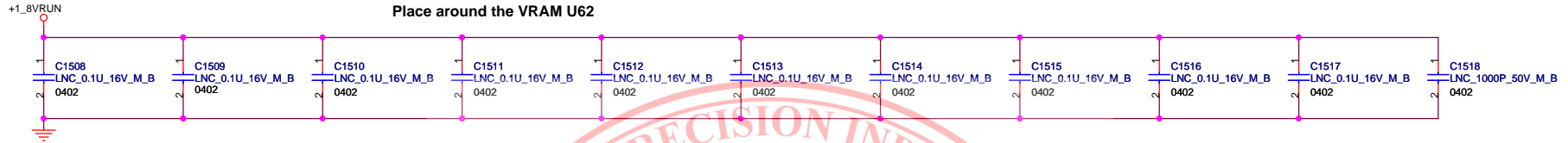


12/23 modify -- For N10 P

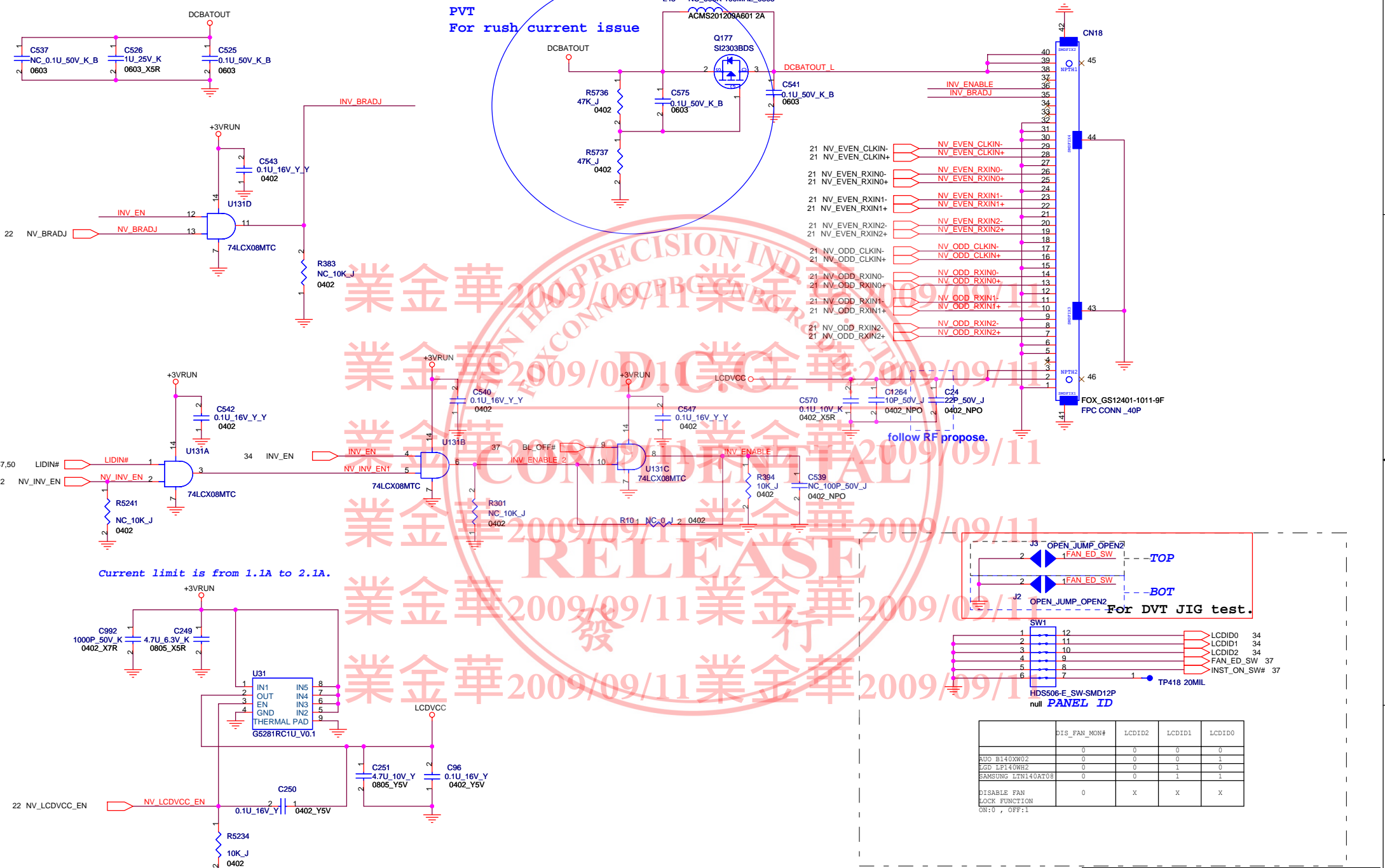
MEMO	0..30	32..63
CM00	A4	RAS#
CM01	RAS#	RAS#
CM02	A5	CAS#
CM03	BA1	BA1
CM04	A2	A2
CM05	A4	A4
CM06	A3	A3
CM07	CS1#	CS1#
CM08	CS0#	CS0#
CM09	A11	A11
CM10	CAS#	CAS#
CM11	WE#	WE#
CM12	BA0	BA0
CM13	A5	A5
CM14	A12	A12
CM15	AST/OUT	AST/OUT
CM16	A5	A5
CM17	A10	A10
CM18	CKE	CKE
CM19	A9	A9
CM20	A9	A9
CM21	A6	A6
CM22	A2	A2
CM23	AB	AB
CM24	A3	A3
CM25	A1	A1
CM26	A13	A13
CM27	BA2	BA2
CM28	RFUP	RFUP
CM29	RFU1	RFU1
CM30	RFU2	RFU2

VREF	
H	50%
L	70%



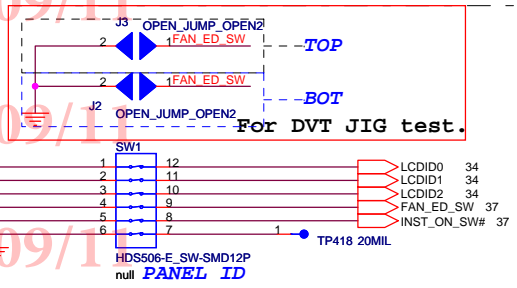


LVDS CONNECTOR



Current limit is from 1.1A to 2.1A.

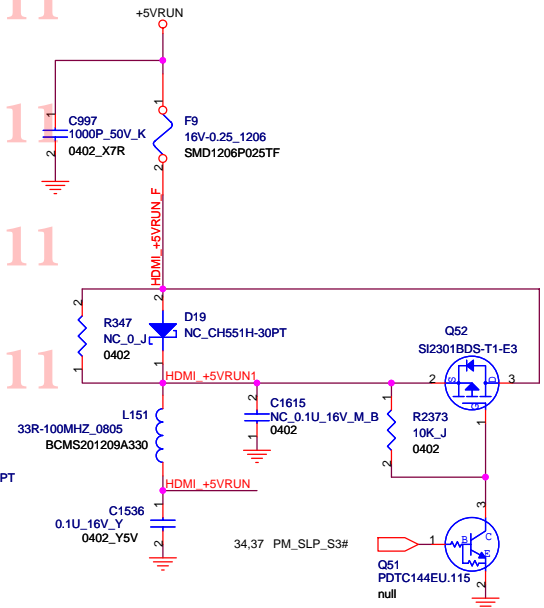
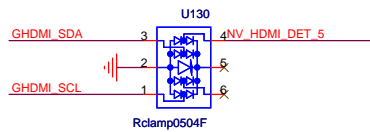
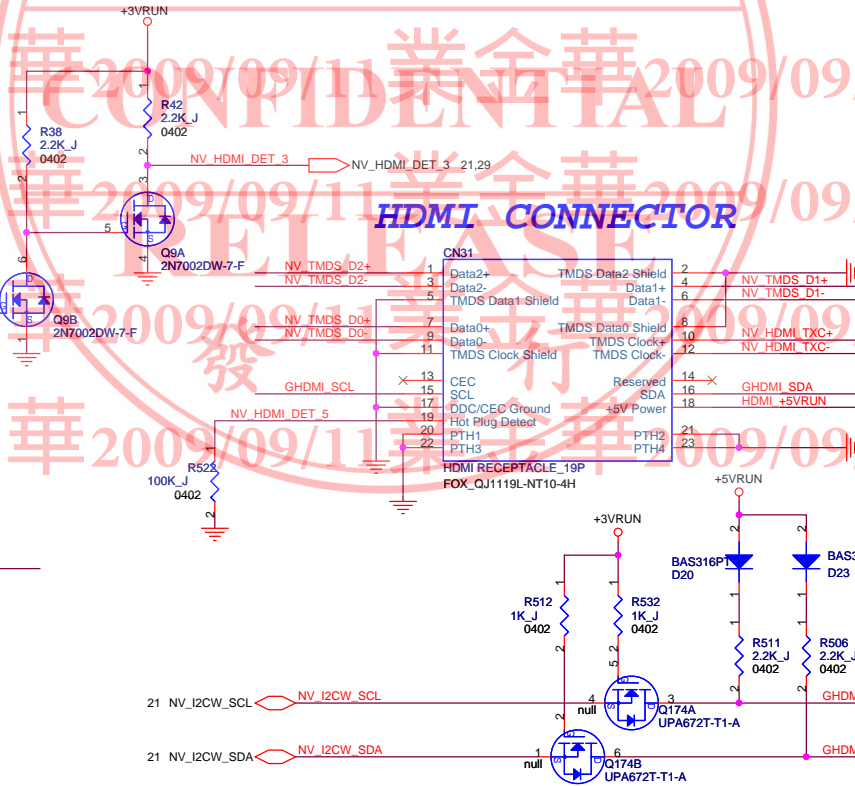
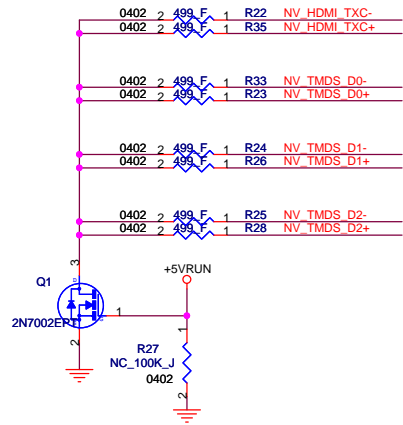
12/29 change to 10K
FAE suggestion.



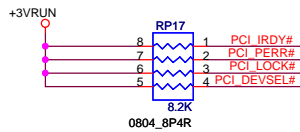
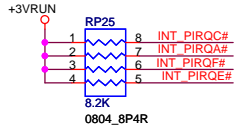
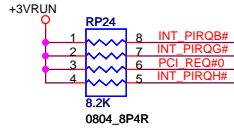
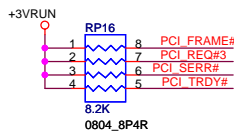
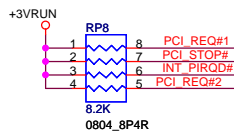
	DIS_FAN_MON#	LCDID2	LCDID1	LCDID0
RUD E140XW02	0	0	0	0
LCD E140WH2	0	0	1	0
SAMSUNG LTN140A08	0	0	1	1
DISABLE FAN LOCK FUNCTION	0	X	X	X

ON:0, OFF:1

- 21 NV_HDMI_TXC-
- 21 NV_HDMI_TXC+
- 21 NV_TMDS_D0-
- 21 NV_TMDS_D0+
- 21 NV_TMDS_D1-
- 21 NV_TMDS_D1+
- 21 NV_TMDS_D2-
- 21 NV_TMDS_D2+



FOXCONN		HON HAI Precision Ind. Co., Ltd.	
Title HDMI		CCPBG - R&D Division	
Size A3	Document Number M870-1-01	Rev 1.0	
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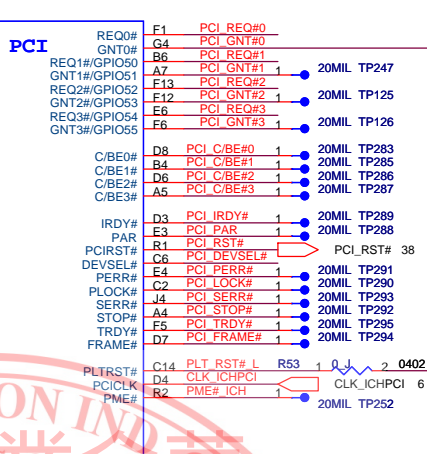


PCI Pullups

TP197 20MIL	1	D11	AD0
TP199 20MIL	1	C8	AD1
TP200 20MIL	1	D9	AD2
TP201 20MIL	1	E12	AD3
TP202 20MIL	1	E9	AD4
TP203 20MIL	1	C9	AD5
TP209 20MIL	1	E10	AD6
TP208 20MIL	1	B7	AD7
TP210 20MIL	1	C7	AD8
TP211 20MIL	1	C5	AD9
TP214 20MIL	1	G11	AD10
TP215 20MIL	1	F8	AD11
TP218 20MIL	1	E11	AD12
TP217 20MIL	1	E7	AD13
TP257 20MIL	1	A3	AD14
TP262 20MIL	1	D2	AD15
TP264 20MIL	1	F10	AD16
TP263 20MIL	1	D5	AD17
TP271 20MIL	1	D10	AD18
TP270 20MIL	1	B3	AD19
TP273 20MIL	1	F7	AD20
TP272 20MIL	1	C3	AD21
TP274 20MIL	1	F3	AD22
TP275 20MIL	1	F4	AD23
TP277 20MIL	1	C1	AD24
TP279 20MIL	1	G7	AD25
TP276 20MIL	1	H7	AD26
TP281 20MIL	1	D1	AD27
TP278 20MIL	1	G5	AD28
TP280 20MIL	1	H6	AD29
TP282 20MIL	1	G1	AD30
TP284 20MIL	1	H3	AD31

INT_PIROA#	J5
INT_PIROB#	E1
INT_PIROC#	J6
INT_PIROD#	C4

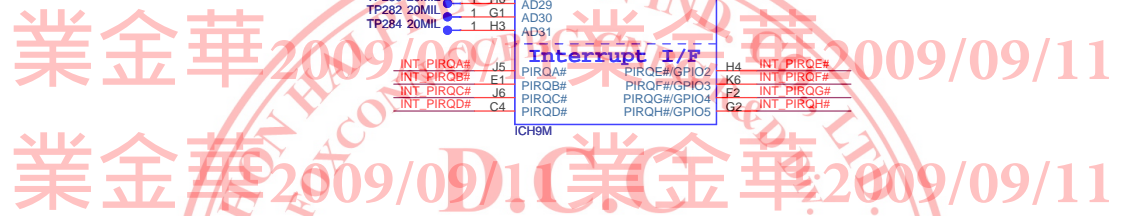
PIROA#	PIROE#/GPIO2
PIROB#	PIROF#/GPIO3
PIROC#	PIROG#/GPIO4
PIROD#	PIROH#/GPIO5



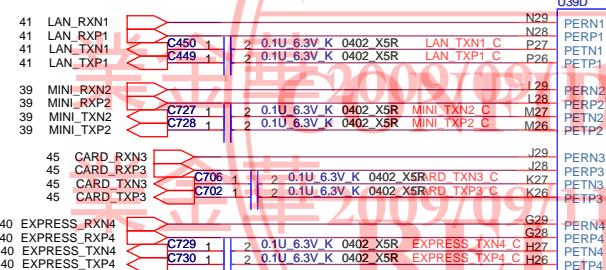
For Boot BIOS Selection.

Strap for Boot-BIOS

	GNT0#	SPI_CS1#
LPC(Default)	Hi	Hi
PCI	Hi	LOW
SPI	LOW	Hi

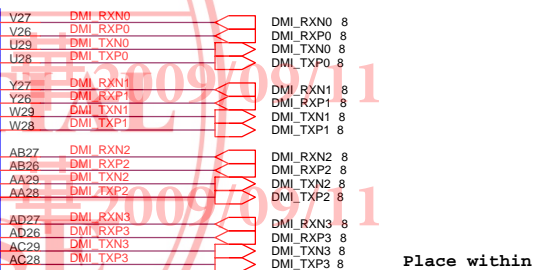


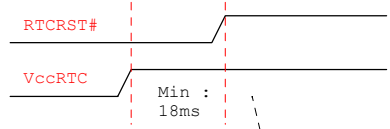
LAN
WLAN
Cardreader
Express Card



U39D	PERN1	DMIORXN	Y27	DMI_RXN0	8
	PERP1	DMIORXP	Y26	DMI_RXP0	8
	PETN1	DMIOTXN	U29	DMI_TXN0	8
	PETP1	DMIOTXP	U28	DMI_TXP0	8
	PERN2	DMI1RXN	Y27	DMI_RXN1	8
	PERP2	DMI1RXP	Y26	DMI_RXP1	8
	PETN2	DMI1TXN	W29	DMI_TXN1	8
	PETP2	DMI1TXP	W28	DMI_TXP1	8
	PERN3	DMI2RXN	AB27	DMI_RXN2	8
	PERP3	DMI2RXP	AB26	DMI_RXP2	8
	PETN3	DMI2TXN	AA29	DMI_TXN2	8
	PETP3	DMI2TXP	AA28	DMI_TXP2	8
	PERN4	DMI3RXN	AD27	DMI_RXN3	8
	PERP4	DMI3RXP	AD26	DMI_RXP3	8
	PETN4	DMI3TXN	AC29	DMI_TXN3	8
	PETP4	DMI3TXP	AC28	DMI_TXP3	8

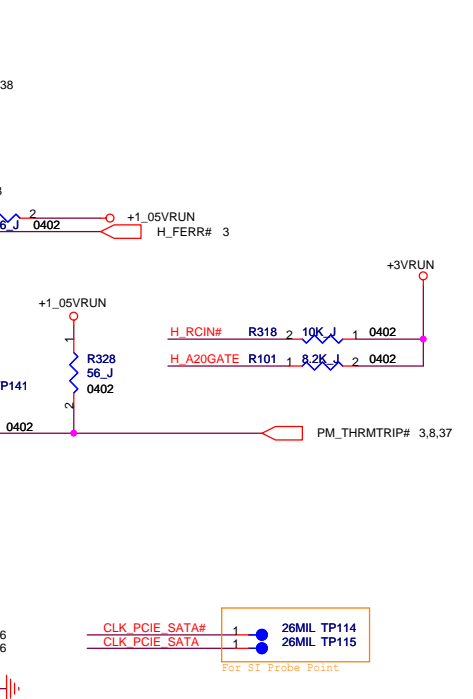
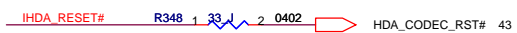
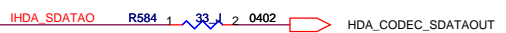
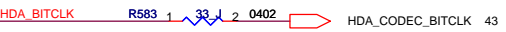
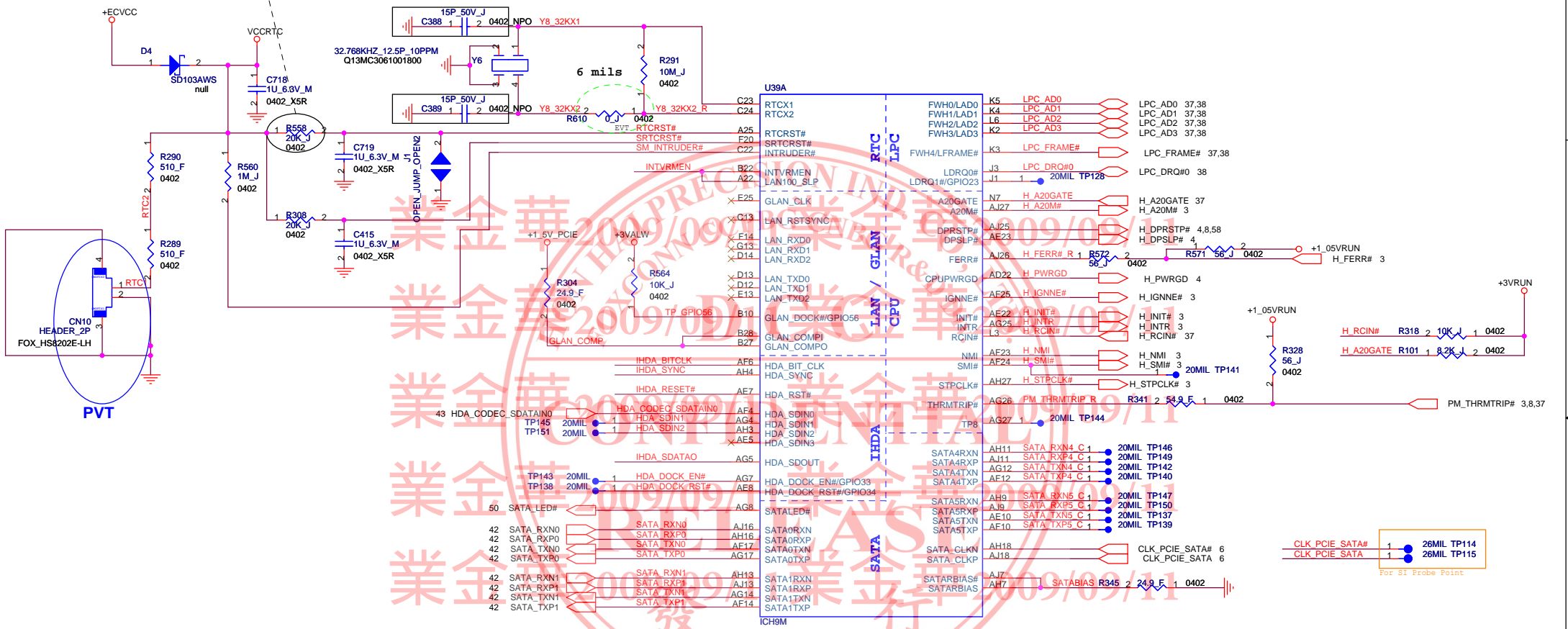
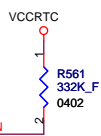
Induced by PCI-Express





The traces inside this block should be wider.

Internal VRM enabled for VccSus1_05, VccSus1_5, VccCl1_5, VccLAN1_05 and VccCl1_05	
INTVRMEN	Low= Internal VR Disabled High= Internal VR Enabled(Default)

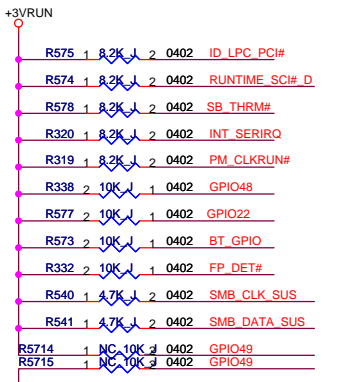
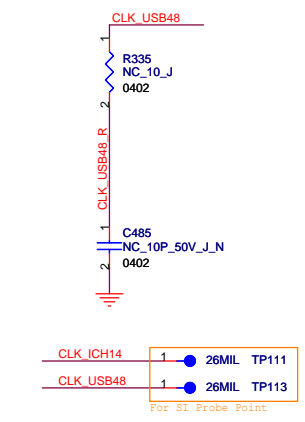
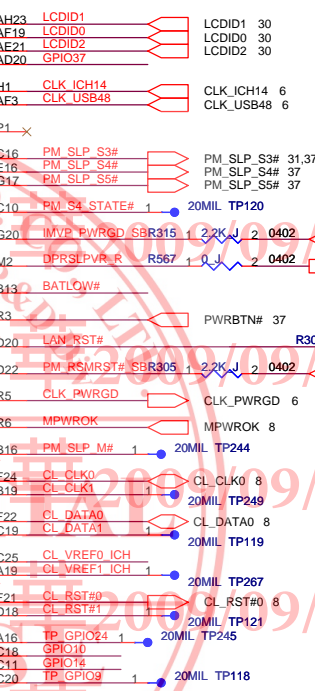
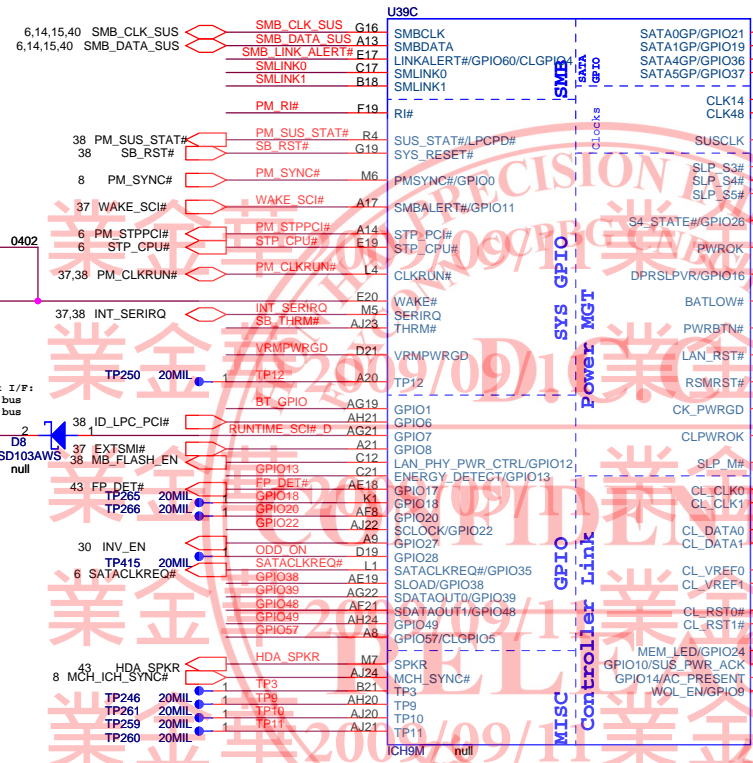
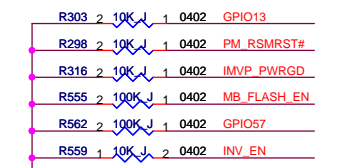
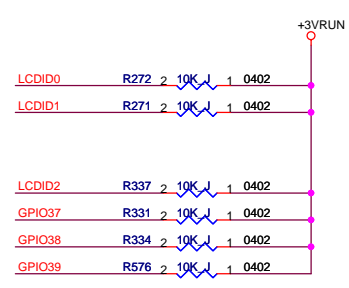
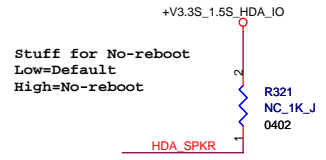
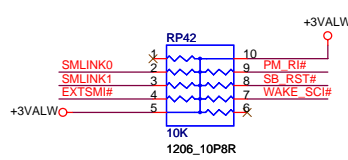


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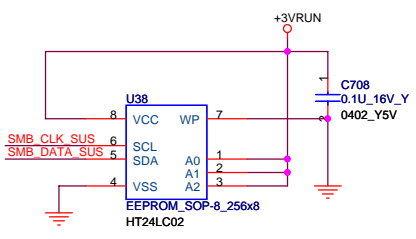
Title: **ICH9-M (LPC,IDE,SATA) 2/5**

Size	Document Number	Rev
A3	M870-1-01	1.0

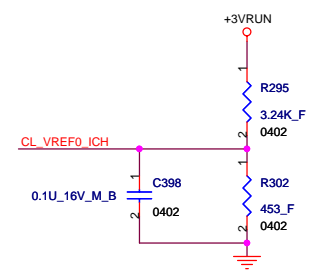
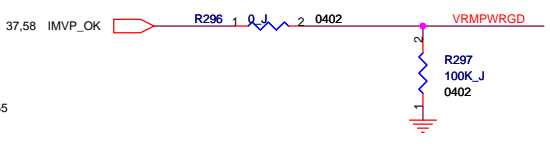
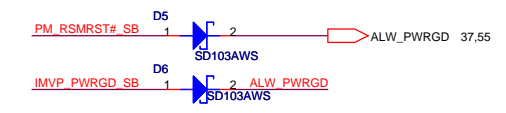
Date: Monday, July 27, 2009 | Sheet 33 of 75

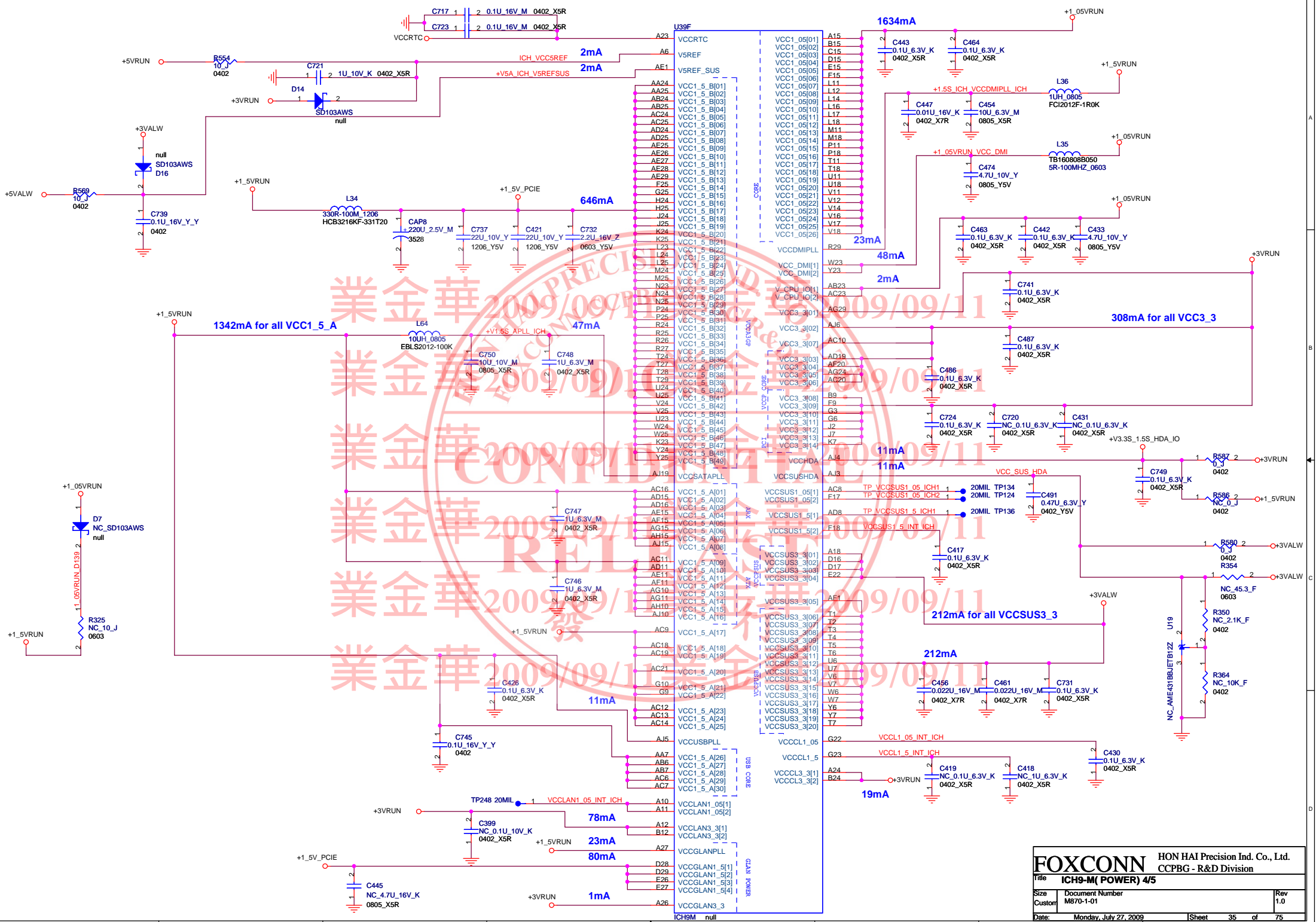


Pull-High GPU--ES
Pull-Low GPU--QS



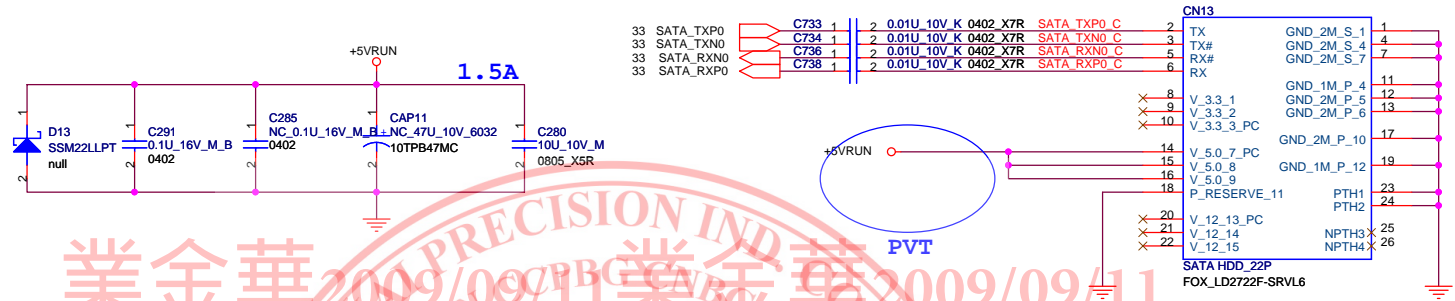
SMBus Address: AEH



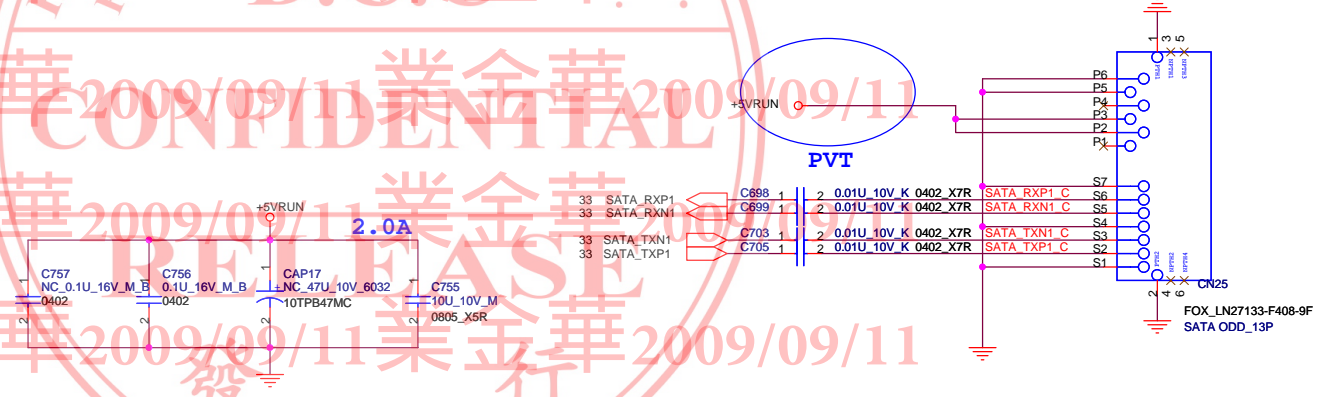


FOXCONN		HON HAI Precision Ind. Co., Ltd.	
Title		IC9-M (POWER) 4/5	
Size	Document Number	Rev	
Custom	M870-1-01	1.0	
Date:	Monday, July 27, 2009	Sheet	35 of 75

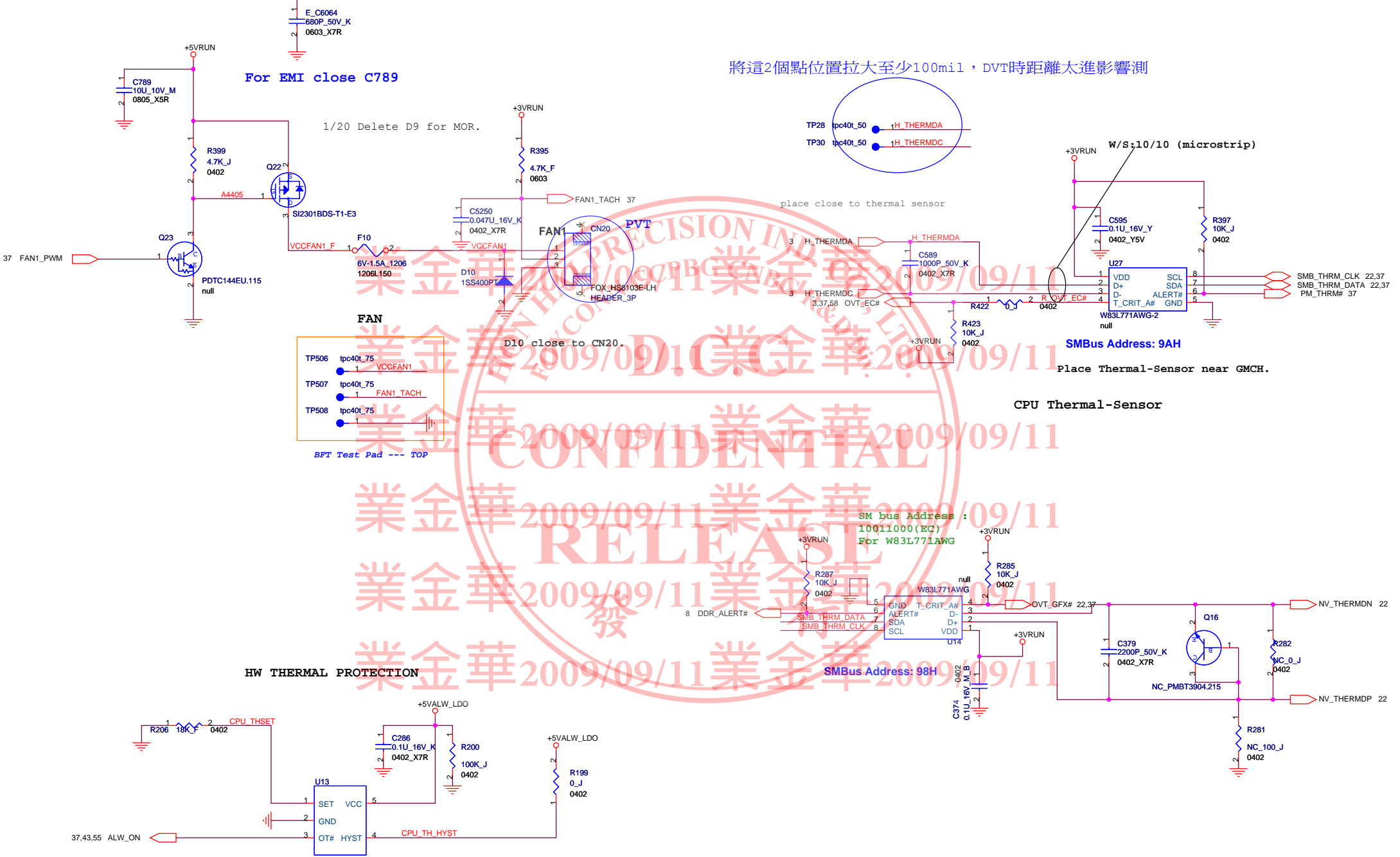
SATA HDD CONN



SATA ODD CONN



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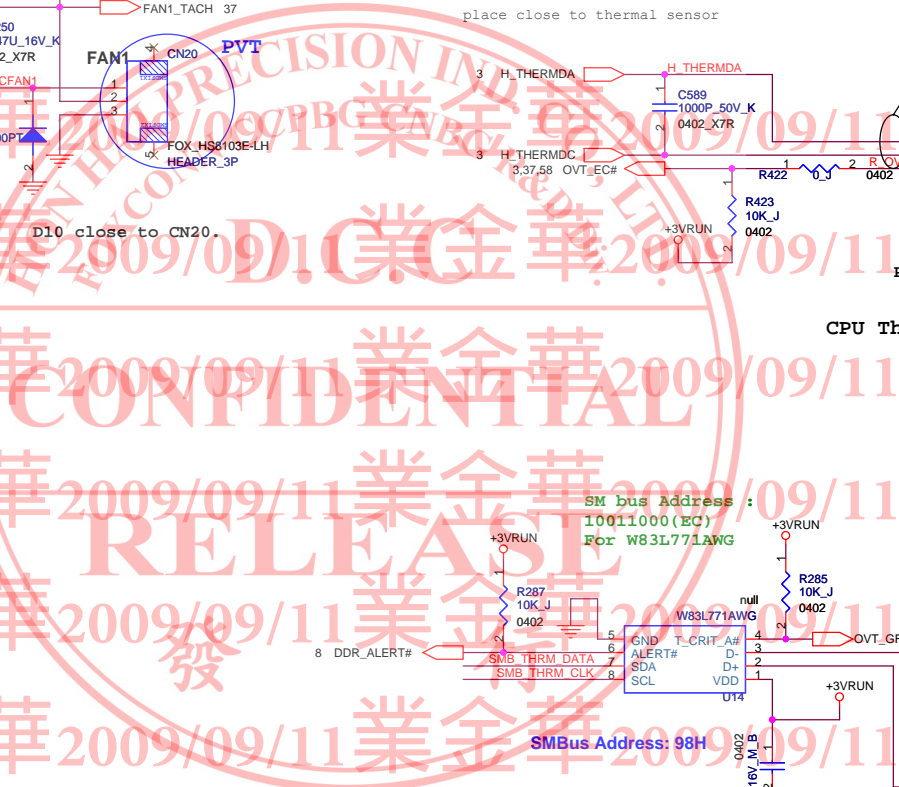
將這2個點位置拉大至少100mil，DVT時距離太進影響測

TP28 tpc40t_50 1H_THERMDA
TP30 tpc40t_50 1H_THERMDC

FAN

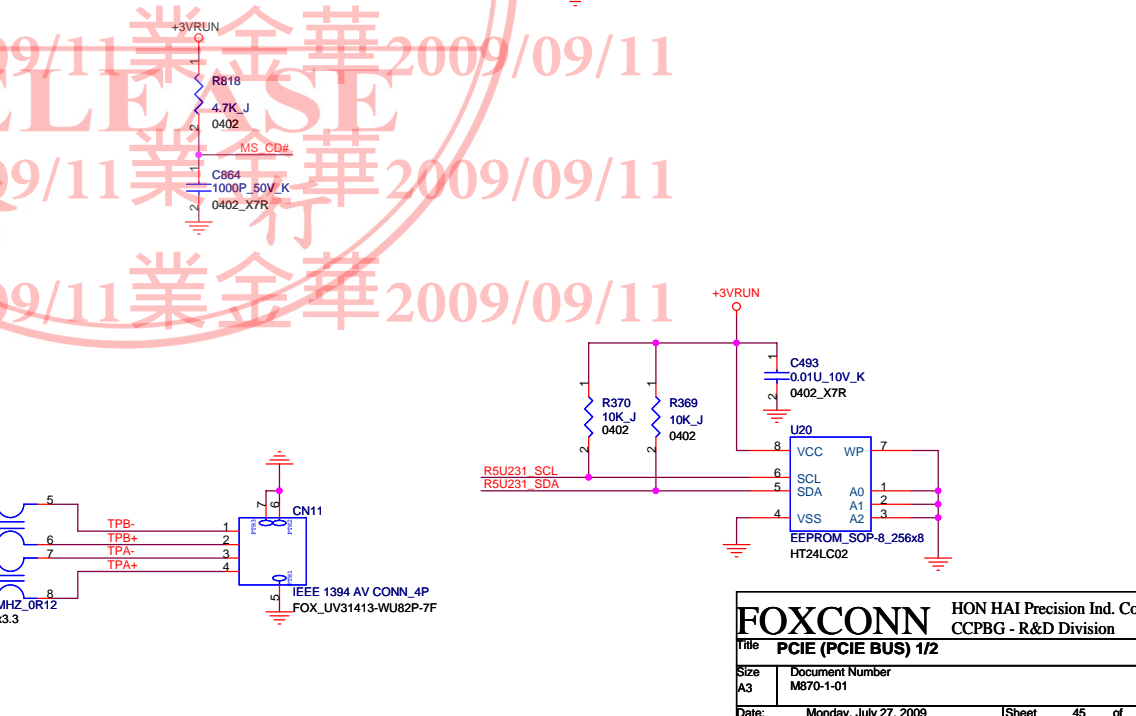
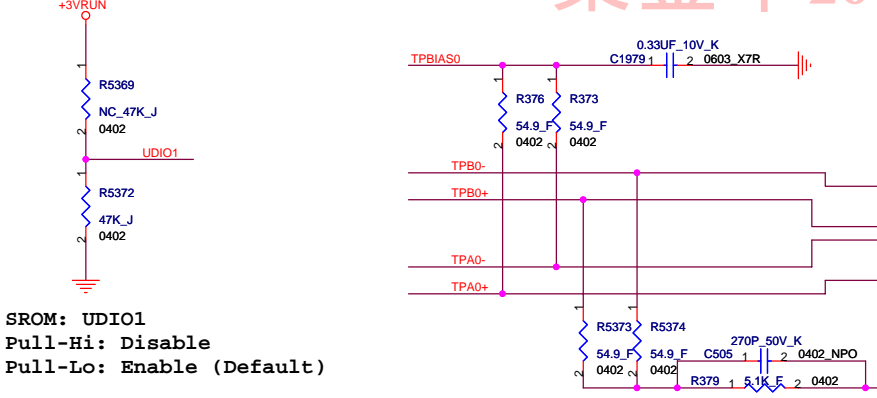
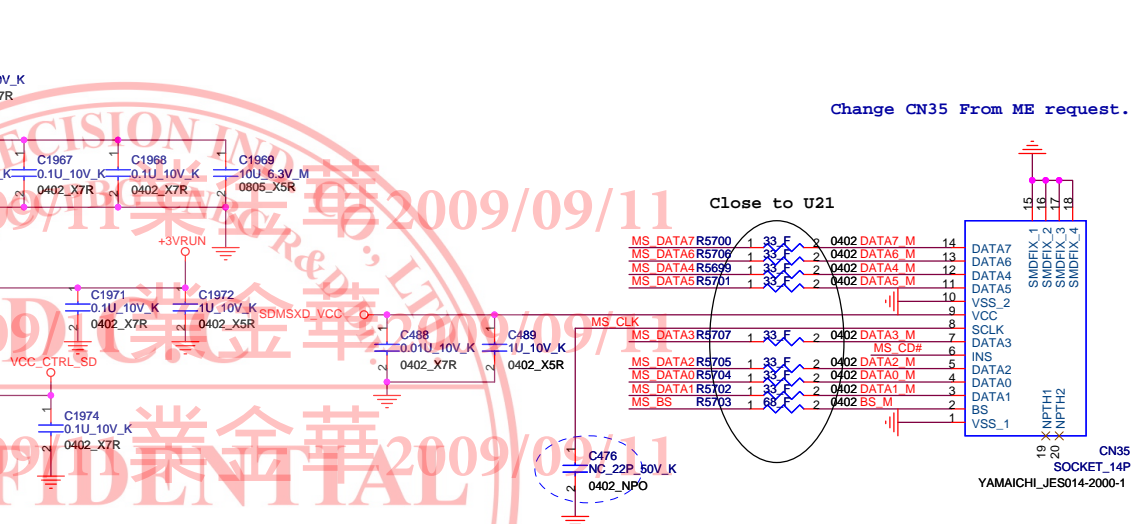
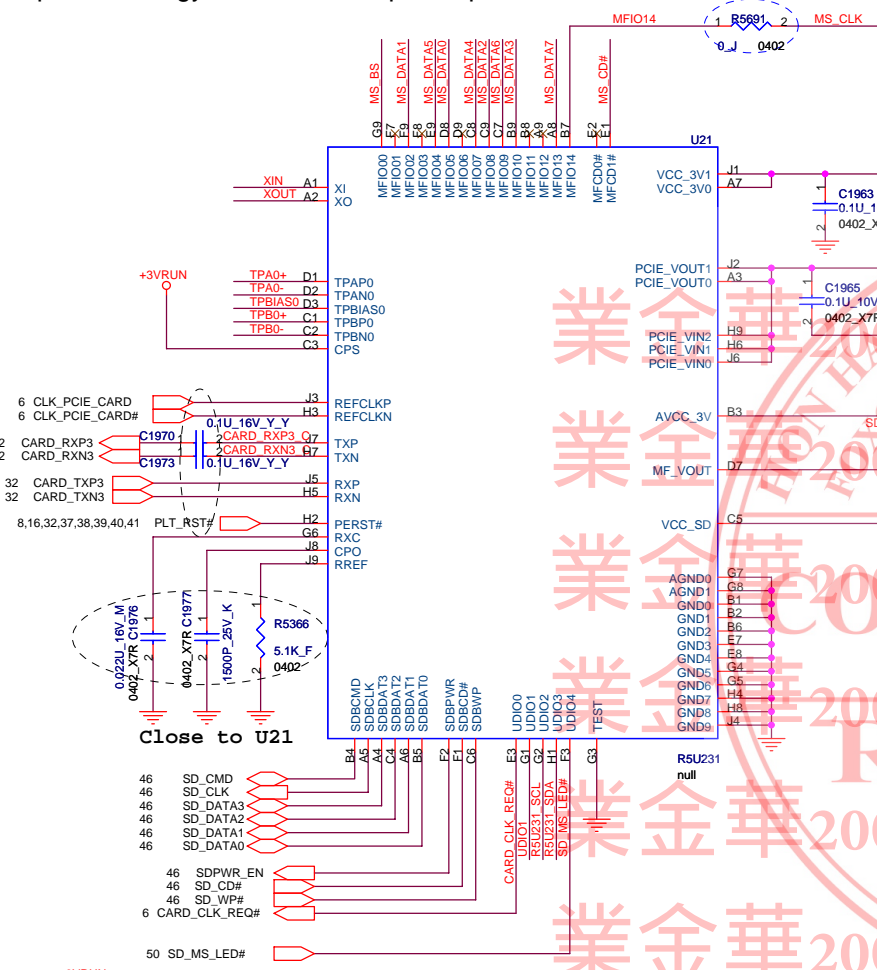
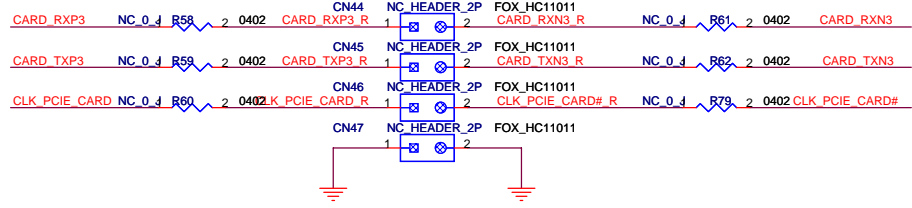
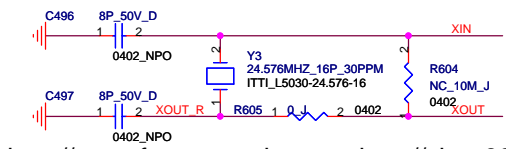
TP506 tpc40t_75 VCCFAN1
TP507 tpc40t_75 FAN1_TACH
TP508 tpc40t_75

BFT Test Pad --- TOP



01/20 Add pin headers and resistors for PCIe protocol measurement for R5U231.

http://www.fanguannb.com http://shop63900485.taobao.com

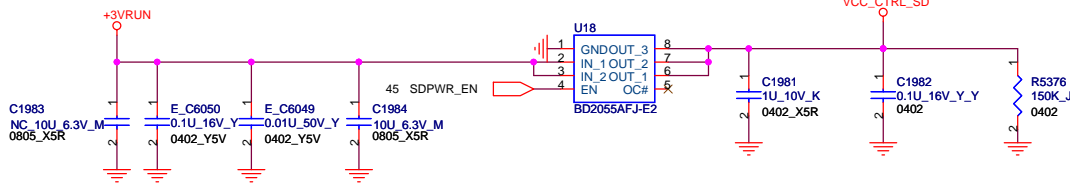


SR0M: UDIO1
Pull-Hi: Disable
Pull-Lo: Enable (Default)

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Title: **PCIe (PCIe BUS) 1/2**

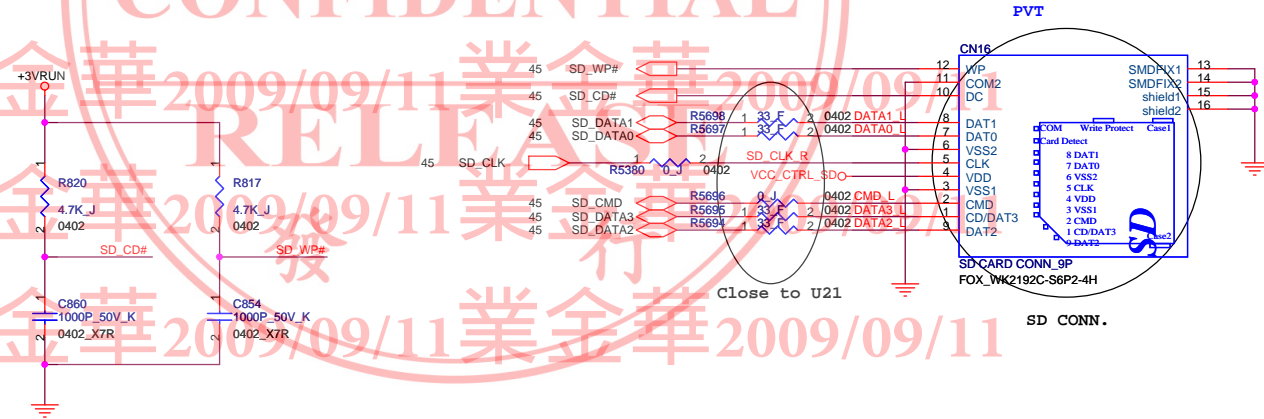
Size: A3	Document Number: M870-1-01	Rev: 1.0
Date: Monday, July 27, 2009	Sheet: 45	of 75



SD POWER

For EMI close C1983

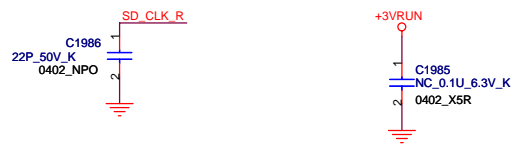
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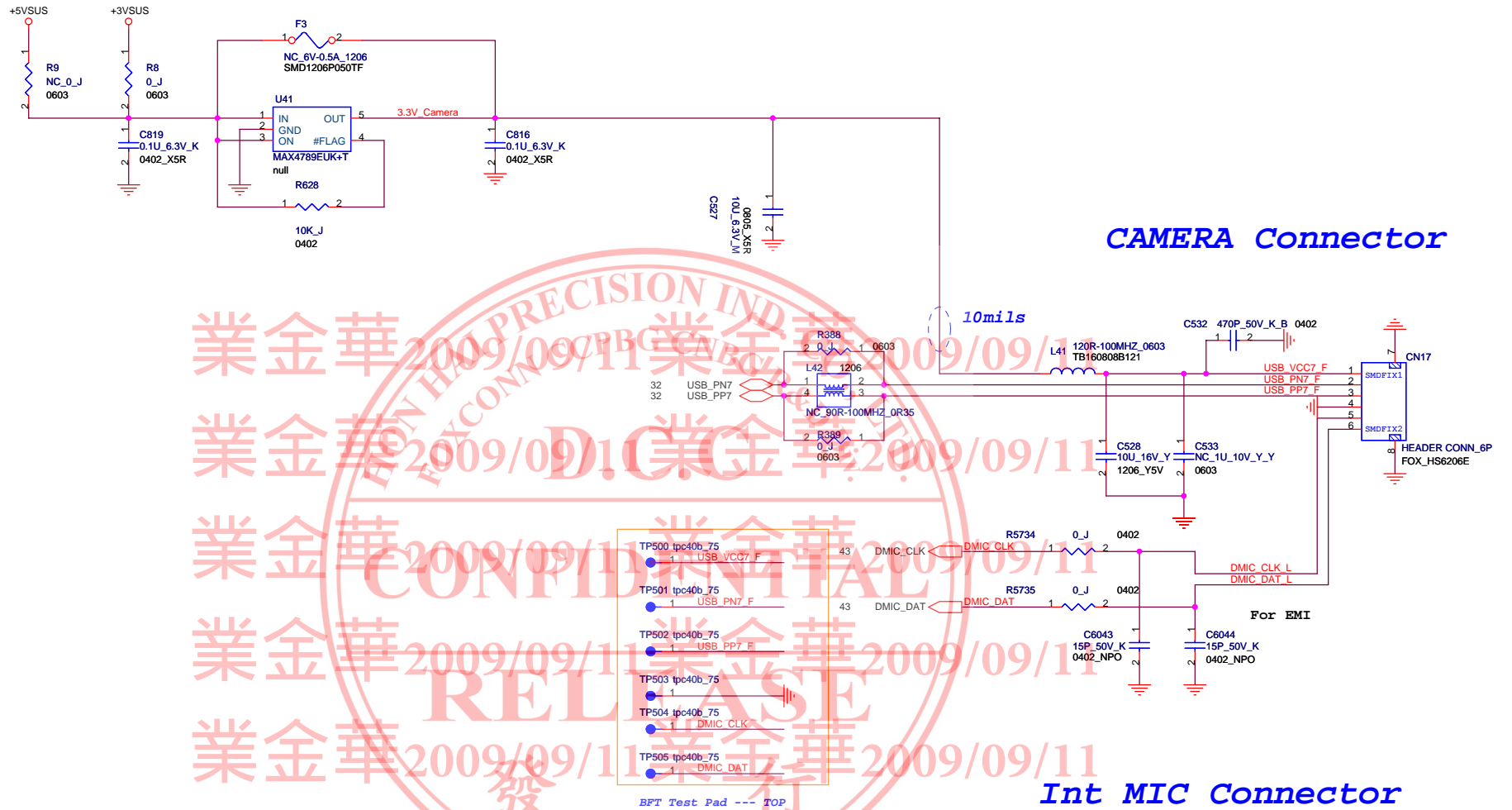


Close to U21

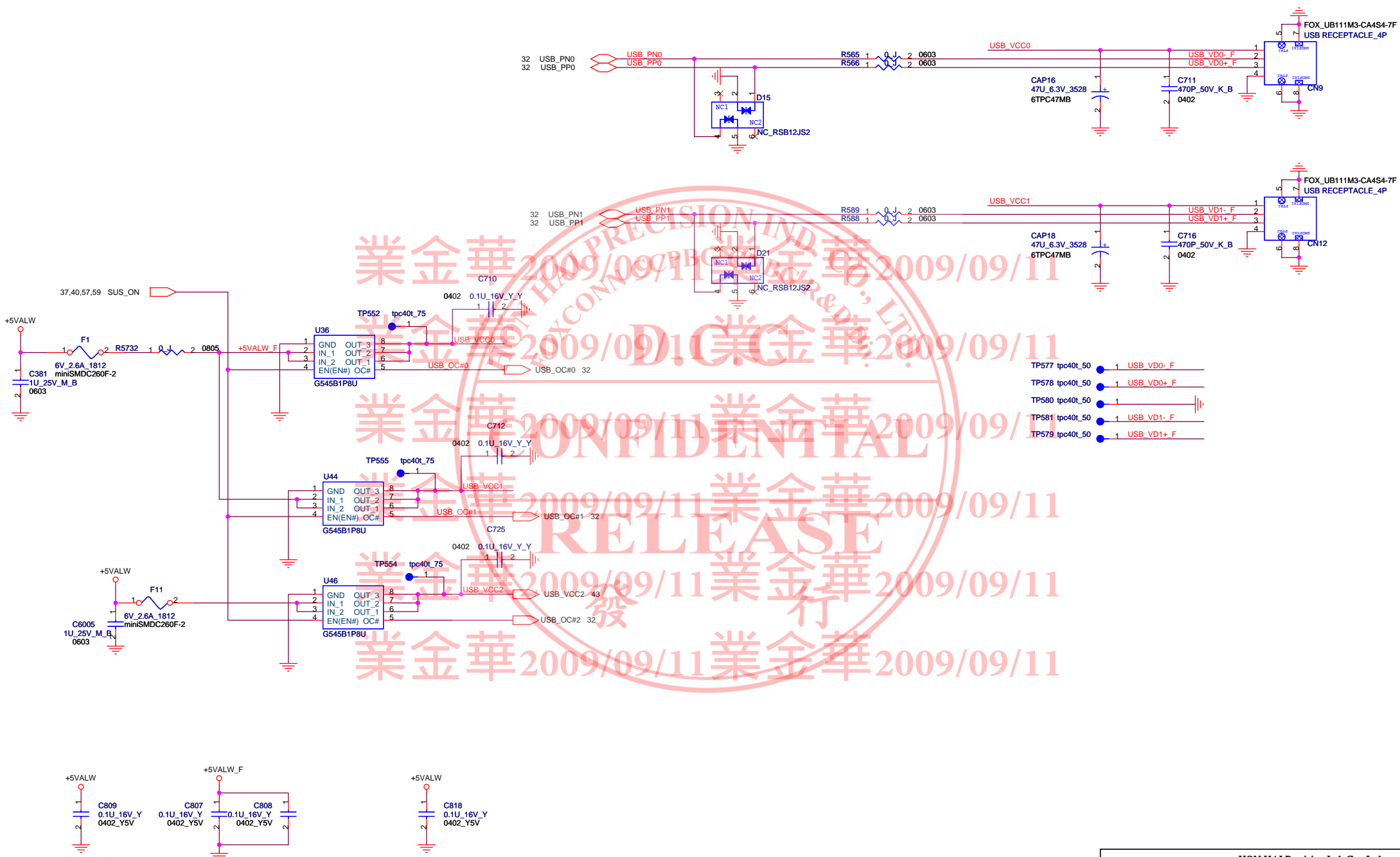
SD CONN.

For EMI





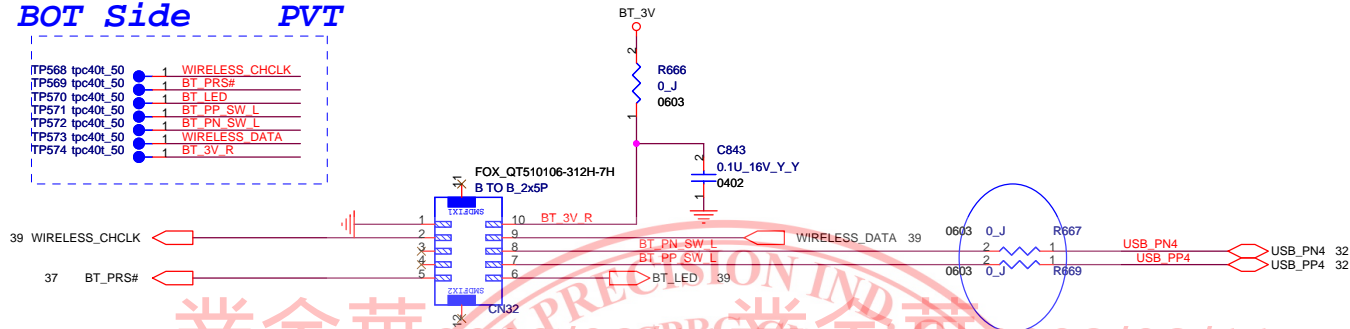
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 業金華 2009/09/11
 業金華 2009/09/11



Bluetooth connector

BOT Side PVT

TP568 tpc40t_50	1	WIRELESS_CHCLK
TP569 tpc40t_50	1	BT_PRS#
TP570 tpc40t_50	1	BT_LED
TP571 tpc40t_50	1	BT_PP_SW_L
TP572 tpc40t_50	1	BT_PN_SW_L
TP573 tpc40t_50	1	WIRELESS_DATA
TP574 tpc40t_50	1	BT_3V_R



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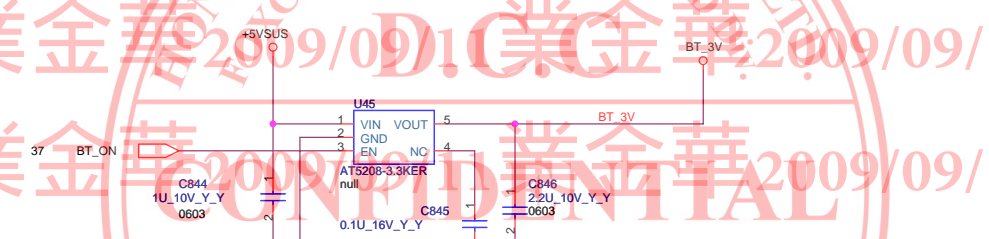
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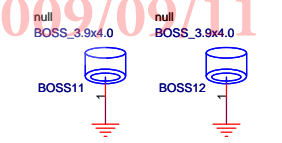
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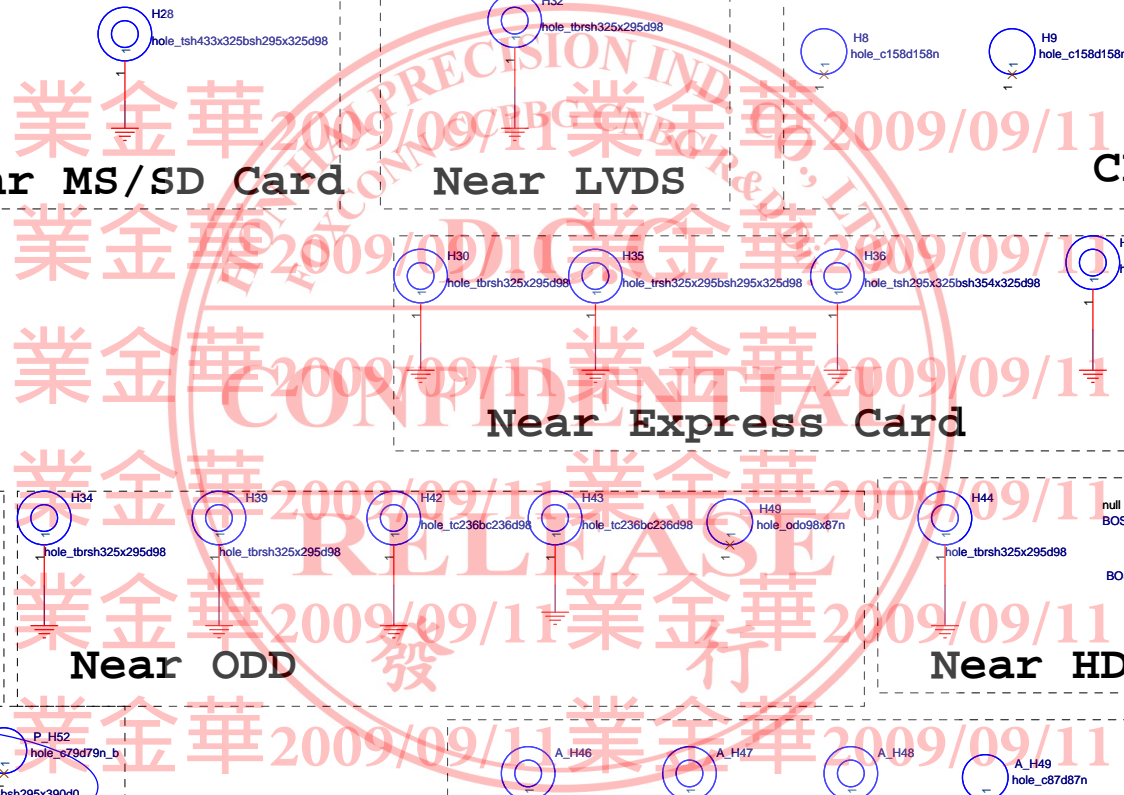
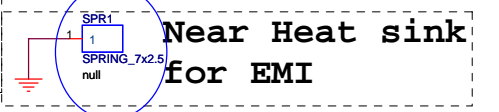
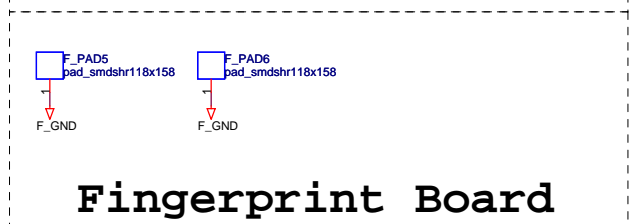
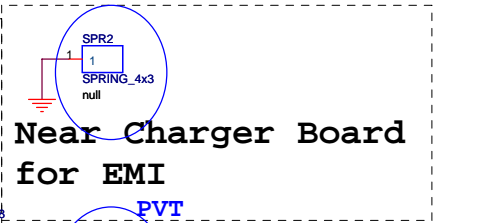
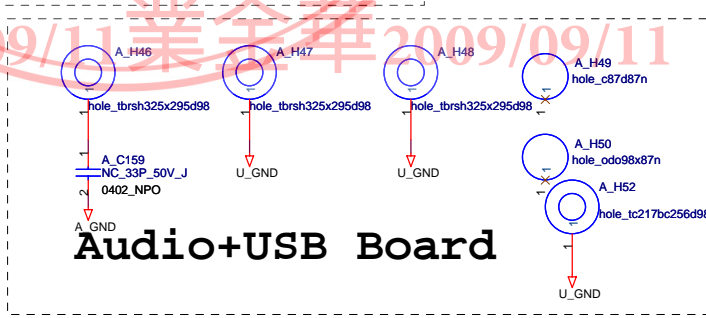
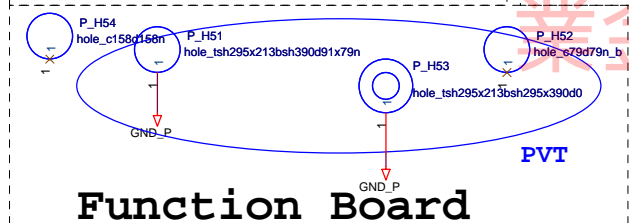
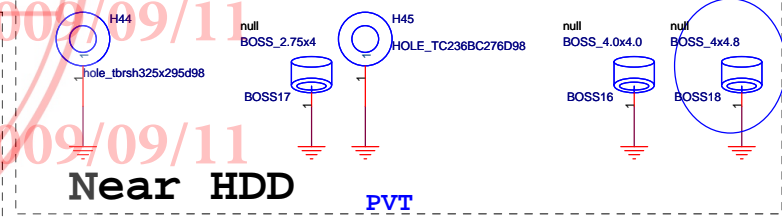
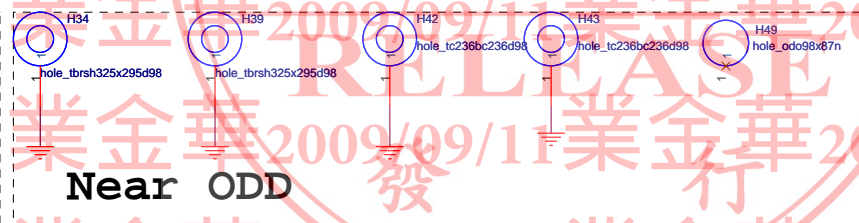
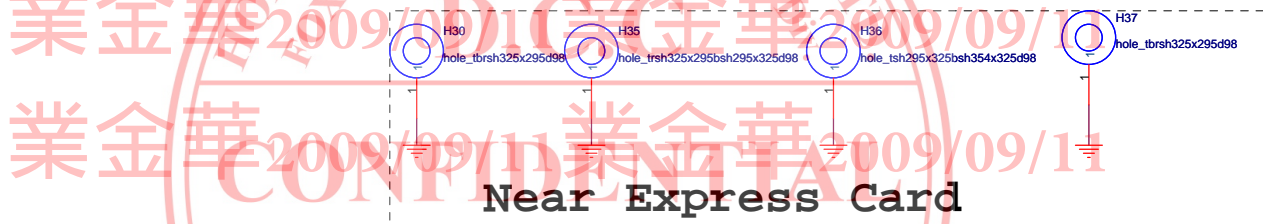
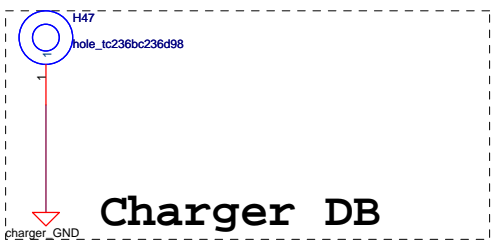
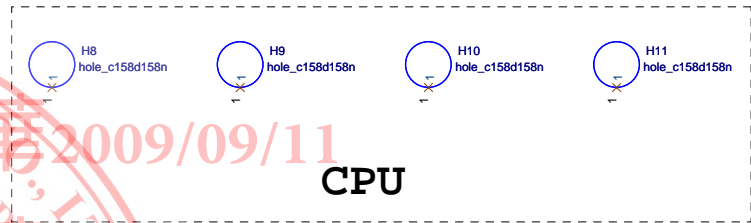
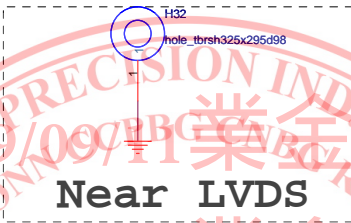
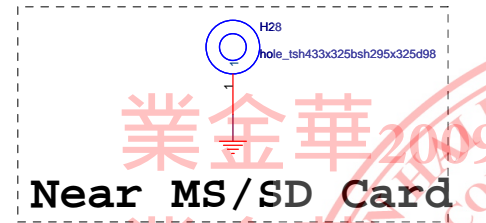
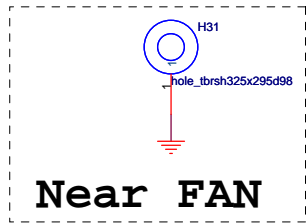
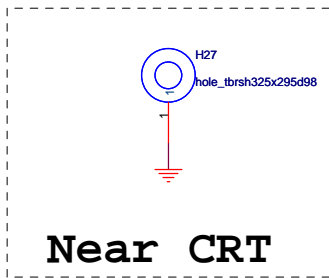
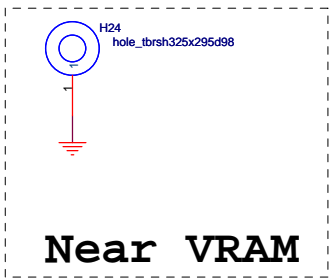
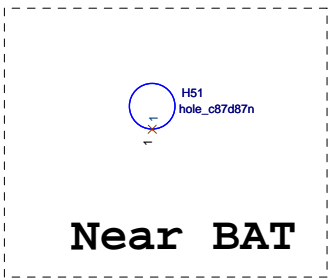
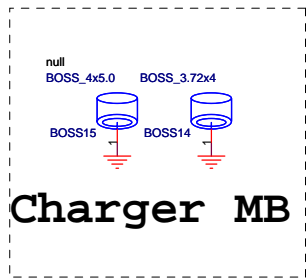
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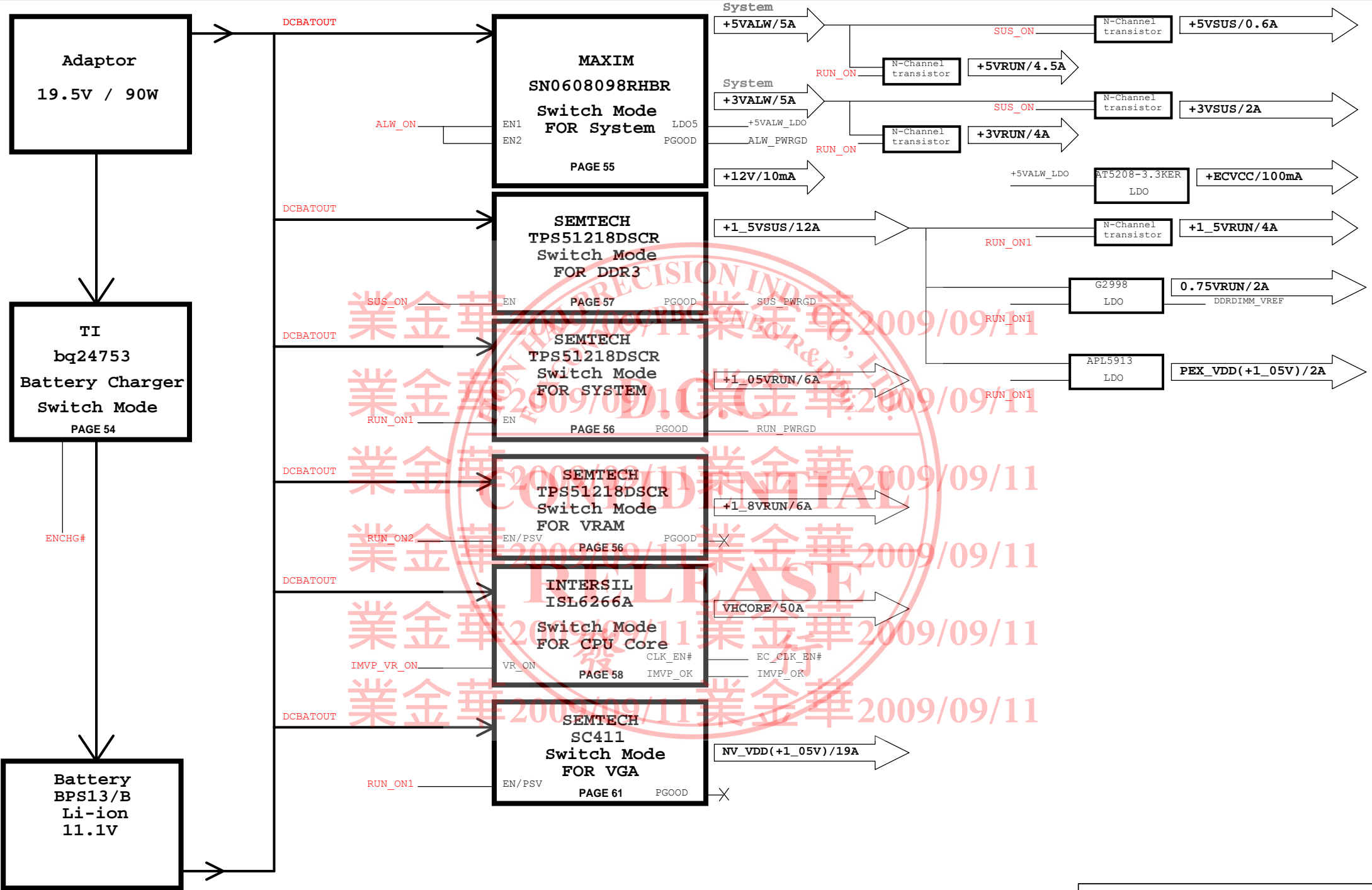


Bluetooth



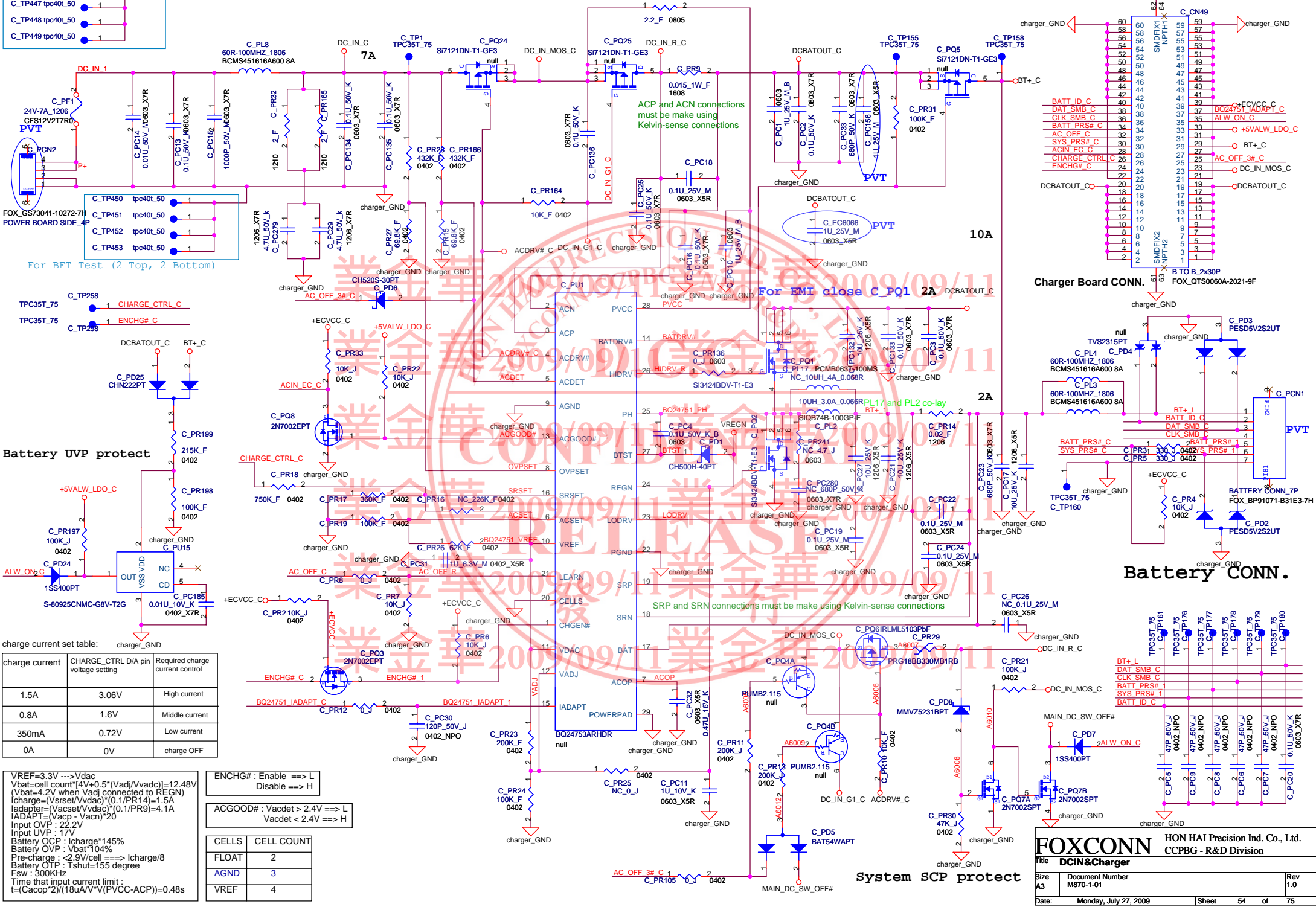


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C_TP446 tpc40L_50
C_TP447 tpc40L_50
C_TP448 tpc40L_50
C_TP449 tpc40L_50

For BFT Test (2 Top, 2 Bottom)



For BFT Test (2 Top, 2 Bottom)

C_TP258
C_TP259
C_TP258

TPC35T_75
TPC35T_75
TPC35T_75

CHARGE_CTRL_C
ENCHG#_C

DCBATOUT_C
BT+ C

C_PD25
CHN222PT

C_PR199
215K_F
0402

C_PR198
100K_F
0402

+5VALW_LDO_C

C_PR197
100K_J
0402

ALW_ON_C
C_PD24
1S5400PT

VSS_VDD
CD

C_PC185
0.01U_10V_K
0402_X7R

S-80925CNMC-G8V-T2G

charge current set table:

charge current

CHARGE_CTRL D/A pin voltage setting

Required charge current control

1.5A 3.06V High current

0.8A 1.6V Middle current

350mA 0.72V Low current

0A 0V charge OFF

VREF=3.3V --> Vdac

Vbat=cell count*(4V+0.5*(Vadj/Vvdc))=12.48V

(Vbat=4.2V when Vadj connected to REF)

Icharge=(Vsrset/Vvdc)*(0.1/PR14)=1.5A

Iadapters=(Vvcset/Vvdc)*(0.1/PR9)=4.1A

IADAPT=(Vaccp - Vacn)*20

Input OVP: 22.2V

Input UVP: 17V

Battery OCP: Icharge*145%

Battery OVP: Vbat*1.04%

Pre-charge: <2.9V/cell ==> Icharge/8

Battery OTP: Tshut=155 degree

Fsw = 300KHz

Time that input current limit:

t=(Cacop*2)/(18uA*V*(PVCC-ACC))=0.48s

ENCHG#: Enable ==> L
Disable ==> H

ACGOOD#: Vacdet > 2.4V ==> L
Vacdet < 2.4V ==> H

CELLS CELL COUNT

FLOAT 2

AGND 3

VREF 4

ACP and ACN connections must be make using Kelvin-sense connections

For EMI close C_PQ1 2A

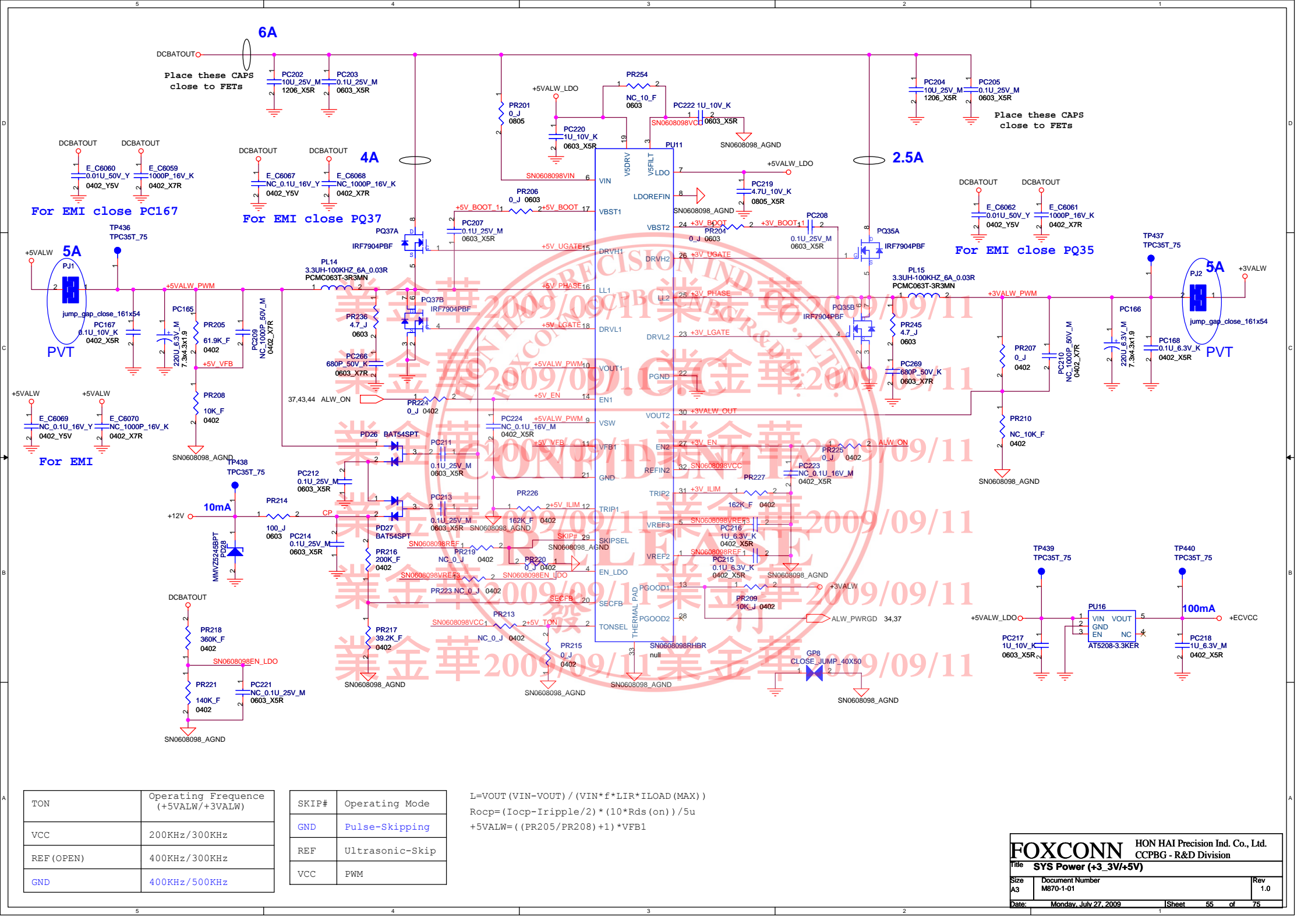
SRP and SRN connections must be make using Kelvin-sense connections

System SCP protect

FOXCONN HON HAI Precision Ind. Co., Ltd.
CCPBG - R&D Division

Title: **DCIN&Charger**

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TON	Operating Frequency (+5VALW/+3VALW)
VCC	200KHz/300KHz
REF (OPEN)	400KHz/300KHz
GND	400KHz/500KHz

SKIP#	Operating Mode
GND	Pulse-Skipping
REF	Ultrasonic-Skip
VCC	PWM

$$L = VOUT (VIN - VOUT) / (VIN * f * LIR * ILOAD (MAX))$$

$$Rocp = (Iocp - Tripple / 2) * (10 * Rds (on)) / 5u$$

$$+5VALW = ((PR205 / PR208) + 1) * VFB1$$

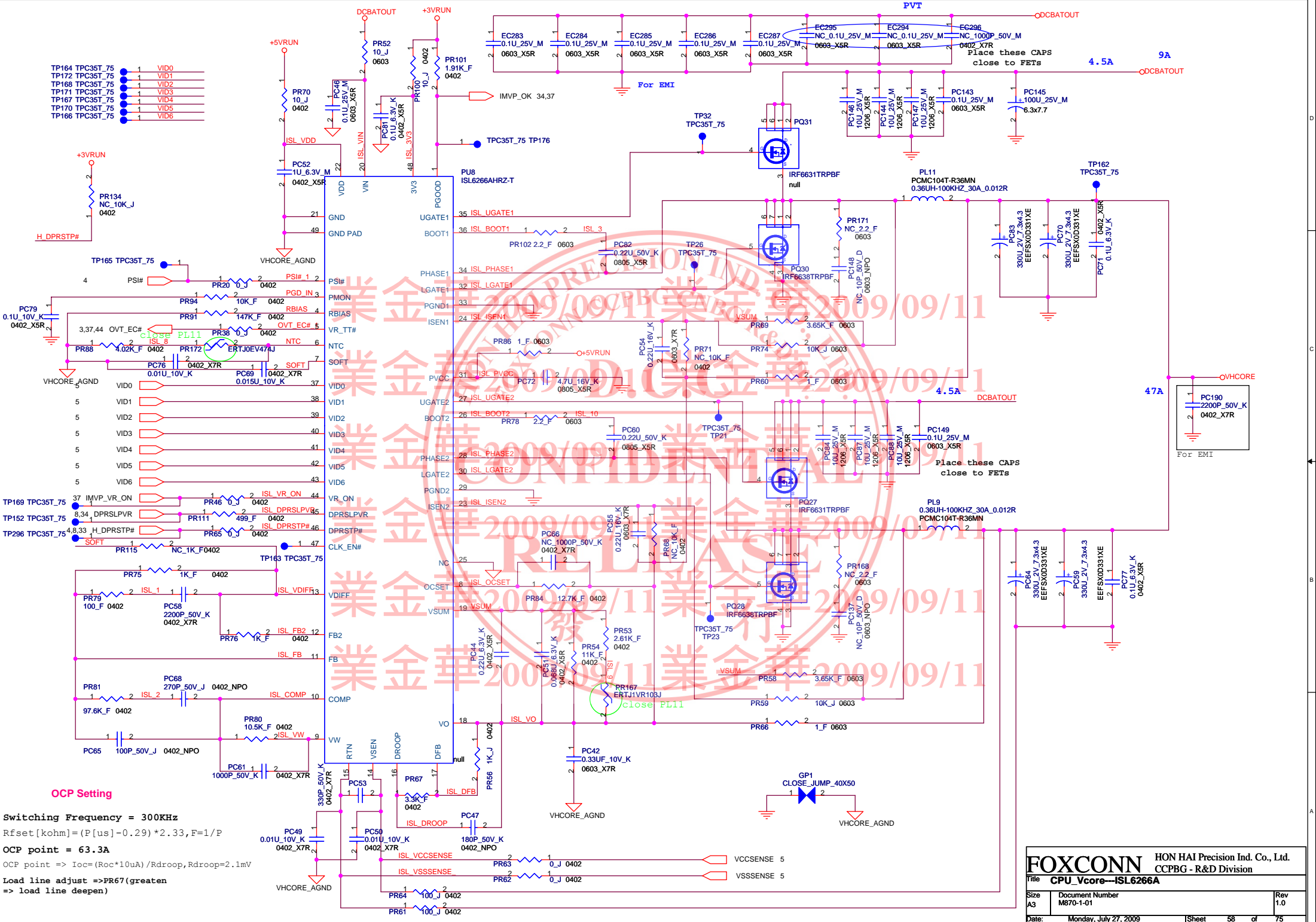
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Title: **SYS Power (+3.3V/+5V)**

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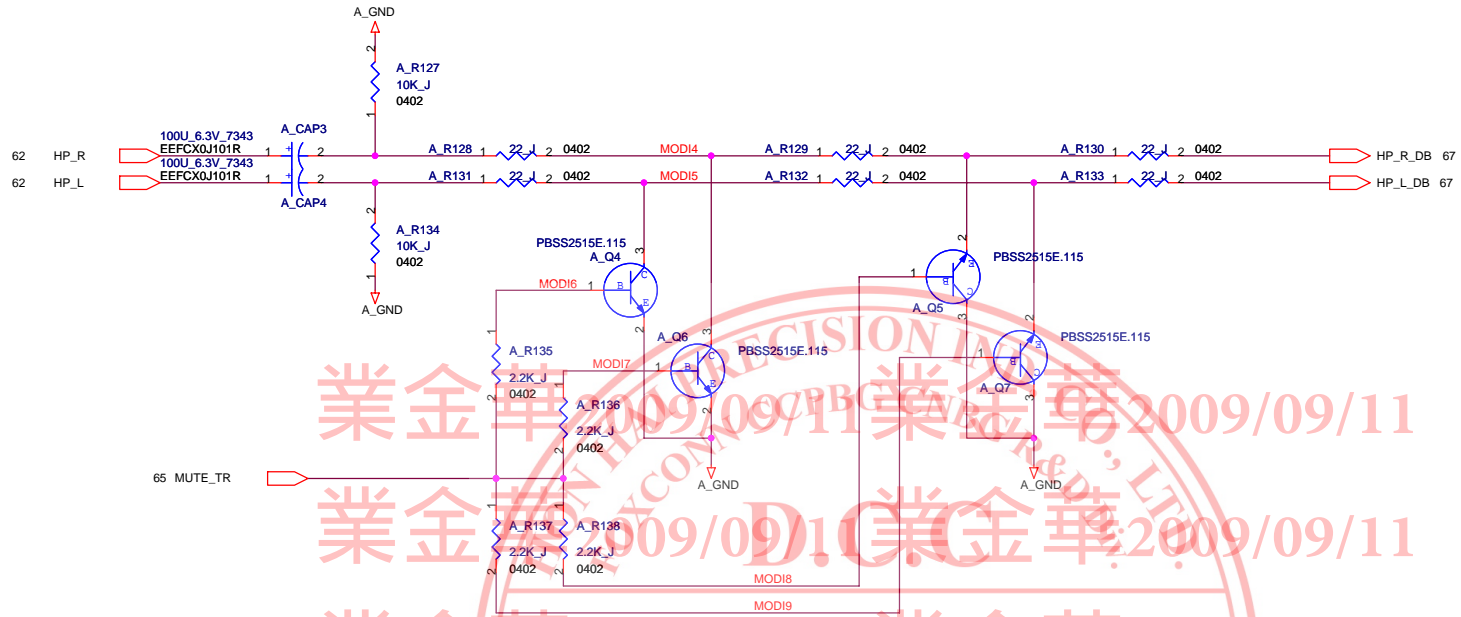
- TP164 TPC35T_75 1 VID0
- TP172 TPC35T_75 1 VID1
- TP168 TPC35T_75 1 VID2
- TP171 TPC35T_75 1 VID3
- TP167 TPC35T_75 1 VID4
- TP170 TPC35T_75 1 VID5
- TP166 TPC35T_75 1 VID6



OCP Setting

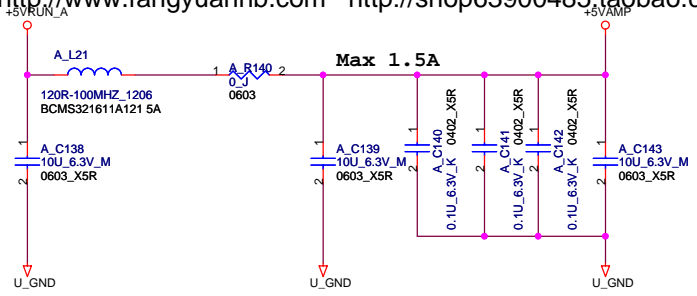
Switching Frequency = 300KHz
 $Rfset[kohm] = (P[us] - 0.29) * 2.33, F=1/P$
OCP point = 63.3A
 OCP point => $Ioc = (Roc * 10uA) / Rdroop, Rdroop = 2.1mV$
 Load line adjust => PR67(greaten
 => load line deepen)

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CPU_Vcore-ISL6266A		CCPBG - R&D Division	
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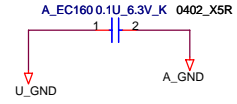


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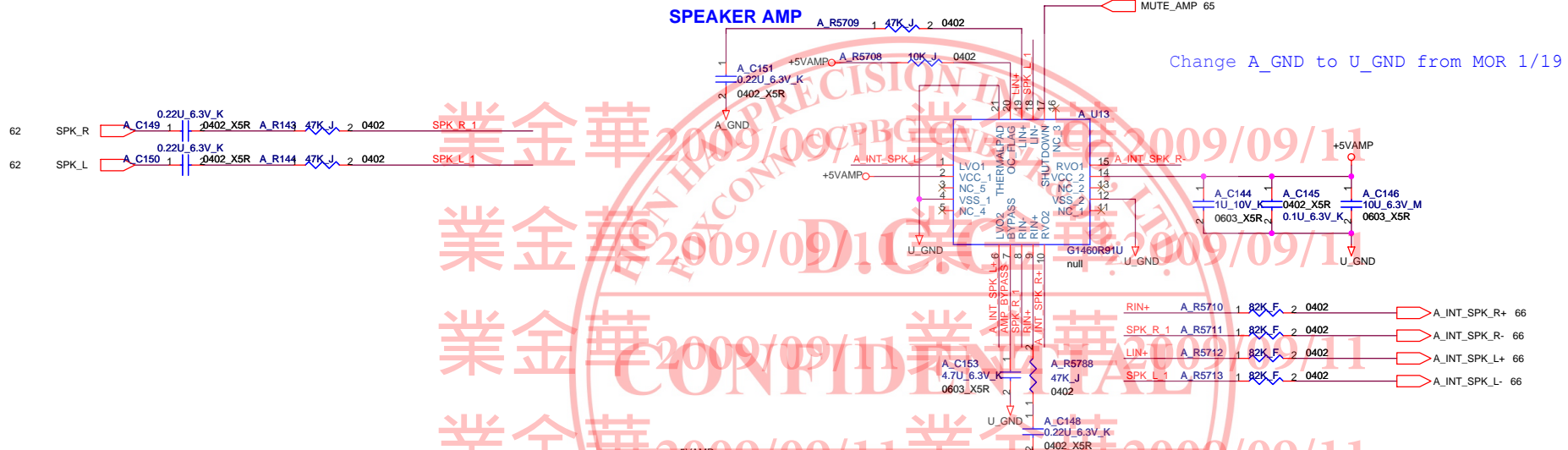
CONFIDENTIAL
RELEASE
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For EMI

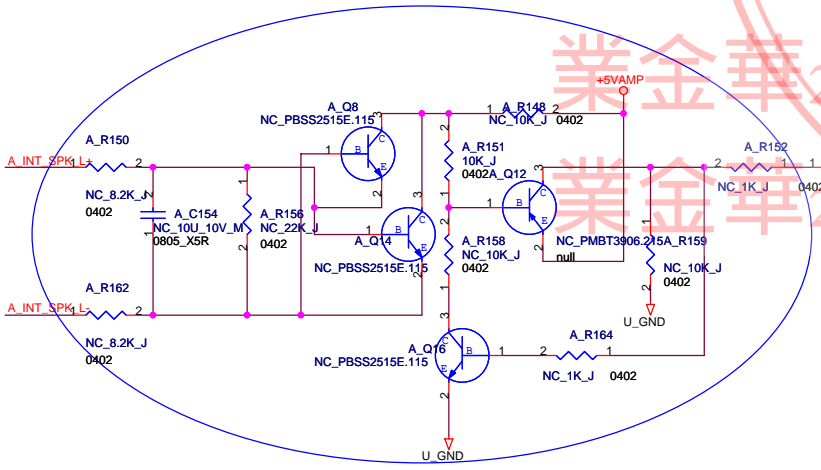


SPEAKER AMP

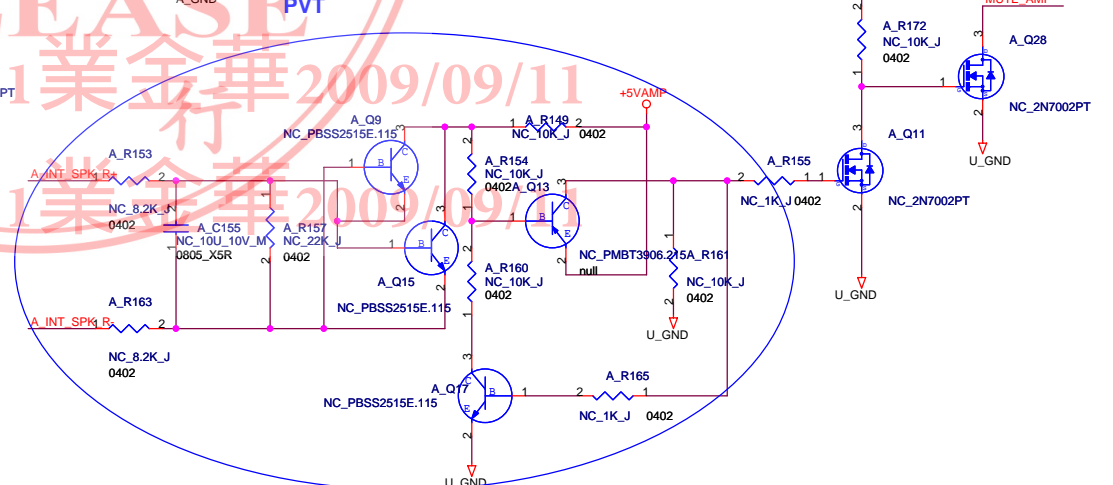


Change A_GND to U_GND from MOR 1/19

PVT

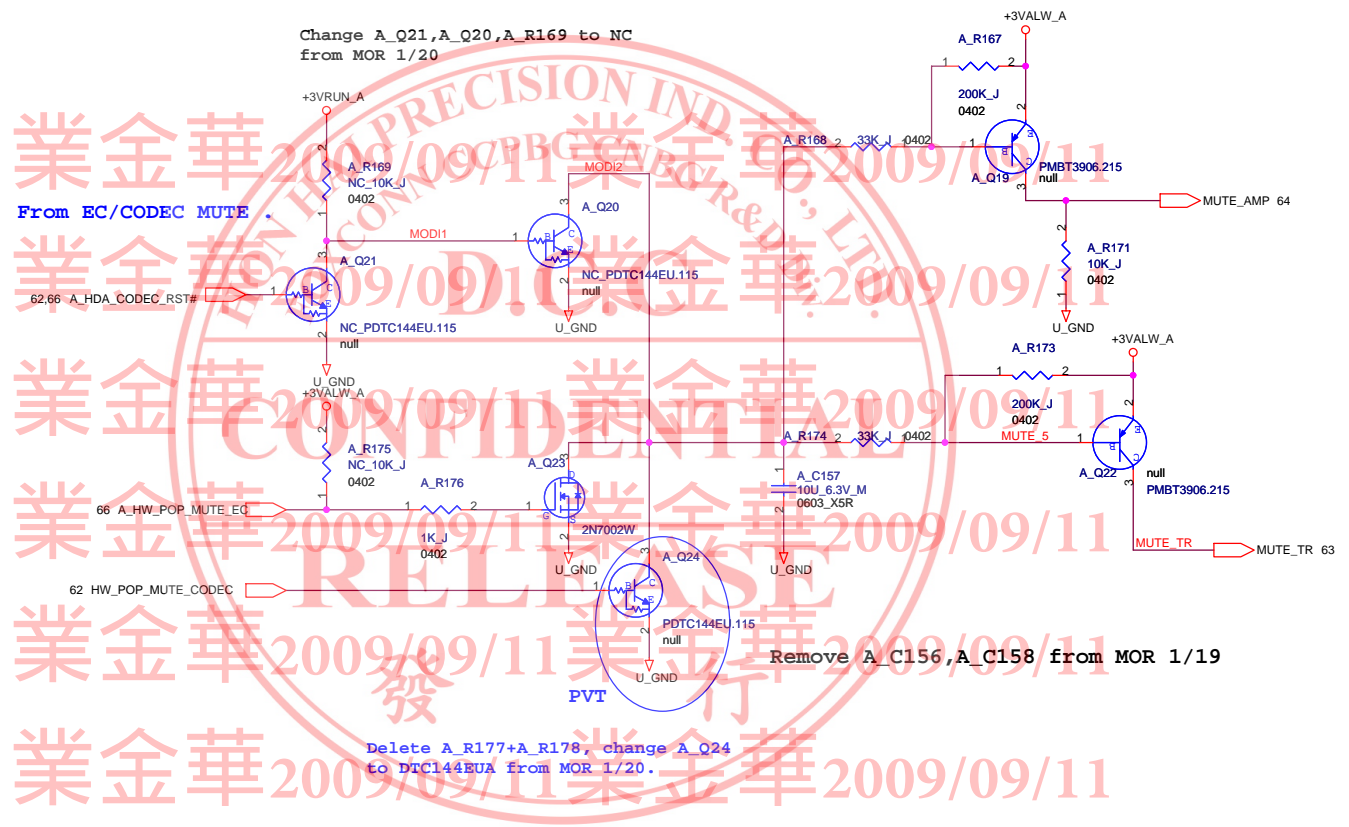


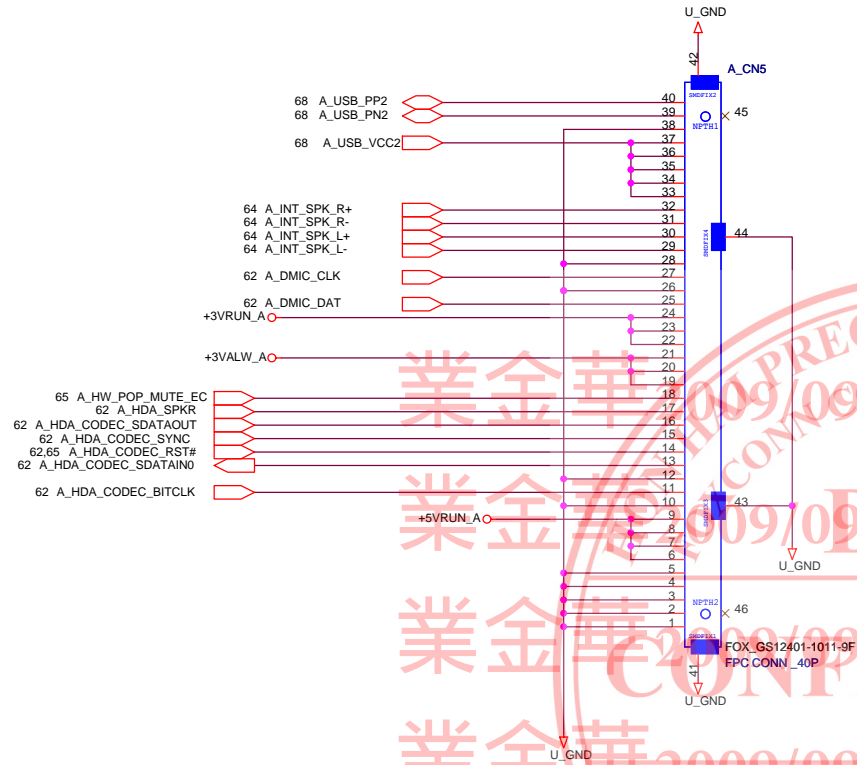
PVT



For Mor request, add the speaker cable short protection circuit

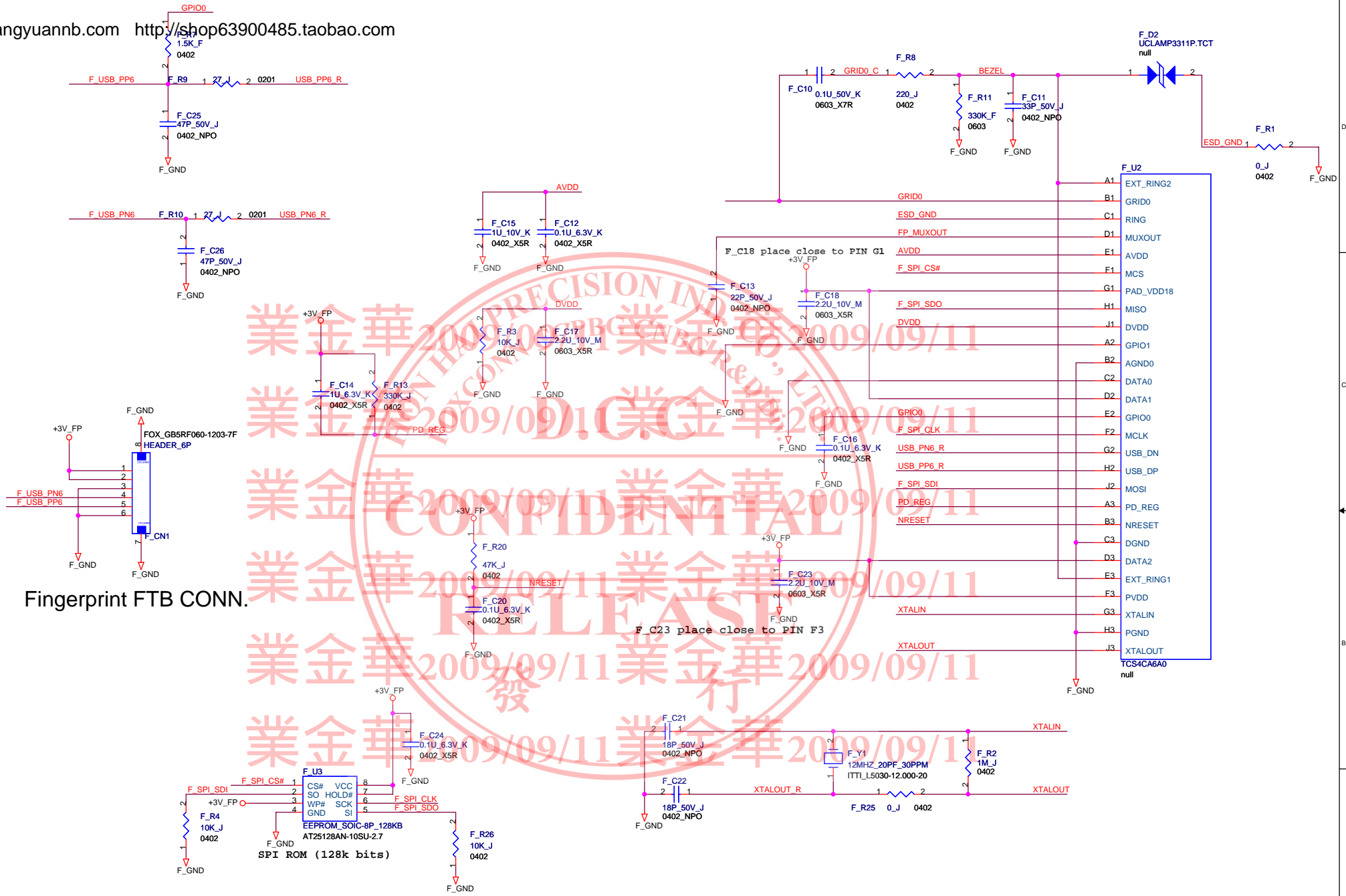
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RELEASE

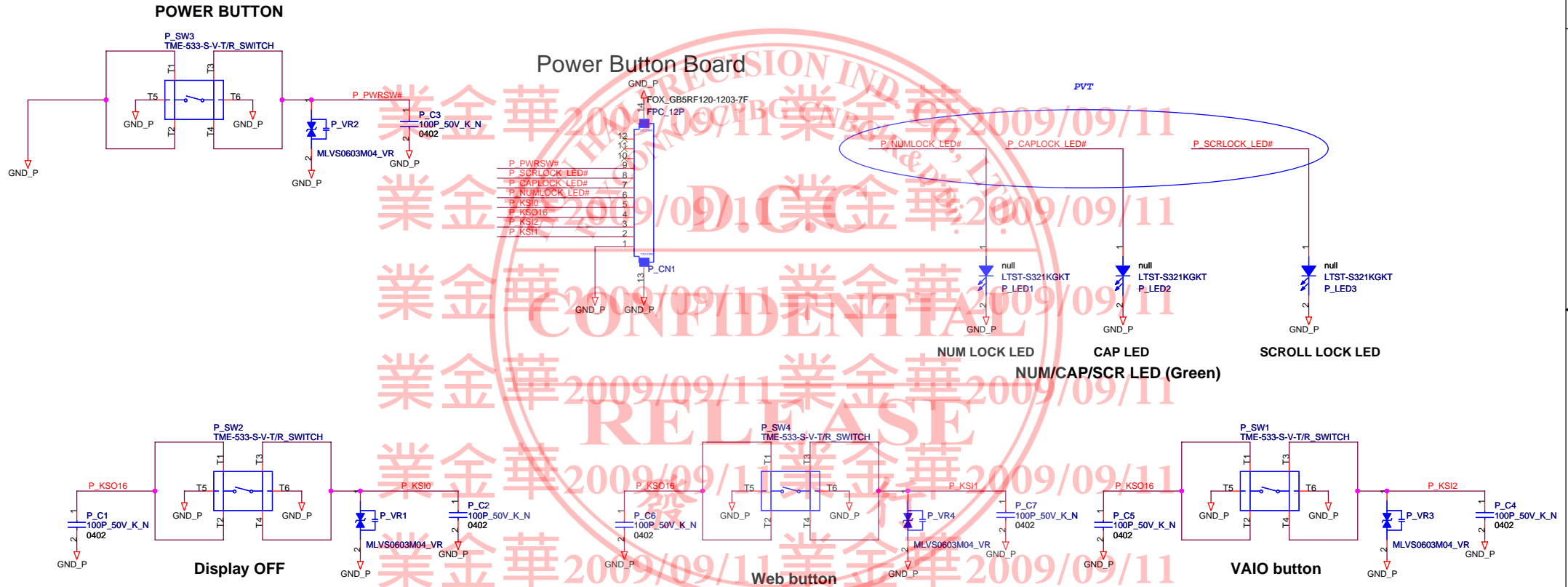


Fingerprint FTB CONN.

- F_TP5 1 26MIL F_SPI_CS#
- F_TP6 1 26MIL F_SPI_SDI
- F_TP7 1 26MIL F_SPI_CLK
- F_TP8 1 26MIL F_SPI_SDO

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(2009/01/08) <http://www.fangyuannb.com> <http://shop63900485.taobao.com>

- P.37 RP41 pin swap for layout request.
- P.31 RP1~RP4 pin swap for layout request.
- P.30 Reserve R5693 for SW test od del SW1.
- P.41 Change C5183 4.7u to 10u for FAE suggestion.
- P.33 Change D4 footprint for SMT request.
- P.34 Change D5,D6,D8 footprint for SMT request.
- P.35 Change D7,D14,D16 footprint for SMT request.
- P.37 Change D17,D18 footprint for SMT request.

(2009/01/09)

- P.44 Change R200 from 150 ohm to 100K.C286 change to 0402.
- P.50 Modify MS/SD LED circuit of active low schematic.
- P.06 Del R547,R556 for FAE suggestion.
- P.09,17 Change PCIE cap to 0402 size.
- P.46 Add 0 ohm resistor for SD Data.
- P.45 Add 0 ohm resistor for MS Data.
- P.64 Change SPK AMP circuit.
- P.41 Add C5252,C5253,C5254,C5255 for FAE suggestion.

(2009/01/10)

- P.03 Add Test point for CPU side (TP34,TP38)
- P.69 Change F_U3 to AT25128AN-10SU-2.7.

(2009/01/12)

- P.37,43 Add LED control signal for MOR request.
- P.64 Add A_R5708,A_R5709,A_R5710,A_R5711,A_R5712,A_R5713 for FAE request.

(2009/01/13)

- P.18 Add C878 change L74 for demo circuit.
- P.23 Remove R4813,R4802,R4803,R4804,C5127 from FAE.
- P.20 Change C1390 to 1u.
- P.16 Remove C1322
- P.20 Change R5265 to 10K ohm from Design guide.
- P.58 Add PC145 for power suggestion.
- P.41 Change C5184,C5185 cap size to 0402.
- P.69 Change F_C12,F_C16,F_C20,F_C24 size to 0402.
- P.46 Change C1985 size to 0402.
- P.70 Change P_LED1,P_LED2,P_LED3 to HT-170UYG for PE suggestion.
- P.50 Change LED9 to HT-170UD,LED2,LED8,LED6 to HT-170UY for PE suggestion.
- P.32 Change PCIE port, port3 for cardreader,port4 for Express from MOR suggestion.

- P.50 Add Q59,Q60 for power and suspend LED control.
- P.24 Add C5195,C5199 for DG.
- P.15 RP36,RP34,RP33,RP38 pin3,4 swap for layout.
- P.20 Change C5240 for PUR request.
- P.24 Change C5243,C5246 for PUR suggestion.
- P.30 Change C1264 for PUR suggestion.
- P.69 Change F_C10 for PUR suggestion.
- P.69 Change F_C28 size to 0402.

(2009/01/14)

- P.37 Add R5708 for power request.
- P.62 Add A_R117 and reserve A_C22,A_C23,A_CN3,change A_R116 for EMI suggestion.
- P.50 Modify power and suspend LED schematic.
- P.42 Change CN13 to LD2722F-S08L6 for ME request.
- P.54 Change PCN1 to BP91071-B71E3-7F for ME request.

(2009/01/15)

- P.62 Delete A_C112,A_R109.
- P.43,66 Modify DB conector pin define.
- P.21 Change R5269 value to stuff from MOR suggestion.

(2009/01/15)

- P.31 {HDMI}Delete R515,R538 because double pull-high.
- P.18/19 {VGA}Remove R5576,R5579,R5577,R5580
- P.62 {Audio}Change A_R112 to 10K and add A_R142 from MOR request.
- P.64 {Audio}Remove A_R150,A_R162,A_R153,A_R163.
- P.65 {Audio}Remove A_R172 because have double resistor.
- P.16 {VGA}Remove C5124.Add C1303 for DG.
- P.22 {VGA}Remove R5300 from FAE suggestion.
- P.17 {VGA}Add R5251 for N10P-Lp deivce ID 0x0A2A.
- P.43 {LED}Move LED circuit to MB.

(2009/01/19)

- P.55 {3V/5V}Add PR236,PR245,PC266,PC269 for EMI request.
- P.62 {Audio}A_CN3 For EMI Request.
- P.12 {Cantiga}Remove R211 from MOR request
- P.30 {LVDS} Change L43 to 600R-100MHZ_0805 from MOR request.
- P.37 {EC} Add 10K pull-high resistor for INST_ON_SW.
- P.30 Change SW1 to HDS406-021E_SW-SMD12 for INST_ON_SW function.
- P.45 {Cardreader} Add R818,C864 MOR request (For noise reduction).
- P.45 {Cardreader} Change C489 to 1u MOR request.
- P.46 {Cardreader} Change C1981 to X5R MOR request.
- P.46 {Cardreader} Remove R5377 for MOR request.
- P.65 {Audio}Remove A_C156,A_C158 from MOR request.
- P.62 {Audio} Change A_R123 to 200K from MOR request.
- P.64 {Audio} Change A_5709,A_5788 to 47K,A_C148,A_C151 to 1U from MOR request.

- P.26 {VRAM} Add C23,C25,C26,C28 For 2.4GHz noise.
- P.25 {VRAM} Add C30,C31,C32,C45 For 2.4GHz noise.
- P.16 {VGA} Add C46,C47,C48,C49,C50 For 2.4GHz noise.
- P.11 {Cantiga} Add C21,C53,C54 For 2.4GHz noise.
- P.14/15 {DDR3} Modify to DDR3 circuit from MOR request.

(2009/01/20)

- P.60 {OVP} Remove PD10 from MOR request.
- P.08 {Cantiga} Add U43, C820, R568,R582 to solve SUS_PWRGD level drop issue.
- P.37 {EC} EXT_DEV_SENSE change to GPIO33 from EC request.

(2009/01/23)

- P.45,46 {Cardreader} Change CN35,CN16 connector from ME request.
- P.34 {ICH9} Add R5714 for GPU ES sample.
- P.17 {VGA} Change R5251 to 15K,Add R5716 15K for FAE request.
- P.38 {EC} Add 1K pull-high from Vendor suggestion.
- P.43 {LED} Change LED power plan from 3V to 5V from MOR suggestion.
- P.17 {VGA} Change R5249 to 45.3K.

(2009/02/05)

- P.38 {SPI} Change U12 to MX25L1605DM2I-12G.
- P.21 {VGA} R5269 to no stuff from MOR request.
- P.22 {VGA} Reserve R5717 from MOR request.
- P.30 {LVDS} Change U29.1 to INV_EN from MOR request.(LCD timing)
- P.21 {VGA} Reserve R5718(+3VRUN) for IOVDD backup from MOR.

(2009/02/16)

- P.42 {SATA} Change CN13 HDD CONN from ME request.
- P.21 {VGA} Add C5138 for design guide v03.
- P.31 {HDMI} Delete LEVEL SHIFTER circuit from MOR.
- P.56 (+1_8V/+1_05V) Change PL12 to PCMB053T-1R5MS for Power request.
- P.45 {Cardreader} Change PCIE Head connector.
- P.43,69 {Fingerprint} Change Fingerprint CONN to 6pin for layout sapce.



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P.24 {VGA Power} Delete C5246,C5207,C5210
Add C6038,C6039,C5201,C6040,C6041 from DG v04.
P.25 {VRAM} Delete R5336,R5720,R5344,R5721 Add R5724,R5725
from DG v04.
P.26 {VRAM} Delete R5350,R5723,R5351,R5722 Add R5726,R5727
from DG v04.
P.18 {VGA} Delete C876,C6018,C6016,C6017,C6019 for M and L board.
for N10M.
P.18 {VGA} Delete C879,C6012,C6006,C6010,C6011 for M and L board.
for N10M.
P.21 {VGA} Change L70,L77 to 180R from DG v04.
P.21 {VGA} Change L75 to 220R from DG v04.
P.21 {VGA} Change C5132 to 1U from DG v04.
P.20 {VGA} Change C5200 to 1U and add C5202 from DG v04.
P.20 {VGA} Change L155 to 220R from DG v04.
P.20 {VGA} Add C1395,C1397,C1396 from DG v04.
P.14 {DDR} Change CAP13,C222,C219,C196,C221 to stuff.
P.15 {DDR} Change C202,C179,C197 to stuff.
P.54 {Charger} Reserve P_Q14,PD9 and PR34.
P.41 {LAN} Change L5 to LFE9249-R for PUR request.
P.70 {Power Board} Change P_SW1~P_SW4 to TME-533-S-V-T/R_SWITCH
from PUR request.
P.38 {SPI} Change R269 to 8.2K from FAE.

(2009/02/23)

P.50 {LED} Change LED2,LED6,LED9 for ME request.
P.49 {BT} Change BOSS11,BOSS12 to A40M20-31BS for ME request.
P.52 {HOLE} Change BOSS14 to A40M20-40BS for ME request.
P.39 {WLAN} Change BOSS1,BOSS2 to A40M20-30BS for ME request.
P.39 {WLAN} Change SW4 to 1BS007-12120-002-7F fro ME request.
P.39 {WLAN} Change CN21 to AS0B226-S52N-7F fro ME request.
P.68 {USB/DB} Change A_CN7 to UB11123_R1201_7F for ME request.
P.16 {VGA} Change L73 to 100NH from DG v04.
P.18 {VGA} Change L74 to 300R from DG v04.
P.50 {TP} Change F7 to 6V-0.25A_1206 from MOR request.
P.21 {VGA} Change L71 to 300R from DG v04.
P.20 {VGA} Change L76 to 300R from DG v04.
P.20 {VGA} Change L81,L83 to 100NH from DG v04.
P.42 {HDD} Change CN13 to LD2522H-S02 from ME request.
P.42 {ODD} Change CN25 to LN27133-F408-9F from ME request.

(2009/02/24)

P.69 Change F_D2 to UCLAMP3311P.TCT.
P.22 {VGA} Delete R5297,R5296.
P.47 {CAM} Change U41 to MAX4789EUK+T.
P.31 {HDMI} Delete RP1,RP2,RP3,RP4 from FAE suggestion.
P.24 {VGA} Change C6040,C6041 to 0.22U_6.3V_K from PUR suggestion.

(2009/02/25)

P.18 {VGA} Remove U56.J27 reserve circuit from FAE suggestion.
P.30 {LVDS} Change CN18 to GS12401-1011-9F from ME request.
P.54 {Charger} Change PF1 to 24V-7A_1206 from power request.
P.52 {HOLE} Delete BOSS3,BOSS13, add BOSS15 from ME request.
P.69 {FP} Delete F_BOSS1 from ME request.
P.64 {Audio} Change A_R5710,A_R5711,A_R5712,A_R5713 to 105K
from FAE suggestion.
P.22 {VGA} Add R5728,R5729 from FAE sguusetion.
Because use external thermal sensor.

(2009/02/26)

P.45 {Cardreader} Change CN11 to UV31413-RU82P-7H from ME request.
P.49 {BT} Change CN32 to QT510106-312H-7H from ME request.
P.29 {CRT} Change CN2 to DZ11A91-MB229-9F from ME request.
P.48 {USB} Change CN9,CN12 to UB111M3-CAGS4-7H from ME request.
P.42 {HDD} Change CN13 to LD2722F-SRYL6 from ME request.
P.41 {LAN} Chnage L5 to LG-2413S-1 from PUR suggestion.
P.47 {CAM} Change CN17 to HS6204E. Because move MIC to Audio board from MI request.
P.62 {Audio} Change A_CN3 to HS6202E from ME request.
P.47 {CAM} Delete L65,L63,C779,C780 from EMI request.
P.62 {Audio} Add A_L27,A_L28,A_C159,A_C160 from EMI request.
P.17 {VGA} Change R5251 to 15K from FAE request.

(2009/02/27)

P.20 {VGA} Change L154 to 33ohm from DG v04.
P.47 {CAM} Remove R7,R4. Add R8 from MOR suggestion.
P.11 {Cantiga} Change C21 value to NC from MOR request.
P.15 {DDR3} Add C59 from MOR request.
P.16,23 {VGA} Change L73,L81,L83 to TL160808-R10K.
P.18 {VGA} Add C6042 from MOR request.
P.27 {VRAM} Remove C14,C15 from MOR request.
P.28 {VRAM} Remove C16,C17 from MOR request.
P.39 {WLAN} Reserve R5370 from MOR request.
P.29 {CRT} Change R83,R72,R64 to 75ohm from MOR suggestion.
P.20 {VGA} Remove R5262,R5263,R5264 from MOR suggestion.

(2009/03/02)

P.39 {WLAN} Change BOSS1,BOSS2 footptint.
P.14 {DDR} Change C92 to 22P for RE suggestion.
P.14,15 {DDR} Remove C214,C200, because had same solution.
P.52 {HOLE} Modify F_PAD5,F_PAD6 PAD size from EMI request.
P.42 {HDD} Remove R5712, add open jump.
P.42 {ODD} Remove R5713, add open jump.
P.54 {Charger} Change PCN2 to GS73041-10272-7F from ME request.
P.21 {VGA} Change C5132,C5236 size to 0402 from DG v04.
P.54 {Charger} Change PCN1 to BP91071-B71E3-7H from ME request.

(2009/03/03)

P.62 {Audio} Change A_CN3 to HS8202E from ME request.
P.52 {HOLE} Add P_R4,P_C8(reserve) for EMI request.
P.50 {LED} Change LED2,6 to L-C170KRCT-FX for SPEC.
P.50 {LED} Change LED9 to HT-191UD for SPEC.
P.70 {Function} Change P_LED1,P_LED2,P_LED3,P_LED11 to L-C170KGCT-FX for SPEC.
P.39 {WLAN} Change LED3 to L-C170KGCT-FX for SPEC.
P.50 {TP} Chnage CN34 to GB5RF060-1203-7F for ME request.
P.39 {WLAN} Change SW4 to SSSS811101_SW-SMD7 from ME request.

(2009/03/04)

P.50 {TP} Add R5733~R5740 for co-lay 2 TP vendor.
P.14 {DDR} Change CN29 to AS0A626-U2SN-7F from ME request.
P.48 {USB} Add L156 for EMI suggestion.
P.61 {VGA} Change PR87 to 7.15K for power request.
P.52 {HOLE} Add BOSS16 for ME request.

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(2009/03/09) <http://www.fangyuannb.com>, <http://shop63900485.taobao.com>

P.48,43 {USB} Change F11,F117,F12 to 0V_2.0A_18P2!
P.62 {Audio} Change A_R118,A_R119,A_R120,A_R121,A_C116,A_C117,A_C119,A_C120,A_C127,A_C133,A_C131,A_C136 to 0402 size.
P.62,67 {Audio} Change A_C137,A_R119,A_R125,A_R5,A_R18 to 0402 size.
P.63 {HP} Change A_R127,A_R134,A_R128,A_R129,A_R130,A_R131,A_R132,A_R133,A_R135,A_R136,A_R137,A_R138 to 0402 size.
P.37 {EC} Change R476,R487,R484,R76,R210,R437,R479,R447,R432,R173,R197,R203,R124,R75,R442,R440,R477,R436,R431,R435,R613,R475,R629,R444 to 0402 size.
P.34 {ICH9} Change R302,R295,R563,R575,R574,R578,R320,R319,R271,R272,R337,R331,R334,R576,R309,R294,R300,R306,R298,R303,R316,R338,R577,R573,R332,R555,R562,R297,R322,R296,R567,R54,R540,R541,R299,R321,R305,R315 to 0402 size.
P.06 {CLK} Change R288,R283,R542,R537,R536,R545,R277,R553,R534,R276,R552,C357,C377,C369,C370,C383,C386 to 0402 size.

P.64 {SPK} Change A_C145,A_C140,A_C141,A_C142 to 0402 size.
P.54 {Charger} SWAP PD2 Pin1.2 for layout.
P.12 {Cantiga} Change R208,C234,C346,C320,C287,C316,C326,C328,C313,C298 to 0402 size.
P.06 {CLK} Change R544,R619,R620,R621,R543,R550,R546,R551,R549,C384,C382,C355,C375,C385,C352,C376,C387,C356 to 0402 size.
P.32 {ICH9} Change R53,R307,C449,C450,C727,C728,C706,C702,C729,C730 to 0402 size.
P.69 {FP} Change F_R9,F_R10,F_R20,F_R1,F_R25,F_R3,F_R26,F_R4,F_C12,F_C20,F_C24,F_C16 to 0402 size.
P.65 {Audio} Change A_R166,A_R171,A_R169,A_R175,A_R176 to 0402 size.
P.67 {HP} Change A_R7,A_R20,A_R170 to 0402 size.
P.08 {Cantiga} Change R268,R195,R286,R181,R130,R193 to 0402 size.
P.33 {ICH9} Change R101,R610,R318,R564 to 0402 size.
P.67 {MIC} Change A_R17,A_R3 to 0402 size.
P.65 {MUTE} Change A_R174,A_R168,A_R167,A_R173 to 0402 size.
P.38 {FLASH} Change R233 to 0402 size.

(2009/03/10)
P.55 {3V/5V} Change PU11 to SN0608098RHBR for power request.
P.55 {3V/5V} Change PC216 to 1U for power request.
P.54 {Charger} Add 2 test point for BFT.
P.43 {Audio} Move D-MIC and SPK circuit to MB for ME request.
P.43.66 {Audio} Change CN37 to 40 pin for ME request.
P.49 {BT} Delete R909 from MOR suggestion.Because Vespa is used only UGP29.

(2009/03/11)
P.46 {SD} Change U18 to BD2055AFJ-E2 for VEDS spec.
P.50 {TP} Change R529 value to stuff.
P.43,66 {Audio} Modify Audio connector pin define for layout.
(2009/03/12)
P.52 {HOLE} Add A_C159 for EMI request.
P.31 {HDMI} Delete U128, add U130 for low cost solution.

(2009/03/13)
P.29 {CRT} Change Q5,D1,R627,R284 value to no stuff from MOR request.
P.29 {CRT} Add R292 from MOR request.
P.37 {EC} Change C616 value to no stuff from power request.
(2009/03/16)
P.43,66 {Audio} Change Audio BTB connector pin define for EMI suggestion.
P.52 {HOLE} Change H45 for ME request.
P.42 {HDD} Change CN13 to LD2722F-SRVL6 from ME request.

(2009/03/17)
P.64 {SPK} Change cable short circuit from A_GND to U_GND.
P.50 {TP} Delete R5733~R5740 for remove co-lay 2 TP vendor.
P.64 {SPK} Change A_R5710,A_R5711,A_R5712,A_R5713 to 75K from FAE suggestion.

(2009/03/18)
P.50,70 {LED} Move Power & suspend LED to MB for ID modify.
P.54 {Charger} Change PCN1 to BP91071-B31E3-7H from ME request.
P.52 {HOLE} Add A_H49,A_H50 for ME request.
P.70 {LED} Change P_LED1,P_LED2,P_LED3 to L-S110KGCT-FX from ME request.
P.50 {TP} Change SW2,SW3 SKHMQKE010_SW-SMD5 from ME suggestion.
P.52 {HOLE} Delete P_PAD1,P_PAD2,P_PAD3,P_PAD4 for EMI request.

(2009/03/19)
P.52 {HOLE} Change BOSS14,BOSS15 from ME request.
P.49 {BT} Change U45 to AT5208-3.3KER.
P.50 {TP} Change R530 to stuff,R529 to no stuff from MOR request.
P.64 {SPK} Change A_Q10,A_Q11 to 2N7002PT and add A_Q27,A_Q28,A_R172,A_R177.
P.65 {MUTE} Delete A_Q18,A_R166 for MUTE_AMP high active of AMP.

(2009/03/20)
P.52 {HOLE} Delete A_C159 from EMI suggestion.
P.52 {HOLE} Change BOSS15 to BOSS_3.72x4 from ME request.
P.31 {HDMI} Change CN31 to QJ1119L-NT10-4H from ME request.
P.04 {CPU} Reserve C6047 for H DPRSTP#.

(2009/03/23)
P.22 {VGA} Delete R5728,R5729 because double pull-high.
P.38 {EC} Move R269 to SPI_ROM_CS# signal of EC side.
P.16 {VGA} Change C571,C569 value to no stuff. because control IC have 22uF.
P.14 {DDR3} Change CAP13 to no stuff.
P.54 {Charger} SWAP PD2 pin1,2 for layout request.
P.30 {LVDS} Add CN18.32 to GND.
P.17 {GPU} Change R5689 to 24.9K from DG v04.
P.52 {HOLE} Reserve A_C159 to A_GND from EMI suggestion.
P.69 {FP} Change F_R9,F_R10 to 0201 size for layout space issue.

(2009/03/24)
P.52 {HOLE} Delete SPK1 for EMI request.
(2009/03/25)
P.19 {VGA} Change R5256,R5257 to 56.2 and 27 ohm from N10M PUN modify.

(2009/03/27)
P.50 {TP} Change R529 to stuff,R530 to no stuff for new TP power.
P.08 {Cantiga} Change C820 to Y5V.
P.57 {1.5V 0.75V} Change PC250 to no stuff.
P.59 {Others} Change PC262,PC264,PC265,PC270,PR262,PR263,PR264,PQ50,PQ55,PR265,PR266,PQ51 to no stuff.
P.29 {CRT} C577,C592,C583,C584 to no stuff.
P.30 {LVDS} Delete L43,Add R5731 and change R394 to no stuff.
P.41 {LAN} Delete L152,Add R5733.C5164 change to 10U.
P.42 {SATA} Change C285,C757 to no stuff.
P.48 {USB} Delete L156, Add R5372, Change CAP16,CAP18 to 47UF.
P.50 {LED} Change C6045,C6046,C295,C301 value to no stuff.

(2009/04/03)
P.34 {ICH9} Change R5714 value to no stuff.
P.17 {VGA} Change R5250 to 34.8K from PUN update.
P.39 {WLAN} Change C531,C546,C573 value to no stuff.
P.16 {VGA} Change C1290,C1300,C1312 to no stuff.
P.18 {VGA} Change C874 value to no stuff.
P.20 {VGA} Change C1395,C1397,C5196,C5197 value to no stuff.
P.11 {Canita} Change CAP6 to NC.



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(2009/04/10)

- P.21 {VGA} HDMI I2C data and CLK signal swap.
- P.19 {VGA} Change R5256 to 56.2_F,R5257 to 40.2_F for PUN V07.
- P.37 {EC} Add R478 pull-down resistor for BL_OFF#.
- P.50 {TP} Modify SW2,SW3 pin define.

(2009/04/18)

- P.39 {WLAN} SW4.C pin delete and SW4.A connect to GND for ME ID design.
- P.61 {VGA POWER} Change PR99 to 13.7K, PR110 to 33K,PC85 value to stuff for N10M GPU power.
- P.61 {VGA POWER} Change PR99 to 13.7K, Change PR110 to NC_* for N10P GPU power.
- P.44 {Thermal} Delete R426,R430 for vendor suggestion.
- P.30 {LVDS} Delete U25,U29,U2,U23 and Add U131 (4 channel) for can reducing parts.

(2009/04/21)

- P.58 {CPU_CODE} Change PR67 to 3.3K from Power request.

(2009/04/22)

- P.43,54 {Charger} Modify charger board BTB connector from ME request.
- P.55 {3V/5V} Change PC216 to 1U_6.3V from power request.

(2009/04/28)

- P.50 {LED} Change LED2,LED6 to HT-110UY for ME request.
- P.50 {LED} Change LED9 to HT-110UD for ME request.
- P.43 {SPK} Change JSPK1 to HS6104E for ME request.
- P.47 {CAM} Change CN17 to HS6106E for ME request.
- P.52 {HOLE} Add BOSS17 for ME request.

(2009/04/30)

- P.54 {Charger} Change charger board location to C_*.
- P.29 {CRT} Change D11 to SSM22LLPT for leakage issue.
- P.30 {LVDS} Change R5241 to no stuff, because had double PL.

(2009/05/04)

- P.43 {Audio} Change F12 from 2.6A to 0.75A, because +5VRUN power budget only 0.55A.
- P.50 {LED} Change power/suspend LED circuit, same M850.
- P.37 {KB} Add 10 test point for BFT.

(2009/05/05)

- P.39 {WLAN} Chnage LED3 to HT-110UYG for ME request.
- P.70 {Function} Change P_LED1~PLED3 to HT-110UYG for ME request.
- P.30 {LVDS} Add J3 for BFT test.

(2009/05/07)

- P.39 {WLAN} Add TP499,TP509 for Power test.
- P.50 {LED} Add TP494,TP496,TP495,TP493,TP488,TP490,TP491,TP489,TP498,TP497 for power test.
- P.57 {DDR Power} Change PU17 pin6 change from +3VSUS to +3VALW for Power request.
- P.58 {CPU Power} Add TP176 for Power test.
- P.54 {Charger} C_PU1 change to BQ24753ARHDR and schematic_part select bq24753ARHDR_T821_PWR for power request.
- P.60 {OVP} PU2 change to G1336BTB1U for power request.
- P.60 {OVP} Del PR40,PR41 and pin6 link to +5VALW_LDO directly.
- P.30,43,66 {LVDS,BTB,Audio} Change CN18,CN37,A_CN5 to GS12407-11151-9F from ME request.

(2009/05/11)

- P.58 {CPU} Add 0.1ux5pcs (EC283~EC287) and PC143,PC149 stuff for EMI suggestion.
- P.25 {VRAM} Add EC6048 for EMI suggestion.
- P.59 {Others} Add EC288,EC289,EC290 for EMI suggestion.
- P.64 {Audio} Delete A_R141, Add A_EC160 for EMI suggestion.
- P.14 {DDR} Change CN29 to AS0A626-N2SN-7H from ME request.
- P.15 {DDR} Change CN30 to AS0A626-JASG-7H from ME request.
- P.40 {Express} Delete R330,R333, Add L37 for express card SI test fail issue.

(2009/05/13)

- P.46 {SD} Change R5694,R5695,R5697,R5698 to 33ohm for SI test solution.
- P.45 {MS} Change R5704,R5705,R5707,R5701 to 33ohm R5703 to 68ohm for SI test solution.
- P.43 {Audio} Chnage A_C110 to C6048 for layout suggestion.
- P.43 {Audio} Chnage A_F16,A_F17 to F15,F16 for layout suggestion.
- P.33 {ICH9} Change CN10 to HS8102E from ME request.
- P.45 {MS} Change CN35 to JES014-2000-1 from ME request.
- P.30,43,66 {LVDS,BTB,Audio} Change CN18,CN37,A_CN5 to GS12401_1011 for ME request.
- P.52 {HOLE} Change function board and Audio board serew.
- P.69 {FP} Change F_CN1 pin define from ME request.
- P.70 {Function} Change P_CN1 pin define from ME request.

(2009/05/18)

- P.56 {+1 05V} Add 3pcs 680p CAP of EMI suggestion.
- P.54 {Charger} Add C_PR136 of EMI request.
- P.47 {DMI} Delete L157,L158, add R5734,R5735 for EMI request.
- P.43,54 {Charger} Modify charger board CONN pin define for EMI suggestion.

(2009/05/19)

- P.62 {Audio} Change A_C23,A_C22 to 15p, And delete A_R117,A_R116 Add A_L158,A_159 for EMI request.

(2009/05/20)

- P.56 {1.8/1.05V} Change power solution to TPS51218DSCR for power request.
- P.57 {1.05/0.75V} Change power solution to TPS51218DSCR for power request.

(2009/05/21)

- P.41 {LAN} Change R5733 to Bead (L152),Add E_C6054,E_C6055,E_C6056 for EMI request.
- P.46 {SD} Add E_C6049,E_C6050 for EMI request.
- P.40 {Express} Add E_C6051,E_C6052 for EMI request.
- P.50 {LED} Add E_C6053 for EMI request.

(2009/05/22)

- P.56 {1.8V 1.05V} Change PR235 to 9.76K, PC176 to 330U for power request.
- P.52 {HOLE} Add SPR1,SPR2 for EMI request.
- P.41 {LAN} Add E_C6054-E_C6057 for EMI request.
- P.70 {Function LED} Change P_LED1,P_LED2,P_LED3 for factory request.
- P.39 {WLAN LED} Change LED3 for factory request.
- P.50 {LED} Change LED2,LED6 for factory request.

(2009/05/23)

- P.55 {SYSPOWER} Add E_C6059,E_C6060,E_C6061,E_C6062 for EMI request.
- P.41 {LAN} Add E_C6058 for EMI request.
- P.44 {LAN} Add E_C6064 for EMI request.
- P.61 {VGA Power} Add E_C6063,E_C6065 for EMI request.
- P.54 {Charger} Reserve E_C6066 for EMI request.
- P.55 {SYSPOWER} Reserve E_C6067,E_C6068,E_C6069,E_C6070 for EMI request.

(2009/05/25)

- P.11 {Cantiga} Delete C21 from MOR request.
- P.45 {MS} Change R376,R373,R5373,R5374 to 54.9 ohm for i.LINK test issue.
- P.20 {VGA} Change R1228,R1231 to NC_* from MOR suggestion.
- P.47 {CAM} Change CN17 to HS6206E for ME request.
- P.64 {SPK} Delete A_C147,A_C152,Change A_C149,A_C148,A_C150,A_C151 to 0.22u for POP noise issue.
- P.64 {SPK} Change A_R5710~A_R5713 resistor to 82K for SPK low voice issue.
- P.43 {FP} Change U3 to Max4785 for FP current limit issue.
- P.46 {SD} Change CN16 to WK21923-S6P1-7F from ME request.
- P.30 {LVDS} Add Swith circuit for rush current issue.



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(2009/06/03)
P.30 {LVDS} Change SW1 to DHNF-06F-T-V-T-R_SW-SMD12 because original part well EOL.
P.17 {VGA} Add R5252 for nVIDIA suggestion.

PVT
(2009/07/01) <http://www.fangyuannb.com> <http://shop63900485.taobao.com>

P.30 {LVDS} Modify rush current circuit.
P.29 {CRT} Change CN2 to DZ11A91-MB229-9H for ME request.
P.44 {FAN} Change CN20 to HS8103E-LH for ME request.
P.37 {EC} Change CN3 to 196009-24021-3 for ME request.
P.41 {LAN} Change CN22 to HS6108E-LH fot ME request.
P.50/43/69 {TP} Change CN34/CN36/F_CN1 to GB5RF060-1203-7H for ME request.
P.39 {WLAN} Change CN21 to AS0B226-S52N-7H for ME request.
P.43 {BTB} Change JSPK1 to HS6104E-LH for ME request.
P.67 {HP} Change A_CN1 to JA93331-B18106-7H for ME request.
P.52 {HOLE} Change BOSS16 and Add BOSS18 for ME request.
P.45 {Cardreader} Change CN11 to UV31413-WU82P-7H for ME request.
P.38 {Flash} Change CN23 to QT510306-L011-7H for ME request.

(2009/07/03)
P.65 {MUTE} Change A_Q24 to stuff from MOR request.
P.42 {HDD/ODD} Remove PJ12,PJ13,F13,F14 for PVT not need.
P.64 {AMP} Modify cable circuit to no stuff.

(2009/07/06)
P.49 {BT} Add TP568~TP574 test point of BT.
P.49 {BT} Remove L72. DVT no mount because have 2 0ohm res.
P.40 {EXpress} Delete R333,R330,L38,L40. because have colay parts.
P.48 {USB} Delete L66,L61 because have colay res.

(2009/07/07)
P.67 {Audio} Change A_CN2 to JA93331-R18106-7H from ME request.
P.33 {ICH9} Change CN10 to HS8202E-LH from ME request.
P.70 {Function} Move P_R1,P_R2,P_R3 TO PAGE. 50 from MOR side suggestion.
P.55,56,57,61 {Power JP} Modify power Jump for power request.
P.30 {LVDS} L43 no stuff and Q177,C575,R5736,R5737 stuff for LVDS dcbatout inruch current issue.

(2009/07/10)
P.57 {DDR3} Add PJ6 for Power request.
P.45 {MS} Change R5700,R5706,R5699,R5702 to 33ohm for overshoot issue.
P.68 {USB} Change A_CN7 to UB11123-R1201-7H for ME request.
P.39 {WLAN} Add TP575 for WLAN test point.

(2009/07/15)
P.05 {CPU VID} Delete R29,R30,R31,R32,R39,R40,R41 for power suggestion.
P.54 {Charger} Change C_EC6066,C_PC156 to 1u for EMI request.
P.48 {USB} Add USB test point of BFT.
P.58 {CPU} Reserve EC294,EC295,EC296 on DCBATOUT for EMI request.

(2009/07/16)
P.52 {HOLE} Change SPR1,SPR2 for EMI request.
P.46 {SD} Change CN16 to WK2192C-S6P2-4H for ME request.
P.54 {Charger} Change C_PC1 to BP91071-B31E3-7H for ME request.
P.46 {SD} Change CN16 to WK2192C-S6P2-4H from ME request.

(2009/07/17)
P.23 {VGA} Add R5741,R5742 0 ohm for MOR suggestion.
P.52 {HOLE} Change P_H51,P_H53 for ME request.

(2009/07/18)
P.52 {HOLE} Add function board hole for ME request.
P.50 {LED} Change R599,R600 to 499,300 ohm for brightness issue.

(2009/07/24)
P.60 {OVP} Change PR55 to 18.2K,PR143 to 26.1K,PR144 to 80.6K and mount PR73 from MOR request.



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