Schematics Page Index (Title / Revision / Change Date)

BOM Control Table

Value / Prefix	CA_	AT_	DS_	ND_	LND_	HD_
UMA (W/ Dock)	V		V			
UMA (W/O Dock)	V			V	V	
M82 (W/ Dock)		V	V			
M82 (W/O Dock HDMI)		V		V		
M82 (w/dock W/ HDMI)		V	V			V

Project Code & Schematics Subject: M750 Main Board

PCB P/N:

FOXCONN HON HAI Precision Ind. Co., Ltd.
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Title: Index Page

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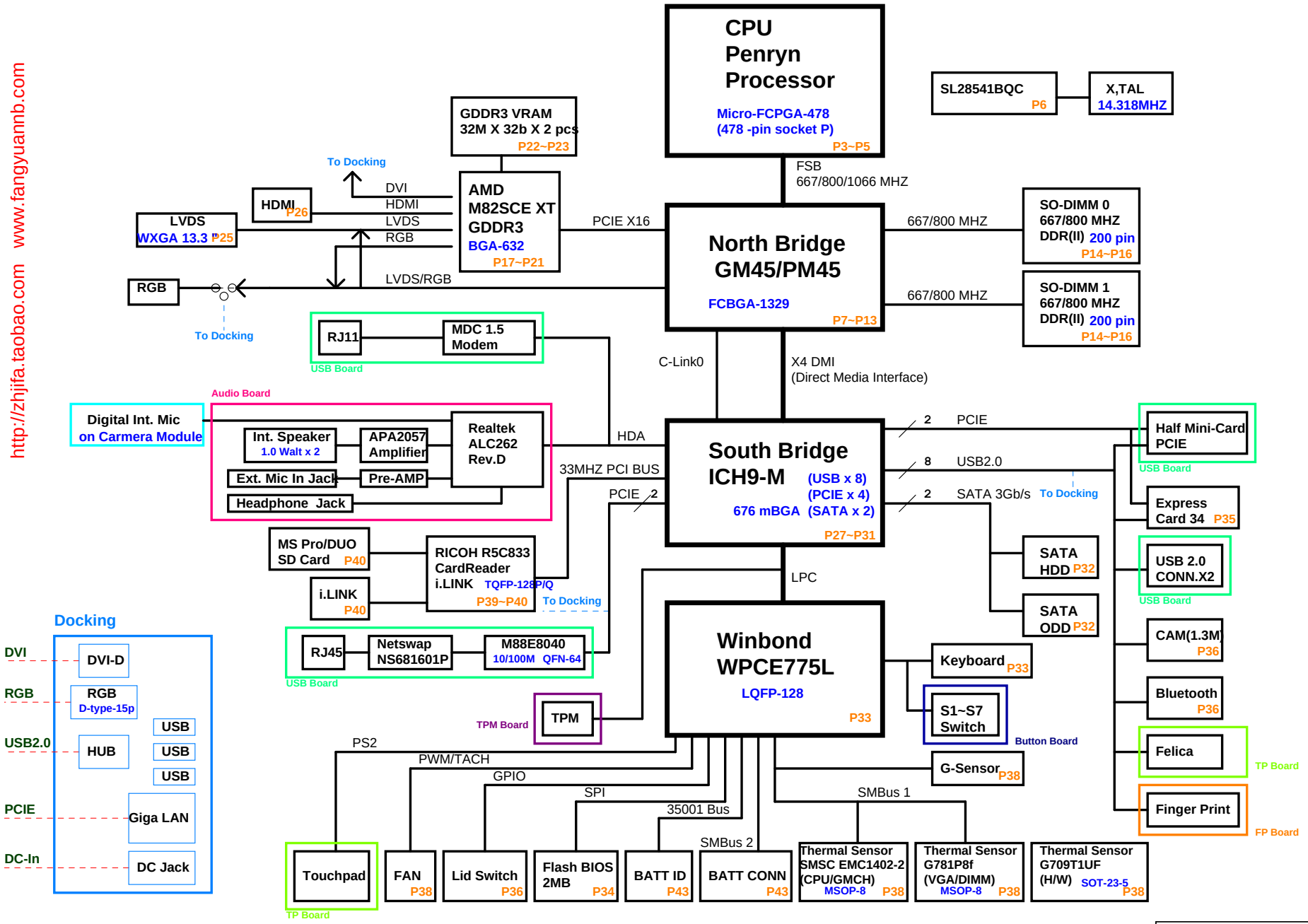
M750 (Montevina + M82SCE XT)



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

Title	Block Diagram	
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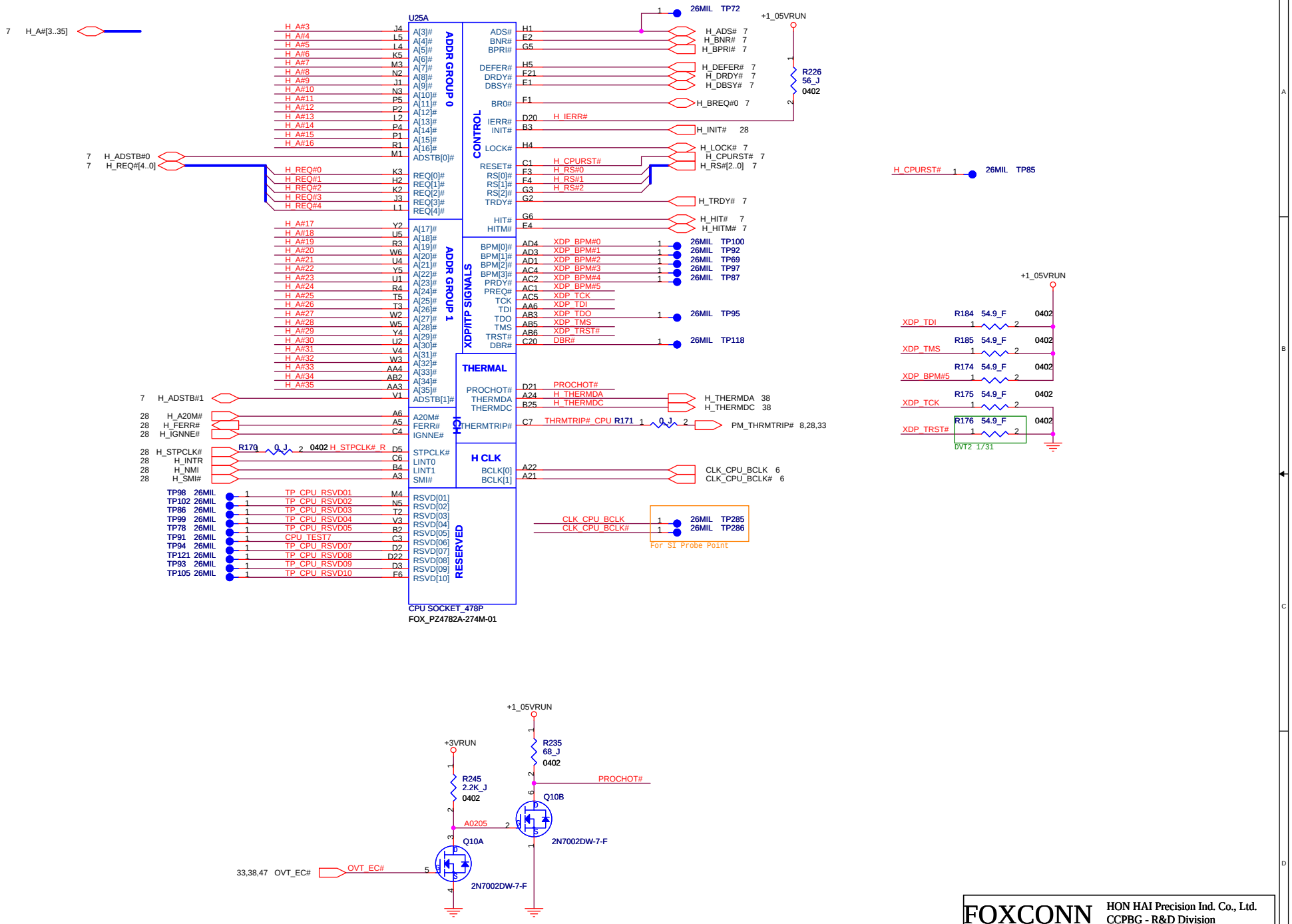
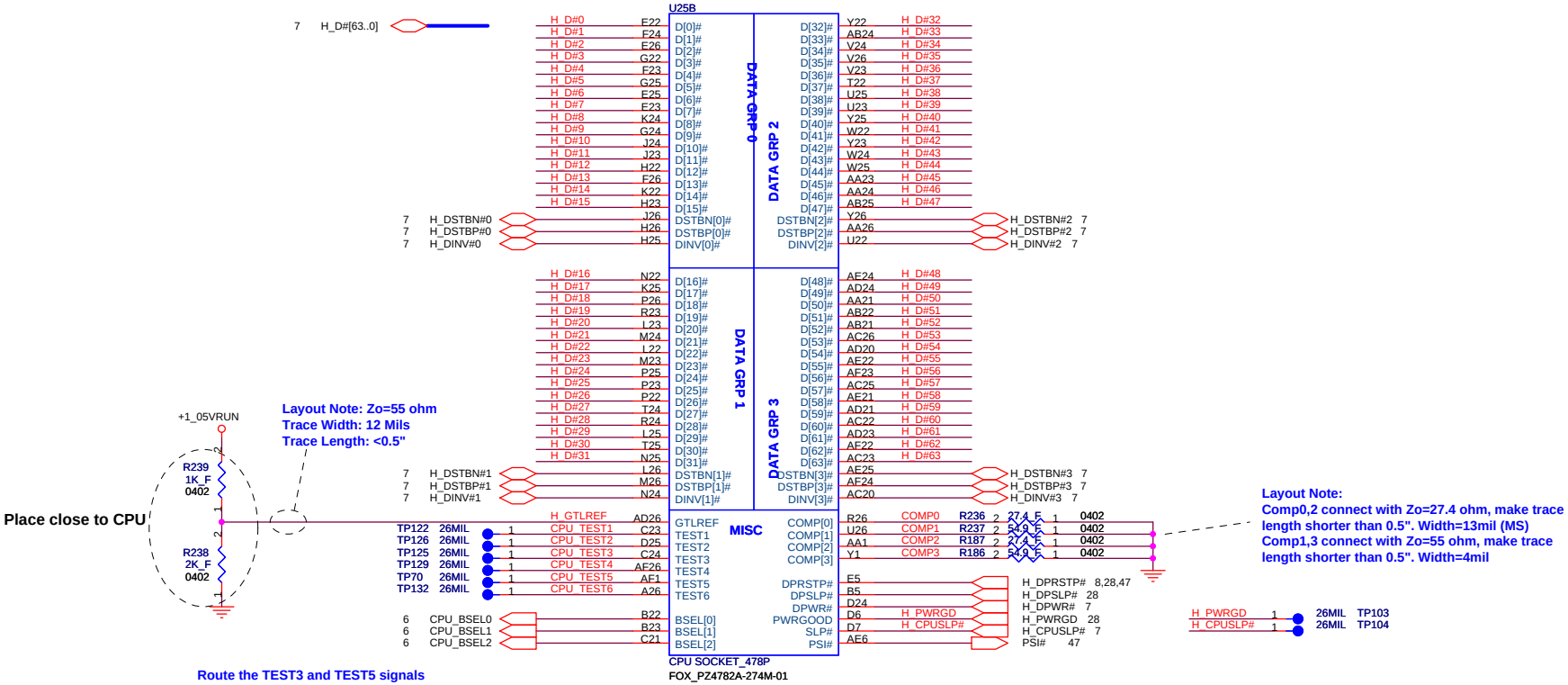


FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division		
Title	Penryn (HOST BUS) 1/3		
Size A3	Document Number M750-1-01		Rev 1.0
Date: Monday, June 23, 2008		Sheet 3 of 54	



FOXCONN HON HAI Precision Ind. Co., Ltd.
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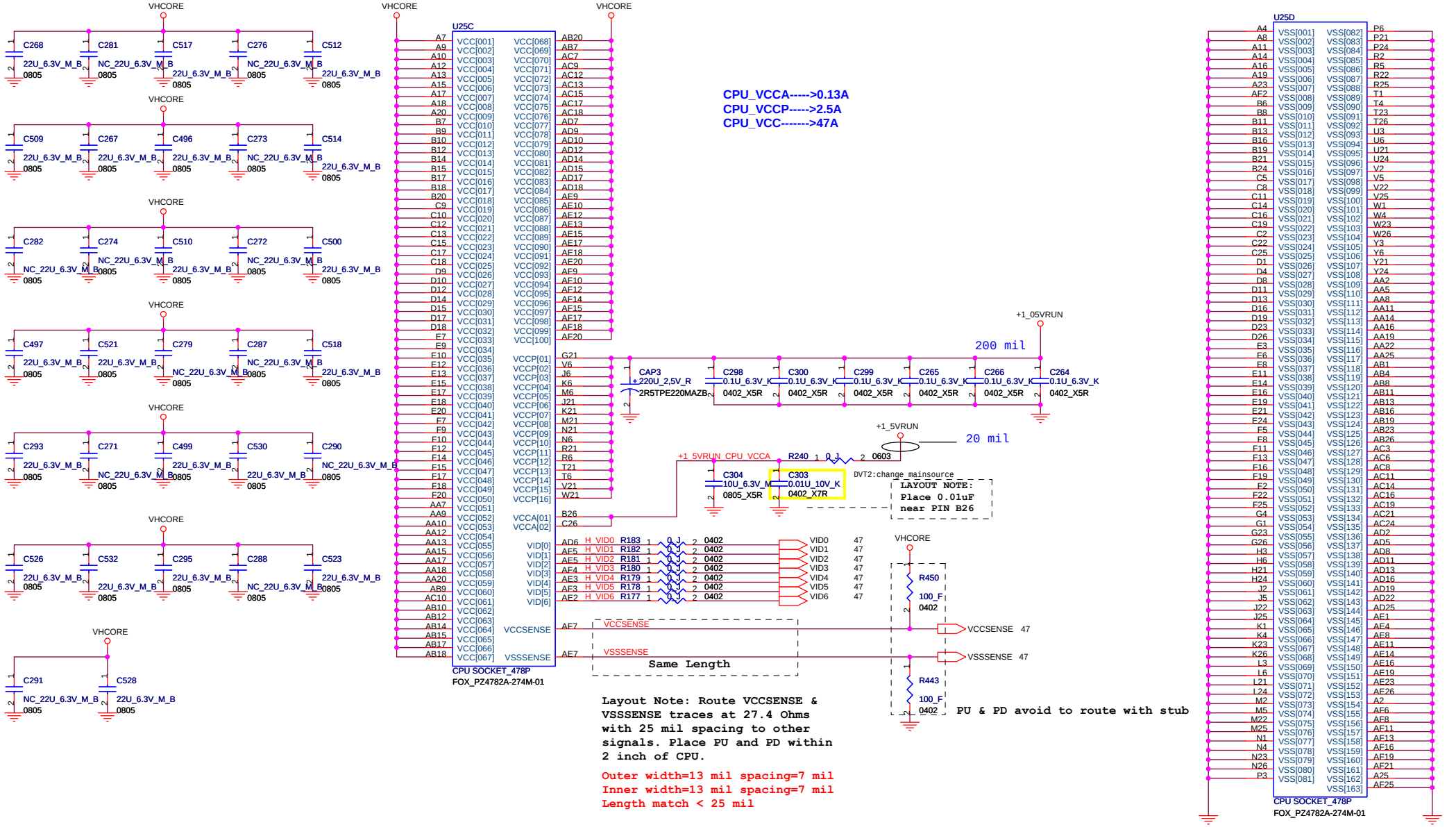
Title	Penryn (HOST BUS) 2/3	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Monday, June 23, 2008	Sheet 4 of 54	



FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	Penryn (POWER/GROUND) 3/3	
Size A3	Document Number M750-1-01	Rev 1.0
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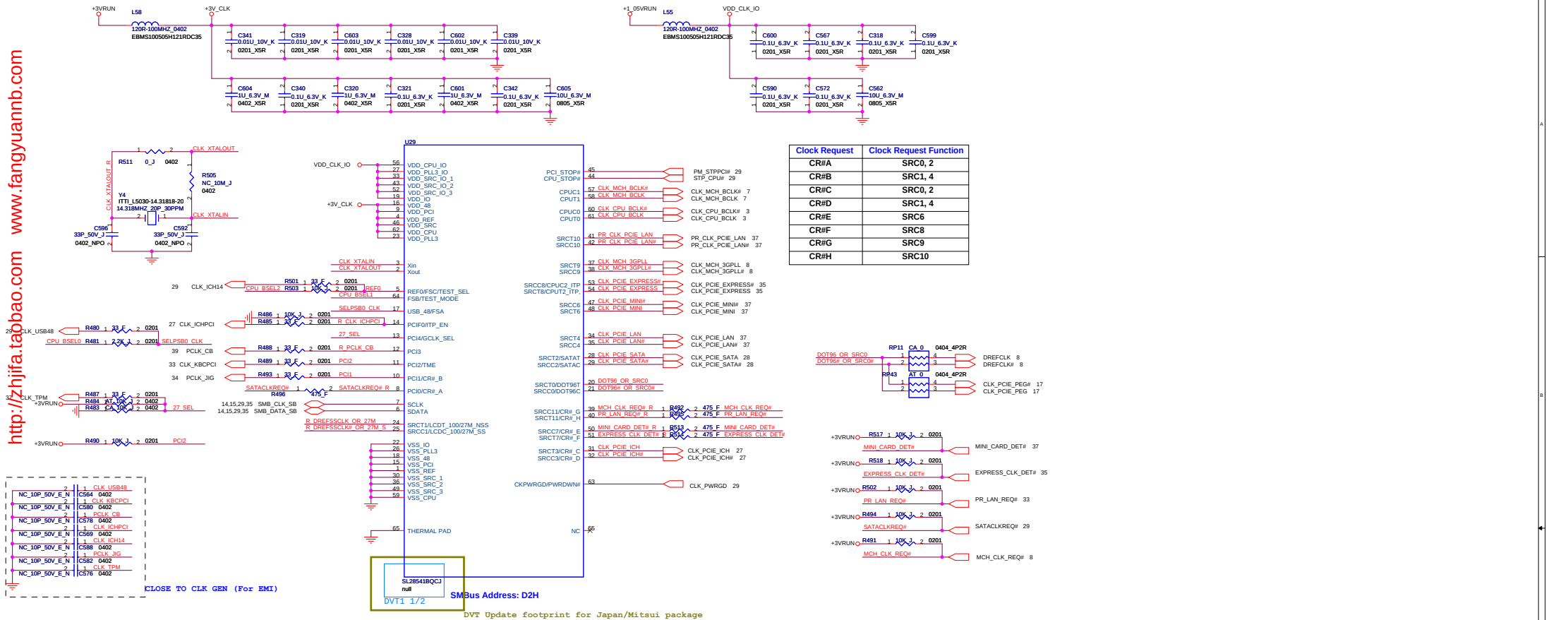

Clock Request	Clock Request Function
CR#A	SRC0, 2
CR#B	SRC1, 4
CR#C	SRC0, 2
CR#D	SRC1, 4
CR#E	SRC6
CR#F	SRC8
CR#G	SRC9
CR#H	SRC10

FSB Frequency Table:

FSLC	FSLB	FSLA	CPU	SRC	PCI
0	0	0	266.66	100	33
0	0	1	133.33	100	33
0	1	0	200	100	33
0	1	1	166.66	100	33
1	0	0	333.33	100	33
1	0	1	100	100	33
1	1	0	400	100	33

FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division
Title	CLOCK GEN
Size A2	Document Number M750-1-01
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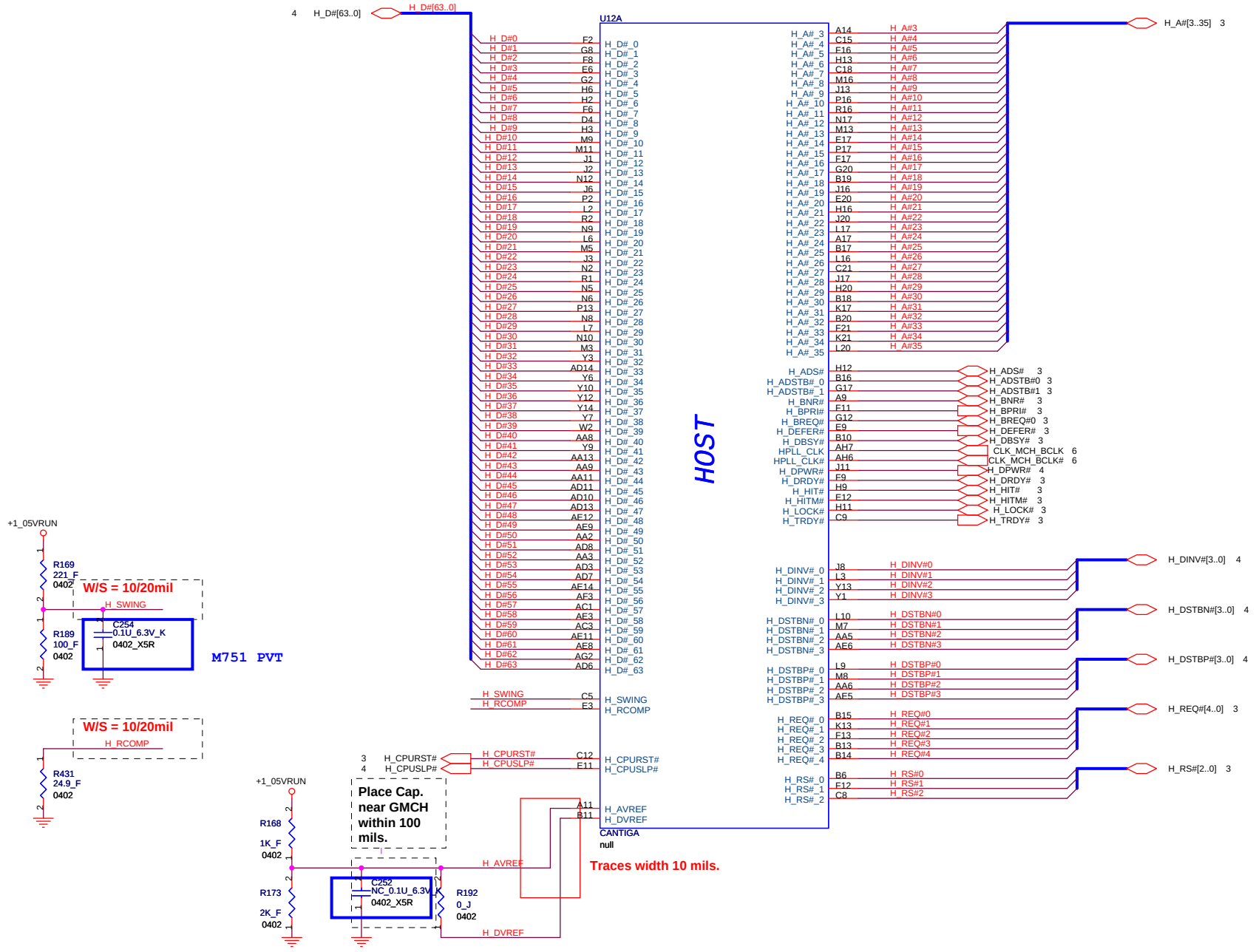

FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division		
Title	Cantiga (HOST) 1/7		
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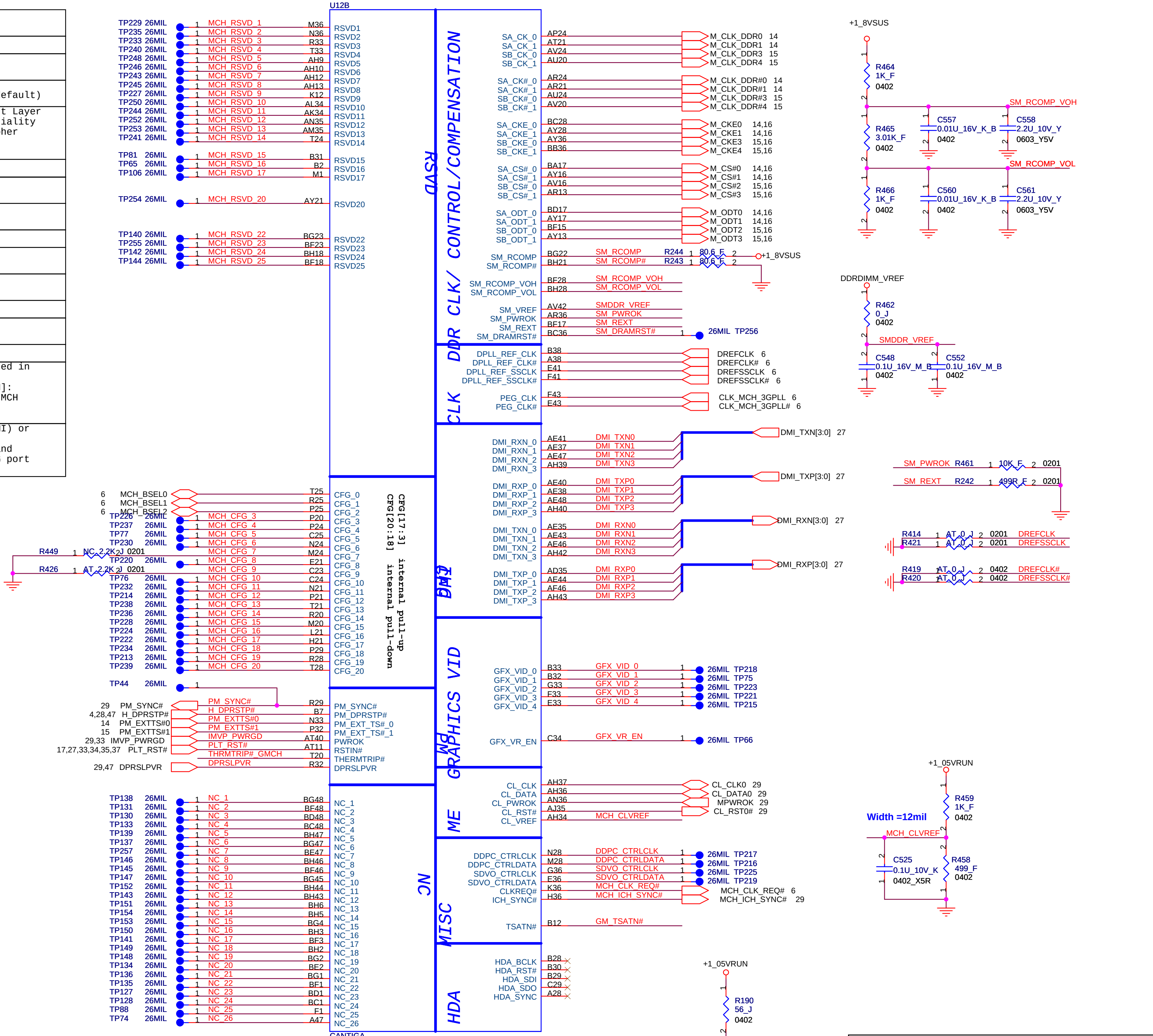
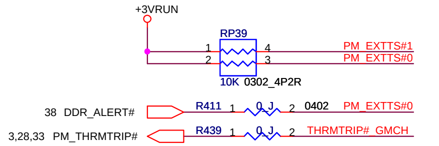
MCH_CFG_0~2 FSB Frequency	000 = FSB1066 ; 010 = FSB800; 011 = FSB667 ; Others = Reserved
MCH_CFG_3~4	Reserved
MCH_CFG_5 DMI X2 Select	Low = DMI X2 High = DMI X4 (Default)
MCH_CFG_6 ITPM Host Interface	Low =The ITPM Host Interface is enabled High = The ITPM Host Interface is disabled (default)
MCH_CFG_7 Intel Management Engine Crypto Strap	Low = Intel Management Engine Crypto Transport Layer Security (TLS) cipher suite with no confidentiality High = Intel Management Engine Crypto TLS cipher suite with confidentiality (default)
MCH_CFG_8	Reserved
MCH_CFG_9 PCIE Graphics Lane	Low = Lane Reversed High = Normal operation
MCH_CFG_10 PCIE Loopback enable	Low = Enabled High = Disabled (default)
MCH_CFG_11	Reserved
MCH_CFG_12 ALLZ	Low = ALLZ mode enabled High = Disabled (default)
MCH_CFG_13 XOR	Low = XOR mode enabled High = Disabled (default)
MCH_CFG_14~15	Reserved
MCH_CFG_16 FSB Dynamic ODT	Low = Dynamic ODT disabled High = Dynamic ODT enabled (default)
MCH_CFG_17~18	Reserved
MCH_CFG_19 DMI Lane Reversal	Low = Normal operation (Default): Lane Numbered in Order High = Reverse Lanes DMI x4 mode [(G)MCH->ICH]: (3->0, 2-> 1, 1->2 and 0->3) DMI x2 mode [(G)MCH ->ICH]: (3->0, 2->1)
MCH_CFG_20 Digital Display Port (SDVO/ DP/iHDMI) Concurrent with PCIe	Low = Only digital display port (SDVO/DP/iHDMI) or PCIe is operational (default) High = Digital display port (SDVO/DP/iHDMI) and PCIe are operating simultaneously via the PEG port





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

Title	Cantiga (DMI) 2/7	
Size Custom	Document Number M750-1-01	Rev 1.0
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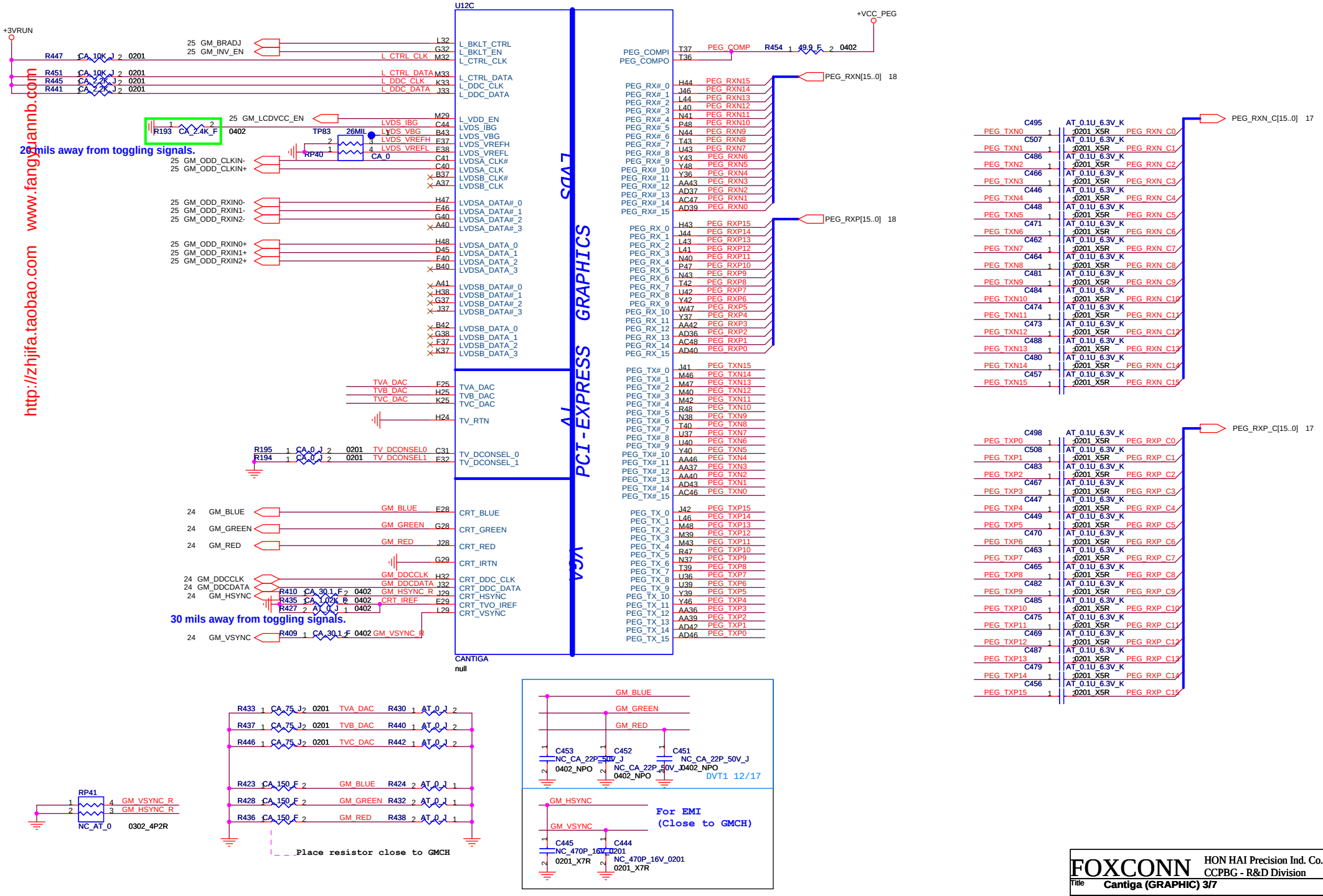

FOXCONN	HON HAI Precision Ind. Co., Ltd.
	CCPBG - R&D Division
Title	Cantiga (GRAPHIC) 3/7
Size A3	Document Number M750-1-01
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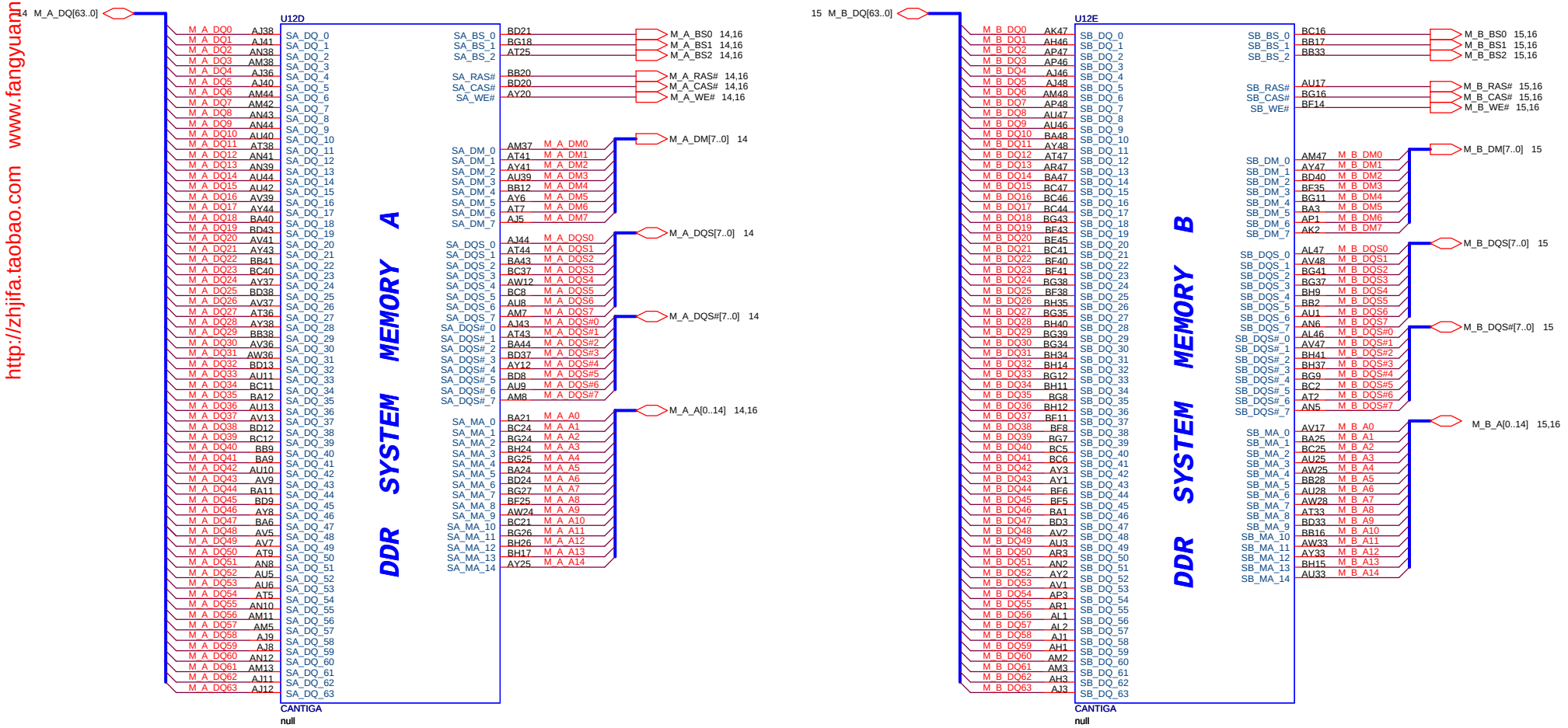
Date: Monday, June 23, 2008	Sheet 9 of 54



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Title	Cantiga (DDRII) 4/7	
Size A3	Document Number M750-1-01	Rev 1.0
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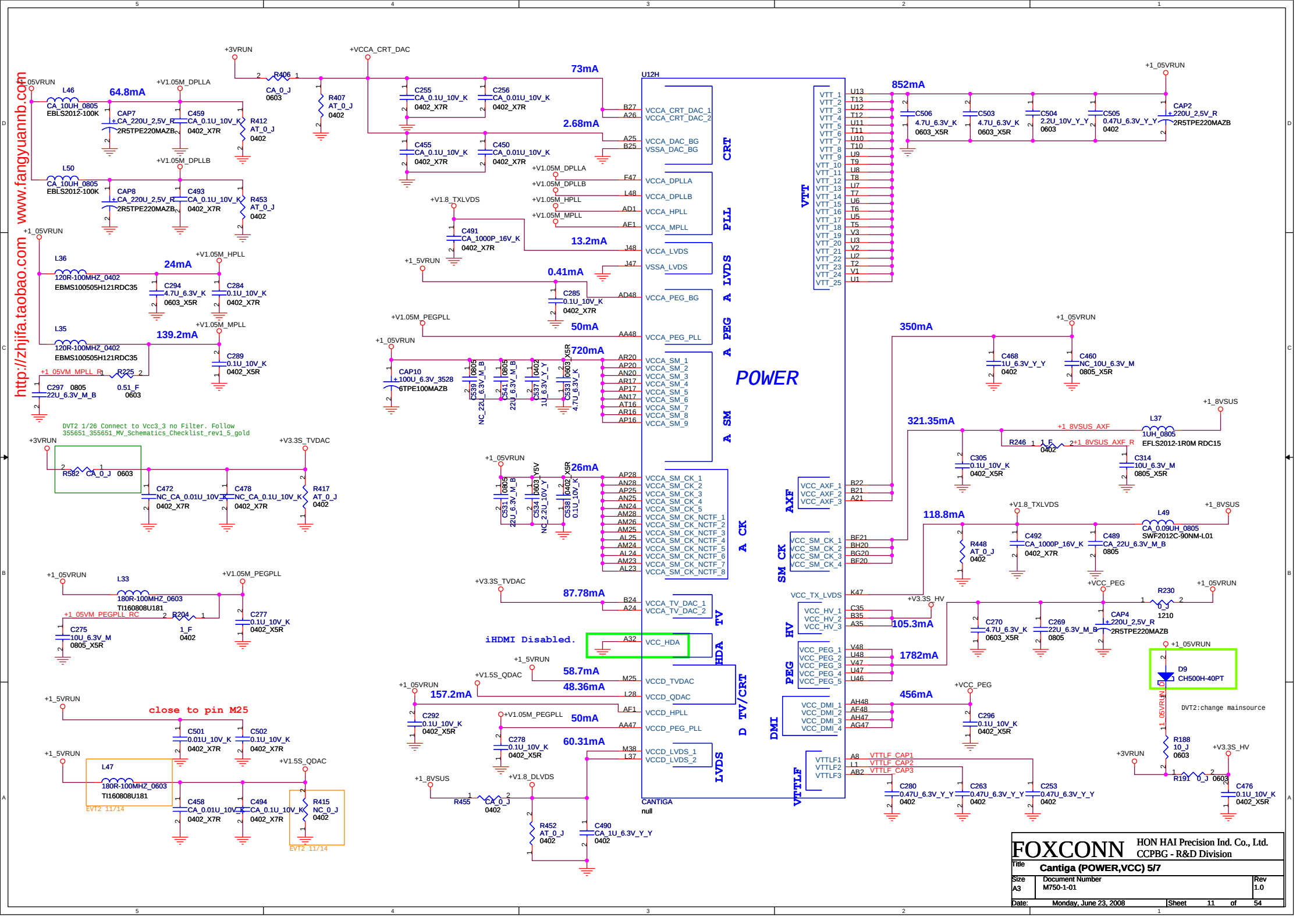
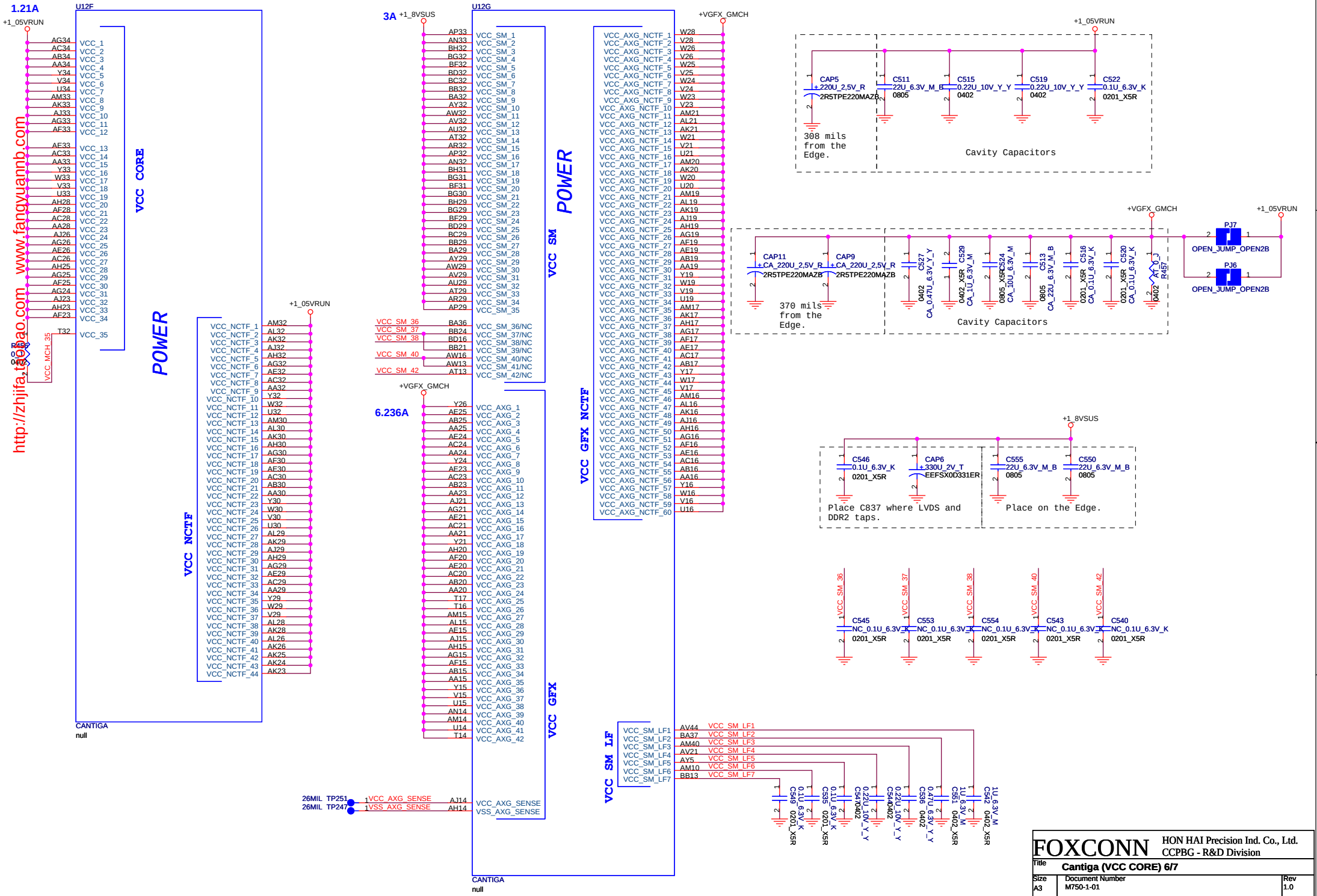


FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	Cantiga (POWER,VCC) 5/7	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Monday, June 23, 2008	Sheet 11 of 54	


1.21A
U12F
+1_05VRUN
VCC_CORE
POWER
VCC_NCTF
CANTIGA
null
3A
+1_8VSUS
U12G
VCC_SM
VCC_GFX_NCTF
+VGFX_GMCH
6.236A
VCC_GFX
VCC_SM_LF
CANTIGA
null
308 mils from the Edge.
Cavity Capacitors
370 mils from the Edge.
Cavity Capacitors
Place C837 where LVDS and DDR2 taps.
Place on the Edge.
OPEN_JUMP_OPEN2B
OPEN_JUMP_OPEN2B
http://zhjifa.taobao.com www.fangyuannb.com
FOXCONN
HON HAI Precision Ind. Co., Ltd.
CCPBG - R&D Division
Cantiga (VCC CORE) 6/7
Size A3
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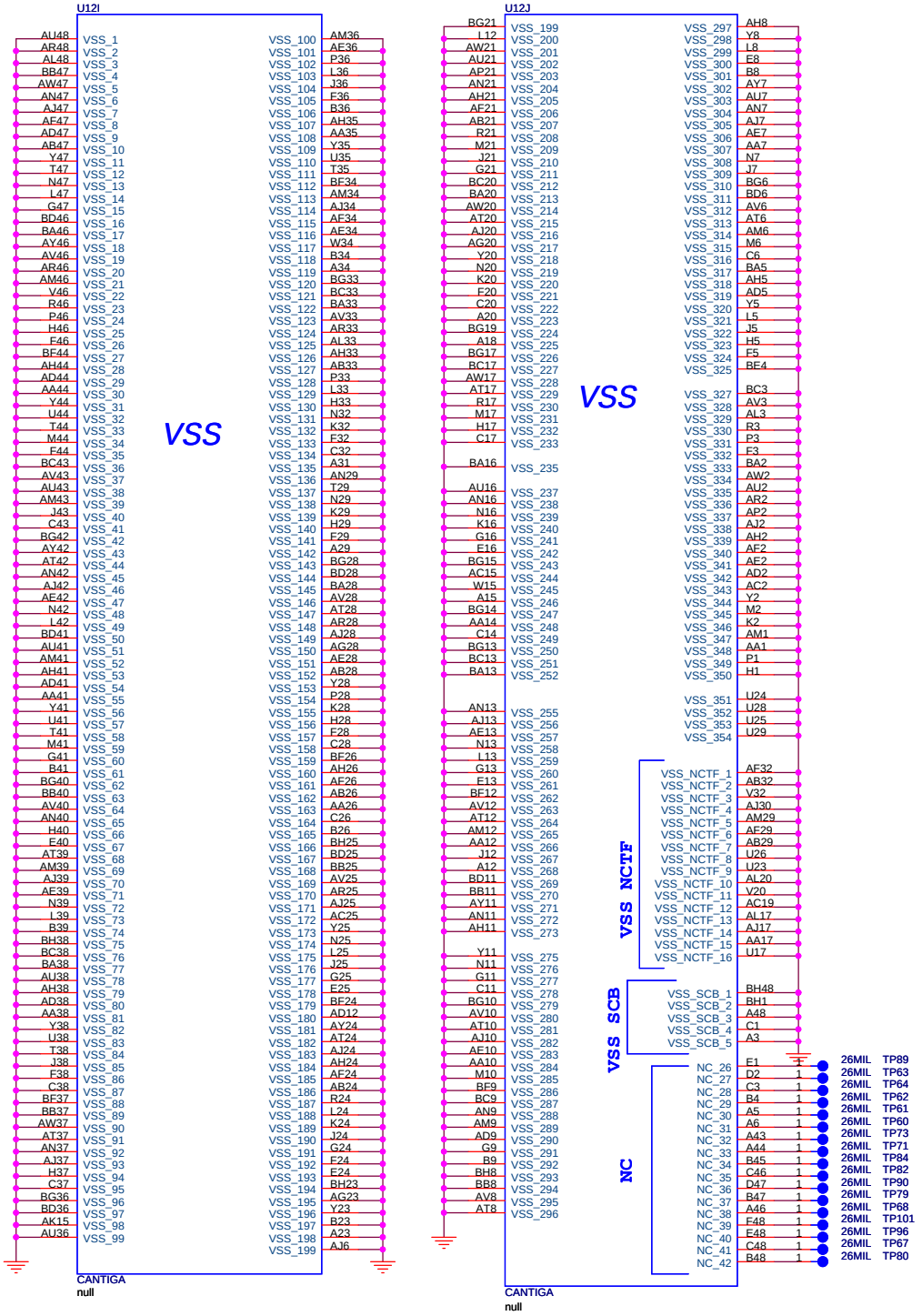
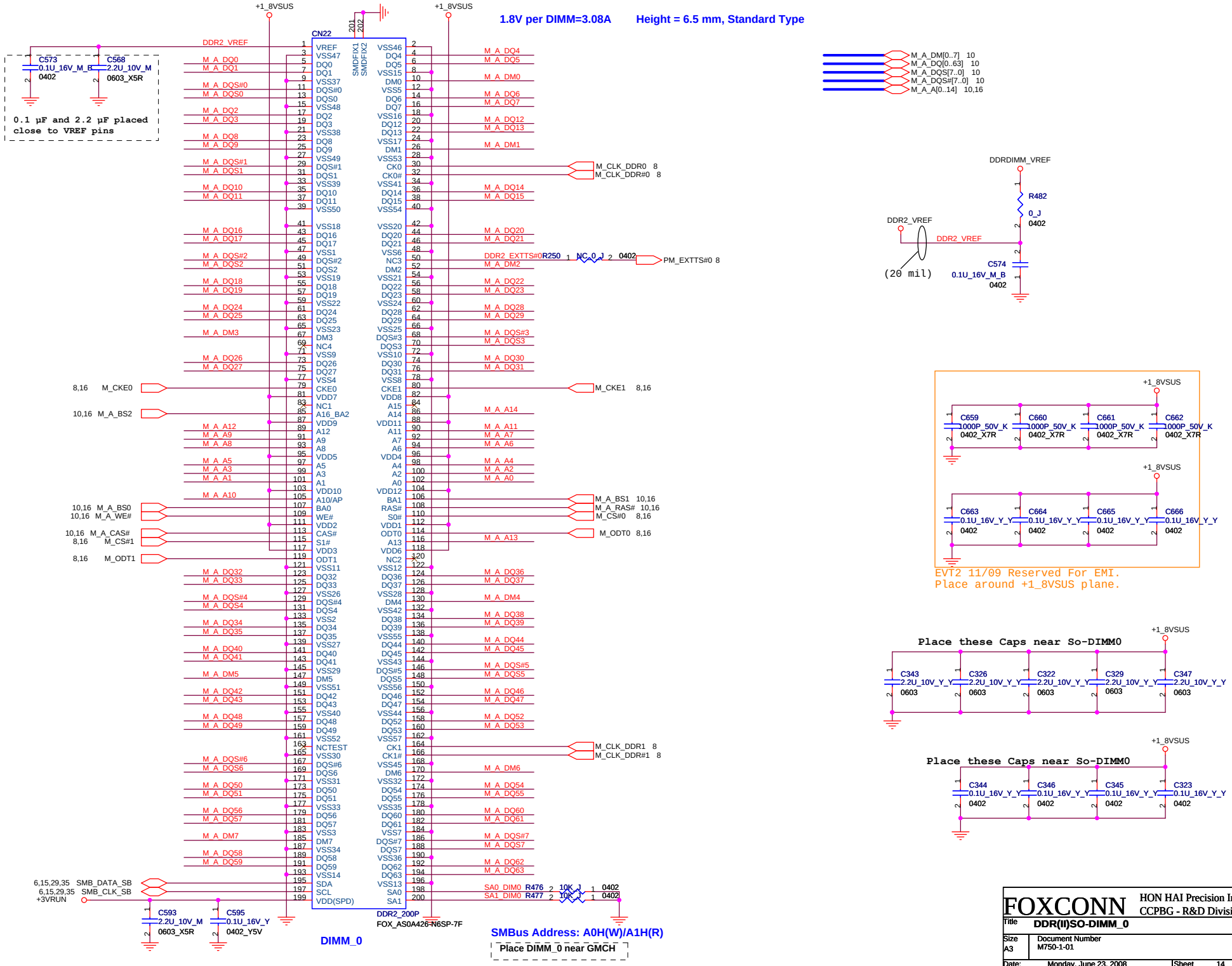


FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	Cantiga (VSS) 7/7	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Monday, June 23, 2008	Sheet 13 of 54	



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CCPBG - R&D Division

Title: DDR(II)SO-DIMM_0

Size	Document Number	Rev
A3	M750-1-01	1.0

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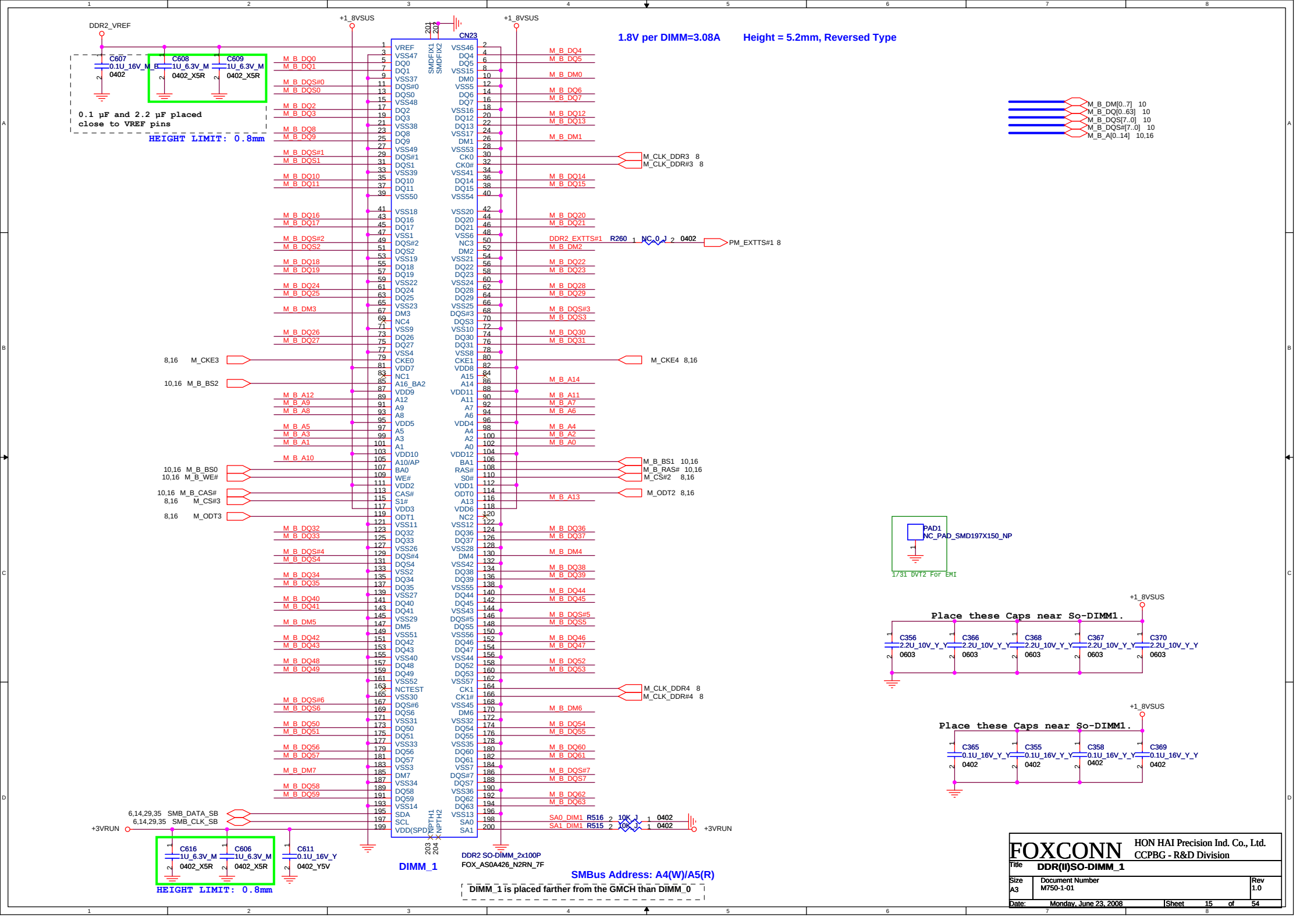
1.8V per DIMM=3.08A
Height = 5.2mm, Reversed Type
DDR2_VREF
+1_8VSUS
CN23
C607 0.1U_16V_M_B 0402
C608 1U_6.3V_M 0402_X5R
C609 1U_6.3V_M 0402_X5R
0.1 µF and 2.2 µF placed close to VREF pins
HEIGHT LIMIT: 0.8mm
M_B_DM[0..7] 10
M_B_DQ[0..63] 10
M_B_DQS[7..0] 10
M_B_DQS#[7..0] 10
M_B_A[0..14] 10,16
M_CLK_DDR3 8
M_CLK_DDR#3 8
M_CLK_DDR4 8
M_CLK_DDR#4 8
DDR2_EXTTS#1
R260 NC_0_J 0402
PM_EXTTS#1 8
M_CKE3 8,16
M_CKE4 8,16
10,16 M_B_BS2
10,16 M_B_BS0
10,16 M_B_WE#
10,16 M_B_CAS#
8,16 M_CS#3
8,16 M_ODT3
M_B_BS1 10,16
M_B_RAS# 10,16
M_CS#2 8,16
M_ODT2 8,16
6,14,29,35 SMB_DATA_SB
6,14,29,35 SMB_CLK_SB
+3VRUN
SA0_DIM1 R516 10K_J 0402
SA1_DIM1 R515 10K_J 0402
C616 1U_6.3V_M 0402_X5R
C606 1U_6.3V_M 0402_X5R
C611 0.1U_16V_Y 0402_Y5V
HEIGHT LIMIT: 0.8mm
DIMM_1
DDR2 SO-DIMM_2x100P
FOX_AS0A426_N2RN_7F
SMBus Address: A4(W)/A5(R)
DIMM_1 is placed farther from the GMCH than DIMM_0
PAD1
NC_PAD_SMD197X150_NP
1/31 DVT2 For EMI
Place these Caps near So-DIMM1.
C356 2.2U_10V_Y_Y 0603
C366 2.2U_10V_Y_Y 0603
C368 2.2U_10V_Y_Y 0603
C367 2.2U_10V_Y_Y 0603
C370 2.2U_10V_Y_Y 0603
Place these Caps near So-DIMM1.
C365 0.1U_16V_Y_Y 0402
C355 0.1U_16V_Y_Y 0402
C358 0.1U_16V_Y_Y 0402
C369 0.1U_16V_Y_Y 0402
FOXCONN
HON HAI Precision Ind. Co., Ltd.
CCPBG - R&D Division
Title DDR(II)SO-DIMM_1
Size A3
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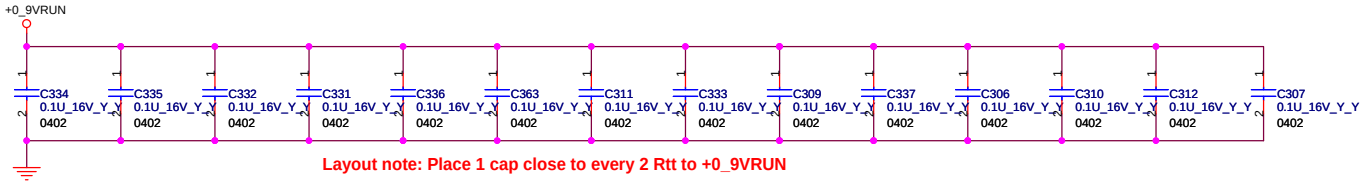
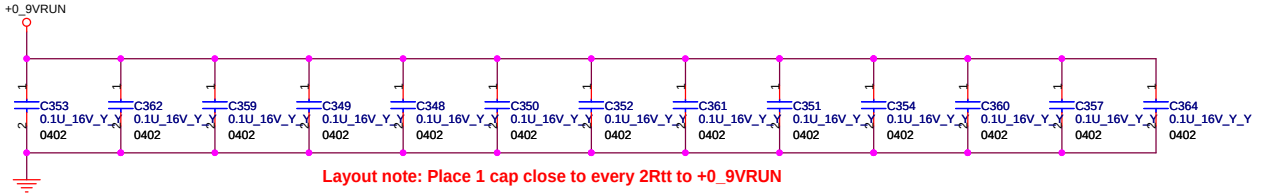


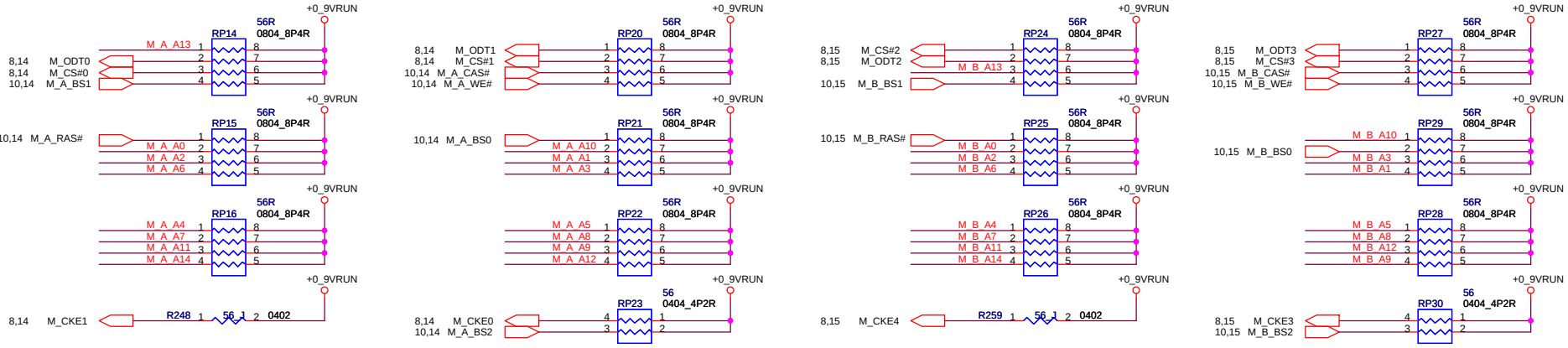
Layout note: Place 1 cap close to every 2 Rtt to +0_9VRUN



Layout note: Place 1 cap close to every 2Rtt to +0_9VRUN

10,14 M_A_A[0..14]

10,15 M_B_A[0..14]



FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	DDR(II)Termination	
Size A3	Document Number M750-1-01	Rev 1.0
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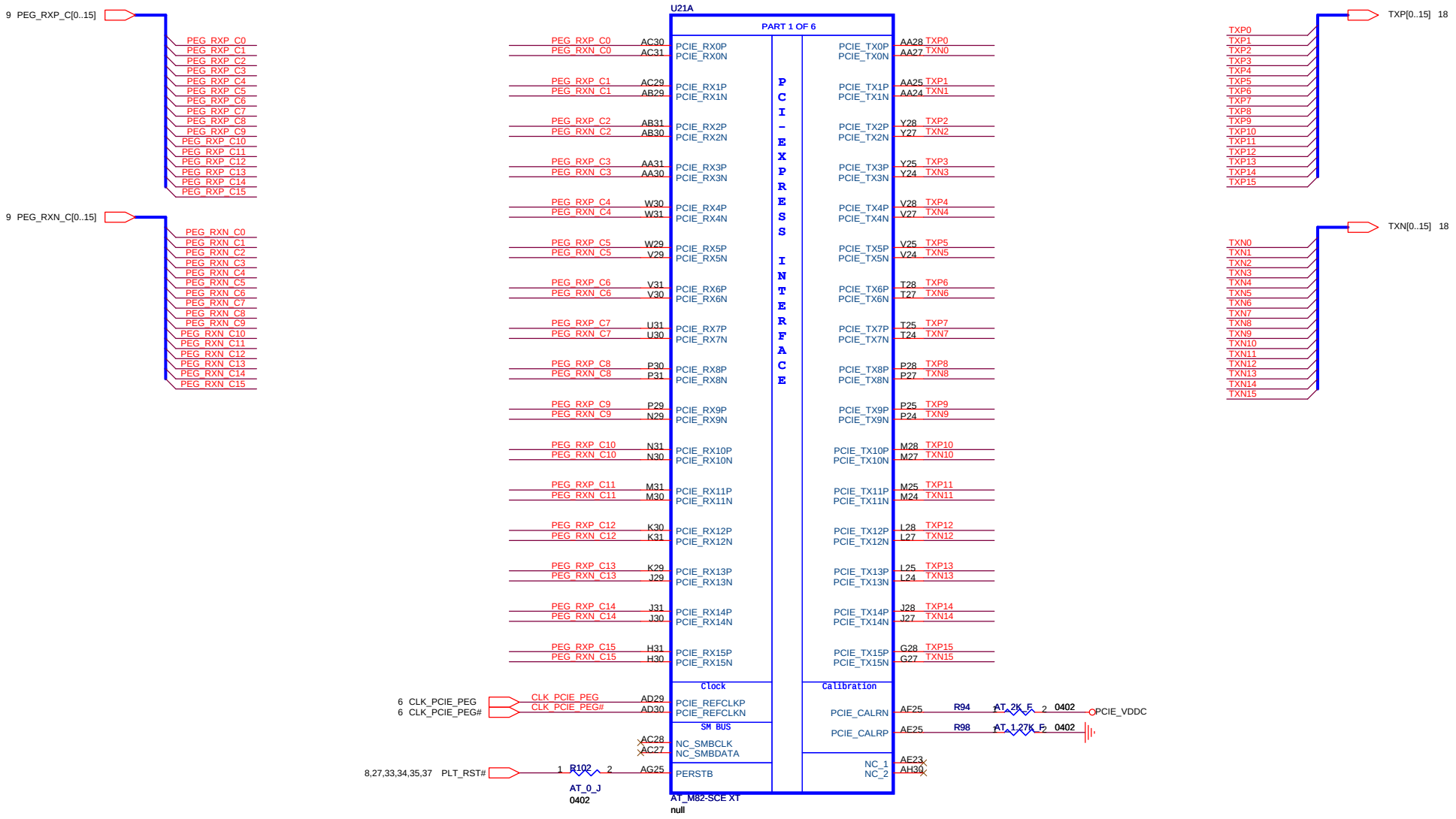

FOXCONN
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Title	VGA (PCI-E) 1/5	
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9 PEG_RXP[0..15]

PEG_RXP0	C206	AT_0.1U_6.3V_K	0201_X5R	TXP0	
PEG_RXP1	C224	AT_0.1U_6.3V_K	0201_X5R	TXP1	
PEG_RXP2	C204	AT_0.1U_6.3V_K	0201_X5R	TXP2	
PEG_RXP3	C230	AT_0.1U_6.3V_K	0201_X5R	TXP3	
PEG_RXP4	C215	AT_0.1U_6.3V_K	0201_X5R	TXP4	
PEG_RXP5	C226	AT_0.1U_6.3V_K	0201_X5R	TXP5	
PEG_RXP6	C202	AT_0.1U_6.3V_K	0201_X5R	TXP6	
PEG_RXP7	C232	AT_0.1U_6.3V_K	0201_X5R	TXP7	
PEG_RXP8	C199	AT_0.1U_6.3V_K	0201_X5R	TXP8	
PEG_RXP9	C220	AT_0.1U_6.3V_K	0201_X5R	TXP9	
PEG_RXP10	C235	AT_0.1U_6.3V_K	0201_X5R	TXP10	
PEG_RXP11	C213	AT_0.1U_6.3V_K	0201_X5R	TXP11	
PEG_RXP12	C229	AT_0.1U_6.3V_K	0201_X5R	TXP12	
PEG_RXP13	C209	AT_0.1U_6.3V_K	0201_X5R	TXP13	
PEG_RXP14	C211	AT_0.1U_6.3V_K	0201_X5R	TXP14	
PEG_RXP15	C237	AT_0.1U_6.3V_K	0201_X5R	TXP15	

TXP[0..15] 17

9 PEG_RXN[0..15]

PEG_RXN0	C207	AT_0.1U_6.3V_K	0201_X5R	TXN0	
PEG_RXN1	C225	AT_0.1U_6.3V_K	0201_X5R	TXN1	
PEG_RXN2	C205	AT_0.1U_6.3V_K	0201_X5R	TXN2	
PEG_RXN3	C231	AT_0.1U_6.3V_K	0201_X5R	TXN3	
PEG_RXN4	C214	AT_0.1U_6.3V_K	0201_X5R	TXN4	
PEG_RXN5	C227	AT_0.1U_6.3V_K	0201_X5R	TXN5	
PEG_RXN6	C203	AT_0.1U_6.3V_K	0201_X5R	TXN6	
PEG_RXN7	C233	AT_0.1U_6.3V_K	0201_X5R	TXN7	
PEG_RXN8	C198	AT_0.1U_6.3V_K	0201_X5R	TXN8	
PEG_RXN9	C221	AT_0.1U_6.3V_K	0201_X5R	TXN9	
PEG_RXN10	C234	AT_0.1U_6.3V_K	0201_X5R	TXN10	
PEG_RXN11	C212	AT_0.1U_6.3V_K	0201_X5R	TXN11	
PEG_RXN12	C228	AT_0.1U_6.3V_K	0201_X5R	TXN12	
PEG_RXN13	C208	AT_0.1U_6.3V_K	0201_X5R	TXN13	
PEG_RXN14	C210	AT_0.1U_6.3V_K	0201_X5R	TXN14	
PEG_RXN15	C236	AT_0.1U_6.3V_K	0201_X5R	TXN15	

TXN[0..15] 17

Strap for GDDR3-136ball
ATI_DVPDATA[23 : 20]

0001 16Mx32 Qimonda
0010 16Mx32 Hynix
0011 16Mx32 Samsung
0101 32Mx32 Qimonda
0110 32Mx32 Hynix
0111 32Mx32 Samsung

If no ROM attached, GPIO[9:13:12:11]
CONFIG{3:0}
controls the memory aperture size.

128MB	X000
256MB	X001
64MB	X010
32MB	X011
512MB	X100
1GB	X101
2GB	X110
4GB	X111

+1_8VRUN

MEM_ID0	R351	NC_AT_10K_J	0402	AT_MEM_ID0	R341 AT_10K_J 0402
MEM_ID1	R342	AT_10K_J	0402	AT_MEM_ID1	R343 NC_AT_10K_J 0402
MEM_ID2	R350	AT_10K_J	0402	AT_MEM_ID2	R340 NC_AT_10K_J 0402
MEM_ID3	R349	AT_10K_J	0402	AT_MEM_ID3	R339 NC_AT_10K_J 0402

N.C R350, MOUNT R340 FOR 32X32Mb Qimonda VRAM

+3V_DELAY

MEM_SIZE3	R30	AT_10K_J	0402	AT_GPIO9	R31 NC_AT_10K_J 0402
MEM_SIZE2	R354	AT_10K_J	0402	AT_GPIO13	R347 NC_AT_10K_J 0402
MEM_SIZE1	R28	AT_10K_J	0402	AT_GPIO12	R46 NC_AT_10K_J 0402
MEM_SIZE0	R353	AT_10K_J	0402	AT_GPIO11	R346 NC_AT_10K_J 0402

N.C R353, MOUNT R346 FOR 256MB VRAM

19	AT_MEM_ID0	AT_MEM_ID0
19	AT_MEM_ID1	AT_MEM_ID1
19	AT_MEM_ID2	AT_MEM_ID2
19	AT_MEM_ID3	AT_MEM_ID3
19	AT_GPIO9	AT_GPIO9
19	AT_GPIO11	AT_GPIO11
19	AT_GPIO12	AT_GPIO12
19	AT_GPIO13	AT_GPIO13

FOXCONN
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CCPBG - R&D Division

Title: VGA (STRAP) 2/5

Size: Custom | Document Number: M750-1-01 | Rev: 1.0

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Put AC Coupling Cap on Docking Station

DVT1 12/1 Inverse +/- polarity
(Special for AMD M8X GPU)

EVT2 11/03 Inverse +/- polarity
(Special for AMD M8X GPU)

DVT1 12/17

For EMI
(Close to GMCH)

DVT1 12/24

VGA_DIS PSYNC_NEW
(M82-S) VGA Disable determines whether or not the card will be recognized as the system's VGA controller (via the SUBCLASS field in the PCI configuration space).
0: VGA Controller capacity enabled
1: The device will not be recognized

VREFG VOLTAGE DIVIDER IS
(VREFG = VDDR4,5(1.8V) / 3 = .6V)

PVT NC R389,R393,Y3,C436,C437 for use AMD internal SS 0328

PVT NC R389,R393,Y3,C436,C437 for use AMD internal SS 0328

PVT NC for use AMD internal SS 0408

PVT modify R345 value to HD_ for BOM change of 256MB and 128MB
modify R378 to HD_ for BOM change of HDMI disable 0408

SS	SPREAD DIRECTION	Spread Percentage(%)
0	DOWN	-1.8
M	DOWN	-0.6
1	DOWN	-2.5

SPREAD SPECTRUM SETTING FOR MK

0 = connect to GND
M= unconnected
1 = connect directly to VDD

Title	VGA (IO) 3/5
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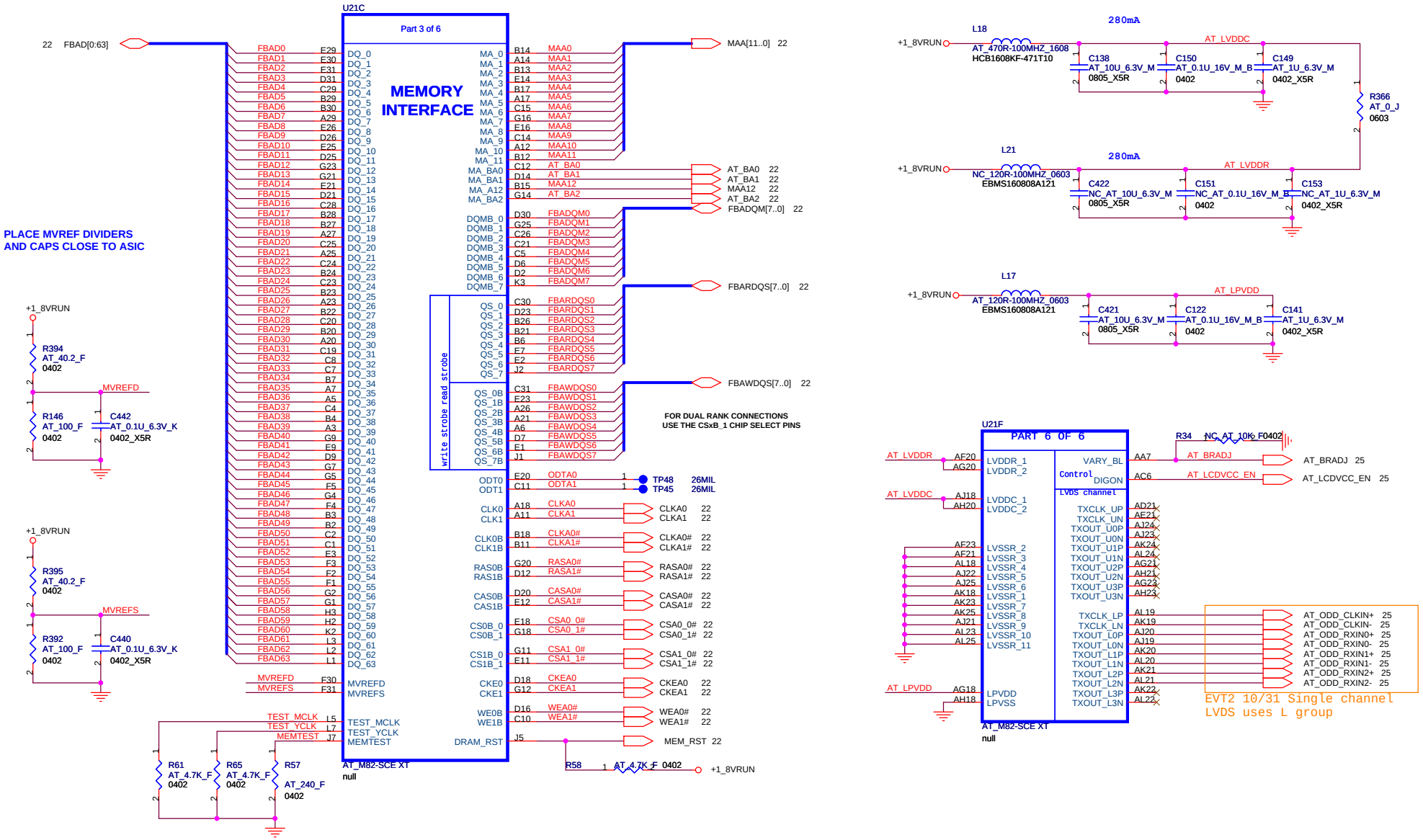
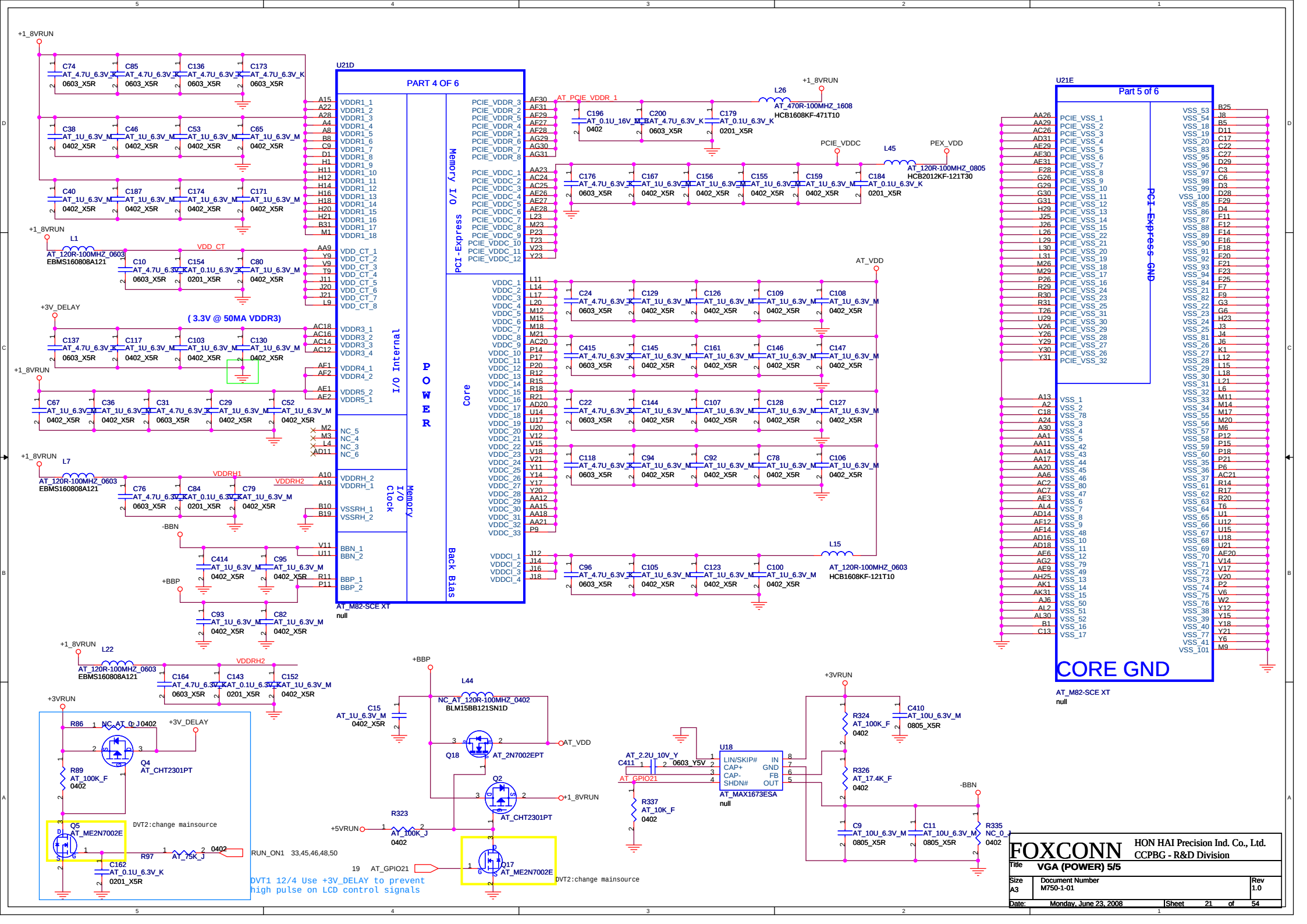
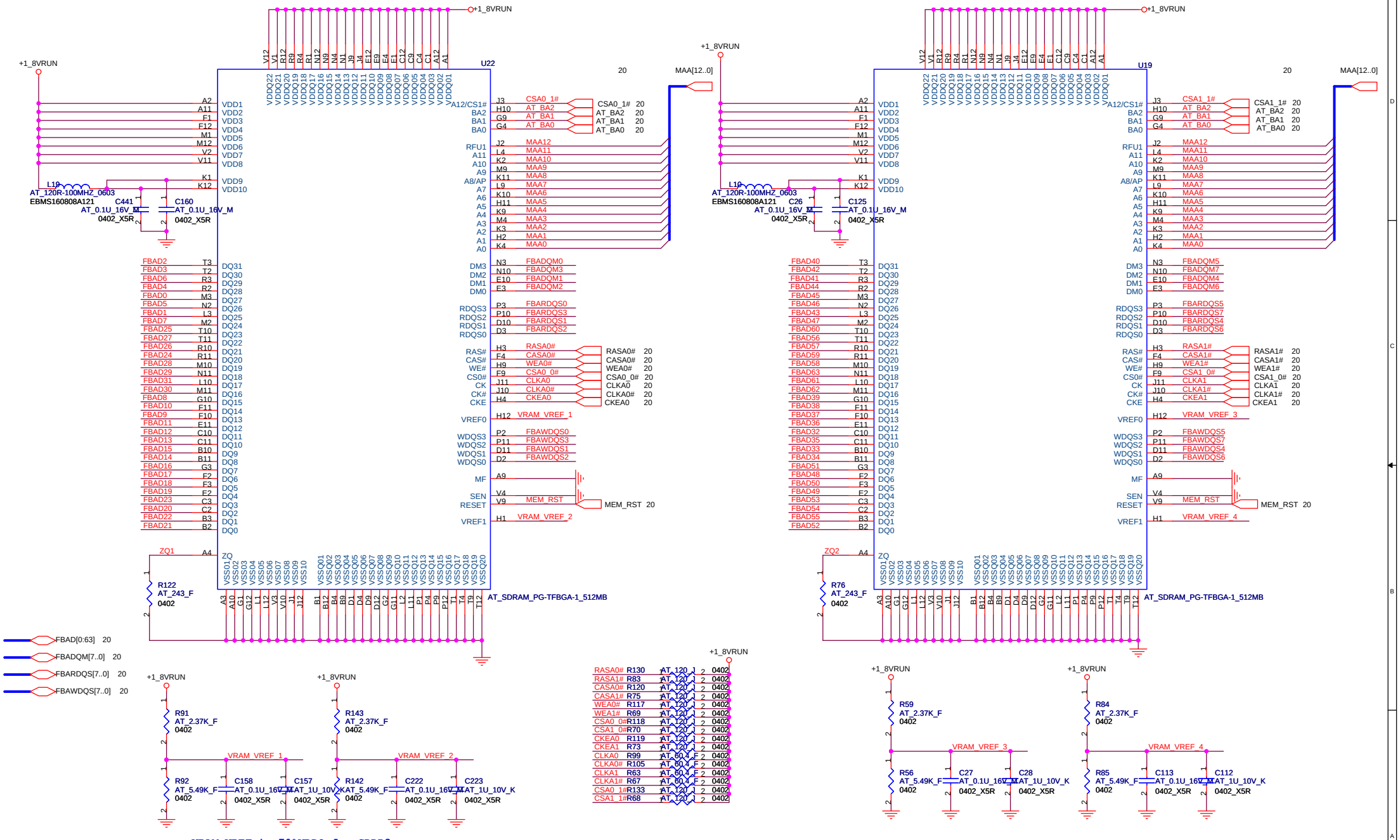
FOXCONN
HON HAI Precision Ind. Co., Ltd.
CCPBG - R&D Division



FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	VGA (GDDR) 4/5	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Monday, June 23, 2008	Sheet 20 of 54	

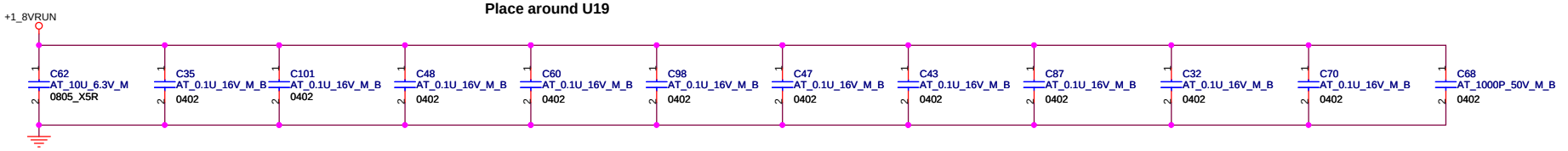

U21D
PART 4 OF 6
POWER
I/O Internal
Memory I/O
PCI-Express
Core
I/O Clock
Back Bias
AT_M82-SCE XT
null
U21E
Part 5 of 6
PCI_Express_GND
CORE GND
AT_M82-SCE XT
null
(3.3V @ 50MA VDDR3)
DVT2:change mainsource
DVT1 12/4 Use +3V_DELAY to prevent high pulse on LCD control signals
RUN_ON1 33,45,46,48,50
AT_MAX1673ESA
FOXCONN
HON HAI Precision Ind. Co., Ltd.
CCPBG - R&D Division
Title VGA (POWER) 5/5
Size A3
Document Number M750-1-01
Rev 1.0
Date: Monday, June 23, 2008
Sheet 21 of 54

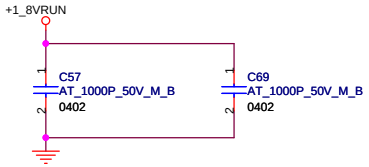


RASA0#	R130	AT_120	0402
RASA1#	R83	AT_120	0402
CASA0#	R120	AT_120	0402
CASA1#	R75	AT_120	0402
WEA0#	R117	AT_120	0402
WEA1#	R69	AT_120	0402
CSA0_0#	R118	AT_120	0402
CSA1_0#	R70	AT_120	0402
CKEA0	R119	AT_120	0402
CKEA1	R73	AT_120	0402
CLKA0	R99	AT_60.4_F	0402
CLKA0#	R105	AT_60.4_F	0402
CLKA1	R63	AT_60.4_F	0402
CLKA1#	R67	AT_60.4_F	0402
CSA0_1#	R133	AT_120	0402
CSA1_1#	R68	AT_120	0402

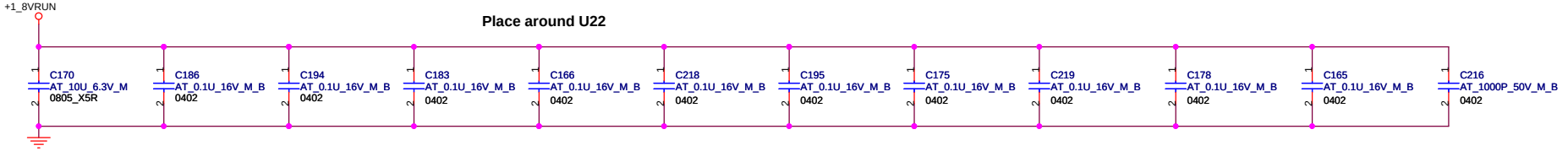
FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division		
Title	VRAM (GDDR3) 1/2		
Size A3	Document Number M750-1-01		Rev 1.0
Date: Monday, June 23, 2008	Sheet 22 of 54		

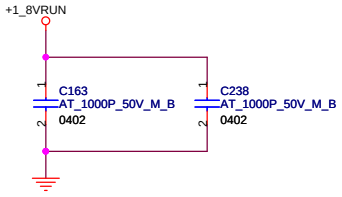
Place around U19



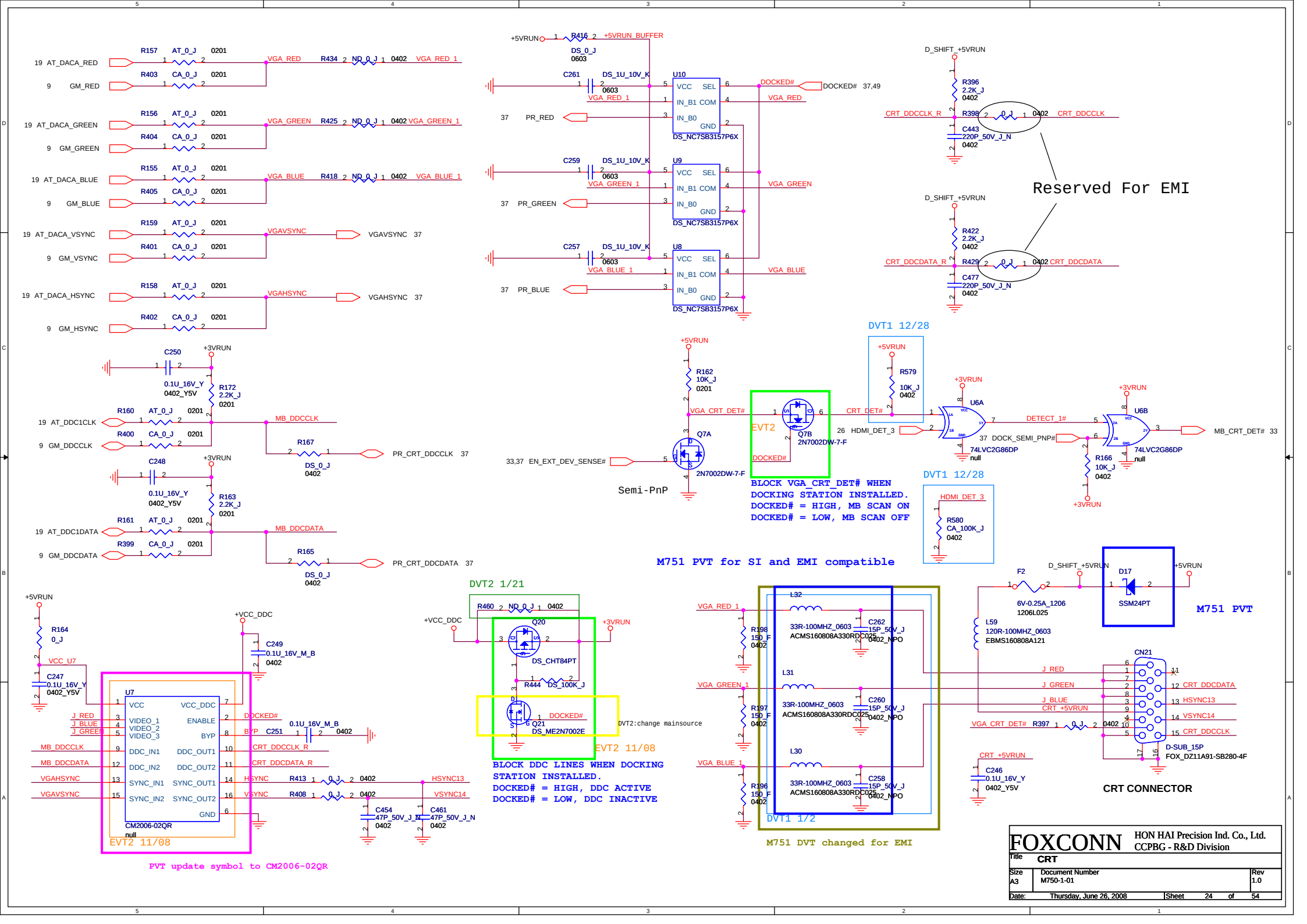


Place around U22

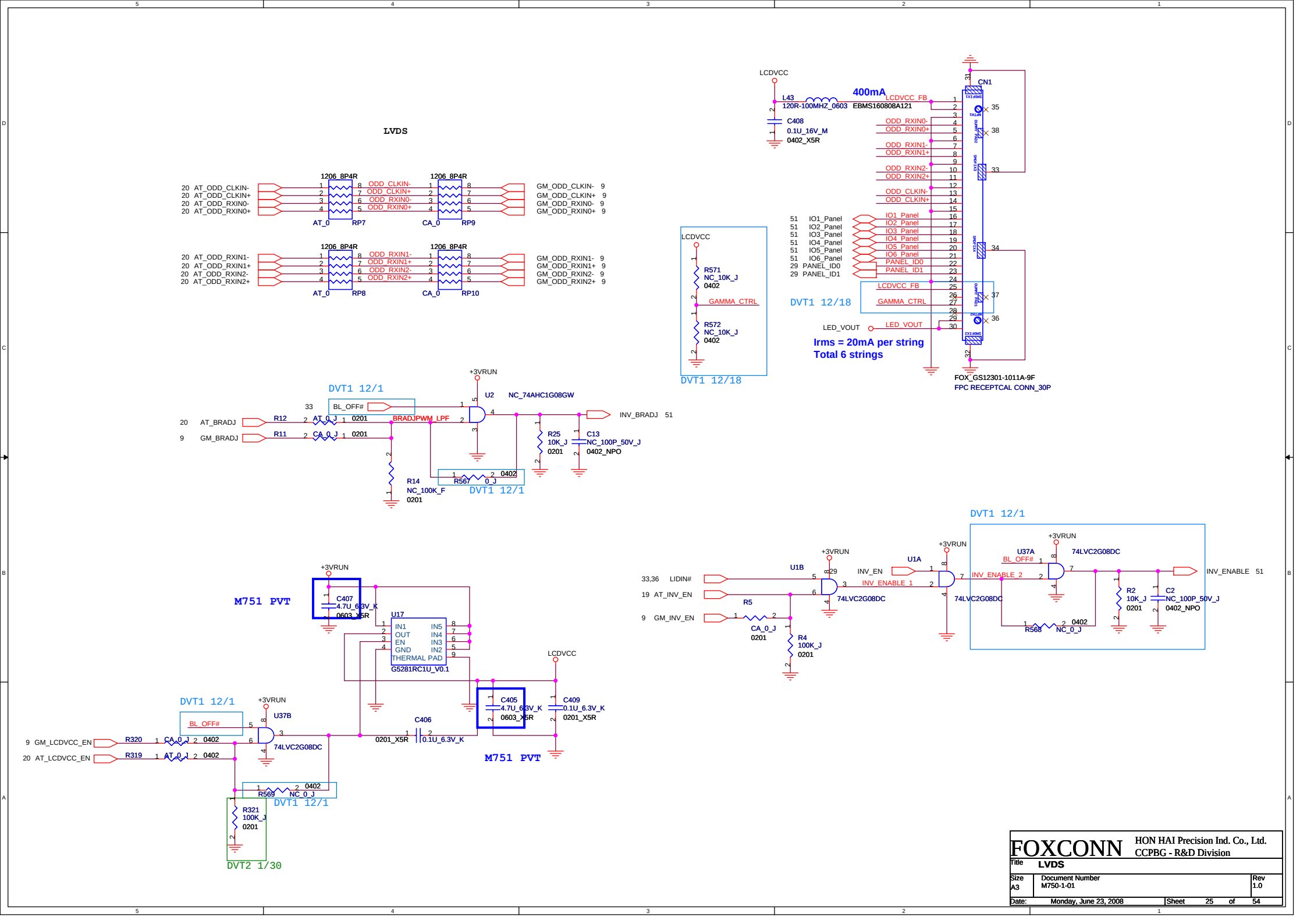




FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	VRAM (BYPASS) 2/2	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Monday, June 23, 2008	Sheet 23 of 54	



FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	CRT	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Thursday, June 26, 2008	Sheet 24 of 54	


LVDS
20 AT_ODD_CLKIN-
20 AT_ODD_CLKIN+
20 AT_ODD_RXIN0-
20 AT_ODD_RXIN0+
1206_8P4R
AT_0
RP7
CA_0
RP9
ODD_CLKIN-
ODD_CLKIN+
ODD_RXIN0-
ODD_RXIN0+
GM_ODD_CLKIN- 9
GM_ODD_CLKIN+ 9
GM_ODD_RXIN0- 9
GM_ODD_RXIN0+ 9
20 AT_ODD_RXIN1-
20 AT_ODD_RXIN1+
20 AT_ODD_RXIN2-
20 AT_ODD_RXIN2+
RP8
RP10
ODD_RXIN1-
ODD_RXIN1+
ODD_RXIN2-
ODD_RXIN2+
GM_ODD_RXIN1- 9
GM_ODD_RXIN1+ 9
GM_ODD_RXIN2- 9
GM_ODD_RXIN2+ 9
LCDVCC
400mA
L43
120R-100MHZ_0603
EBMS160808A121
LCDVCC_FB
C408
0.1U_16V_M
0402_X5R
CN1
ODD_RXIN0-
ODD_RXIN0+
ODD_RXIN1-
ODD_RXIN1+
ODD_RXIN2-
ODD_RXIN2+
ODD_CLKIN-
ODD_CLKIN+
51 IO1_Panel
51 IO2_Panel
51 IO3_Panel
51 IO4_Panel
51 IO5_Panel
51 IO6_Panel
29 PANEL_ID0
29 PANEL_ID1
IO1_Panel
IO2_Panel
IO3_Panel
IO4_Panel
IO5_Panel
IO6_Panel
PANEL_ID0
PANEL_ID1
LCDVCC_FB
GAMMA_CTRL
LED_VOUT
LED_VOUT
DVT1 12/18
Irms = 20mA per string
Total 6 strings
FOX_GS12301-1011A-9F
FPC RECEPTCAL CONN_30P
LCDVCC
R571
NC_10K_J
0402
GAMMA_CTRL
R572
NC_10K_J
0402
DVT1 12/18
DVT1 12/1
+3VRUN
U2
NC_74AHC1G08GW
33
BL_OFF#
20 AT_BRADJ
9 GM_BRADJ
R12
R11
AT_0_J
CA_0_J
0201
BRADJPWM_LPF
INV_BRADJ 51
R25
10K_J
0201
C13
NC_100P_50V_J
0402_NPO
R14
NC_100K_F
0201
R567
0_J
0402
DVT1 12/1
M751 PVT
+3VRUN
C407
4.7U_6.3V_K
0603_X5R
U17
IN1
OUT
EN
GND
IN5
IN4
IN3
IN2
THERMAL PAD
G5281RC1U_V0.1
LCDVCC
C405
4.7U_6.3V_K
0603_X5R
C409
0.1U_6.3V_K
0201_X5R
C406
0201_X5R
0.1U_6.3V_K
M751 PVT
DVT1 12/1
+3VRUN
U37B
BL_OFF#
9 GM_LCDVCC_EN
20 AT_LCDVCC_EN
R320
R319
CA_0_J
AT_0_J
0402
74LVC2G08DC
R569
NC_0_J
0402
R321
100K_J
0201
DVT1 12/1
DVT2 1/30
DVT1 12/1
+3VRUN
U1B
U1A
U37A
74LVC2G08DC
33,36 LIDIN#
19 AT_INV_EN
9 GM_INV_EN
INV_EN
INV_ENABLE_1
INV_ENABLE_2
INV_ENABLE 51
R5
CA_0_J
0201
R4
100K_J
0201
R2
10K_J
0201
C2
NC_100P_50V_J
0402_NPO
R568
NC_0_J
0402
FOXCONN
HON HAI Precision Ind. Co., Ltd.
CCPBG - R&D Division
Title
LVDS
Size
A3
Document Number
M750-1-01
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1.0
Date:
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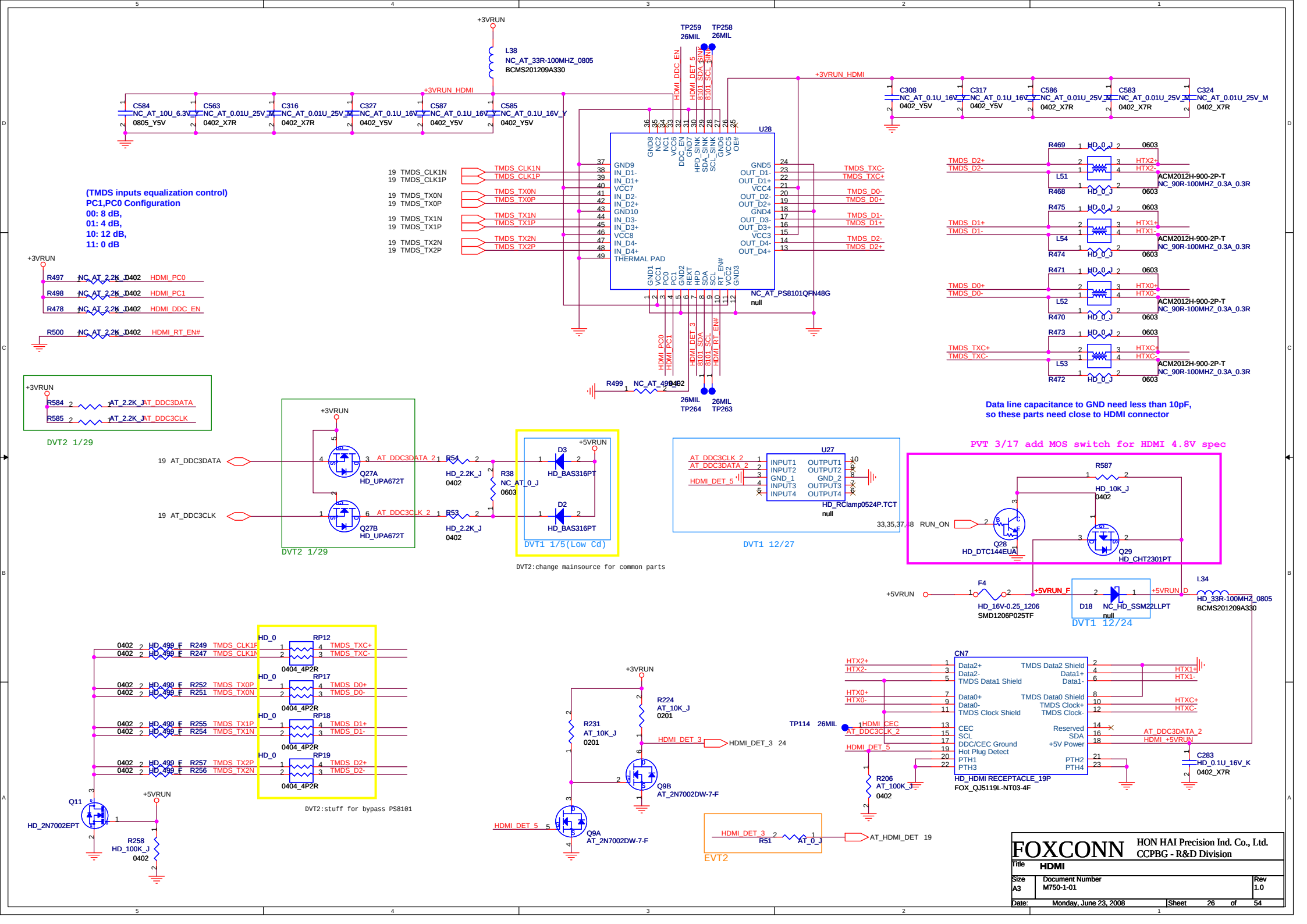
+3VRUN
L38
NC_AT_33R-100MHZ_0805
BCMS201209A330
TP259 26MIL
TP258 26MIL
+3VRUN_HDMI
C584 NC_AT_10U_6.3V_Y 0805_Y5V
C563 NC_AT_0.01U_25V_M 0402_X7R
C316 NC_AT_0.01U_25V_M 0402_X7R
C327 NC_AT_0.1U_16V_Y 0402_Y5V
C587 NC_AT_0.1U_16V_Y 0402_Y5V
C585 NC_AT_0.1U_16V_Y 0402_Y5V
C308 NC_AT_0.1U_16V_Y 0402_Y5V
C317 NC_AT_0.1U_16V_Y 0402_Y5V
C586 NC_AT_0.01U_25V_M 0402_X7R
C583 NC_AT_0.01U_25V_M 0402_X7R
C324 NC_AT_0.01U_25V_M 0402_X7R
HDMI_DDC_EN
HDMI_DET_5
8101_SDA_EINT
8101_SCL_EINT
U28
GND9 IN_D1- IN_D1+ VCC7 IN_D2- IN_D2+ GND10 IN_D3- IN_D3+ VCC8 IN_D4- IN_D4+ THERMAL PAD
GND8 NC2 NC1 VCC6 DDC_EN GND7 HPD_SINK SDA_SINK SCL_SINK GND6 VCC5 OE#
GND5 OUT_D1- OUT_D1+ VCC4 OUT_D2- OUT_D2+ GND4 OUT_D3- OUT_D3+ VCC3 OUT_D4- OUT_D4+
GND1 VCC1 PC0 PC1 GND2 REXT HPD SDA SCL RT_EN# VCC2 GND3
NC_AT_PS8101QFN48G
null
19 TMDS_CLK1N
19 TMDS_CLK1P
19 TMDS_TX0N
19 TMDS_TX0P
19 TMDS_TX1N
19 TMDS_TX1P
19 TMDS_TX2N
19 TMDS_TX2P
TMDS_CLK1N
TMDS_CLK1P
TMDS_TX0N
TMDS_TX0P
TMDS_TX1N
TMDS_TX1P
TMDS_TX2N
TMDS_TX2P
TMDS_TXC-
TMDS_TXC+
TMDS_D0-
TMDS_D0+
TMDS_D1-
TMDS_D1+
TMDS_D2-
TMDS_D2+
HDMI_PC0
HDMI_PC1
HDMI_DET_3
8101_SDA
8101_SCL
HDMI_RT_EN#
R499 NC_AT_499_J 0402
26MIL TP264
26MIL TP263
(TMDS inputs equalization control)
PC1,PC0 Configuration
00: 8 dB,
01: 4 dB,
10: 12 dB,
11: 0 dB
R497 NC_AT_2.2K_J 0402 HDMI_PC0
R498 NC_AT_2.2K_J 0402 HDMI_PC1
R478 NC_AT_2.2K_J 0402 HDMI_DDC_EN
R500 NC_AT_2.2K_J 0402 HDMI_RT_EN#
R469 HD_0_J 0603 HTX2+
R468 HD_0_J 0603 HTX2-
L51 ACM2012H-900-2P-T NC_90R-100MHZ_0.3A_0.3R
R475 HD_0_J 0603 HTX1+
R474 HD_0_J 0603 HTX1-
L54 ACM2012H-900-2P-T NC_90R-100MHZ_0.3A_0.3R
R471 HD_0_J 0603 HTX0+
R470 HD_0_J 0603 HTX0-
L52 ACM2012H-900-2P-T NC_90R-100MHZ_0.3A_0.3R
R473 HD_0_J 0603 HTXC+
R472 HD_0_J 0603 HTXC-
L53 ACM2012H-900-2P-T NC_90R-100MHZ_0.3A_0.3R
Data line capacitance to GND need less than 10pF,
so these parts need close to HDMI connector
R584 AT_2.2K_J AT_DDC3DATA
R585 AT_2.2K_J AT_DDC3CLK
DVT2 1/29
19 AT_DDC3DATA
19 AT_DDC3CLK
Q27A HD_UPA672T
Q27B HD_UPA672T
AT_DDC3DATA_2
AT_DDC3CLK_2
R54 HD_2.2K_J 0402
R53 HD_2.2K_J 0402
R38 NC_AT_0_J 0603
D3 HD_BAS316PT
D2 HD_BAS316PT
+5VRUN
DVT1 1/5(Low Cd)
DVT2:change mainsource for common parts
U27
INPUT1 INPUT2 GND_1 INPUT3 INPUT4
OUTPUT1 OUTPUT2 GND_2 OUTPUT3 OUTPUT4
HD_RClamp0524P.TCT
null
33,35,37,38 RUN_ON
DVT1 12/27
PVT 3/17 add MOS switch for HDMI 4.8V spec
R587 HD_10K_J 0402
Q28 HD_DTC144EUA
Q29 HD_CHT2301PT
F4 HD_16V-0.25_1206 SMD1206P025TF
+5VRUN_F
D18 NC_HD_SSM22LLPT null
+5VRUN_D
L34 HD_33R-100MHZ_0805 BCMS201209A330
DVT1 12/24
R249 R247 R252 R251 R255 R254 R257 R256
TMDS_CLK1P TMDS_CLK1N TMDS_TX0P TMDS_TX0N TMDS_TX1P TMDS_TX1N TMDS_TX2P TMDS_TX2N
RP12 RP17 RP18 RP19
0404_4P2R
DVT2:stuff for bypass PS8101
Q11 HD_2N7002EPT
R258 HD_100K_J 0402
R224 AT_10K_J 0201
R231 AT_10K_J 0201
Q9B AT_2N7002DW-7-F
Q9A AT_2N7002DW-7-F
HDMI_DET_3_24
TP114 26MIL
CN7
HD_HDMI RECEPTACLE_19P
FOX_QJ5119L-NT03-4F
R206 AT_100K_J 0402
R51 AT_0_J
AT_HDMI_DET 19
EVT2
C283 HD_0.1U_16V_K 0402_X7R
FOXCONN
HON HAI Precision Ind. Co., Ltd.
CCPBG - R&D Division
Title HDMI
Size A3
Document Number M750-1-01
Rev 1.0
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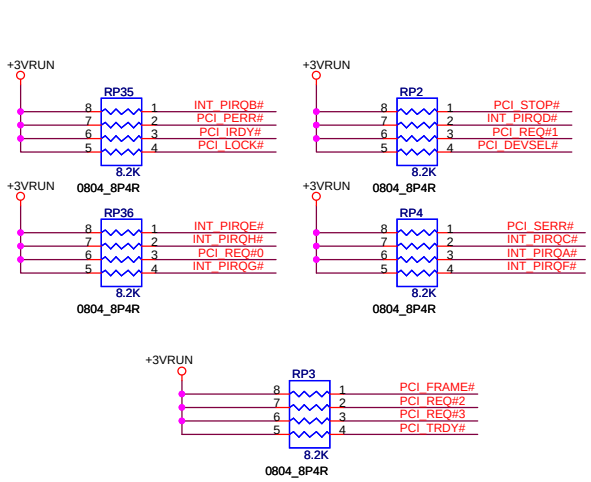
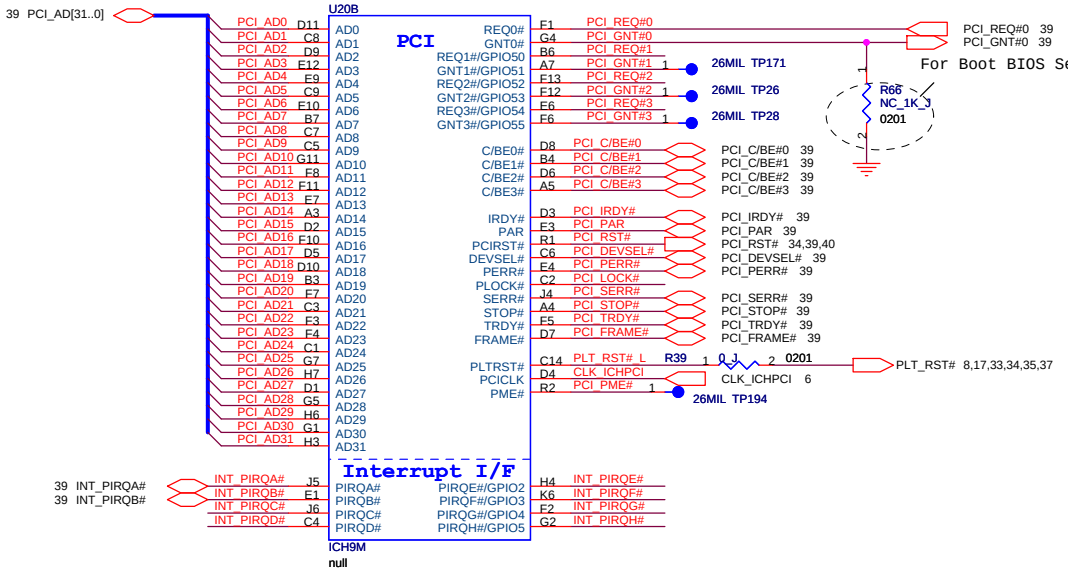
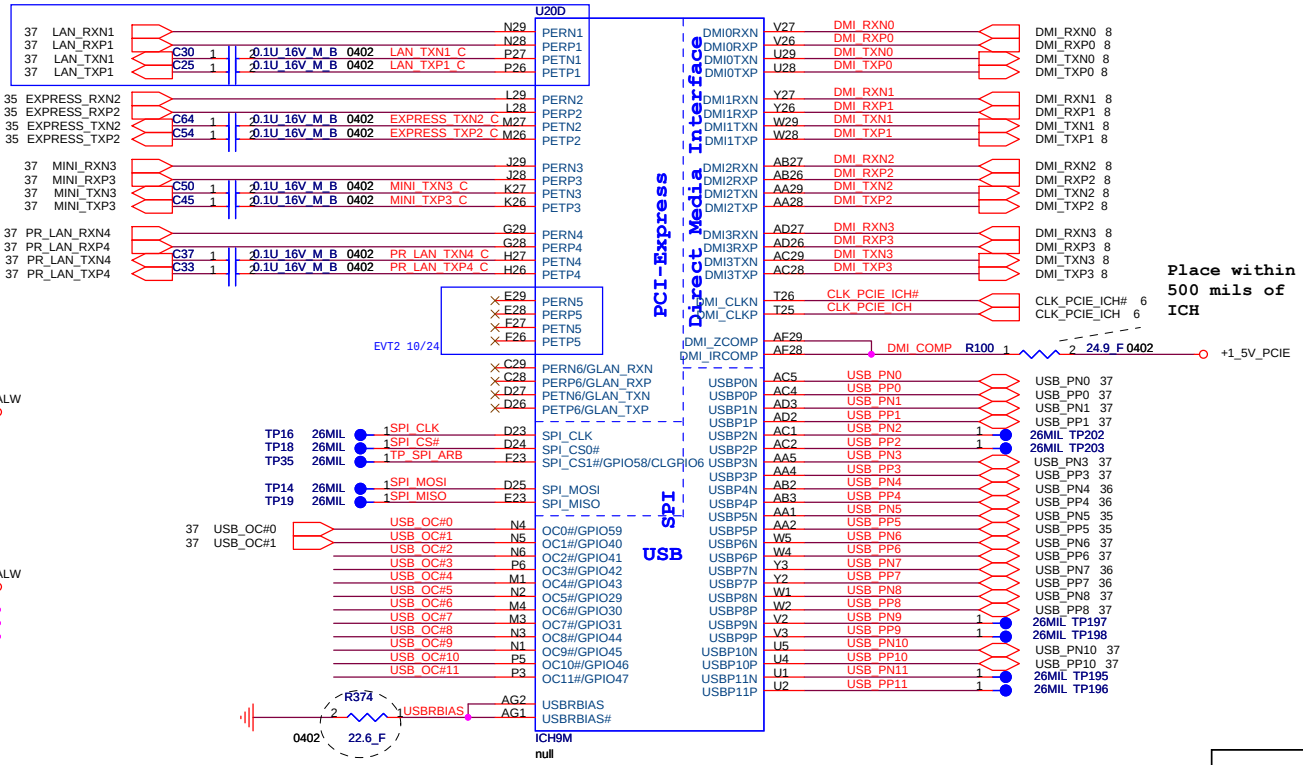


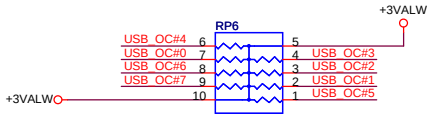
PCI Pullups

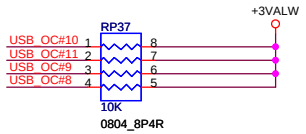


Strap for Boot-BIOS

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





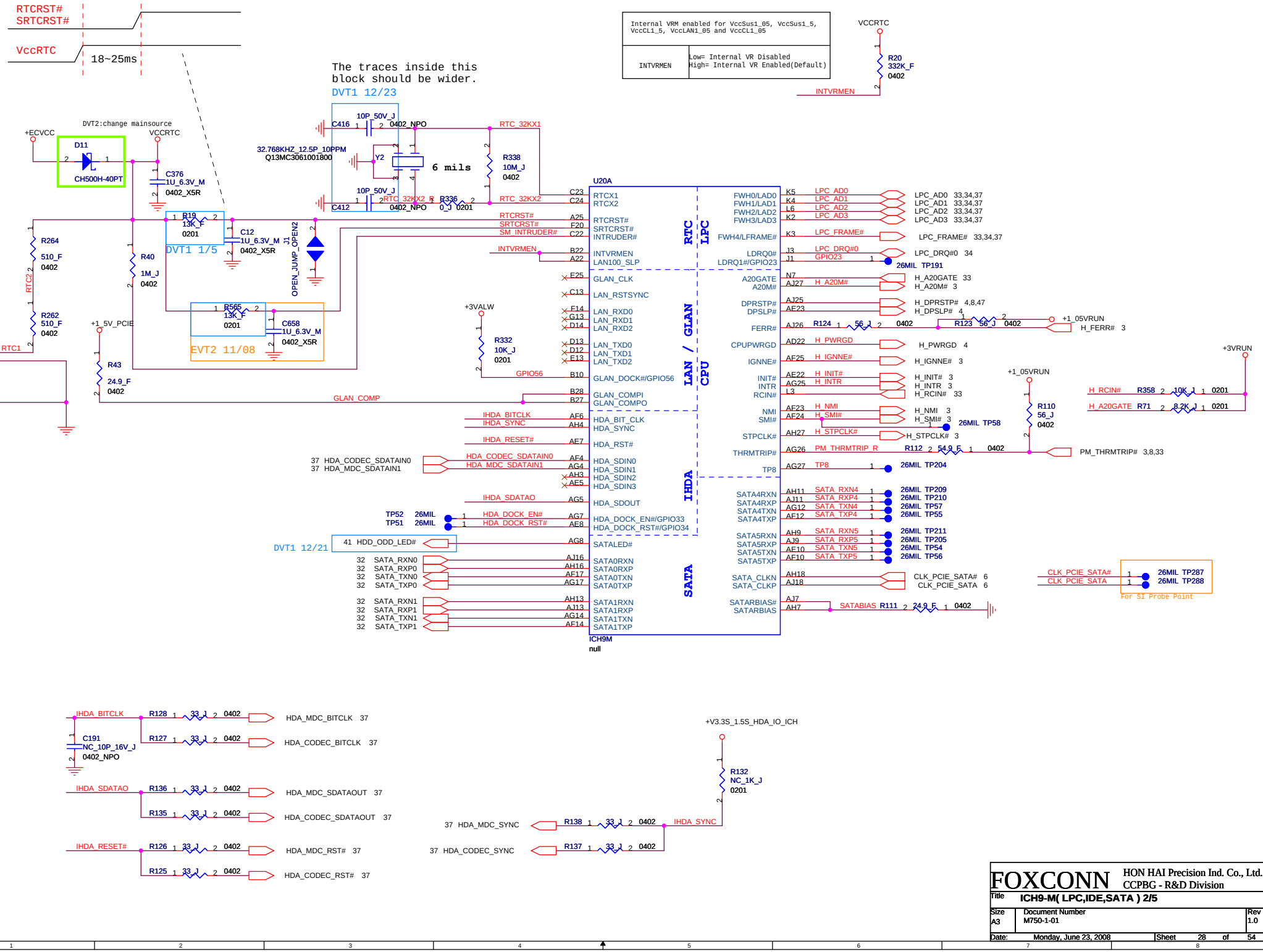


Place within 500 mils of ICH and don't route next to high speed signals

USB PORT	Function
PORT-0	SIDE-1
PORT-1	SIDE-2
PORT-2	x
PORT-3	Docking Hub
PORT-4	Bluetooth
PORT-5	ExpressCard
PORT-6	FingerPrint
PORT-7	Camera
PORT-8	Felica
PORT-9	x
PORT-10	Wimax
PORT-11	x

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

Title	ICH9-M(PCI/DMI/USB/PCIE) 1/5	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Monday, June 23, 2008	Sheet 27 of 54	



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

Title	ICH9-M(LPC,IDE,SATA) 2/5	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Monday, June 23, 2008	Sheet 28 of 54	

Stuff for No-reboot
Low=Default
High=No-reboot

+V3.3S_1.5S_HDA_IO_ICH
R104 NC_1K_J 0201
HDA_SPKR

SYSTEM ID0-3

R140 100K_J DISPLAY_SEL
R144 100K_J GPIO37
SW1 ID0_PU ID1_PU
NC_HDS402-E_SW-SMD4
12/27 DVT1

SW1: DISPLAY OUTOUT SELECTION (FOR DEBUG ONLY)

DISPLAY_SEL	
0	CRT
1	LVDS

Dock Support Selection

	Dock Support
0	Not Support
1	Support

RP1 10K 1206_10P8R
SB_RST# WAKE_SCI# EXTSMI# PM_RI# SMLINK0 SMLINK1 +3VALW

CLK_ICH14 26MIL TP289
CLK_USB48 26MIL TP290
For SI Probe Point

R327 R329 R17 R77 R328 R334 100K_J 0201
GPIO57 MB_FLASH_EN PM_RSMRST# IMVP_PWRGD INV_EN GPIO13

U20C

6,14,15,35 SMB_CLK_SB	SMB_CLK_SB	G16	SMBCLK	SMB
6,14,15,35 SMB_DATA_SB	SMB_DATA_SB	A13	SMBDATA	
	SMB_LINK_ALERT#	E17	LINKALERT#/GPIO60/CLGPIO4	
	SMLINK0	C17	SMLINK0	
	SMLINK1	B18	SMLINK1	
	PM_RI#	F19	RI#	
34,37 PM_SUS_STAT#	PM_SUS_STAT#	R4	SUS_STAT#/LPCPD#	SYS GPIO
34 SB_RST#	SB_RST#	G19	SYS_RESET#	
8 PM_SYNC#	PM_SYNC#	M6	PMSYNC#/GPIO0	
33 WAKE_SCI#	WAKE_SCI#	A17	SMBALERT#/GPIO11	
6 PM_STPPCI#	PM_STPPCI#	A14	STP_PCI#	
6 STP_CPU#	STP_CPU#	E19	STP_CPU#	
33,34,37,39 PM_CLKRUN#	PM_CLKRUN#	L4	CLKRUN#	
		E20	WAKE#	
33,34,37,39 INT_SERIRQ	INT_SERIRQ	M5	SERIRQ	
	SB_THRM#	AJ23	THRM#	
	VRMPWRGD	D21	VRMPWRGD	
TP164 26MIL	TP12	A20	TP12	
37 FP_DET#	FP_DET#	AG19	GPIO1	Power MGT
34 ID_LPC_PCI#		AH21	GPIO6	
33 RUNTIME_SCI#		AG21	GPIO7	
33 EXTSMI#		A21	GPIO8	
34 MB_FLASH_EN		C12	LAN_PHY_PWR_CTRL/GPIO12	
	GPIO13	C21	ENERGY_DETECT/GPIO13	
	ODD_DP#	AE18	GPIO17	
TP192 26MIL	TP_GPIO18	K1	GPIO18	
TP53 26MIL	TP_GPIO20	AF8	GPIO20	
	GPIO22	AJ22	SCLOCK/GPIO22	
25 INV_EN		A9	GPIO27	
48 ODD_ON	ODD_ON	D19	GPIO28	
6 SATACLKREQ#	SATACLKREQ#	L1	SATACLKREQ#/GPIO35	
	GPIO38	AE19	SLOAD/GPIO38	
	DOCK_SUPPORT	AG22	SDATAOUT0/GPIO39	
	GPIO48	AF21	SDATAOUT1/GPIO48	
TP207 26MIL	TP_GPIO49	AH24	GPIO49	
	GPIO57	A8	GPIO57/CLGPIO5	
37 HDA_SPKR	HDA_SPKR	M7	SPKR	GPIO Controller Link
8 MCH_ICH_SYNC#		AJ24	MCH_SYNC#	
TP166 26MIL	TP3	B21	TP3	
TP212 26MIL	TP9	AH20	TP9	
TP206 26MIL	TP10	AJ20	TP10	
TP208 26MIL	TP11	AJ21	TP11	MISC

ICH9M null

SATA0GP/GPIO21	AH23	PANEL_ID1	PANEL_ID1 25
SATA1GP/GPIO19	AE19	PANEL_ID0	PANEL_ID0 25
SATA4GP/GPIO36	AE21	DISPLAY_SEL	
SATA5GP/GPIO37	AD20	GPIO37	
CLK14	H1	CLK_ICH14	CLK_ICH14 6
CLK48	AF3	CLK_USB48	CLK_USB48 6
SUSCLK	P1	SUS_CLK	26MIL TP193
SLP_S3#	C16	PM_SLP_S3#	PM_SLP_S3# 33
SLP_S4#	E16	PM_SLP_S4#	PM_SLP_S4# 33
SLP_S5#	G17	PM_SLP_S5#	PM_SLP_S5# 33
S4_STATE#/GPIO26	C10	PM_S4_STATE#	26MIL TP162
PWROK	G20	IMVP_PWRGD_SB	R64 2.2K_J 0201 IMVP_PWRGD 8,33
DPRSLPVR/GPIO16	M2	DPRSLPVR_R	R359 0_J 0201 DPRSLPVR 8,47
BATLOW#	B13	BATLOW#	
PWRBTN#	R3		PWRBTN# 33
LAN_RST#	D20	LAN_RST#	R42 10K_J 0201
RSMRST#	D22	PM_RSMRST#_SB	R18 2.2K_J 0201 PM_RSMRST# 33
CK_PWRGD	R5	CLK_PWRGD	CLK_PWRGD 6
CLPWROK	R6	MPWROK	
SLP_M#	B16	PM_SLP_M#	26MIL TP163
CL_CLK0	F24	CL_CLK0	CL_CLK0 8
CL_CLK1	B19	CL_CLK1	26MIL TP170
CL_DATA0	F22	CL_DATA0	CL_DATA0 8
CL_DATA1	C19	CL_DATA1	26MIL TP165
CL_VREF0	C25	CL_VREF0_ICH	
CL_VREF1	A19	CL_VREF1_ICH	
CL_RST0#	F21	CL_RST0#	CL_RST0# 8
CL_RST1#	D18	CL_RST1#	26MIL TP15
MEM_LED/GPIO24	A16	TP_GPIO24	26MIL TP167
GPIO10/SUS_PWR_ACK	C18	GPIO10	
GPIO14/AC_PRESENT	C11	GPIO14	
WOL_EN/GPIO9	C20	TP_GPIO9	26MIL TP168

+3VRUN
PANEL_ID0 R95 10K_J 0201
PANEL_ID1 R383 10K_J 0201
ID0_PU R134 NC_10K_J 0201
ID1_PU R141 NC_10K_J 0201
GPIO38 R115 10K_J 0201
DOCK_SUPPORT R121 DS_10K_J 0201
R586 ND_10K_J 0201
12/27 DVT1

1/29 DVT2
CLK_USB48
R371 NC_10_J 0402
C423 NC_10P_50V_J_N 0402

ID_LPC_PCI#
80 Port I/F:
H: LPC bus
L: PCI bus

RP38 8.2K RUNTIME_SCI# ID_LPC_PCI# 0302_4P2R
R382 8.2K_J SB_THRM#
RP5 8.2K PM_CLKRUN# INT_SERIRQ 0302_4P2R
R114 R381 R96 R60 R331 R116 10K_J 2.2K_J 0201
GPIO48 GPIO22 ODD_DP# SMB_CLK_SB SMB_DATA_SB FP_DET#
R583 NC_10K_J 0201 TP_GPIO9
DVT2 1/26 If G3 -> S5 WOL is not supported, GPIO9/WOL_EN can be connected to ground.

MPWROK 8
MPWROK R82 0_J 0201 IMVP_PWRGD

+3VRUN
U3 EEPROM_SOP-8_256x8 HT24LC02
VCC WP SCL SDA A0 A1 A2 VSS
SMB_CLK_SB SMB_DATA_SB
C21 0.1U_16V_Y 0402_Y5V

SMBus Address: AEH

33,47 IMVP_OK R22 0_J 0201 VRMPWRGD
R21 100K_J 0201

+3VALW
R15 NC_3.24K_F 0201
CL_VREF1_ICH
C14 NC_0.1U_16V_M_B 0402
R16 NC_453_F 0201

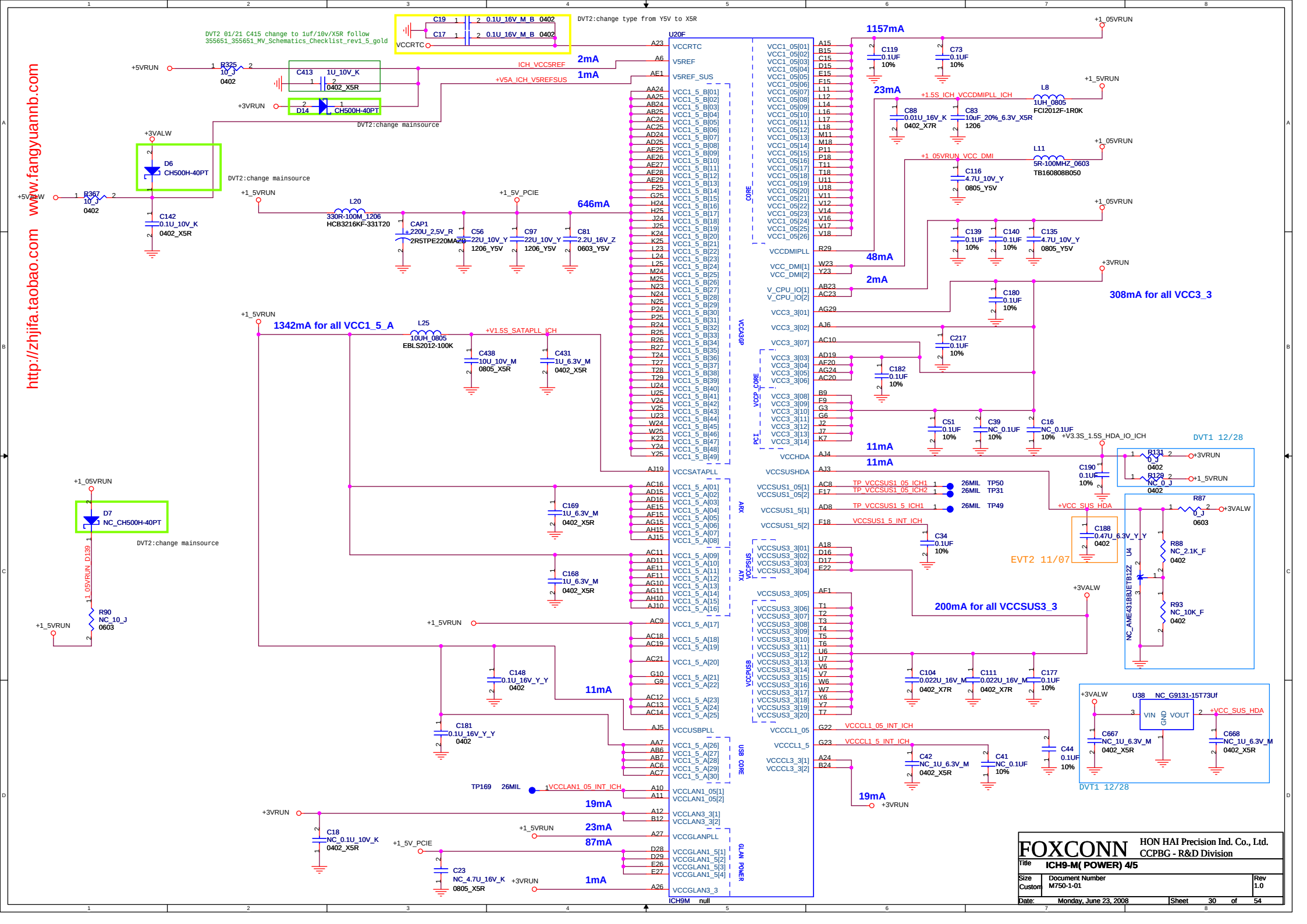
+3VRUN
R37 3.24K_F 0201
CL_VREF0_ICH
C20 0.1U_16V_M_B 0402
R36 453_F 0201

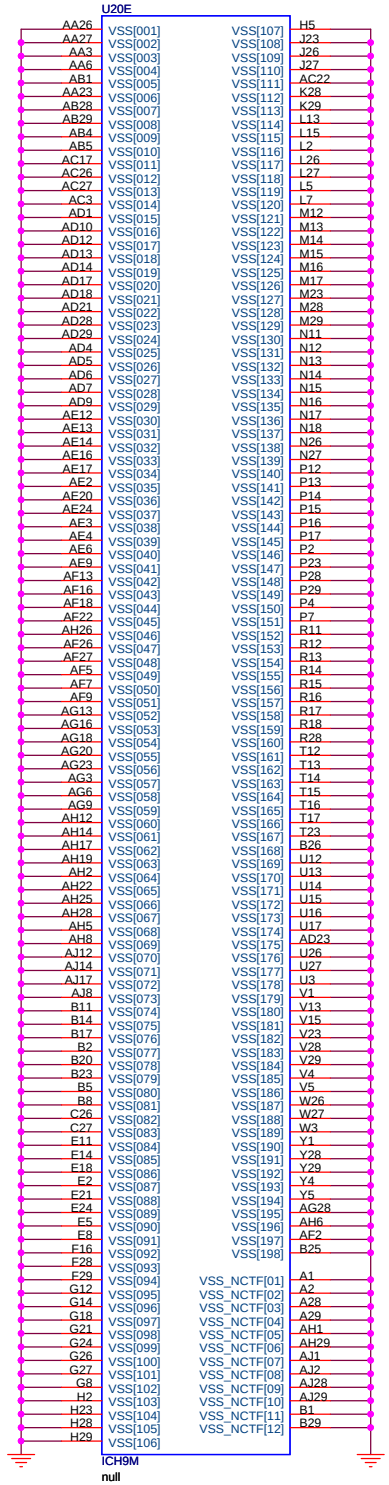
+3VALW
SMB_LINK_ALERT# R55 10K_J 0201
BATLOW# R330 8.2K_J 0201
PCIE_WAKE# R23 1K_J 0201
GPIO10 R333 10K_J 0201
GPIO14 R41 10K_J 0201

D5 BAS316PT
PM_RSMRST#_SB
ALW_PWRGD 33,44
D4 BAS316PT
IMVP_PWRGD_SB

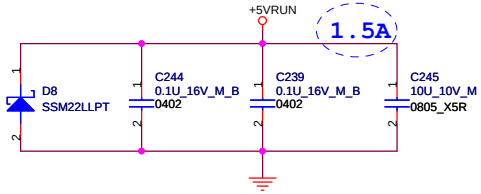
35 PCIE_EXPRESS_WAKE# R24 0_J 0201
37 PCIE_WAKE#

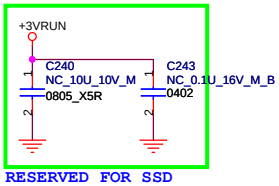
FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	ICH9-M(GPIO) 3/5	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Monday, June 23, 2008	Sheet 29 of 54	

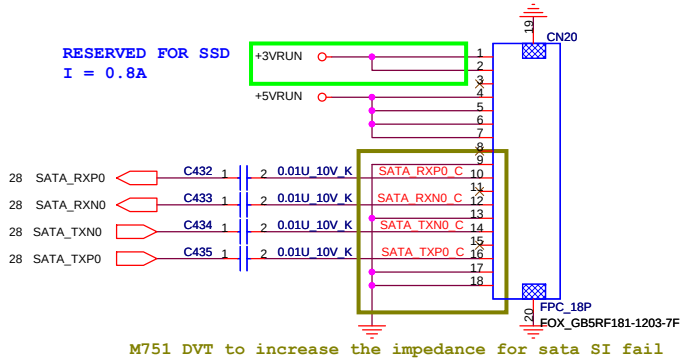

http://zhjifa.taobao.com www.fangyuannb.com
DVT2 01/21 C415 change to 1uf/10v/X5R follow 355651_355651_MV_Schematics_Checklist_rev1_5_gold
DVT2:change type from Y5V to X5R
C19 0.1U_16V_M_B_0402
C17 0.1U_16V_M_B_0402
VCCRTC
U20F
ICH_VCC5REF
2mA
1mA
+V5A_ICH_V5REFSUS
R325 10_J 0402
C413 1U_10V_K 0402_X5R
D14 CH500H-40PT
DVT2:change mainsource
+3VALW
D6 CH500H-40PT
R367 10_J 0402
C142 0.1U_10V_K 0402_X5R
+1_5VRUN
L20 330R-100M_1206 HCB3216KF-331T20
CAP1 220U_2,5V_R 2R5TPE220MAZ0
C56 22U_10V_Y 1206_Y5V
+1_5V_PCIE
C97 22U_10V_Y 1206_Y5V
C81 2.2U_16V_Z 0603_Y5V
646mA
1342mA for all VCC1_5_A
L25 10UH_0805 EBLS2012-100K
+V1.5S_SATAPLL_ICH
C438 10U_10V_M 0805_X5R
C431 1U_6.3V_M 0402_X5R
+1_05VRUN
D7 NC_CH500H-40PT
R90 NC_10_J 0603
C169 1U_6.3V_M 0402_X5R
C168 1U_6.3V_M 0402_X5R
C148 0.1U_16V_Y_Y 0402
C181 0.1U_16V_Y_Y 0402
11mA
TP169 26MIL
1VCCLAN1_05_INT_ICH
19mA
C18 NC_0.1U_10V_K 0402_X5R
+1_5V_PCIE
C23 NC_4.7U_16V_K 0805_X5R
23mA
87mA
1mA
CORE
VCCSATAPLL
VCCA3GP
VCCP_CORE
PCI
VCCSUSHDA
VCCSUS1_05
VCCSUS1_5
VCCSUS3_3
VCCCL1_05
VCCCL1_5
VCCCL3_3
VCCGLANPLL
GLAN POWER
USB CORE
ICH9M null
1157mA
C119 0.1UF 10%
C73 0.1UF 10%
23mA
+1.5S_ICH_VCCDMIPLL_ICH
C88 0.01U_16V_K 0402_X7R
C83 10uF_20%_6.3V_X5R 1206
L8 1UH_0805 FCI2012F-1R0K
+1_05VRUN_VCC_DMI
L11 5R-100MHZ_0603 TB160808B050
C116 4.7U_10V_Y 0805_Y5V
48mA
C139 0.1UF 10%
C140 0.1UF 10%
C135 4.7U_10V_Y 0805_Y5V
2mA
C180 0.1UF 10%
308mA for all VCC3_3
C217 0.1UF 10%
C182 0.1UF 10%
C51 0.1UF 10%
C39 NC_0.1UF 10%
C16 NC_0.1UF 10%
+V3.3S_1.5S_HDA_IO_ICH
DVT1 12/28
11mA
11mA
C190 0.1UF 10%
R131 0_J 0402
R129 NC_0_J 0402
TP_VCCSUS1_05_ICH1
TP_VCCSUS1_05_ICH2
TP_VCCSUS1_5_ICH1
VCCSUS1_5_INT_ICH
TP50
TP31
TP49
+VCC_SUS_HDA
C188 0.47U_6.3V_Y_Y 0402
EVT2 11/07
C34 0.1UF 10%
R87 0_J 0603
R88 NC_2.1K_F 0402
R93 NC_10K_F 0402
NC_AME431BBIETB12Z
U4
200mA for all VCCSUS3_3
C104 0.022U_16V_M 0402_X7R
C111 0.022U_16V_M 0402_X7R
C177 0.1UF 10%
U38 NC_G9131-15T73Uf
VIN GND VOUT
C667 NC_1U_6.3V_M 0402_X5R
C668 NC_1U_6.3V_M 0402_X5R
DVT1 12/28
VCCCL1_05_INT_ICH
VCCCL1_5_INT_ICH
C42 NC_1U_6.3V_M 0402_X5R
C41 NC_0.1UF 10%
C44 0.1UF 10%
19mA
FOXCONN
HON HAI Precision Ind. Co., Ltd.
CCPBG - R&D Division
Title ICH9-M(POWER) 4/5
Size Custom
Document Number M750-1-01
Rev 1.0
Date: Monday, June 23, 2008
Sheet 30 of 54



FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	ICH9-M(GND) 5/5	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Monday, June 23, 2008	Sheet 31 of 54	

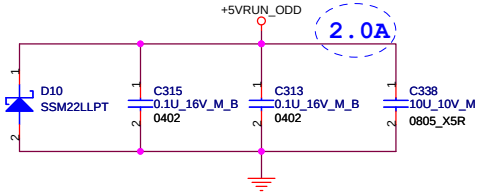


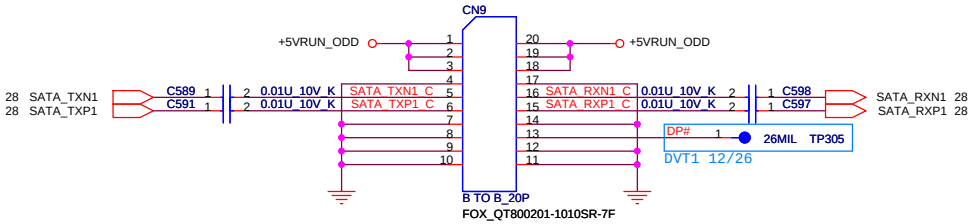




M751 DVT to increase the impedance for sata SI fail

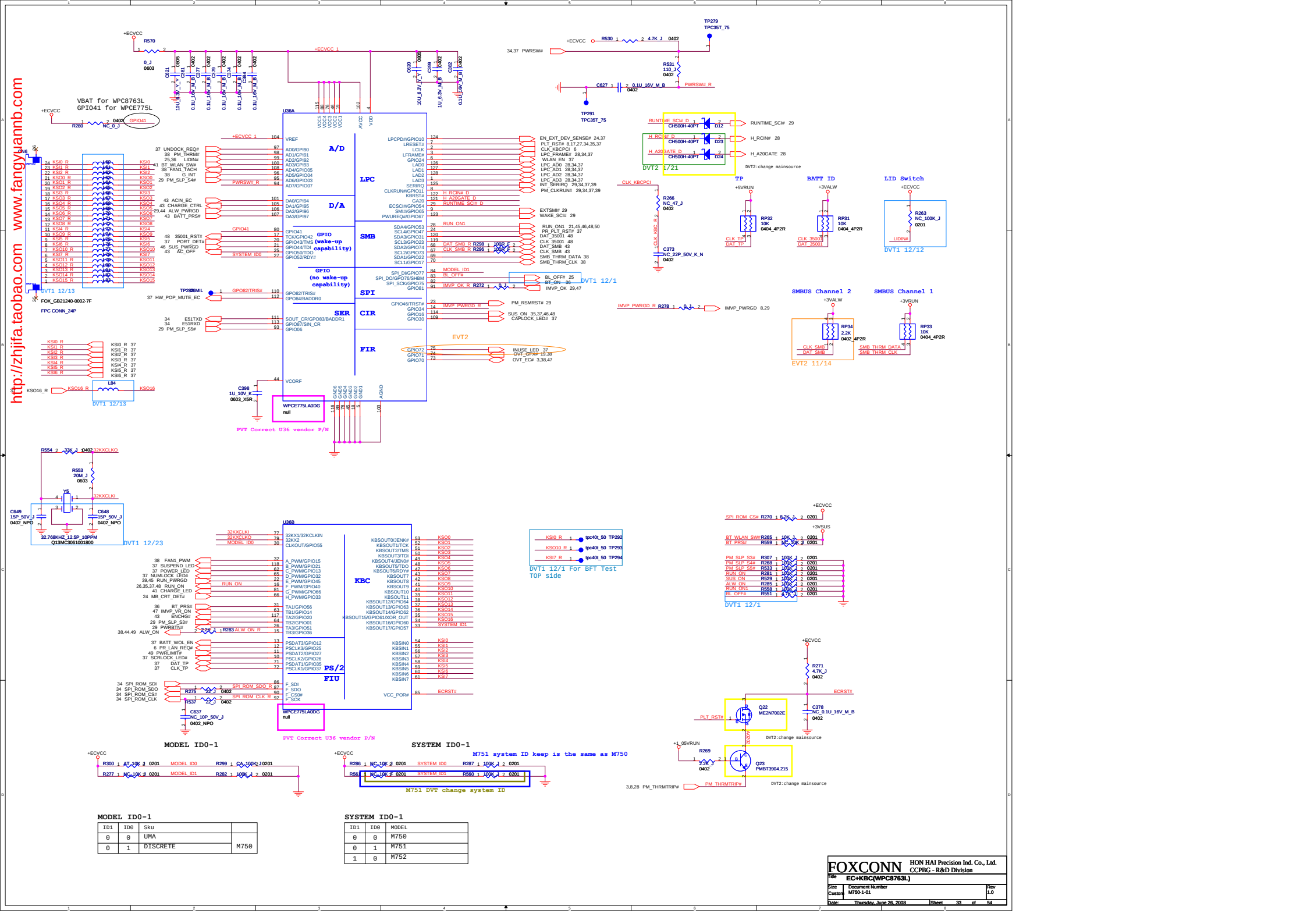
SATA HDD CONN





SATA ODD CONN

FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title: SATA HDD/ODD		
Size: A3	Document Number: M750-1-01	Rev: 1.0
Date: Monday, June 23, 2008	Sheet 32 of 54	



MODEL ID0-1

ID1	ID0	Sku	
0	0	UMA	M750
0	1	DISCRETE	

SYSTEM ID0-1

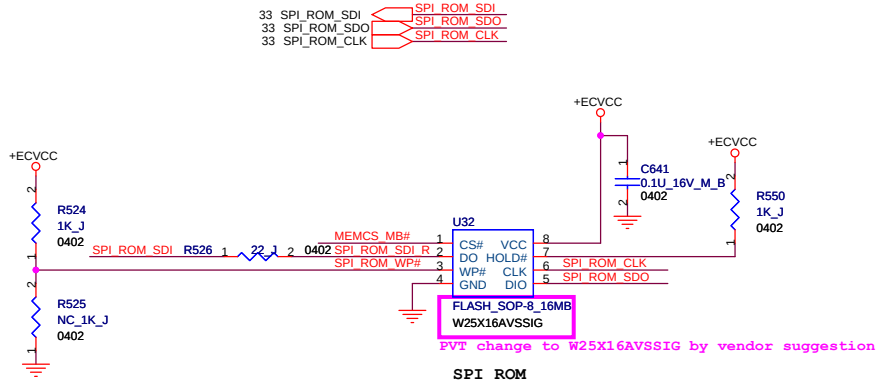
ID1	ID0	MODEL
0	0	M750
0	1	M751
1	0	M752

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

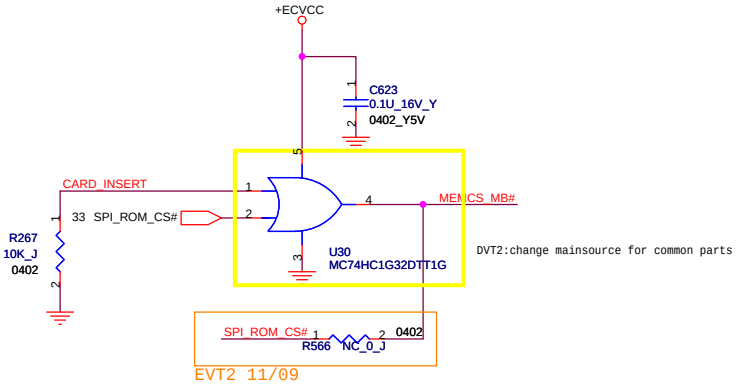
File: EC+KBC(WPC8763L)

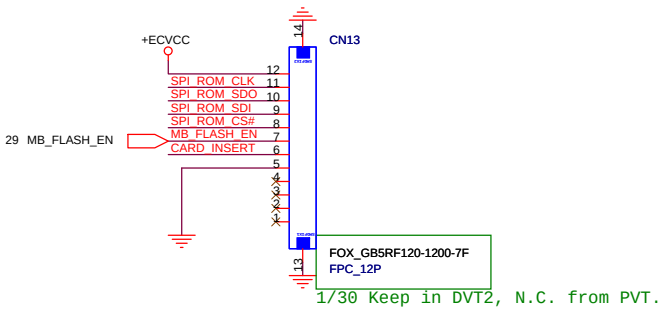
Size: Custom | Document Number: M750-1-01 | Rev: 1.0

Date: Thursday, June 26, 2008 | Sheet 33 of 54

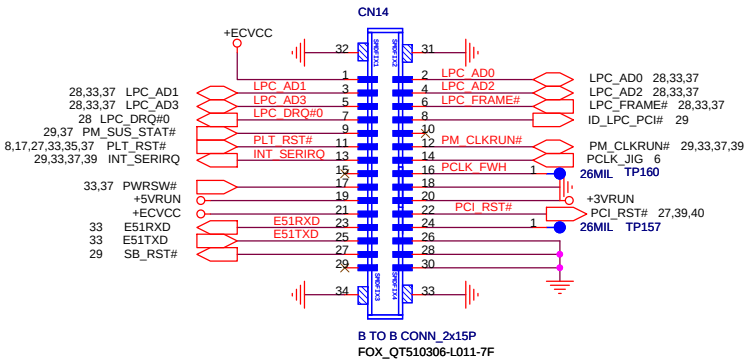


SPI ROM





EXTERNAL SPI ROM INTERFACE

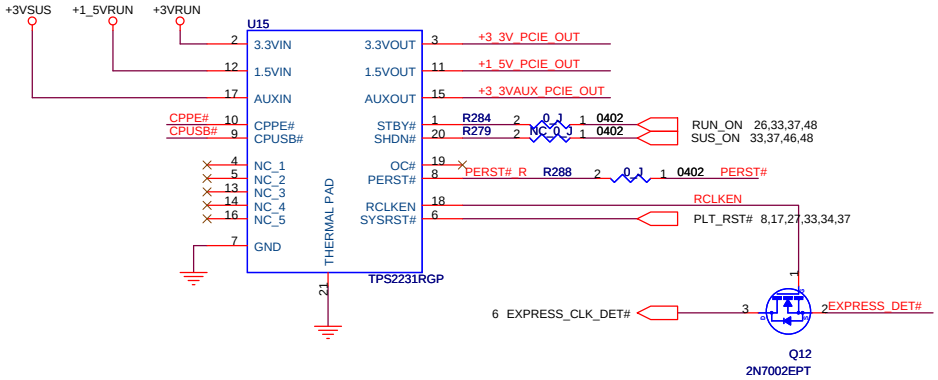


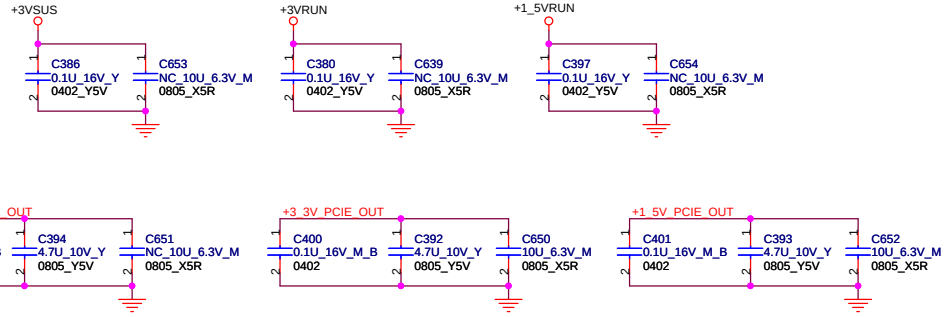
JIG-120

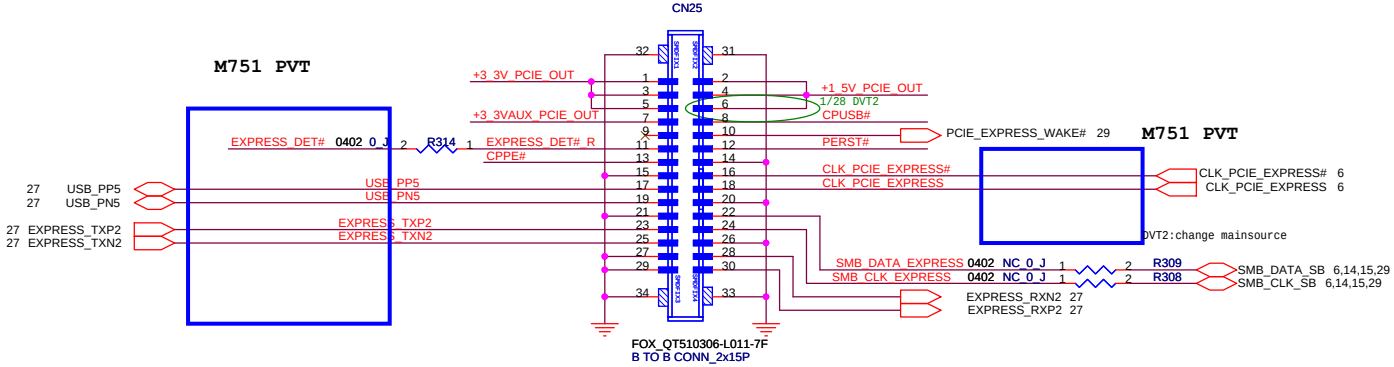
FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	BIOS ROM/DEBUG PORT	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Monday, June 23, 2008	Sheet 34 of 54	

+1_5V=>0.65A
+3_3VAux=>0.275A
+3_3V=>1.3A

Express Card Power Switch

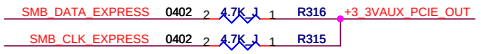




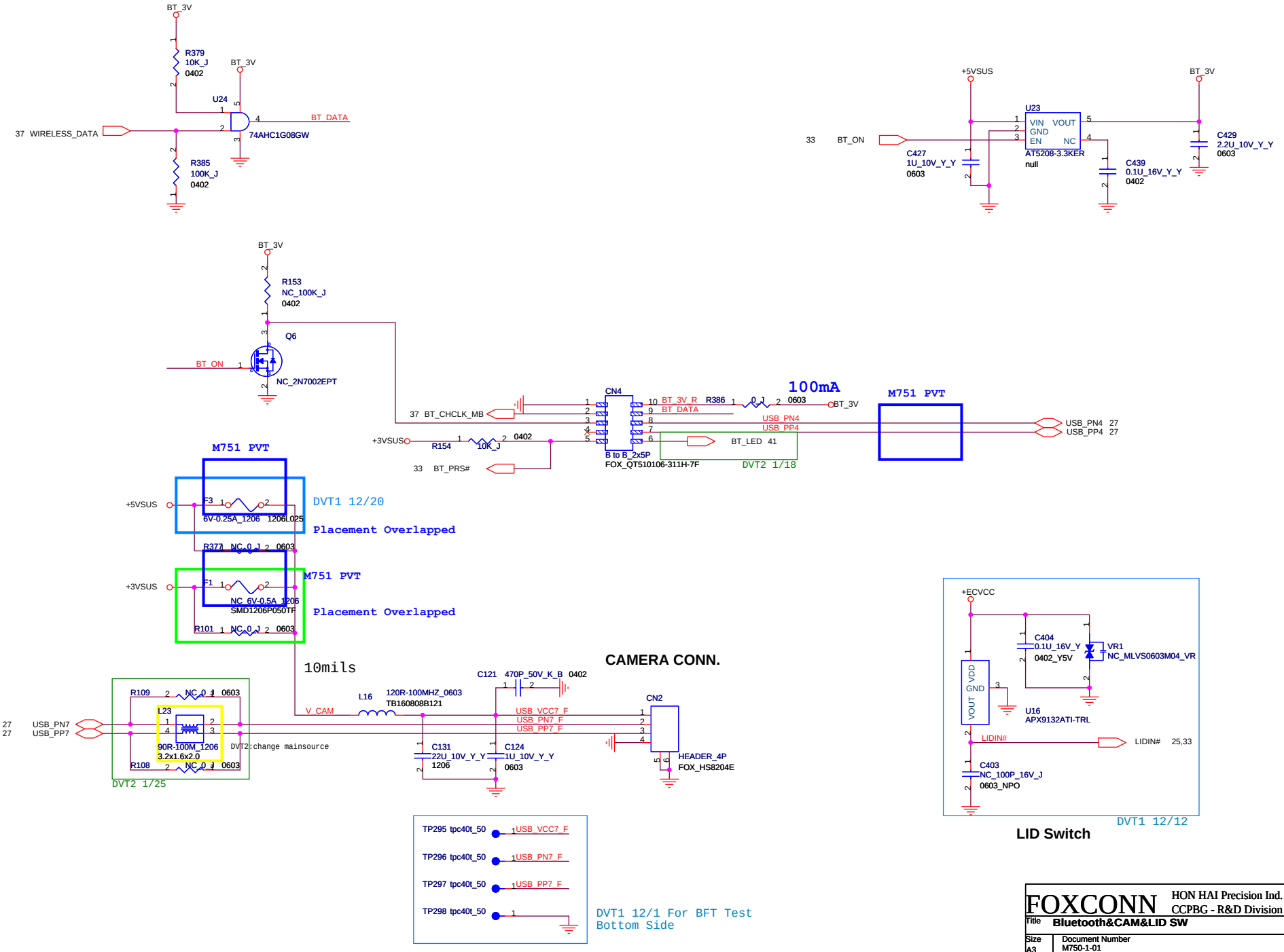


Express Card FPC.

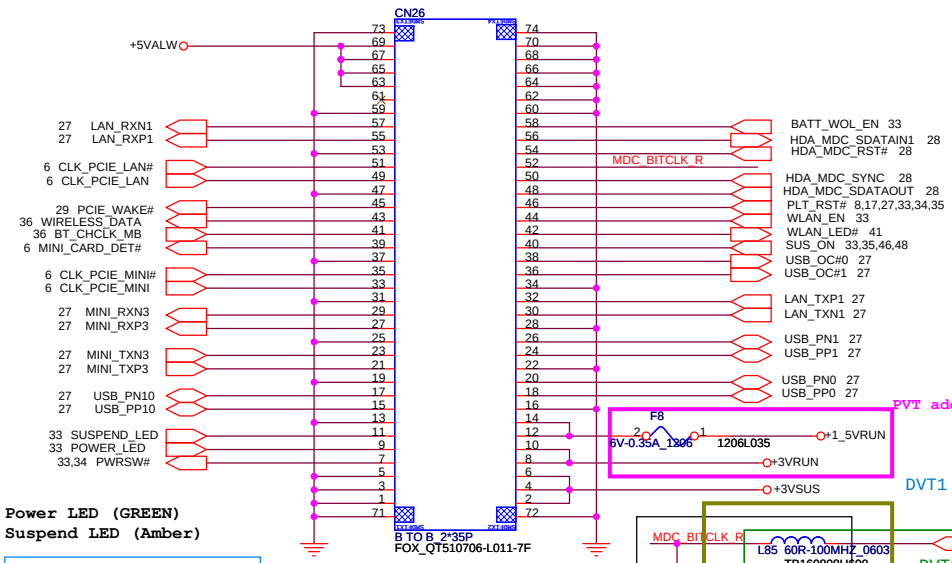
EVT2 10/24 Change to BTB



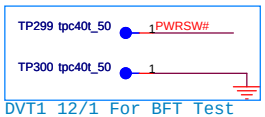
FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	EXPRESS CARD	
Size A3	Document Number M750-1-01	Rev 0.1
Date: Monday, June 23, 2008	Sheet 35 of 54	



FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	Bluetooth&CAM&LID SW	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Monday, June 23, 2008	Sheet 36 of 54	



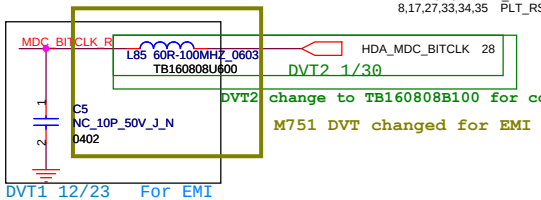
Power LED (GREEN)
Suspend LED (Amber)



DVT1 12/1 For BFT Test
Bottom Side

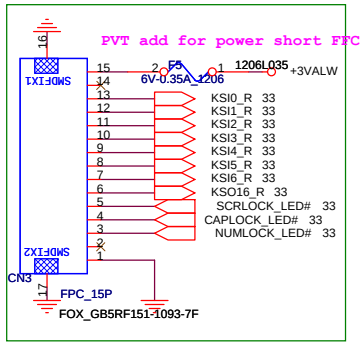
USB board connector
EVT2 10/24 Change to BTB

DVT1 12/17

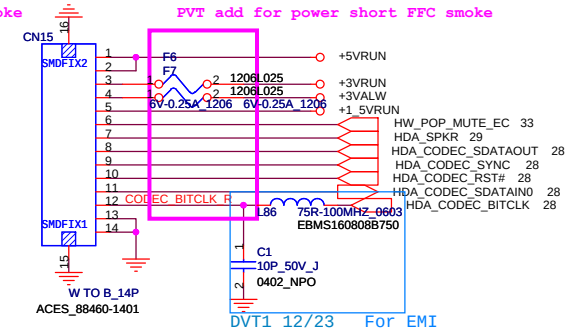


DVT2 1/30
DVT2 change to TB160808B100 for cost down
M751 DVT changed for EMI
DVT1 12/23 For EMI

DVT2 1/28

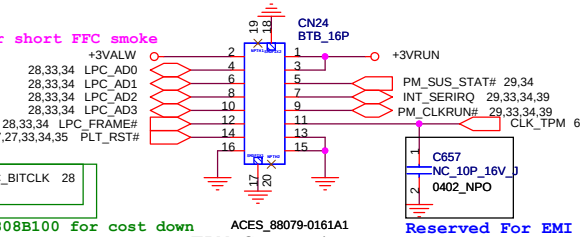


Button Board FUNCTION TBD



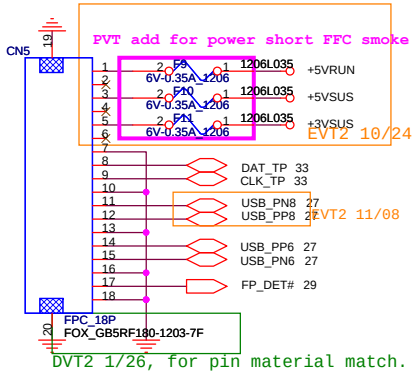
DVT1 12/23 For EMI

Audio Board Connector



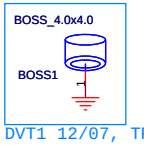
TPM Connector
EVT2 10/24 Change to BTB

Reserved For EMI



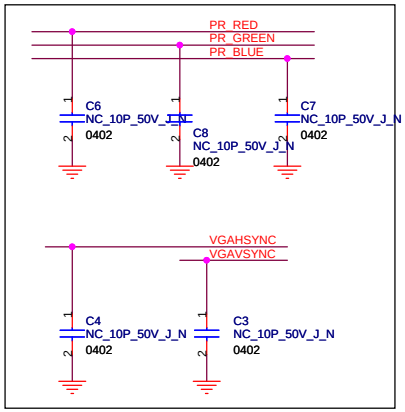
EVT2 10/24
EVT2 11/08
DVT2 1/26, for pin material match.

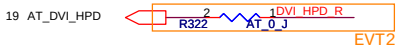
Touch Pad Board Connector



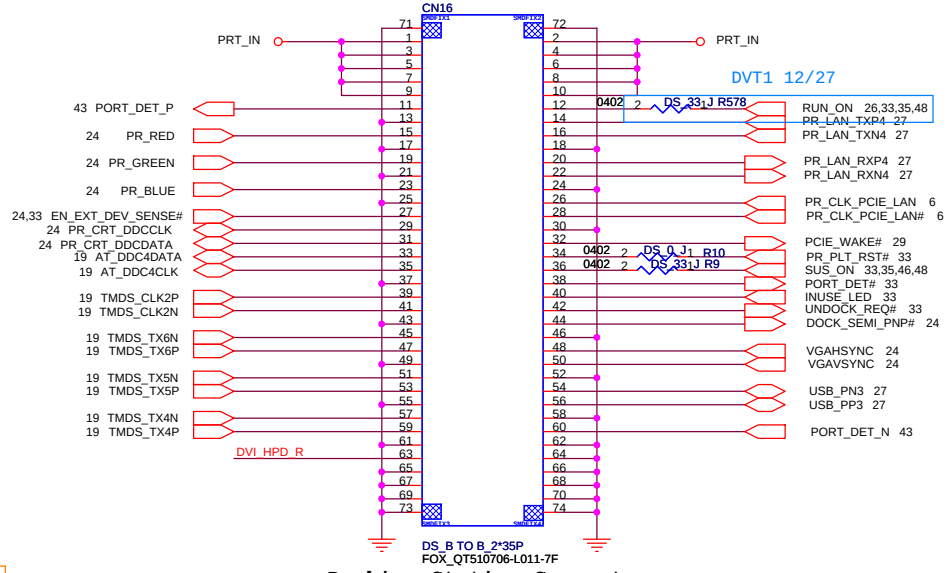
DVT1 12/07, TPM Nut

Reserved For EMI

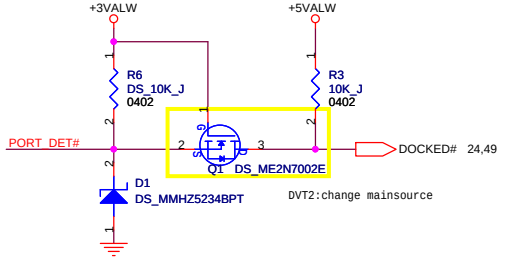




EVT2

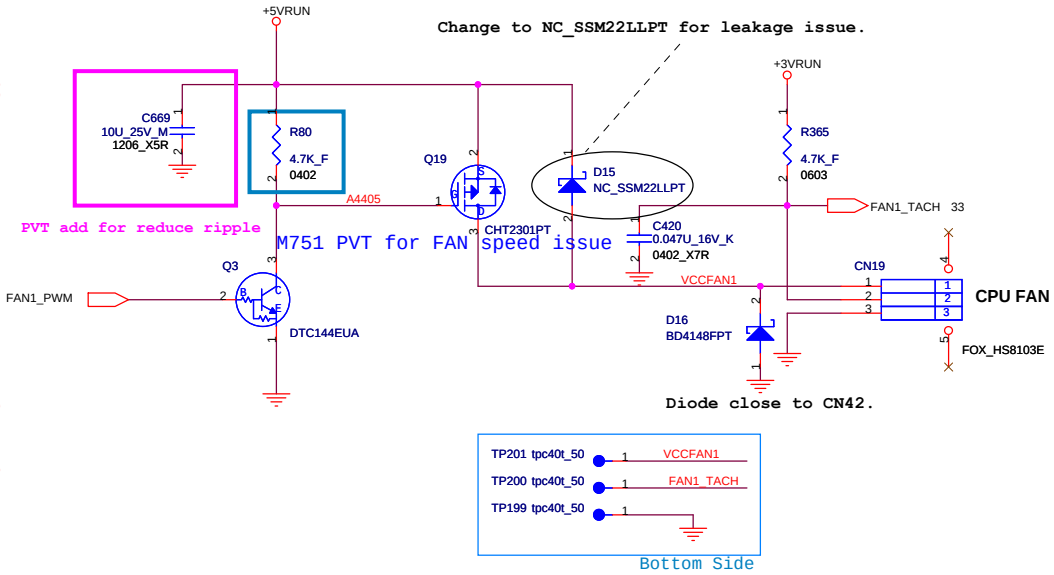


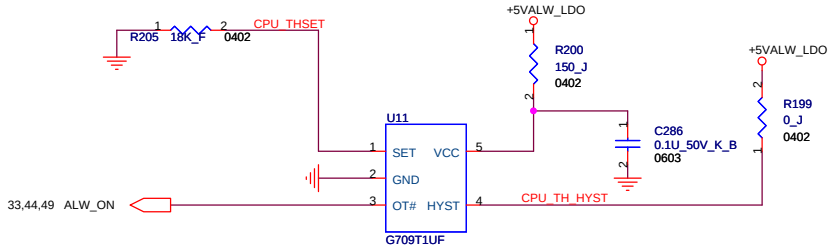
Docking Station Connector

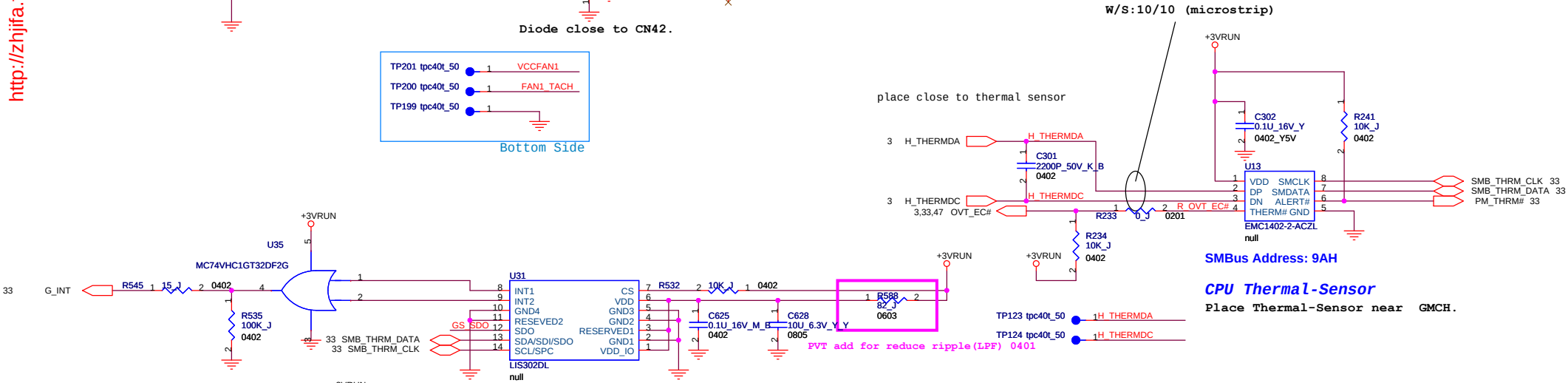


FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	DB connector & Docking	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Monday, June 23, 2008	Sheet 37 of 54	

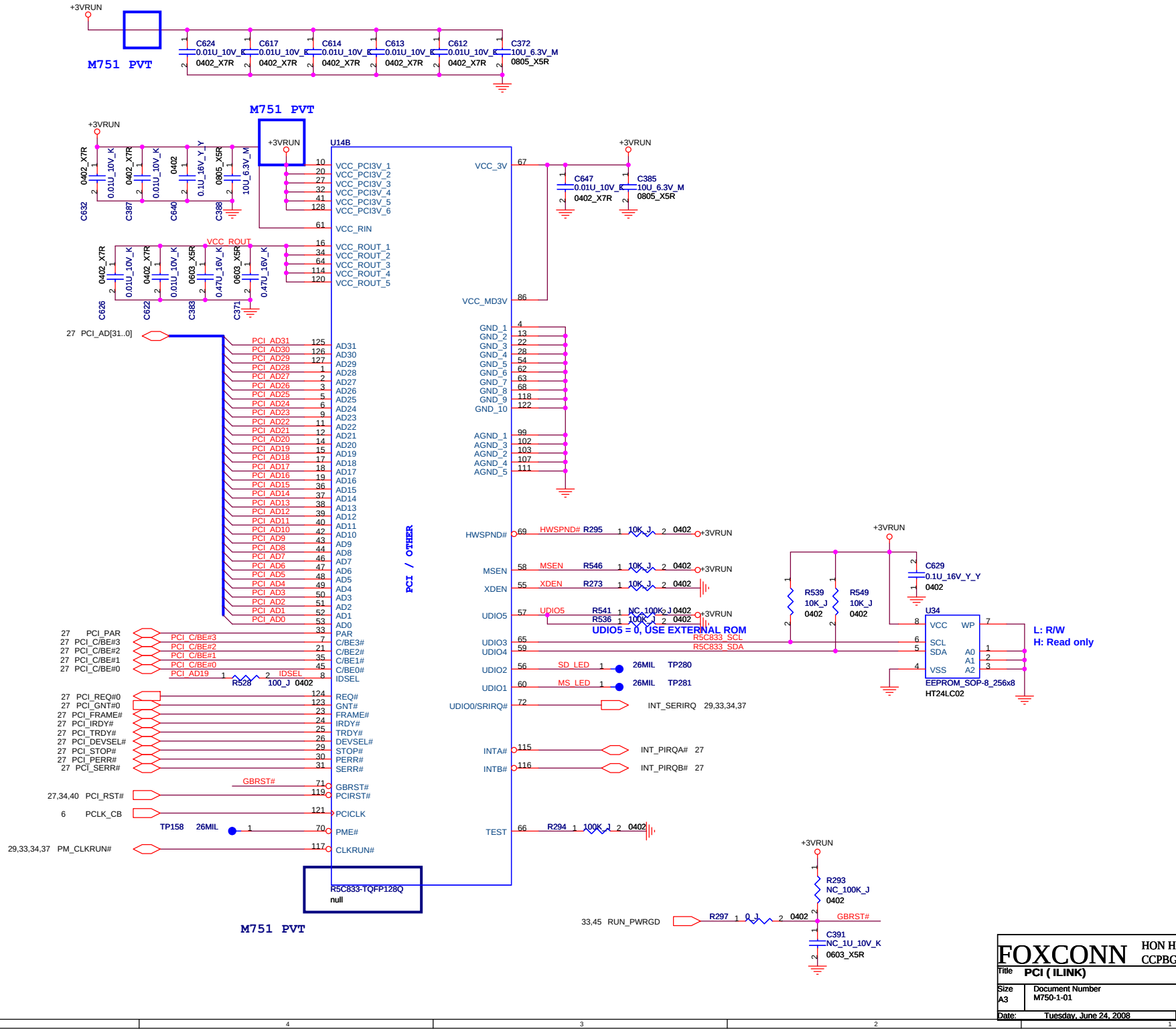
HW THERMAL PROTECTION







FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	FAN/Thermal & G-Sensor	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Thursday, June 26, 2008	Sheet 38 of 54	



M751 PVT

U14A

IEEE1394/SD

XOUT_R
R290 0_J 0402
XOUT
R289 NC_10M_J 0402
XIN
Y1
24.576MHZ_16P_30PPM
ITTI_L5030-24.576-16
C390 0402_NPO 22P_50V_J
C389 0402_NPO 22P_50V_J
EVT2 11/14
XIN 94 XI
XOUT 95 XO
96 FIL0
R548 10K_F 0402 833_REXT 101 REXT
C645 0.01U_10V_K 0402_X7R 833_VREF 100 VREF
Add net name
97 RSV
R5C833-TQFP128Q
null

AVCC_PHY3V_1 98
AVCC_PHY3V_2 106
AVCC_PHY3V_3 110
AVCC_PHY3V 112
AVCC_833
C375 10U_6.3V_M 0805_X5R
C634 0.1U_16V_Y_Y 0402
C630 1000P_50V_M_B 0402
C646 0.01U_10V_K 0402_X7R
L39 120R-100MHZ_0603 EBMS160808A121
+3VRUN

TPBIAS0 113
C631 0.22U_6.3V_K 0402_X5R
C633 0.1U_10V_K 0402_X7R
HEIGHT LIMIT: 0.8mm
R538 56.2_F 0402
R534 56.2_F 0402

TPBN0 104 TPB0-
TPBP0 105 TPB0+
TPAN0 108 TPA0-
TPAP0 109 TPA0+
L57 90R-100M_1206 3.2x1.6x2.0
L56 90R-100M_1206 3.2x1.6x2.0
TPB- TPB+ TPA- TPA+
R542 56.2_F 0402
R547 56.2_F 0402
C638 270P_50V_K 0402_NPO
R543 5.1K_F 0402
AS CLOSE AS POSSIBLE TO R5C833

1394_AGND
CN8 1394_4P FOX_UV31413-WU92P-7F
L87 600R-100MHZ_0603 EBMS160808A601
L88 NC_600R-100MHZ_0603 EBMS160808A601
iLink CONN.
PVT add for EMI

+3VRUN
U33 BD2056AFJ
MSPWR_EN
SDPWR_EN
C636 NC_10U_6.3V_M 0805_X5R
C635 10U_6.3V_M 0805_X5R
MS/SD POWER

VCC_CTRLMS
C325 2.2U_10V_M 0603_X5R
C330 0.1U_16V_Y_Y 0402
R253 150K_J 0402
VCC_CTRLSD
C610 1U_6.3V_M 0402_X5R
C615 1U_6.3V_M 0402_X5R
C619 0.1U_16V_Y_Y 0402
R527 150K_J 0402
HEIGHT LIMIT: 0.8mm

MDIO17(MMC)(SD/MS)(xD) 87 MS_DATA3 R574 68_J 0402 MS_DATA3_R
MDIO16(MMC)(SD/MS)(xD) 92 MS_DATA2 R573 68_J 0402 MS_DATA2_R
MDIO15(MMC)(SD/MS)(xD) 89 MS_DATA1 R575 68_J 0402 MS_DATA1_R
MDIO14(MMC)(SD/MS)(xD) 91 MS_DATA0 R576 68_J 0402 MS_DATA0_R
DVT1 1/2 (Close to U14)
MDIO13(SD/MMC)(MS)(xD) 90 SD_DATA3
MDIO12(SD/MMC)(MS)(xD) 93 SD_DATA2
MDIO11(SD/MMC)(MS)(xD) 81 SD_DATA1
MDIO10(SD/MMC)(MS)(xD) 82 SD_DATA0
MS_BS R577 68_J 0402 MS_BS_R
DVT1 1/2 (Close to U14)
MDIO05(SD/MMC)(MS)(xD) 75 MSPWR_EN
MDIO08(SD/MMC)(MS)(xD) 88 SD_CMD
MDIO19(MMC/SD/MS)(xD) 83 R291 33_J 0402 MS_CLK
MDIO18(MMC/SD/MS)(xD) 85 MS_BS
MDIO02(MMC/SD/MS)(xD) 78
C395 NC_10P_16V_J 0402_NPO
MDIO03 77 SD_WP
MDIO00 80 SD_CD#
MDIO01 79 MS_INS#
MDIO09(SD/MMC/MS)(xD) 84 R292 33_J 0402 SD_CLK
C396 NC_10P_16V_J 0402_NPO
MDIO04 76 SDPWR_EN
MDIO06 74 MEDIA_LED
MDIO07 73

+3VRUN
R556 4.7K_J 0402 MS_INS#
R555 4.7K_J 0402 SD_CD#
R557 4.7K_J 0402 SD_WP
C643 1000P_50V_M_B 0402
C642 1000P_50V_M_B 0402
C644 1000P_50V_M_B 0402
DVT1 12/20

DVT1 1/2
MS_BS_R R510 0_J 0402
MS_DATA1_R R509 0_J 0402
MS_DATA0_R R508 0_J 0402
MS_DATA2_R R507 0_J 0402
MS_INS#
MS_DATA3_R R506 0_J 0402
MS_CLK
VCC_CTRLMS
C594 NC_22P_50V_K 0402_NPO
CN10 SOCKET_10P YAMAICHI_JCS010-2300-0
MS STD/DUO CONN.
EVT2

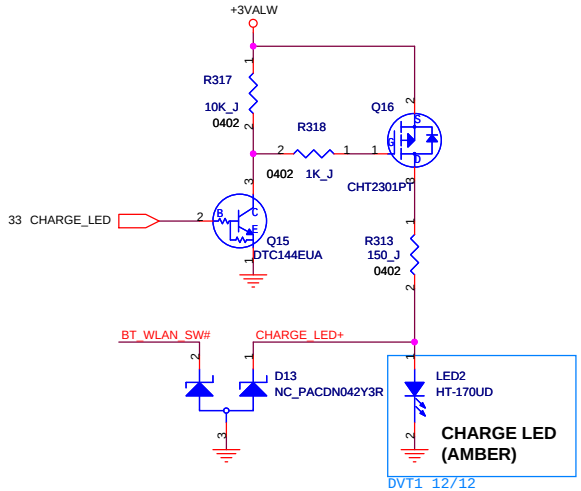
SD_WP
SD_CD#
SD_DATA1 R523 33_J 0402
SD_DATA0 R522 33_J 0402
SD_CLK
C618 NC_22P_50V_K 0402_NPO
VCC_CTRLSD
SD_CMD R521 33_J 0402
SD_DATA3 R520 33_J 0402
SD_DATA2 R519 33_J 0402
CN11 SD SOCKET_9P FOX_WK21923-S6P-7F
SD CONN.

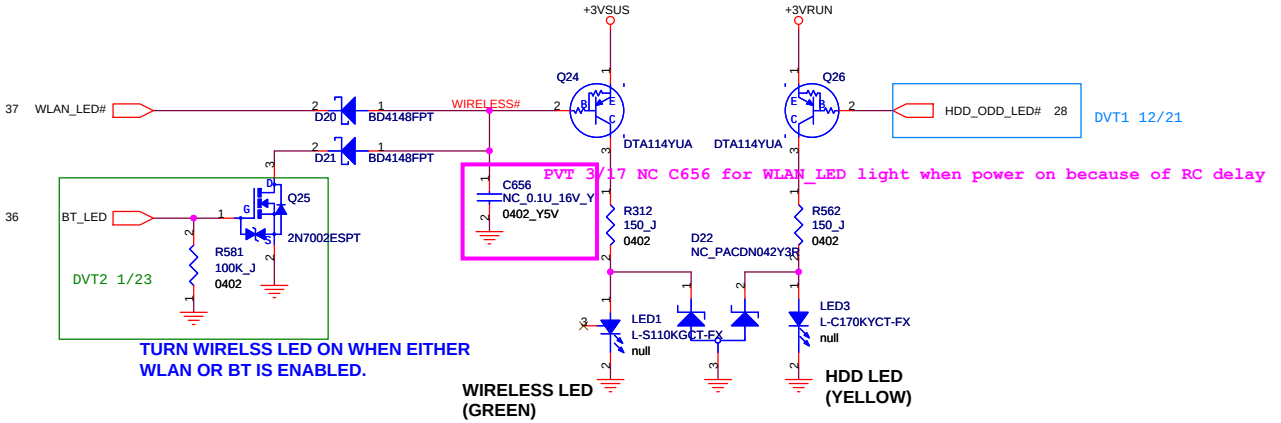
+3VRUN
R310 150_J 0402
LED4 HT-110UY null
MS/SD LED (YELLOW)
EVT2 11/08
DVT add Q30 for cost down
need change EEPROM
Q30 NC_DTA114YUA
Q13 DTC144EUA
MEDIA_LED

27,34,39 PCI_RST#
R589 20K_F 0402
C672 4.7U_6.3V_K 0603_X5R
MEDIA_LED_1
U39 74AHC1G08GW
C670 0.1U_16V_Y_Y 0402
PVT add for MEDIA_LED have high pulse cause the MS/SD LED light when power on 0328

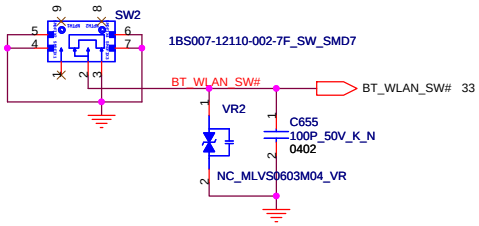
M751 PVT

FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	PCI (ILINK&MS&SD)	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Thursday, June 26, 2008	Sheet 40 of 54	

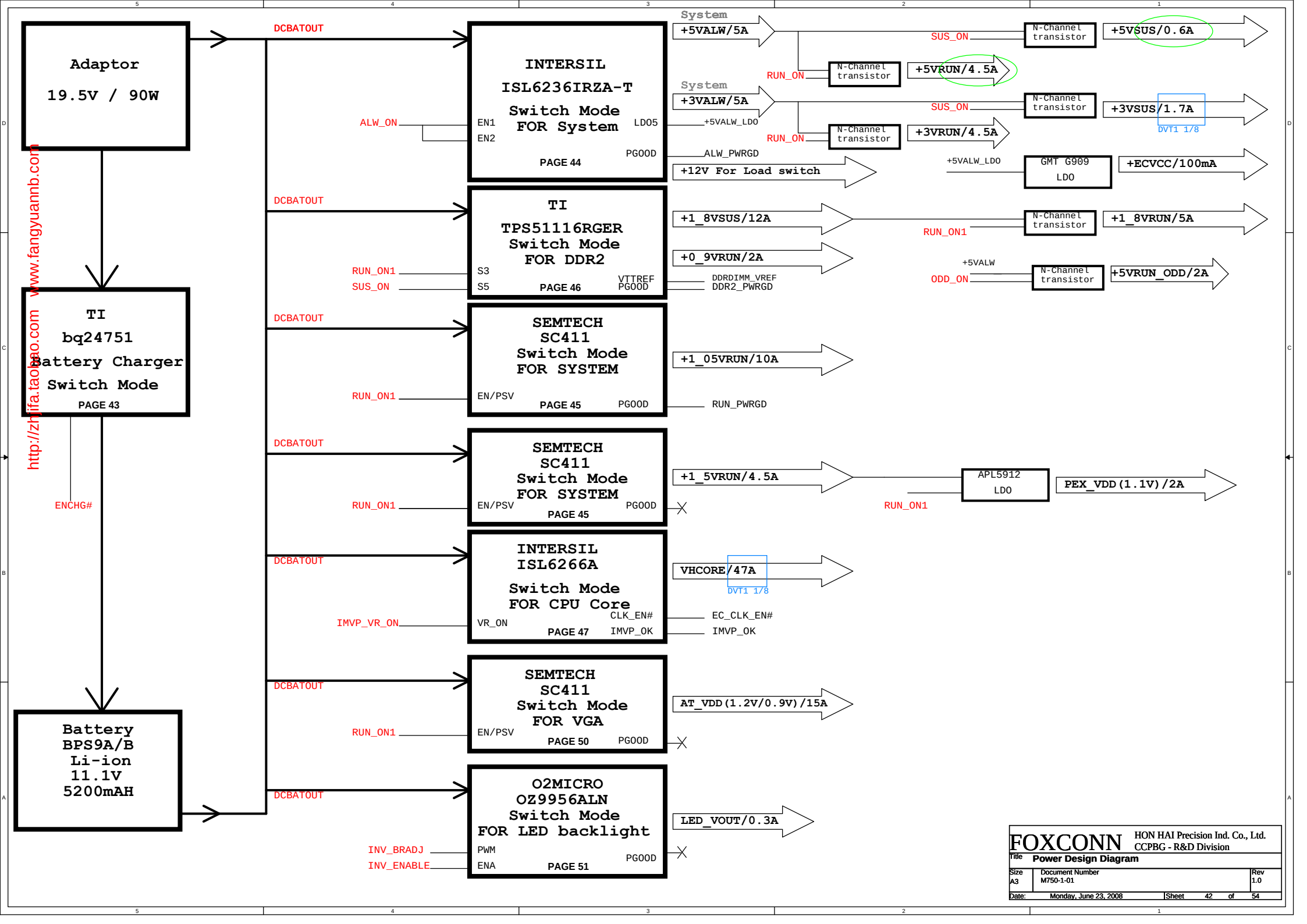


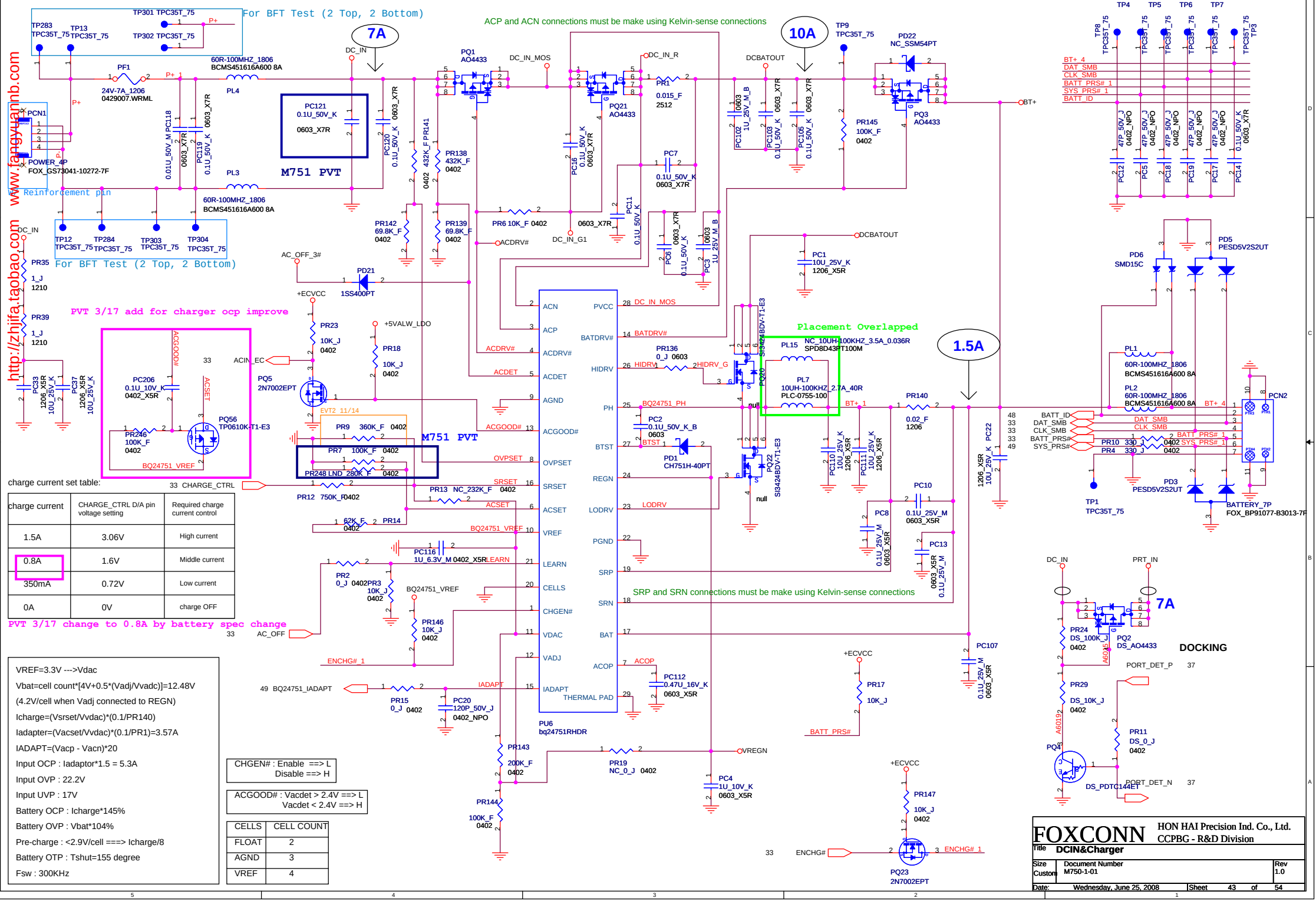


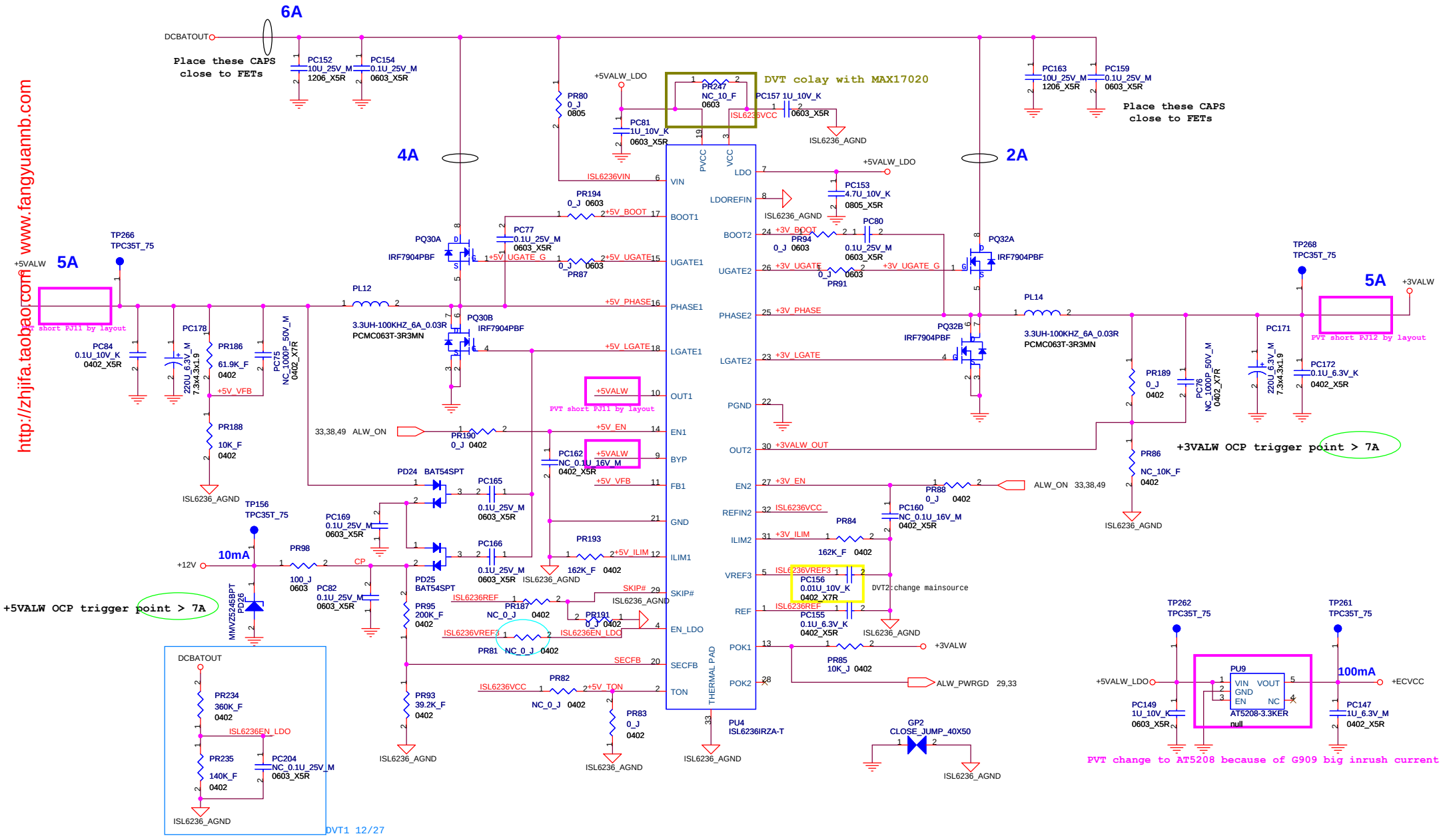
WLAN/BT ON/OFF SWITCH



FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	LED & Switch	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Monday, June 23, 2008	Sheet 41 of 54	




For BFT Test (2 Top, 2 Bottom)
ACP and ACN connections must be make using Kelvin-sense connections
7A
10A
1.5A
M751 PVT
PVT 3/17 add for charger ocp improve
Placement Overlapped
SRP and SRN connections must be make using Kelvin-sense connections
PVT 3/17 change to 0.8A by battery spec change
DOCKING
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/Vvadc)]=12.48V
(4.2V/cell when Vadj connected to REGN)
Icharge=(Vsrset/Vvdac)*(0.1/PR140)
Iadapter=(Vacset/Vvdac)*(0.1/PR1)=3.57A
IADAPT=(Vacp - Vacn)*20
Input OCP : Iadaptor*1.5 = 5.3A
Input OVP : 22.2V
Input UVP : 17V
Battery OCP : Icharge*145%
Battery OVP : Vbat*104%
Pre-charge : <2.9V/cell ===> Icharge/8
Battery OTP : Tshut=155 degree
Fsw : 300KHz
CHGEN# : Enable ==> L
Disable ==> H
ACGOOD# : Vacdet > 2.4V ==> L
Vacdet < 2.4V ==> H
CELLS | CELL COUNT
FLOAT | 2
AGND | 3
VREF | 4
PU6 bq24751RHDR
FOXCONN
HON HAI Precision Ind. Co., Ltd.
CCPBG - R&D Division
Title DCIN&Charger
Size Custom
Document Number M750-1-01
Rev 1.0
Date: Wednesday, June 25, 2008
Sheet 43 of 54
http://zhijia.taobao.com
www.fangyuannb.com



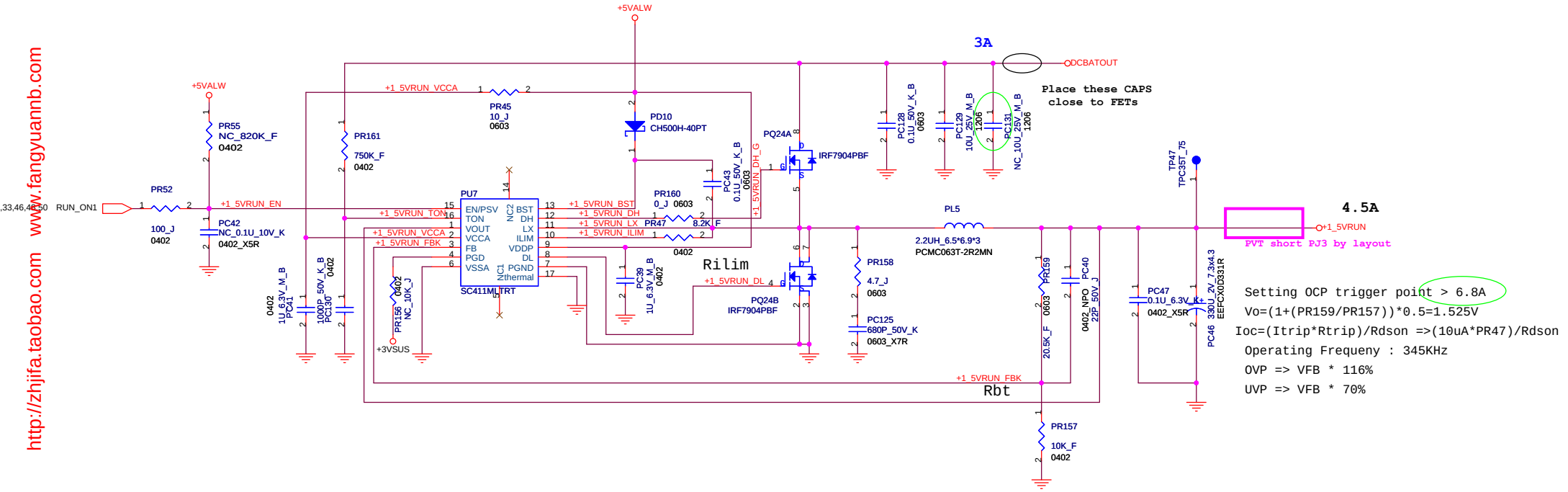
TON	Operating Frequence (+5VALW/+3VALW)
VCC	200KHz/300KHz
REF(OPEN)	400KHz/300KHz
GND	400KHz/500KHz

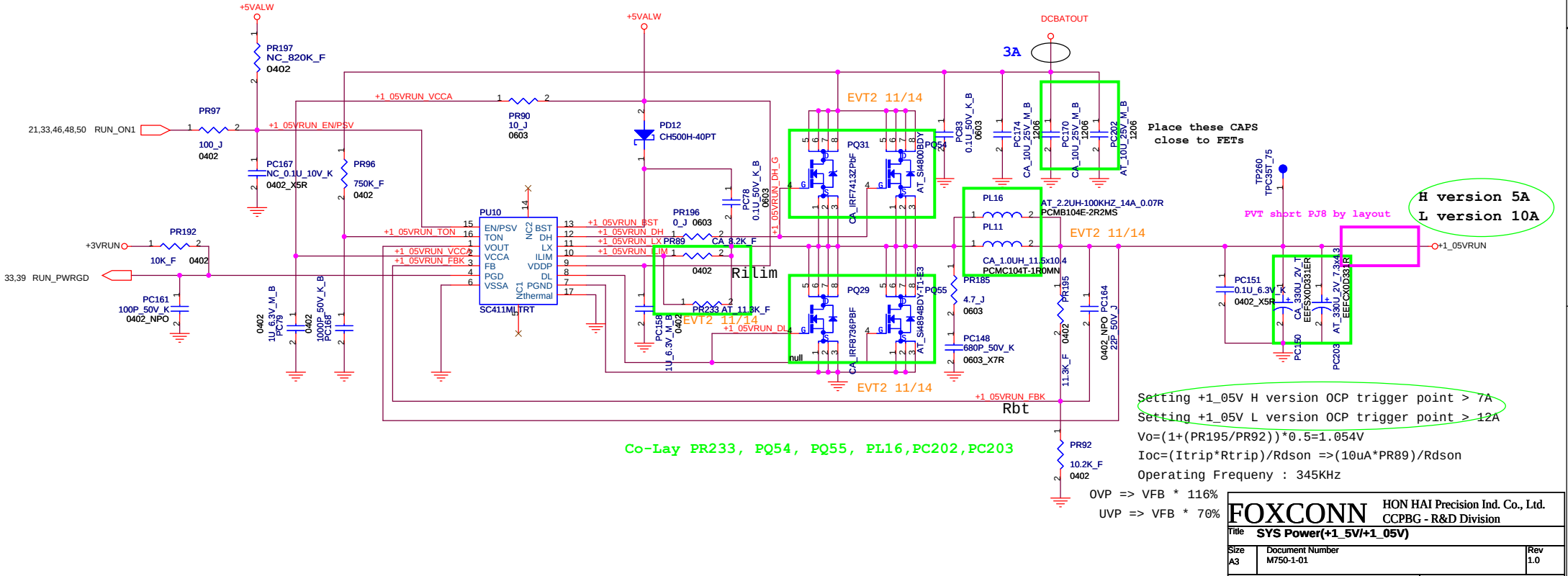
SKIP#	Operating Mode
GND	Pulse-Skipping
REF	Ultrasonic-Skip
VCC	PWM

L=VOUT(VIN-VOUT)/(VIN*f*LIR*ILOAD(MAX))
Rocp=(Iocp-Iripple/2)*(10*Rds(on))/5u
+5VALW=((PR186/PR188)+1)*VFB1

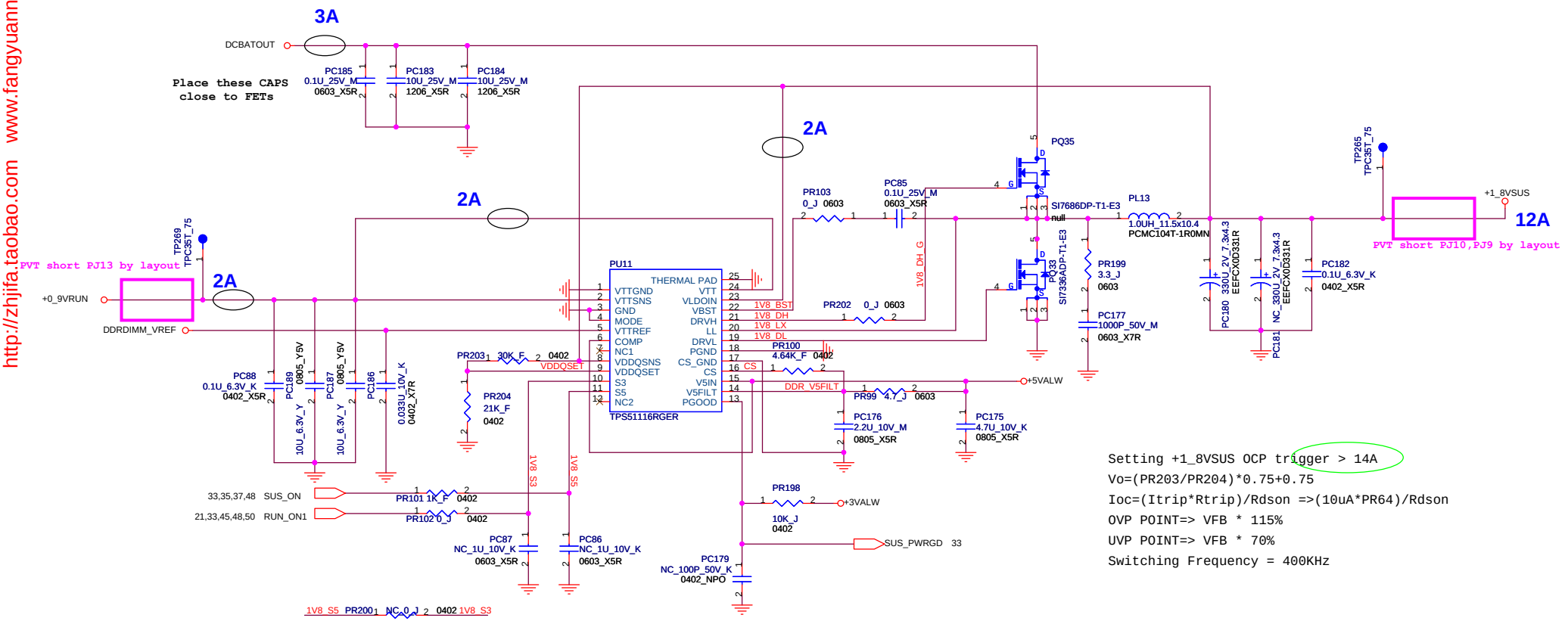
FOXCONN HON HAI Precision Ind. Co., Ltd.
CCPBG - R&D Division

Title	SYS Power (+3_3V/+5V)	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Monday, June 23, 2008	Sheet 44 of 54	



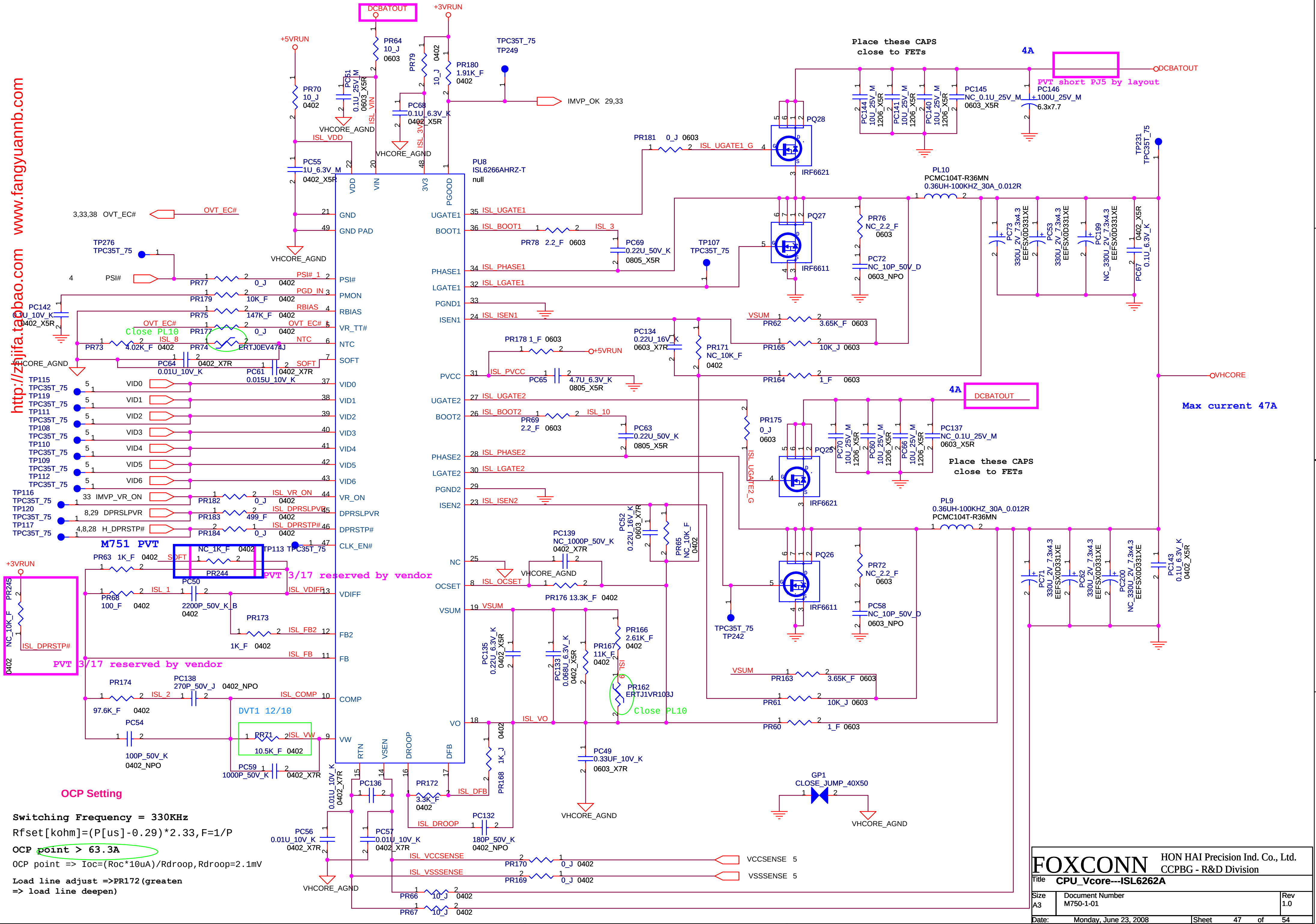


FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	SYS Power(+1_5V/+1_05V)	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Monday, June 23, 2008	Sheet 45 of 54	



Setting +1_8VSUS OCP trigger > 14A
Vo=(PR203/PR204)*0.75+0.75
Ioc=(Itrip*Rtrip)/Rdson =>(10uA*PR64)/Rdson
OVP POINT=> VFB * 115%
UVP POINT=> VFB * 70%
Switching Frequency = 400KHz

FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	DDR2 Power(+1_8V/+0_9V)	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Monday, June 23, 2008	Sheet 46 of 54	



OCP Setting

Switching Frequency = 330KHz

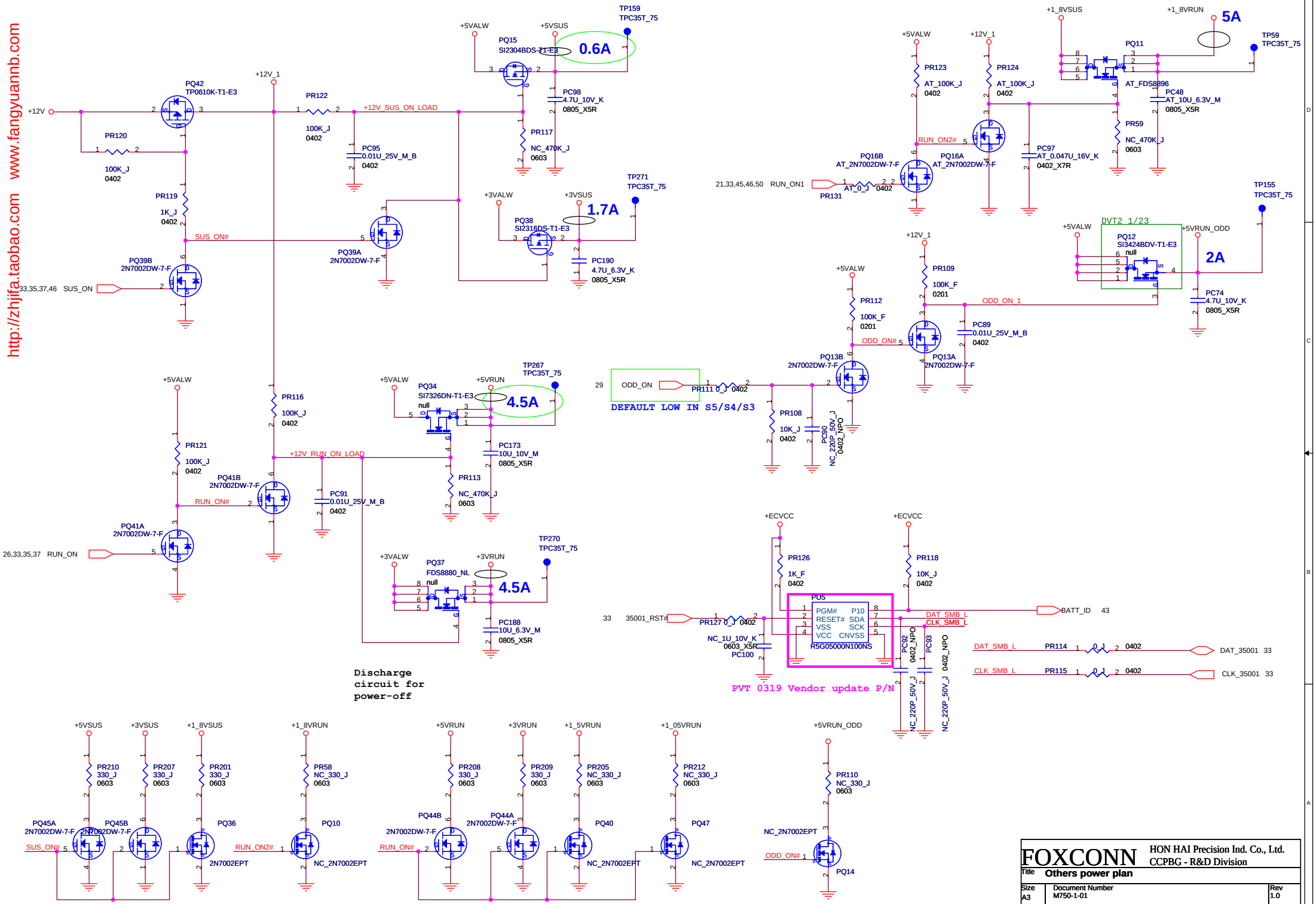
Rfset[kohm]=(P[us]-0.29)*2.33,F=1/P

OCP point > 63.3A

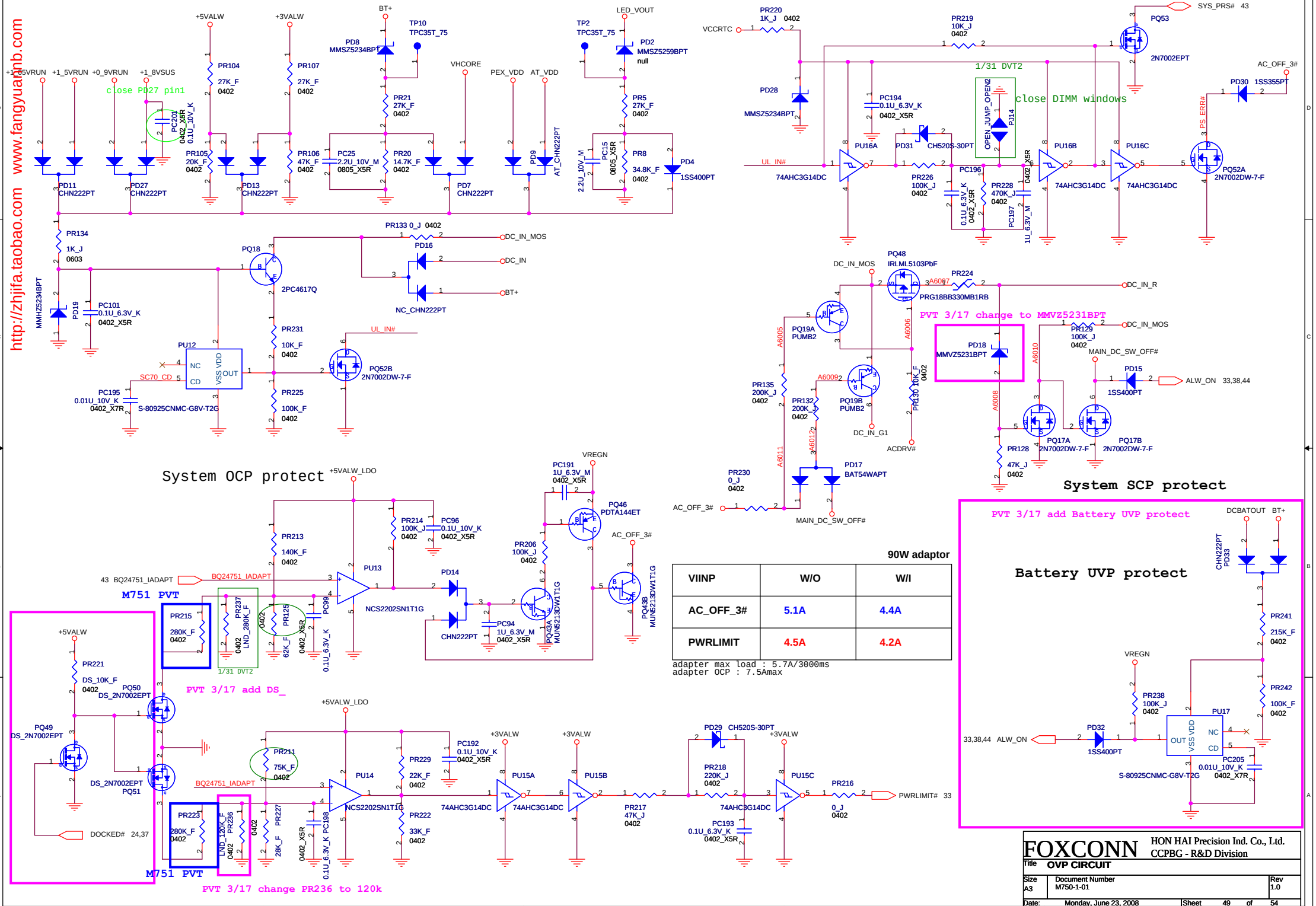
OCP point => Ioc=(Roc*10uA)/Rdroop,Rdroop=2.1mV

Load line adjust =>PR172(greaten
=> load line deepen)

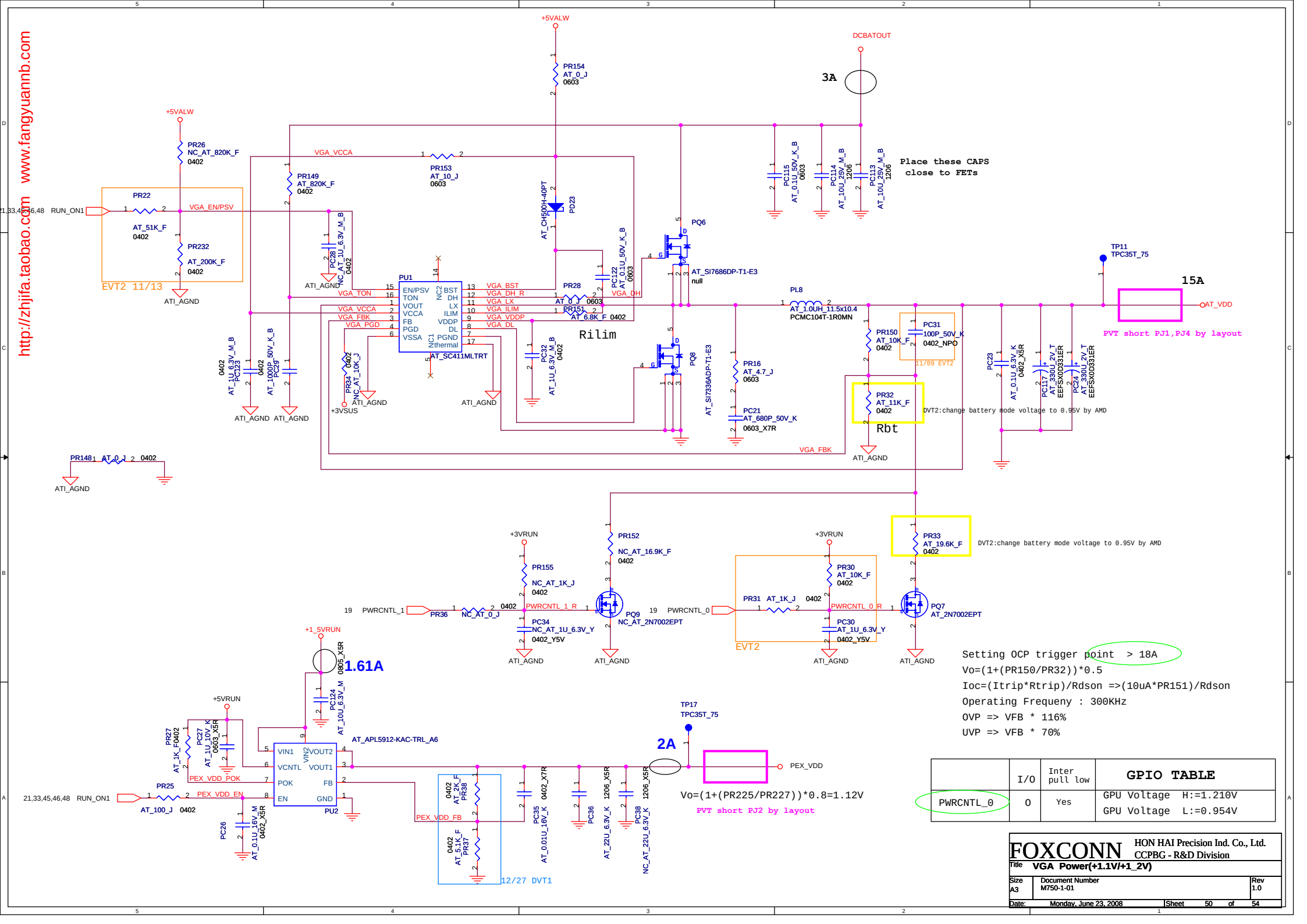
FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division
Title	CPU_Vcore---ISL6262A
Size A3	Document Number M750-1-01 — Rev 1.0
Date: Monday, June 23, 2008	Sheet 47 of 54



FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	Others power plan	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Monday, June 23, 2008	Sheet 48 of 54	

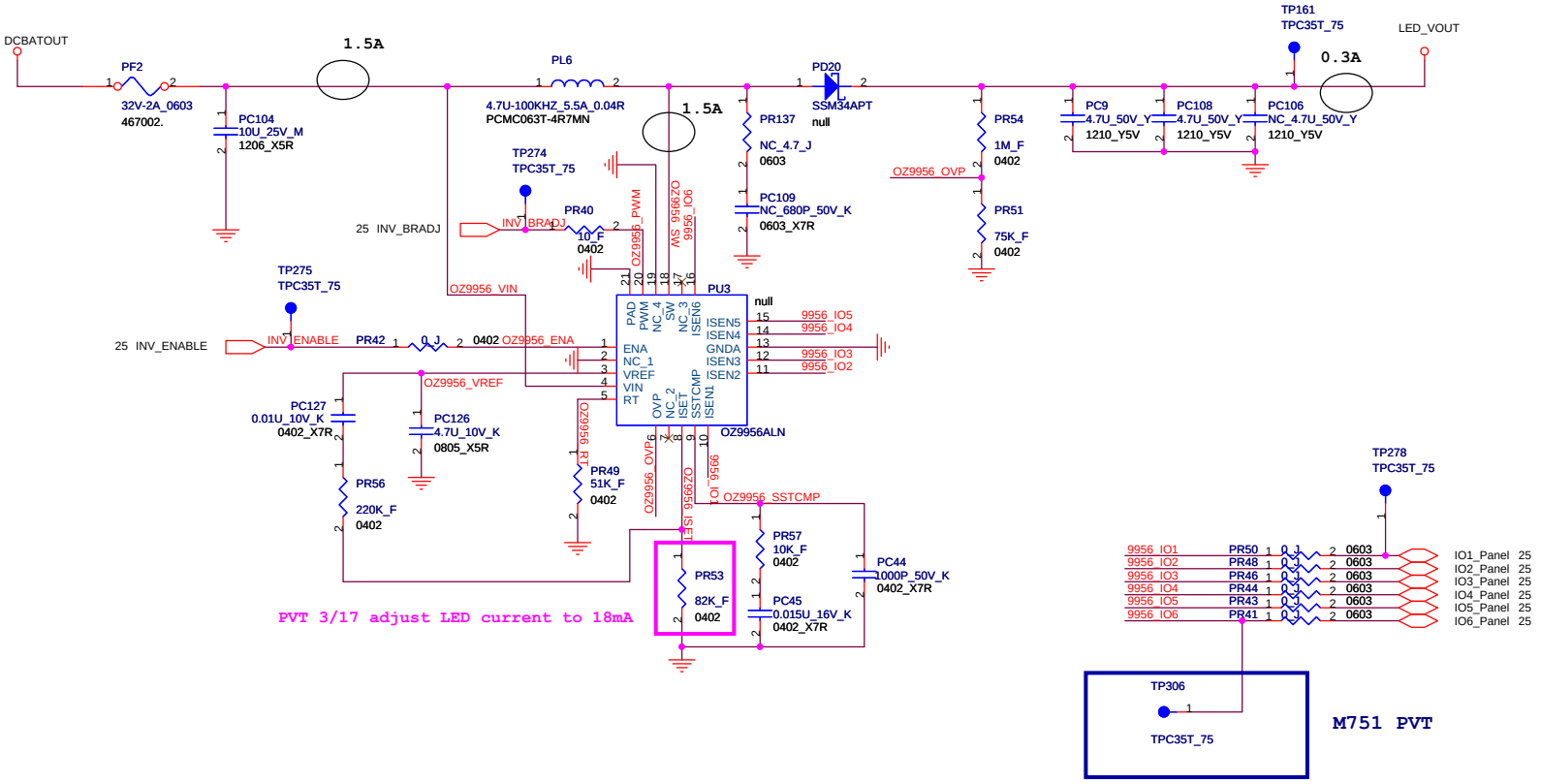


FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	OVP CIRCUIT	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Monday, June 23, 2008	Sheet 49 of 54	

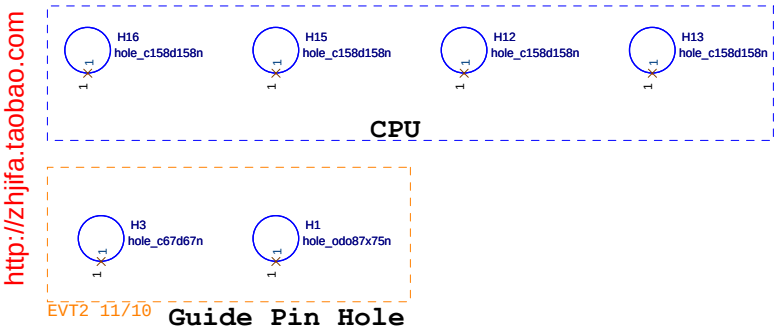


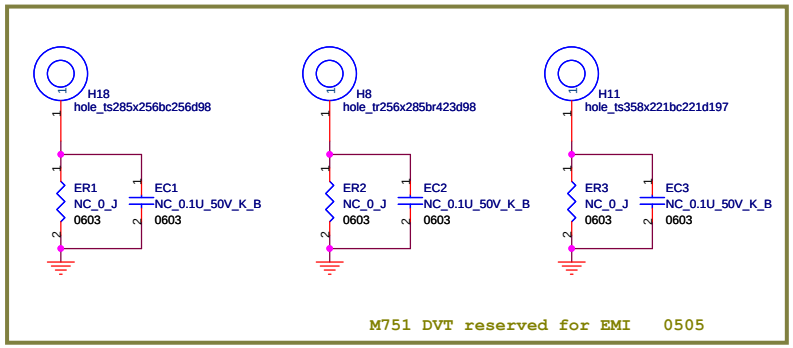
	I/O	Inter pull low	GPIO TABLE
PWRCNTL_0	O	Yes	GPU Voltage H:=1.210V GPU Voltage L:=0.954V

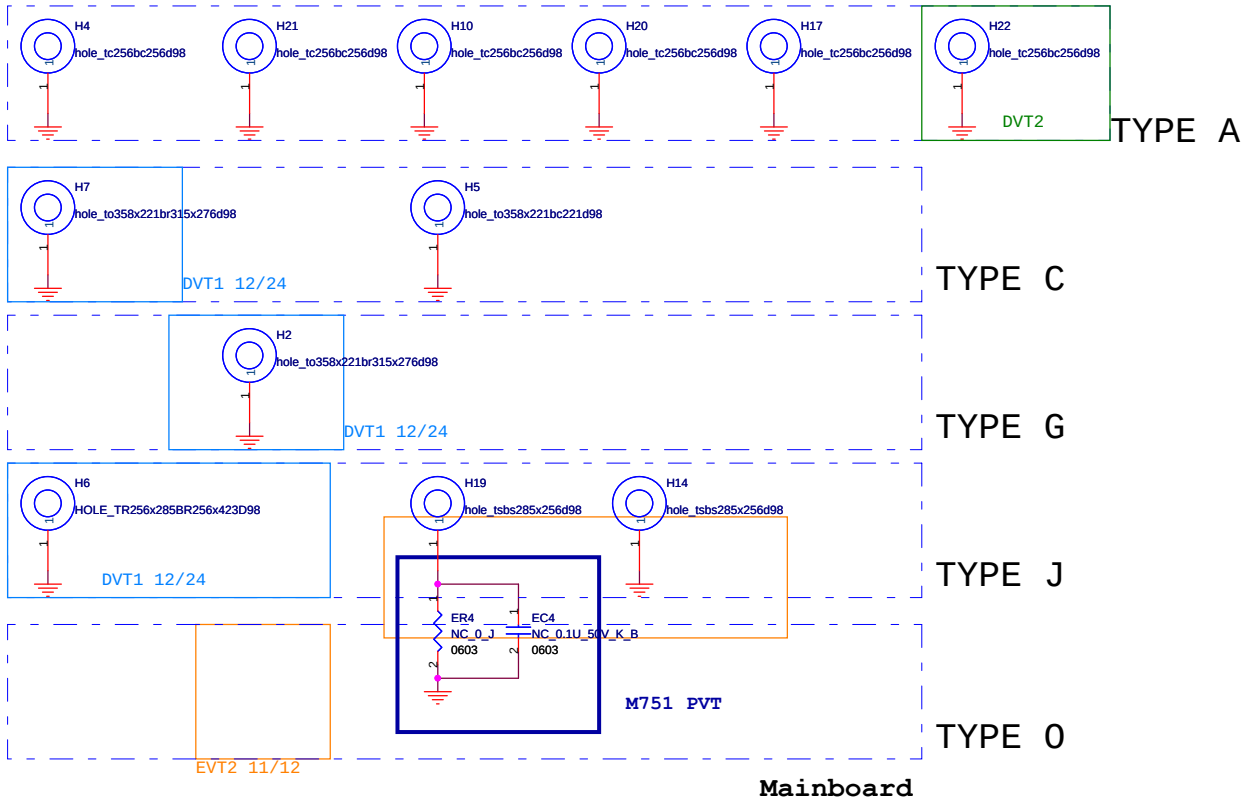
FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	VGA Power(+1.1V/+1_2V)	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Monday, June 23, 2008	Sheet 50 of 54	



FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	LED Backlight Power	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Thursday, June 26, 2008	Sheet 51 of 54	







FOXCONN	HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title	HOLE	
Size A3	Document Number M750-1-01	Rev 1.0
Date: Wednesday, June 25, 2008	Sheet 52 of 54	

10/12
Change color of MS/SD/HDD LED.
Mount R419, R414, R420, R421.
10/13
SYSTEM_ID, MODEL_ID definition update.
10/20
CPU 22uF CAP N.C. parts location change.
N.C. R101 For EVT2 (Use +5V type camera module)
10/24
Move PCI Express pair of LAN from port5 to port1.
10/29
Change PR9 to 422K.
Add PL15 and PL7 co-lay.
Modify charge current setting table.
Mount PR83.
PL11 change to 1uH.
Add TP276 test point.
Add PC201 0.1uF and close to PD27 pin1.
Change PL6 to 4.7uH and add TP274,TP275 test points.
10/30
Refer to PUR sugguestoin to change component source.
Add NC_PR232
Change PR30 to 10K and PR31 to 1K.
Mount PC30
Add TP278 test point.
10/31
Refer to PUR sugguestoin to change component source.
Swap LVDS group of ATI M82.
11/02
Change "#" to net "EN_EXT_DEV_SENSE" for low active.
Modify MB Semi-PNP circuit.
11/03
Inverse HDMI pairs polarity(DVI pairs inversed on docking side).
11/04
Change USB board connector.
Combine MS/SD LED to one(MEDIA_LED).
11/05
N.C. R377, Mount F3.
Change INUSE_LED to GPIO72.
Change MS slot to YAMAICHI JCS010-2300-0.
11/06
Change part of CN16/CN26.(Height Change)
Change netname of "SD_WP#" to "SD_WP".
Change PR143 to 200Kohm.
Update charge current setting table.
Reserve BATT_WOL_EN for LAN wake up enable/disable in battery mode.
11/07
C453, C452, C451,C426, C425, C424 change size to 0402.
Mount PR158, PC125 and PR185, PC148 and PR199, PC177 and PR16, PC21.
N.C. PR36.
Change C188 from 0.1uF to 0.47uF.
11/08
Swap USB_PP8/PN8 for ease of routing.
Change button board connector to WBF31326-F04TR.
Change MS/SD LED to side view, yellow color.
Change U7 from CM2009 to CM2006.
Update VCC_DDC power isolation circuit.
Add R565,C658 for SRTCRST#.
11/09
Change PC31 from 22p to 100p.
Reserve R566 for removal of Ext. SPI Conn on DVT.
Reverse Button Brd CN pin assignment.
Add EMI Cap C659~C666 on +1_8VSUS.
11/10
Delete guide pin hole H9, H22.
N.C. F3, mount F1. (Use +3VSUS for camera power on EVT2).
11/11
Change pin assignment of Express CN.

11/12
Change PTH hole size. (H11)
Add TP283,TP284.
Change net name "ISL_VSSSENSE_" to "ISL_VSSSENSE".
11/13
Add TP285~290 for SI probe point.
Change type of H14,H19.
Change PR22=51K, PR232=200k.
11/14
Tune crystal accuracy, change C390/C389/C416/C412 to 22PF,C648/C649 to 18PF.
Change PR6=360K.(Charge Current Control)
Co-Lay PR233, PQ54, PQ55, PL16.
Change RP34 to 2.2K for SI.
N.C. R415, mount L47 on H model.
11/19
N.C. R559 (Double pull up on BT_PRS#)
11/23
Change camera power to +5VSUS.
DVT1 12/01
Swap DVI bus polarity.
Route RUN_ON to docking station CN.
Add logic gate(U37) to prevent panel flash when boot up.
Add R567, bypass brightness control signal.
Use +3V_DELAY(Q4) to prevent M82 high pulse on LCD control signals.
12/07
Change DC-IN CN(PCN1, With Reinforcement Pin).
Add TPM Nut (BOSS1).
Change Button Board CN (CN3) to 15 pin.
Add R570 for power consumption measurement.
12/12
Change U6 from Quad to Dual XOR gate.
Change EMI Caps C424~C426, C451~453 to 10pF.
Change color of LED2(Charge LED) to Amber.
Change U16 from MR-sensor to Hall-sensor. (N.C. R263)
12/13
Change damping resistors of keyboard matrix to 120ohm ferrite bead.(For EMI)
12/17
Change C451,C452,C453,C424,C425,C451 to 22pF. (For EMI)
Add one more +3VSUS (CN26) for WLAN module to cover 1500mA(peak)/1100mA(normal) requirement.
12/18
Add one more LCDVCC pin (CN1) for panel to improve voltage drop.
Add optional resistors(R571,R572) for gamma control.
Reduce LED_VOUT from 6 pins to 2 pins.
12/20
Change net "BL_OFF" to "BL_OFF#".
Add R573-577 to improve MS signal overshoot/undershoot.
Mount C642-644.
Change F3 to 0.25A.
12/21
Change Net "HDD_LED#" to "HDD_ODD_LED#"
12/23
Change C412/C416 from 22pF to 10pF.
Change C648,C649 from 18pF to 15pF.
Mount U26(VGA Thermal Sensor) on H model only.
Add 75 ohm bead, 10pF capacitor on HDA_MDC_BITCLK/HDA_CODEC_BITCLK for EMI.
12/24
Update H2/H6/H7/H8 footprint.
Delete R563, R564 (CRT_GND).
Change D17, D18 to SSM22 to reduce voltage drop.
Change pull up voltage of R360/R361 to +3VRUN. (Only Strap/GPIO pin connected to +3V_DELAY)
N.C. C403 (Not necessary for ESD)
12/26
Delete ODD_DP# connection to ICH9M.

12/27
Add PC204 for noise filtering.
Add R578 for protection.
Change U27 from RClamp0514 to RClamp0524.
N.C. SW1, R134,R141
Change PR38 to 2K, PR37 to 5.1K.
12/28
N.C. U4 shunt regulator to reduce S4 consumption.
Mount R131, N.C. R129.
Reserve LDO (U38) for 1.5V type VCCSUSHDA.
Add R579,R580 to avoid floating on input pin.
1/2
N.C. C451~453, C424~426.
N.C. PC204.
Add prefix AT_ on R322, R51.
Change damping resistor value of MS card.
(R573~577 from 33 to 68 ohm)
(R506~510 from 33 to 0 ohm)
Change L30~32 to 27nH inductor.
Change C258,260,262 to 2.2pF.
Change revision of clock generator(U29) to Rev.B
1/5
Change D2/D3 to low capacitance type.
Fine tune delay timiing. Change R19/R565 to 13K.
1/8
Update power design spec.
VCore: 47A, +3VSUS: 1.7A.
DVT2
1/15
Update power budget of VCCHDA,VCCSUSHDA,VCCDMI,VCC1_5_A
Add GND pin on C130.2
1/18
Add BT_LED on CN4.6
Update WIRELESS LED circuit. Page41.
1/21
Add screw hole H22.
Add D23, D24 for leakage issue when EC initialization.
Add R460 for Non-Dock Sku.
1/23
PQ12 change to SI3424BDV-T1-E3.
PR125 change to 62Kohm
PR215 change to 205Kohm
PR211 change to 75Kohm
PR223 change to 154Kohm
Add PR237 ND_280Kohm , PR236 ND_154Kohm for Non-Dock sku.
Add pull down resistor (R581) on BT_LED.
1/25
Mount L23, N.C. R108, R109 for EMI.
Change L86 from 75R to 10R for SI.
For Docking sku, add prefix DS_ on value of C257,C259,C261,CN16 D1,PQ2,PQ4,PR11,PR24,PR29,Q1,Q20,Q21,R6,R9,R10,R165,R167,R416 R444,R578,U8,U9,U10.
1/26
Change R176 from 54.9 to 649 Ohm.
Del L48, Add R582. R583 (N.C.)
Change C413 from 0.1uf to 1uF.
Change CN5 from Gold plated to TIN plated.
1/28
Mount R555, R556, R557.
Add +1_5V_PCIE_OUT on CN25.6 to reduce voltage drop.
Change CN3 from WBF31526-F04TR to GB5RF151-1093-7F.
(Vender naming rule change, same part.
layout footprint pin reversed)
1/29
Add R584, R585, Q27 to solve DDC capacitance issue.
Add R586 for identification of Dock support.
1/30
Change L86 back to 75R, change L85 from 75R to 10R.
Mount CN13 for software debug on DVT2.
N.C. R572.
Move R321 to U37B.6
1/31
Move PJ14 to PR226.2
Change R176 back to 54.9 ohm.
Add prefix LND on PR236,PR237 for Non-Dock skue for LOW model.
Add PAD1 for EMI Grounding.

0218
M750

change U30 from NC7S32M5X(14-NC7S32M-5X00) to MC74HC1G32DTT1G(14-MC74HC1-G300)
change D2,D3 from BAS316(16-BAS3160-0000) to BAS316PT(16-BAS316P-T000) for common parts
chage D6,D7,D9,D11,D12,D14,D23,D24 from 16-SCS500V-4000 to CH500H-40PT(16-CH500H4-0P00) for common parts
change Q1.Q5,Q17,Q21,Q22 from 17-2N7002P-T000 to ME2N7002E(17-ME2N700-2E00) for common parts
change Q23 from 17-MMBT390-4001 to PMBT3904.215(17-PMBT390-4200) for commonn parts
change C303,PC156 from 0.01U_6.3V_K(1C-2B20103-K100) to 0.01U_10V_K(1C-2B20103-K200) for commonn parts
change L23,L28,L40,L41,L42 from 90R-100MHZ_0R35(1L-FDLW31S-N900) to 90R-100M_1206(1L-FWCM321-6F00) for commonn parts

change C19,C17 from Y5V to X5R tolerence
change PR32 to 11K, PR33 to 19.6k to set the battery mode voltage to 0.95V by AMD for battery mode dual display

0318 PVT

NC C656 for WLAN_LED light when power on because of RC delay
update battery identify IC(PU5) P/N to R5G05000N100NS by vendor
update U7 symbol to CM2006-02QR
modify R345 value to HD_ for BOM change of disable HDaudio in 128MB SKU
remove PJ11,PJ12,PJ3,PJ8,PJ10,PJ9,PJ13,PJ5 and short by layout
correct U36 vendor P/N to WPCE775LA0DG
change U32 to W25X16AVSSIG by vendor suggestion
add PQ56,PC206,PR246 for charger ocp improve by M760 battery OCP issue
modify P43 charge current table ,middle current change from 1A to 0.8A
add PR244 and PR245(dummy directly) for intersil ISL6266A found C4 hang at the other company
change PD18 to MMVZ5231BPT for SCP circuit
add UVP circuit (PU17,PR238,PD32,PC205,PR242,PR241,PD33)
change PR236 to 120Kohm for power limit point improved
change PQ50,PQ51,PQ49,PR221 value title to DS_
change PR53 to 82Kohm for LED backlight current modify
add R587,Q28,Q29 for improve HDMI voltage drop

0326
Short PJ1,PJ2,PJ4 by layout
add C669 for reduce fan power source ripple
add L87,L88 for EMI
add U39,C670 for MS/SD abnormal behavior

0327
change PU9 to AT5208 because of G909 big inrush current

0328
NC R389,R393,Y3,C436,C437,C241,C242,L29,U5,R152 for use AMD internal SS
add R589,C672 for MS/SD led abnormal when power on

NC R389,R393,Y3,C436,C437,C241,C242,L29,U5,R152 for use AMD internal SS
add R589,C672 for MS/SD led abnormal when power on
reserve R588 for reduce G-sensor power ripple

0402
add F5~F11 for power short

0403
change PR241 from 232K to 215K for UVP circuit improve

0408
NC R348,R356,R357 for using AMD internal SS
change R378 value to HD_ for HDMI disable

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M751 DVT

0505
Reserve EC1,EC2,EC3, ER1,ER2,ER3 for Hynix 1GB EMI
change HDD sata CN20 pin define to increase the impedance for SATA SI

0506
reserve PR247 for colay with MAX17020
Update U29 footprint for Japan/Mitsui package
change L85 to 60ohm for EMI
NC C5 for EMI

0508
add Q30 for MS/SD LED cost down

M751 PVT

0618
Page 24:Change L30,L31,L32 to 33ohm and change C258,C260,C262 to 15PF for SI issue
Page 25:chang C405 C407 to 1C-2B30475-K100 for PUR request
Page 33:NC R561,Mount R560 ,keep system ID the same as M750
Page 36:NC F1 ,mount F3,for 5v Camera moudle
Page 38:Change R80 to 4.7k from 10k , for FAN speed issue
Page 40 :NC Q30 ,Mount U39 Q13 C672 C670 R589 for mor Request
Page 47:NC PR244 ,Vendor suggestion and it is related with DC4
Page 45,49:1.PR14 change to 62Kohm , co-lay PR248 LND_86.6Kohm with PR7.
2.PR215 205Kohm change to 280Kohm
3.PR223 154Kohm change to 280Kohm
Page 24: change D17 to 16-SSM24AP-T000' for leakage issue
Page 7;Change C254,C252 rating to 6.3v for cost down
Page 35:del R301,R302,R303,R304,R305,R306,L40,L41,L42 for cost down
Page36:del R147 R150 L28 for cost down
Page 39:del R261 for cost down,change U14 version
Page 33:Change CN6 to 1N-0024000-F1T0 for pur request
Page 52:add ER4 EC4 for EMI Issue

0625

Page 48:.PC121 change from 0.1uF/25V to 0.1uF/50V(1C-2B30104-K000)
Page 52 : change ER4 EC4 to 0603 for EMI request
Page 40:modify the U33 P/N to 15-BD2056A-FJ00 for CE update component library
Page 33:resume CN6 main source 1N-0024000-M1T0,for 2nd source layout issue
Page 24:change D17 to 16-SSM24PT-0000 For design change
Page 51:add one test point in PR41 pin1.

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