

Block Diagram

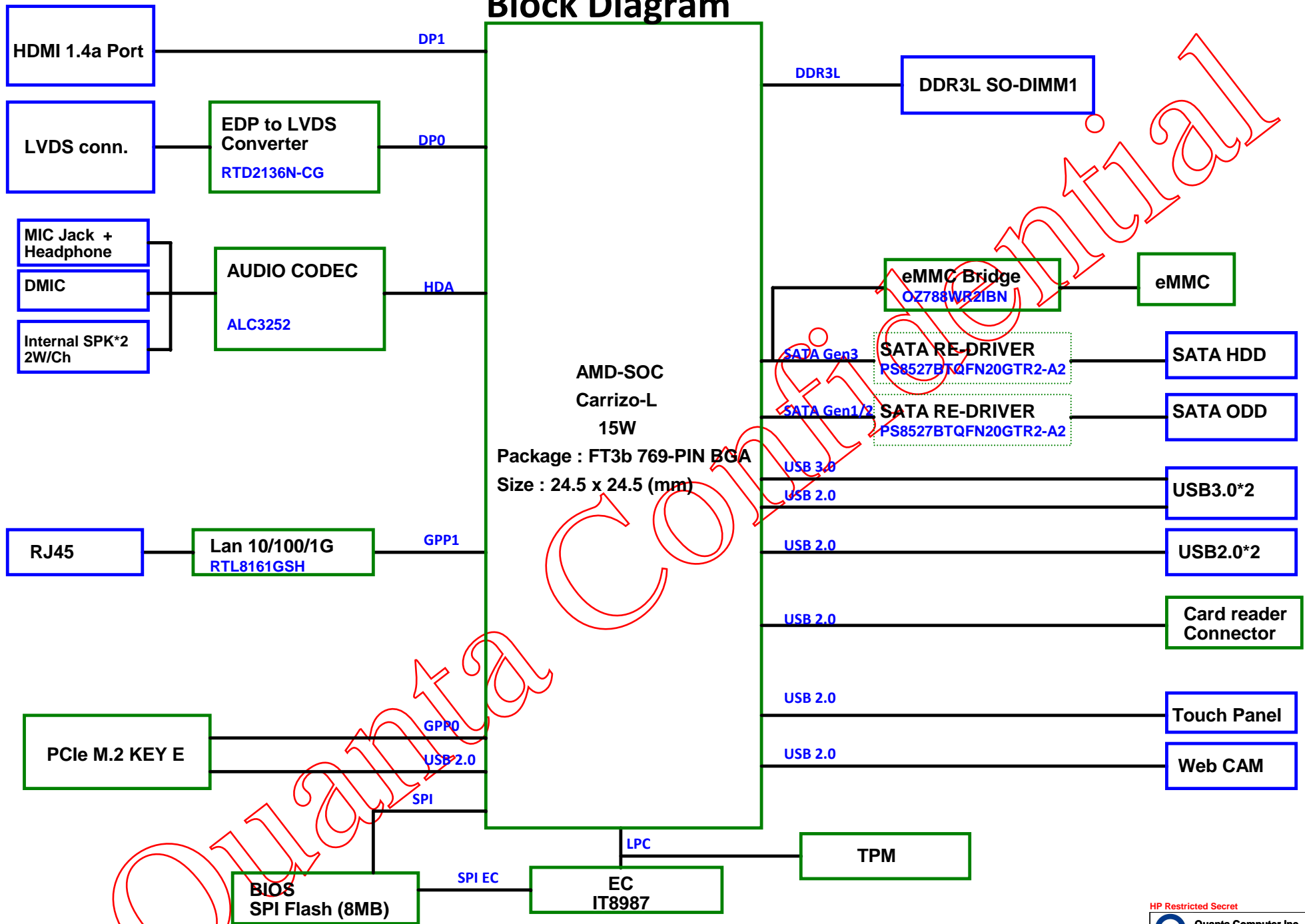


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POWER PLANE	VOLTAGE	CONTROL SIGNAL	Power States ACTIVE IN
+VIN	+19V		Always
+1.5V_RTC	+1.5V		Always
+3V	+3.3V	MAIN_ON1	S0
+3V_S5	+3.3V	S5_ON	S0-S5
+3V_ALW	+3.3V	AC/DC Insert enable	Always (LDO)
+5V	+5V	MAIN_ON1	S0
+5V_S5	+5V	S5_ON	S0-S5
+5V_ALW	+5V	AC/DC Insert enable	Always (LDO)
+3V_WLAN_P	+3.3V	WLAN_ON	S0-S5
+3V_LAN	+3.3V	LAN_PWR_ON	S0-S5
+VDDQ	+1.35V	S3_ON	S0-S3
+1.8V_S5	+1.8V	S5_ON	S0-S5
+1.8V	+1.8V	MAIN_ON2	S0
+1.5V_S5	+1.5V	S5_ON	S0-S5
+VDDP_S5	+0.95V	S5_ON	S0-S5
+VDDP	+0.95V	S0_ON1_D	S0
CPU_CORE	~	VRON	S0
NB_CORE	~	VRON	S0
+12V	+12V	MAIN_ON1	S0
+0.65V_DDR_VTT	+0.65V	S3_ON	S3
+1V	+1V	MAIN_ON2	S0
+1.5V	+1.5V	+1.5V_S0_3	S0

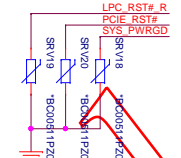
Schematic "Value" Definition

Pavilion AMD Platform Bali		DB/SI/PV Stage			MP	
By Value format	Description	Auto BOM Control	Bali-HDD	Bali-eMMC	Bali-HDD	Bali-eMMC
XX	Install	V	V	V	V	V
*XX	Non-Install	V				
SATA@XX	Install SATA HDD (include 2.5";3.5"HDD)	V	V		V	
EMMC@XX	Install EMMC	V		V		V
PROTO@XX	Install in pre-production only	V	V	V		
MP@XX	Install in MP only	V			V	V

***Board ID by manual control

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C297
150P/50V/NPO_4

150P/50V/NPO_4 C294

[20,22] LPC_RST# R327 33.4 LPC_RST#_R AY4
PCIE_RST# AY9
RSMRST#_R AY5
RSMRST_L

[20] EC_PWBTN_OUT# EC_PWBTN_OUT# BA8
[8] SYS_PWRGD# A110 PWR_BTN_L PWR_GOOD
[9] SYS_RST# SYS_RST# AW11 SYS_RESET_L/GEVENT19_L
[14,18] PCIE_WAKE# C172 *100P/50V/NPO_4 WAKE_L/GEVENT8_L

[20] SUSB# AY3
[20] SUSC# BA5 SLP_S3_L
SLP_S5_L

TP29 APU_TEST0 AU13
APU_TEST1 AY10
APU_TEST2 AY6

[20] EC_RCIN# AR23
[20] EC_S0GATE AR31 KBIRST_L
[20] EC_SCIN# AN5 GA20IN/GEVENT0_L
[20,22] EC_SMIF# AL7 LPC_PME_L/GEVENT3_L
TP45 GEVENT5# AV2 LPC_SMI_L/GEVENT5_L
LPC_PD_L/GEVENT5_L/SPL_TPM_CS_L

[20] AC_PRESENT_EC R134 *0.4 TP27 ODD_PLUGIN# AP15
TP27 AC_PRESENT# IR_TX/GEVENT21_L
TP25 LLB# BA9 IR_TX1/GEVENT8_L
IR_RX1/GEVENT20_L
IR_LED_L/LLB_L/GPIO184

TP20 PCIE_CLKREQ_CARD# AU29 CLK_REQ0_L/SATA180_L/SATA_ZP0_L
CLKREQ0# GP161
CLKREQ3# AR27 CLK_REQ2_L/GPIO62
CLKREQ0# AV27 CLK_REQ3_L/SATA181_L/SATA_ZP1_L
CLKREQ3# GP165/GS0N

[14] PCIE_CLK_LAN_REQ# TP23
[18] PCIE_CLK_WLAN_REQ# TP26

[9] SMB_RUN_CLK SMB_RUN_CLK AU25 SCL0/CDP14
[6] SMB_RUN_DAT SMB_RUN_DAT AV25 SDA0/GPIO47
TP50 SCL1/GPIO227
TP51 SDA1/GPIO228

LAN_REQ#
WLAN_REQ#

[18] BT_OFF TP58 BT_OFF GPIO49 GPIO49
+3V_O R140 *10K/F 4 BT_COMBO_EN# B28 GPIO50
GPIO51
GPIO52
GPIO55
GPIO56
GPIO58
GPIO59
GPIO64
GPIO66
GPIO68
GPIO69
GPIO70
GPIO71
GPIO174

[13] SPKR TP48 Y40_ON_SB GA_RSTB
TP21 Y40_ON_SB Y40_ON_SB
TP21 Y40_ON_SB Y40_ON_SB

[4] APU_PROCHOT# R106 0.4 TP20 PROCHOT# SWL
[11] TP_DETECT# TP21 TP_DETECT# BA3

[8] GEVENT2# GEVENT4# BA4
GEVENT7# AR15 GEVENT4_L
GEVENT7_L
APK# GEVENT10_L
GEVENT11_L
GEVENT17_L
BLINK/GEVENT18_L
GEVENT22_L

+3V_S0 R341 *10K/F 4 TP45 ODD_DA#_FCH
TP56 GEVENT18_L AU17
B48

EC-PV-18

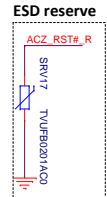
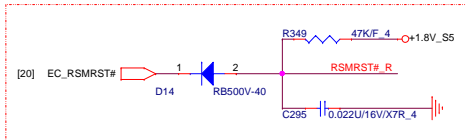
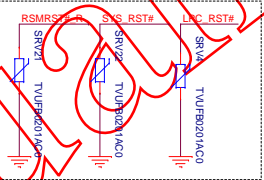
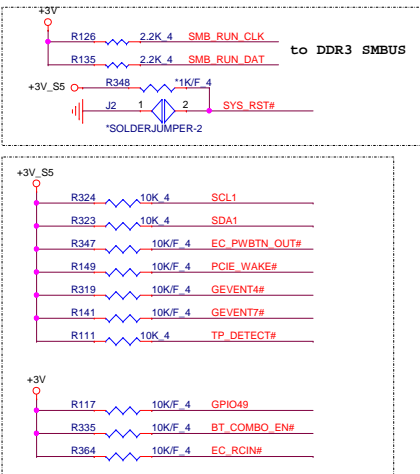
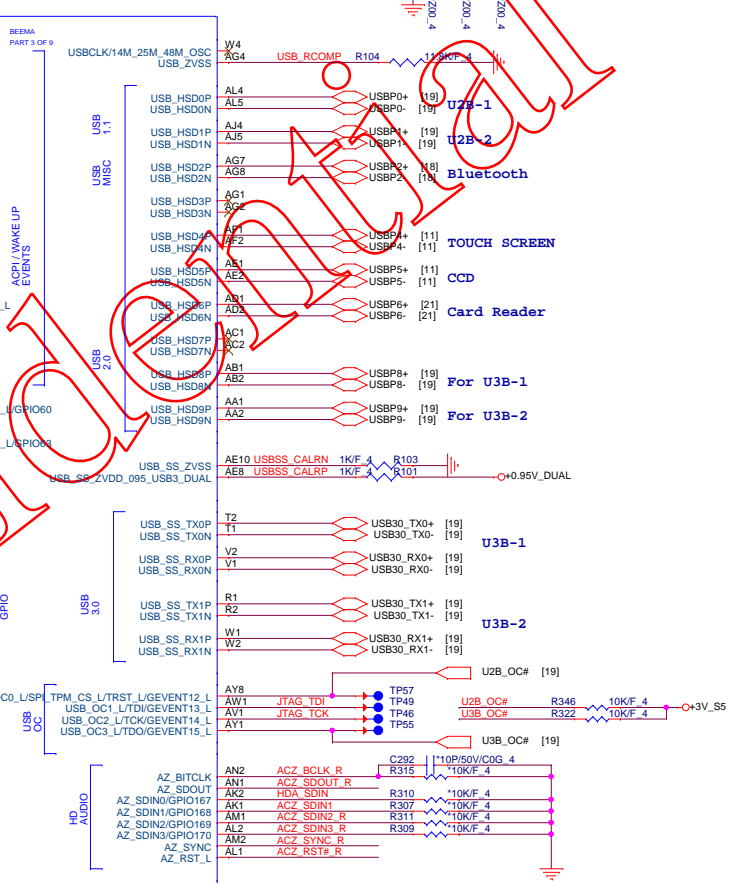
TP28 GPIO32 BA29
TP55 GPIO33 GENINT1_L/GPIO32
GENINT2_L/GPIO33

[18] WLAN_OFF TP22 ODD_PWR AU31
FANOUT0/GPIO56
FANIN0/GPIO56

GPIO

USB_OC#

FT3b Carrizo-L



To Azalia

ACZ_SDOUT_R	R313	33.4	ACZ_SDOUT	[13]
ACZ_SYNC_R	R314	33.4	ACZ_SYNC	[13]
ACZ_BCLK_R	R316	33.4	ACZ_BCLK	[13]
ACZ_RST#_R	R312	33.4	ACZ_RST#	[13]
HDA_SDIN			HDA_SDIN	[13]

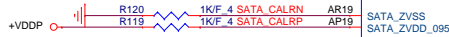
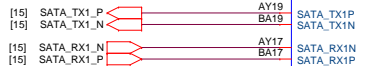
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[4,5,7,9,10,11,12,13,14,15,16,17,20,21,22,29,31]	+3V
[3,7,31,32]	+VDDP





SATA HDD

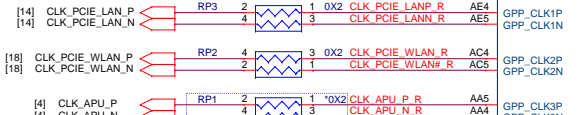


SATA ODD

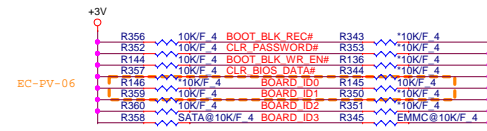
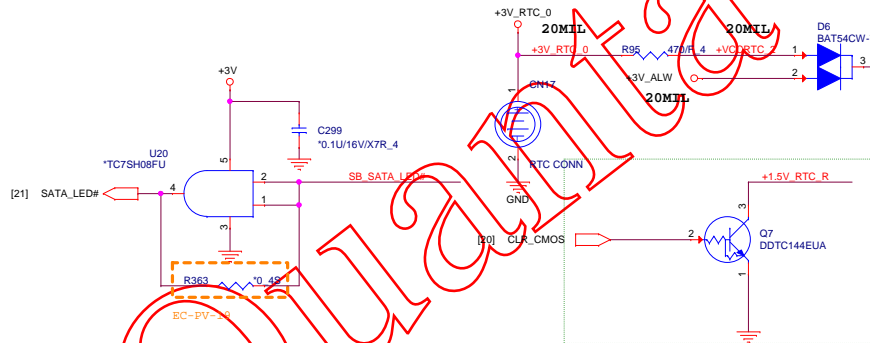
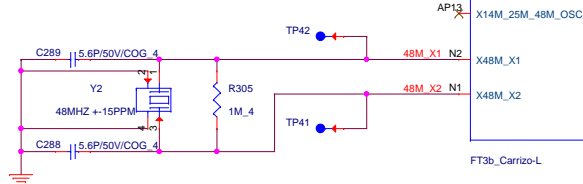


Use with external clock generator only TP47 

Integrated Clock Mode:
Leave unconnected. TP52 



Integrated Clock Mode: Leave unconnected.



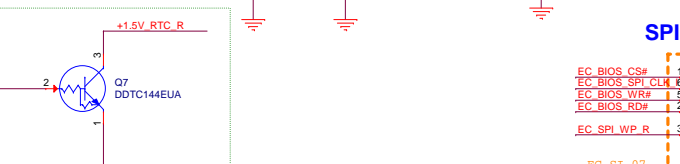
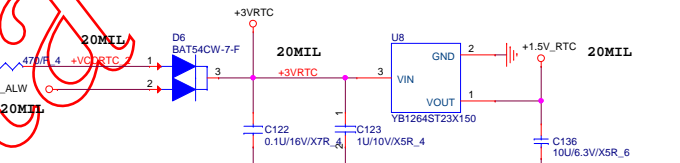
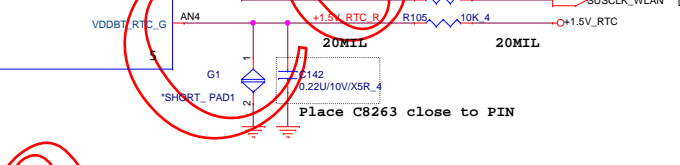
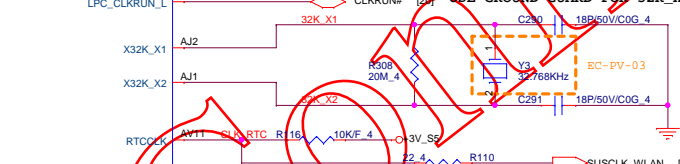
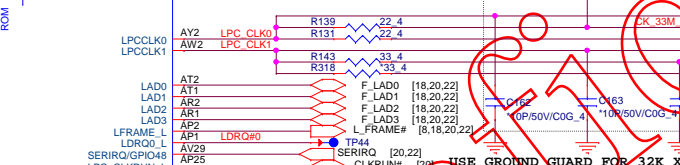
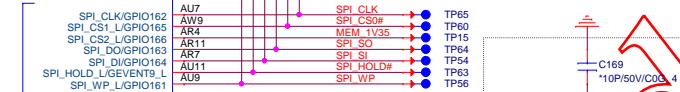
PCA ID	Model
ID2	
1	AMD Carrizo-1 FT3b (15W)
0	

PCA ID	Model
ID3	
1	HDD
0	eMMC

Board REV		Model
ID1	ID0	
0	0	All EVT
0	1	All DVT
1	0	PVT1
1	1	PVT2+
0	0	MVB, A
0	1	1st Major ECN
1	0	2nd Major ECN
1	1	3rd Major ECN

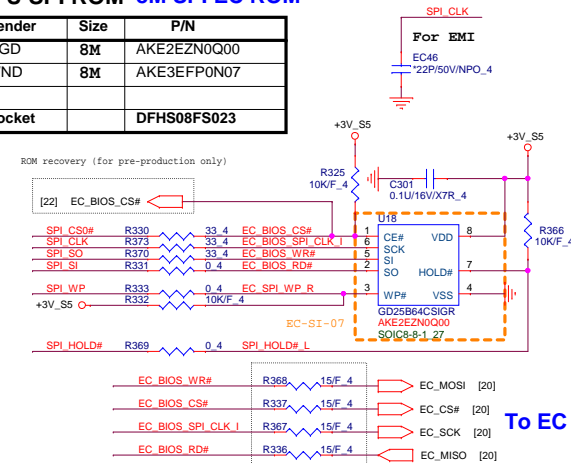
To LPC Header

~~Caps closed to APU~~



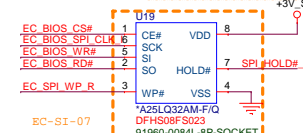
APU SPI ROM 8M SPI EC ROM

Vender	Size	P/N
GGD	8M	AKE2EZN0Q00
WND	8M	AKE3EFP0N07
Socket		DFHS08FS023



To EC

SPI ROM Socket



U19 & U18 footprint 要重疊

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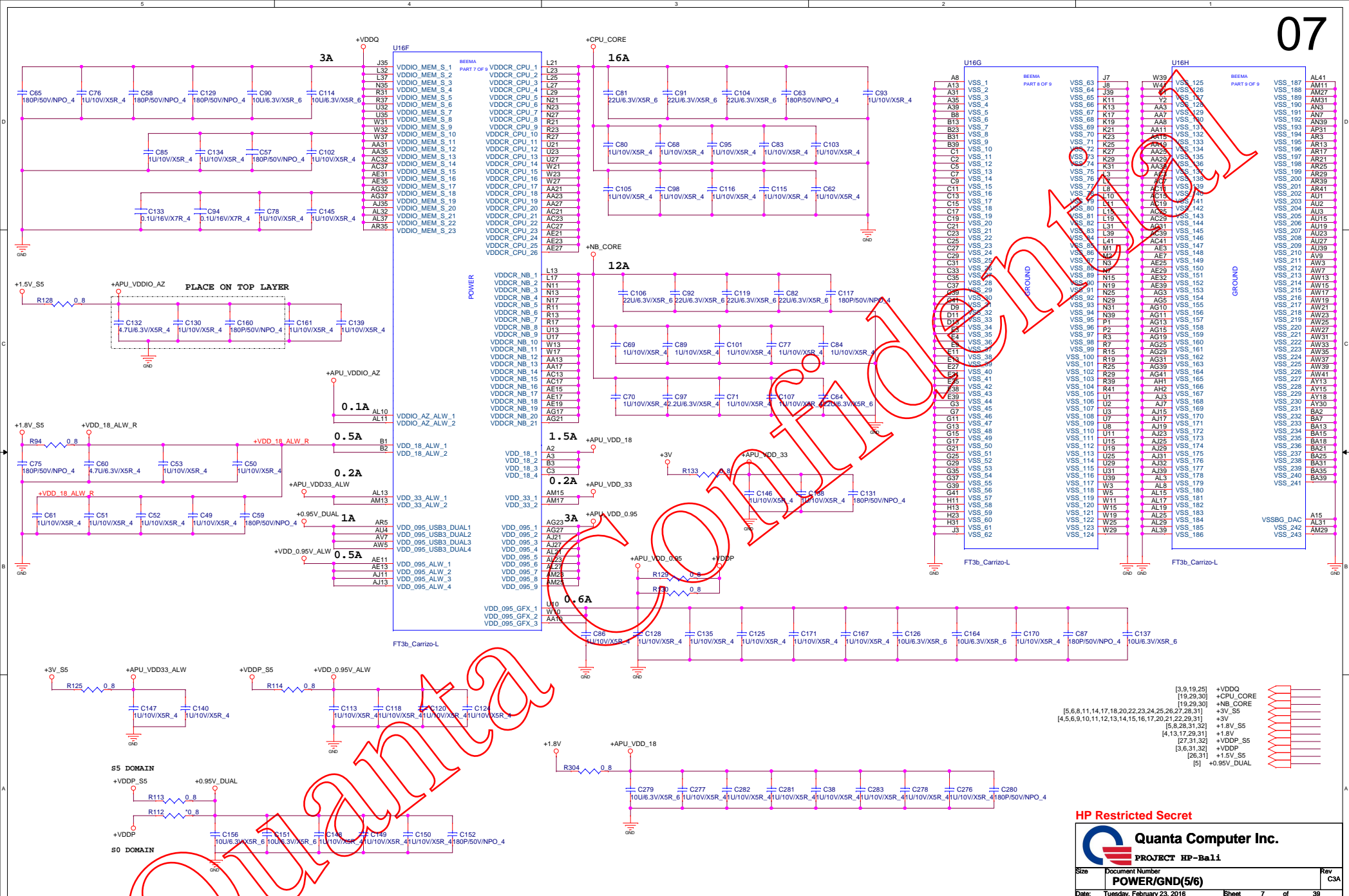


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PROJECT HP-Bali

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	SATA/CLK (4/6)	C3A
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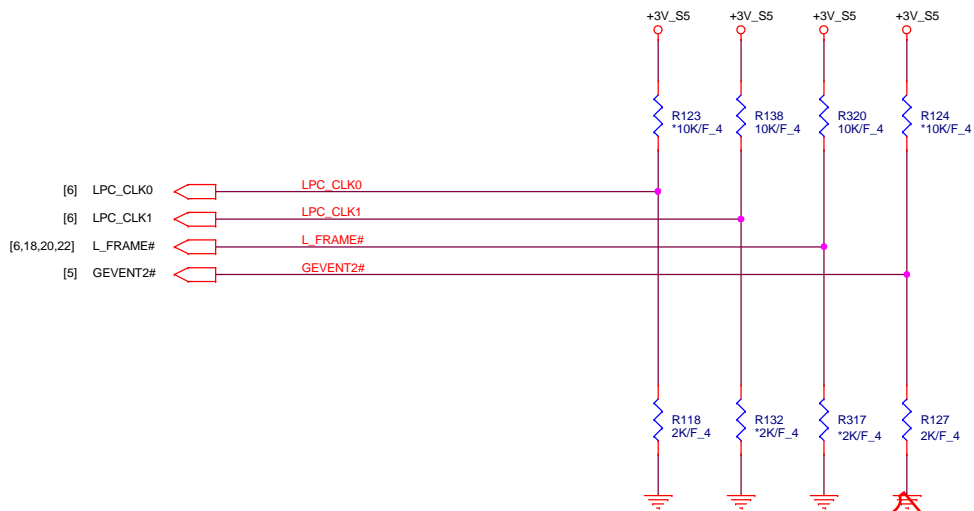
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STRAPS PINS

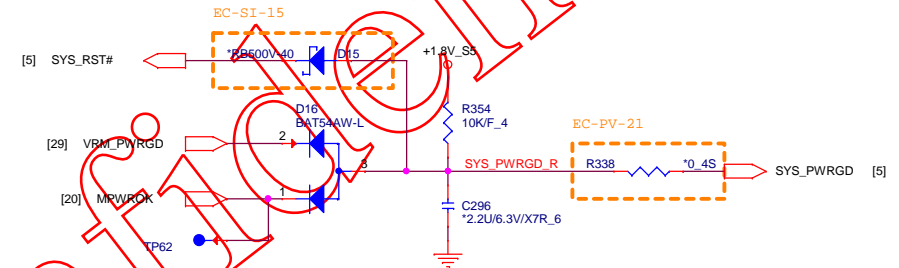
OVERLAP COMMON PADS WHERE
POSSIBLE FOR DUAL-OP RESISTORS.




REQUIRED STRAPS

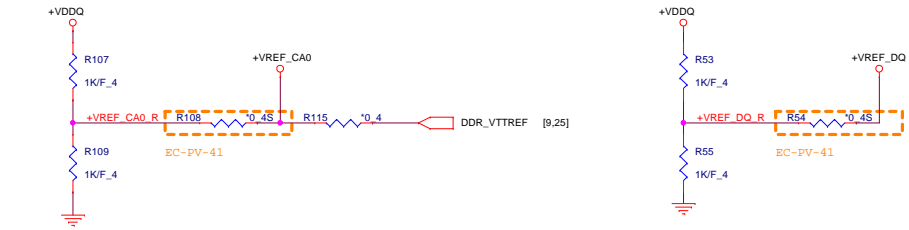
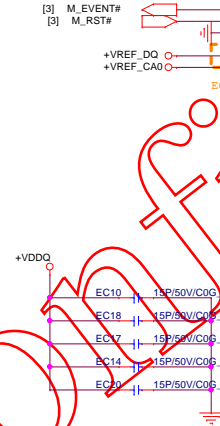
	LPC_CLK0	LPC_CLK1	LFRAME#	GEVENT2#
PULL HIGH	BOOT FAIL TIMER ENABLED	CLKGEN ENABLED DEFAULT	SPI ROM DEFAULT	1.8V SPI ROM
PULL LOW	BOOT FAIL TIMER DISABLED DEFAULT	CLKGEN DISABLED	LPC ROM	3.3V SPI ROM DEFAULT

SYS_PWRGD



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	STRAP (6/6)	C3A
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The schematic diagram illustrates the power plane for the AD9288 ADC. It features a top layer with a 100µm grid and a bottom layer with a 250µm grid. The diagram shows connections for VDDQ, +0.65V_DDR_VTT, +VREF_D00, and +VREF_CA0. Various components like capacitors (C112-C153, C174-C178, C36, C37) and inductors (L101, L102) are shown, along with their values and tolerances. A red arrow points to a specific area on the right side of the board.

EC9	15P/50V/C0G	4
EC7	15P/50V/C0G	4
EC12	15P/50V/C0G	4
EC26	15P/50V/C0G	4
EC24	15P/50V/C0G	4
EC23	15P/50V/C0G	4
EC25	15P/50V/C0G	4
EC6	15P/50V/C0G	4
C79	22U/10V/X5	8
C144	22U/10V/X5	8

◆ CLOSE TO Connector

+0.65V_DDR_VTT

EC29 68P/50V/C0G

EC30 *120P/50V/NP

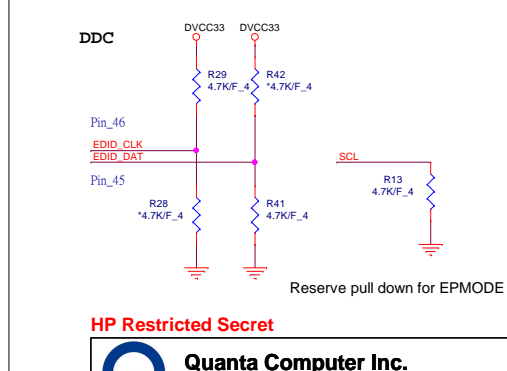
C173 22U/10V/X5_8

C176 22U/10V/X5_8

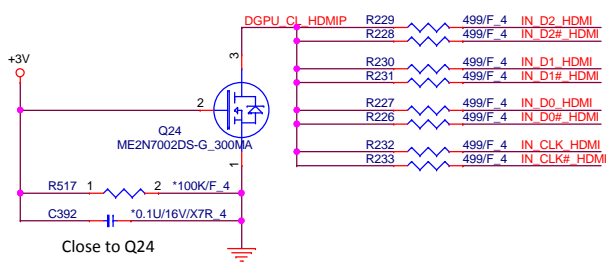
CLOSE TO Connector

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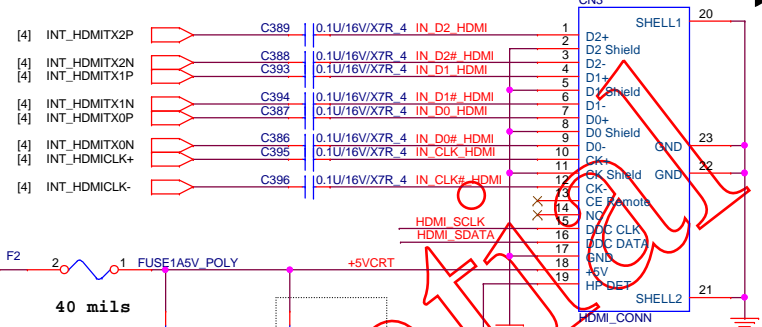
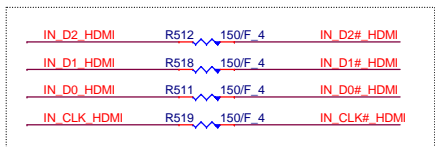
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HDMI CONN

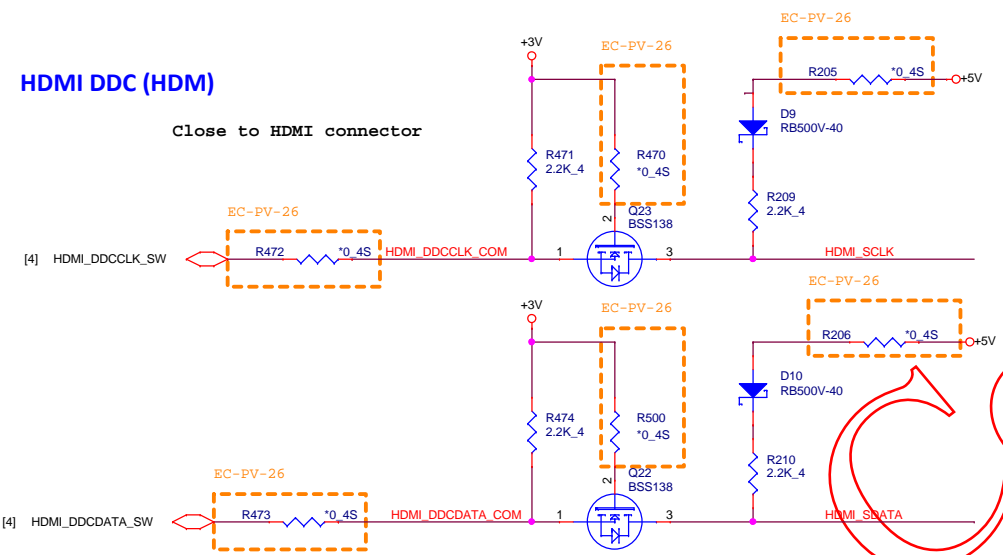


For EMI



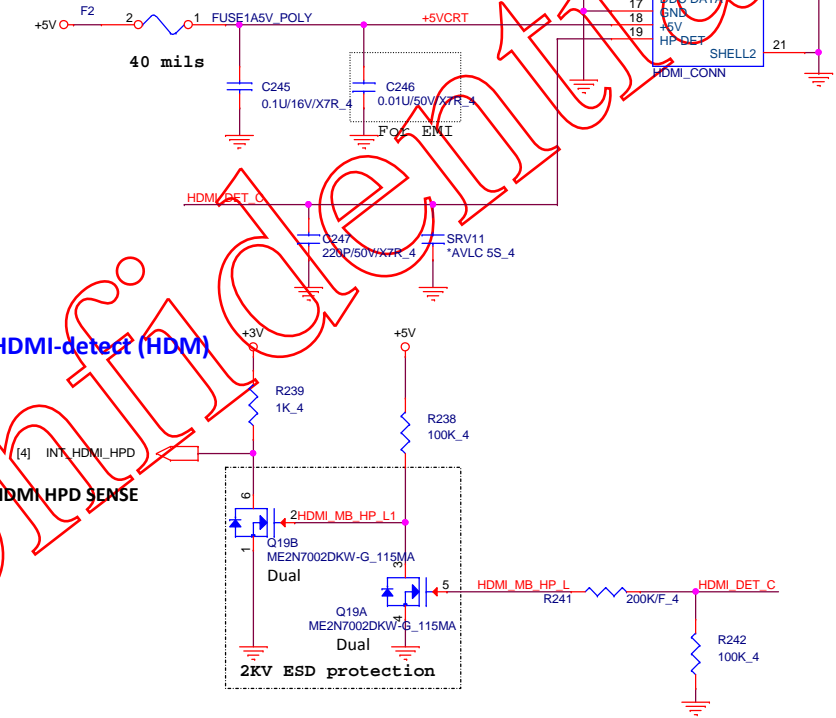
HDMI DDC (HDM)

Close to HDMI connector



HDMI-detect (HDM)

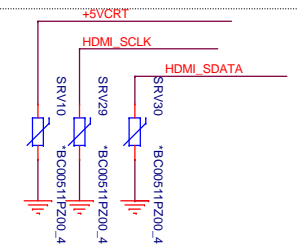
HDMI HPD SENSE



For ESD



Layout note: Place close to HDMI Conn



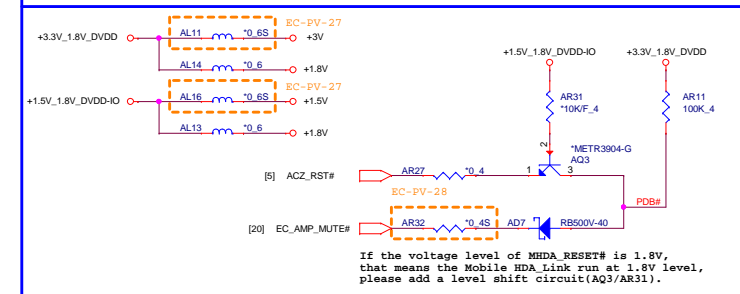
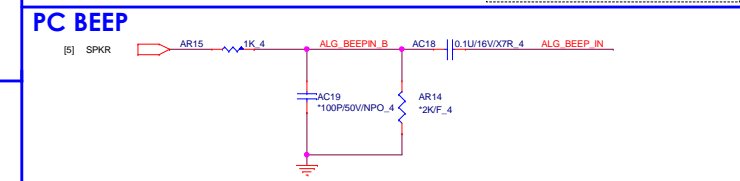
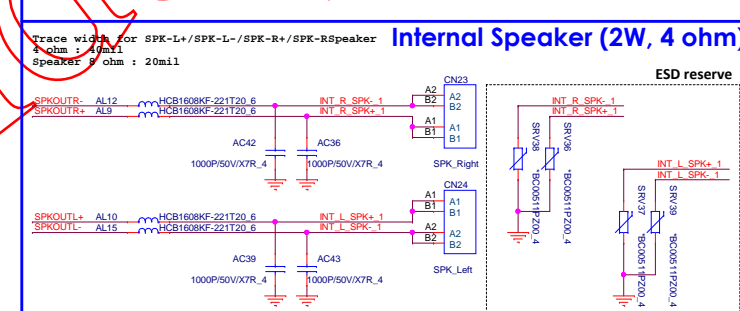
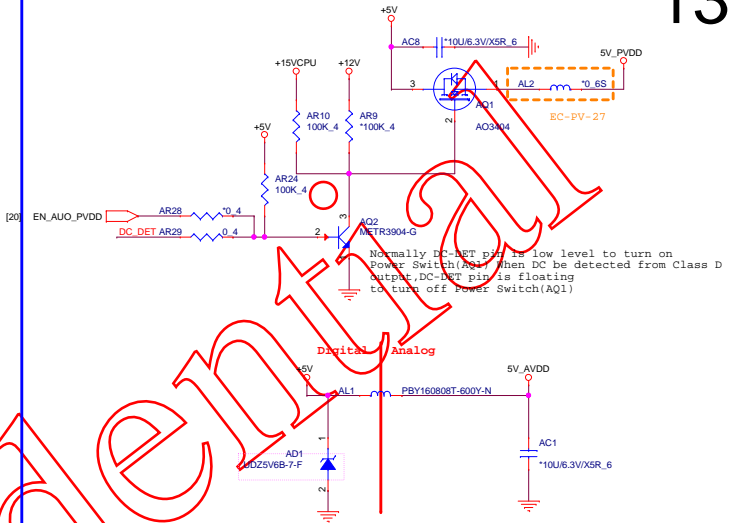
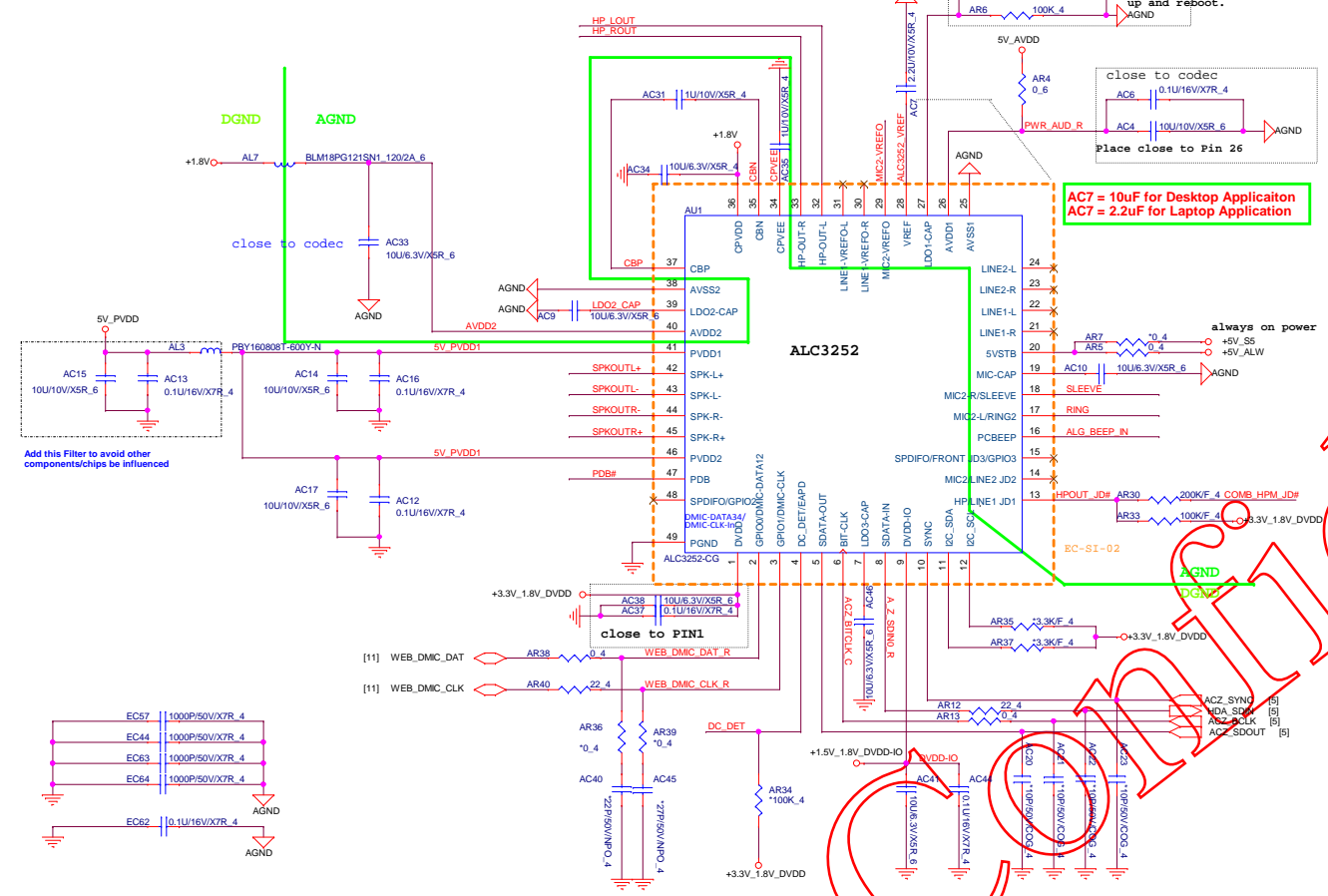
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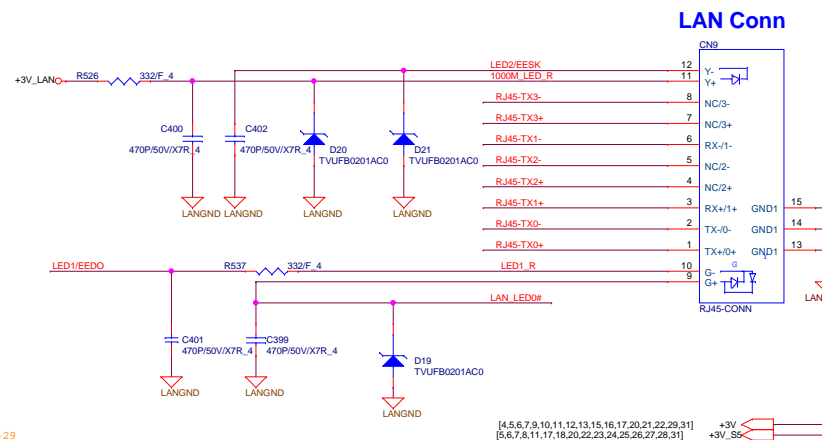
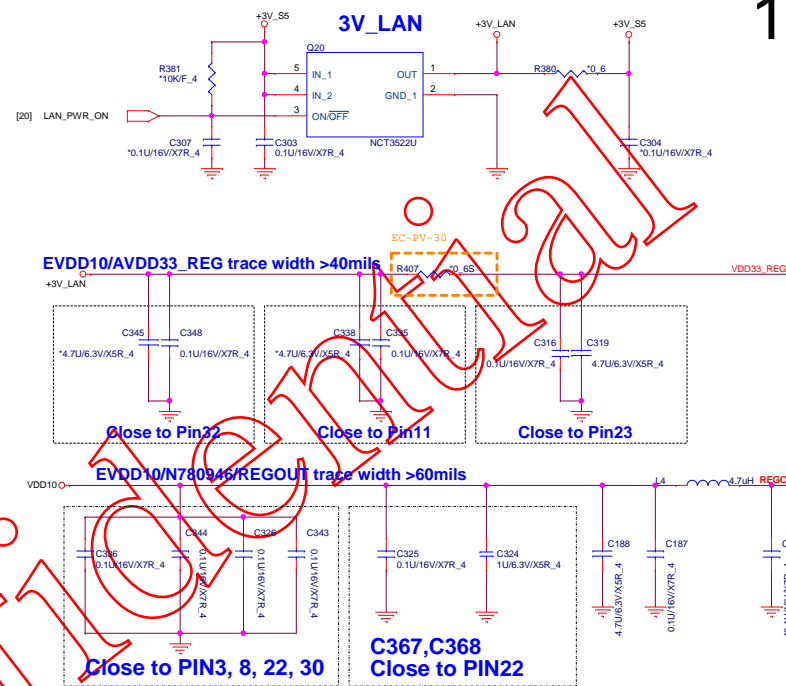


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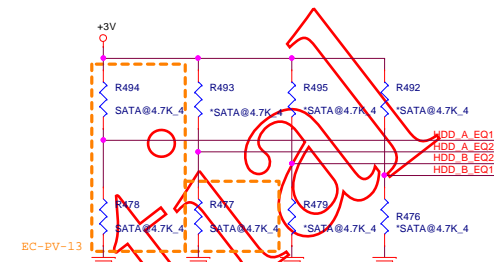
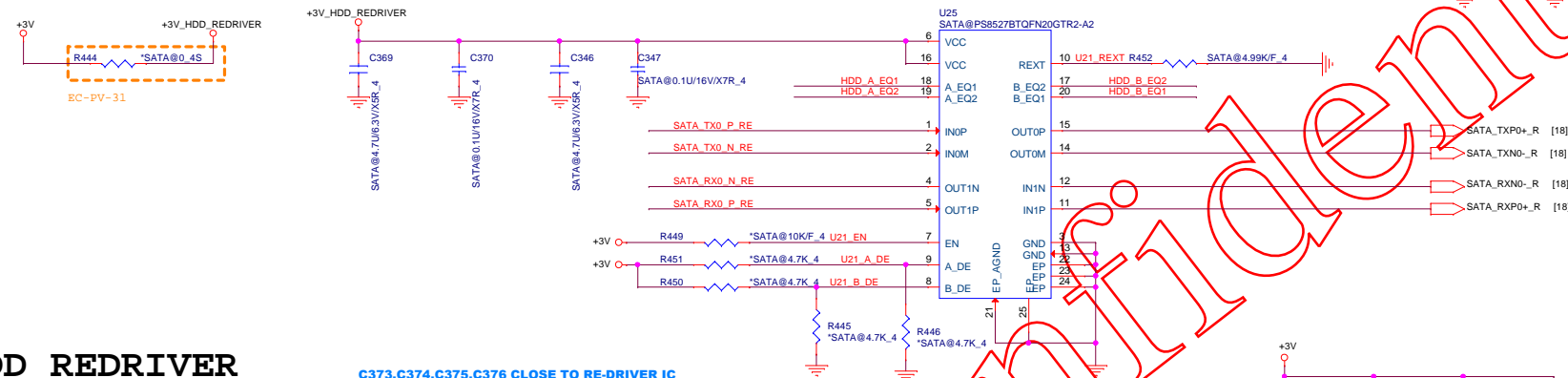
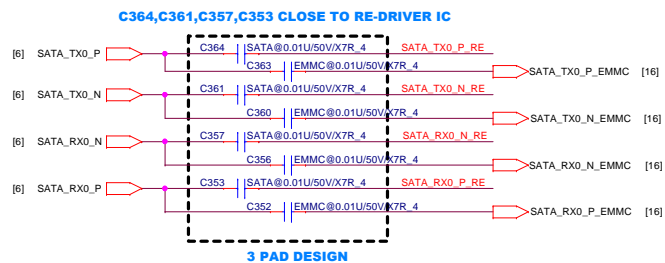


HDD REDRIVER

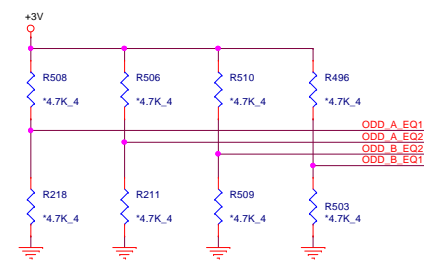
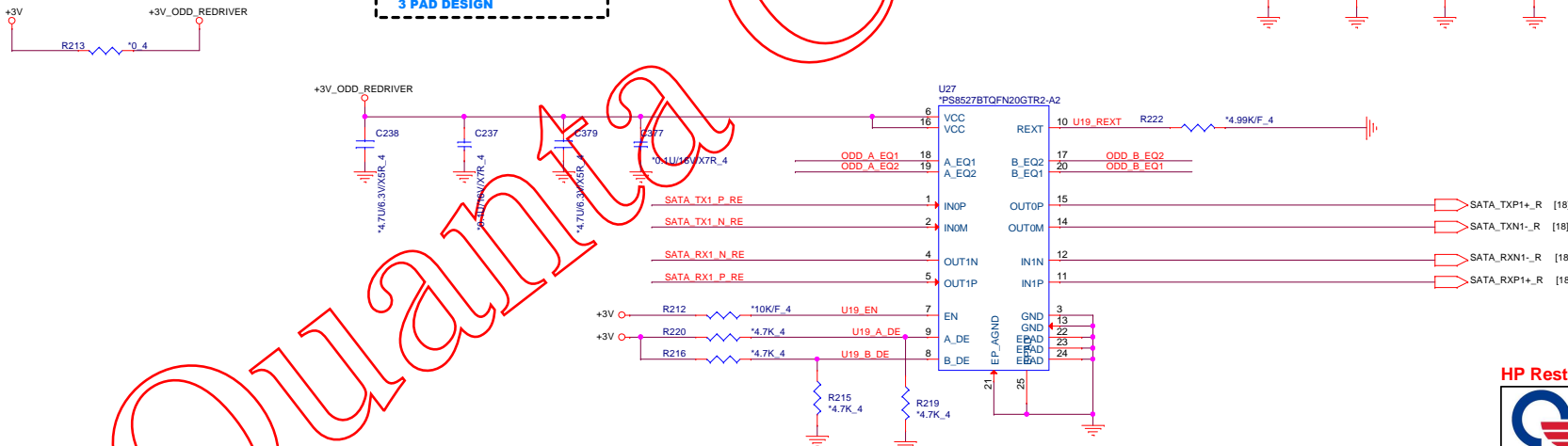
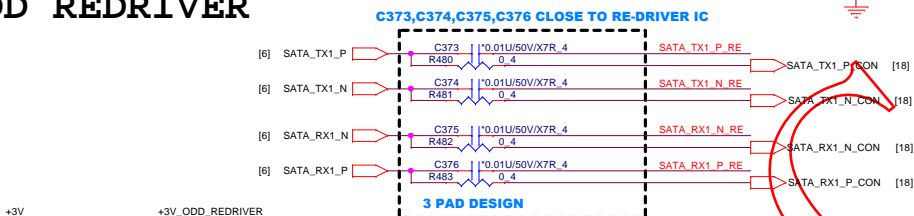
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+3V

15

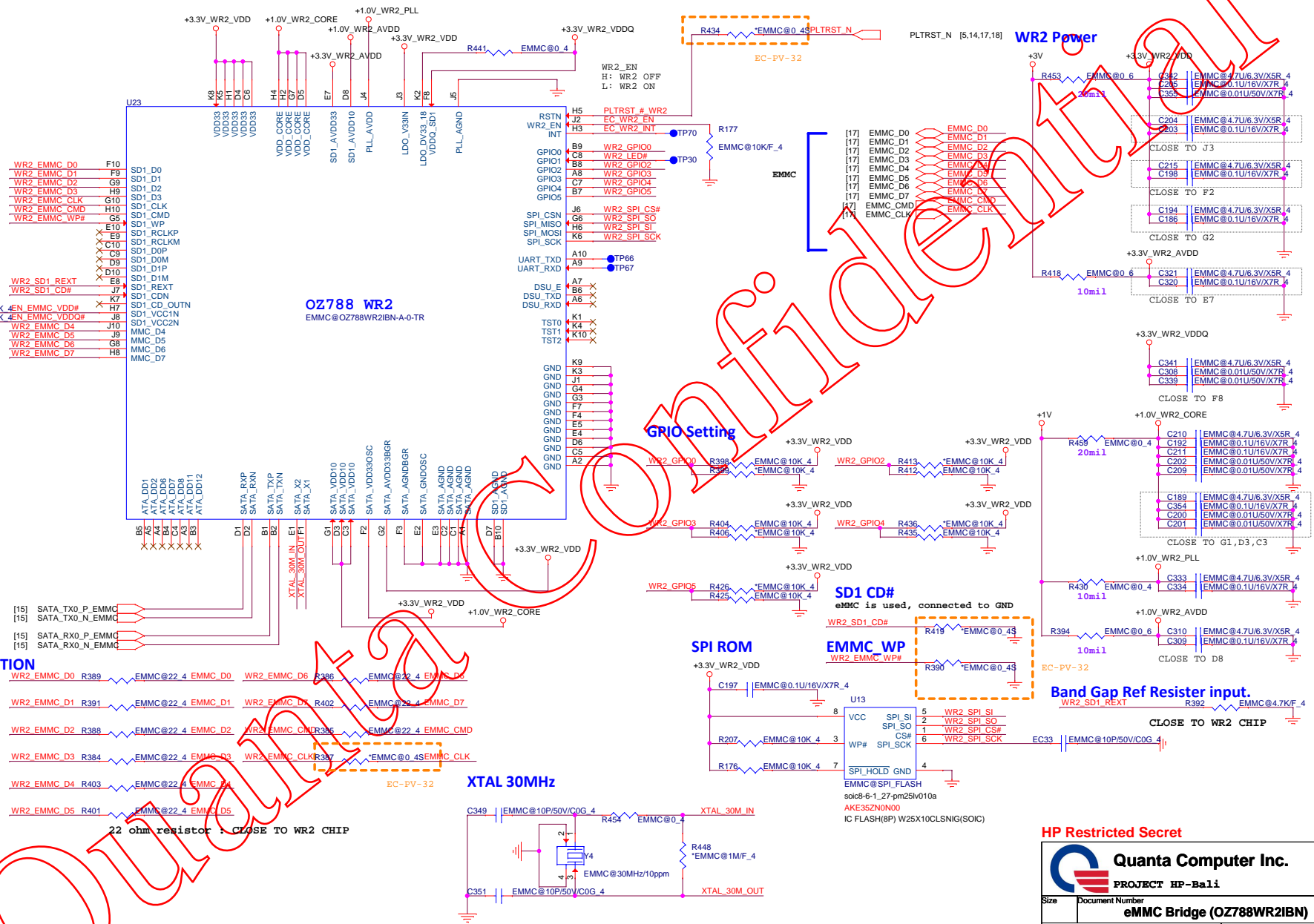


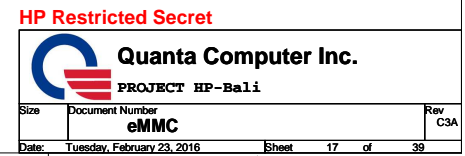
ODD REDRIVER



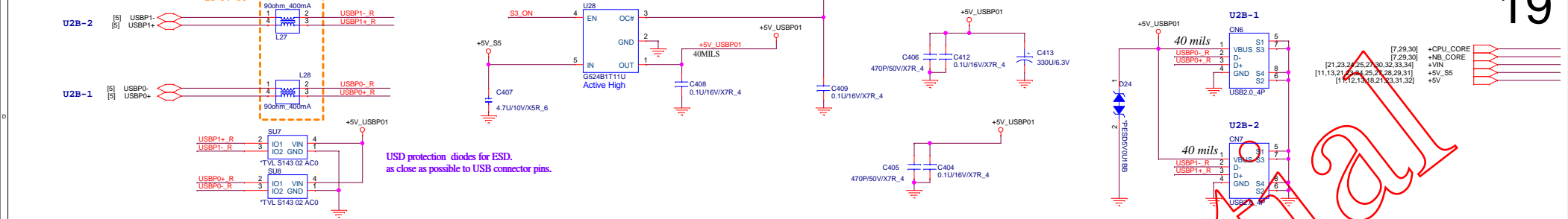
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		Rev
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SATA RE-DRIVER		
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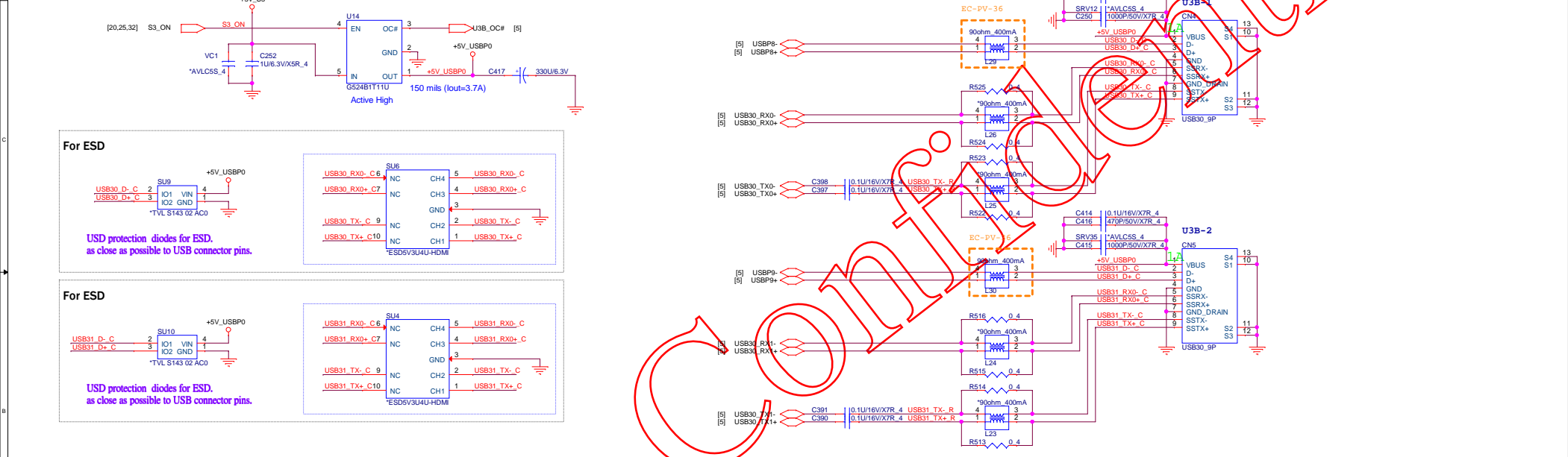




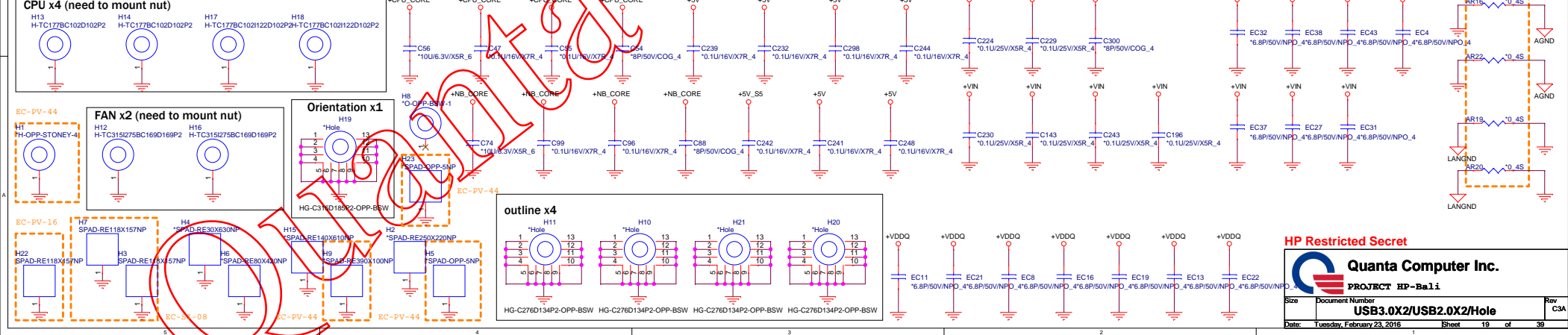
USB 2.0

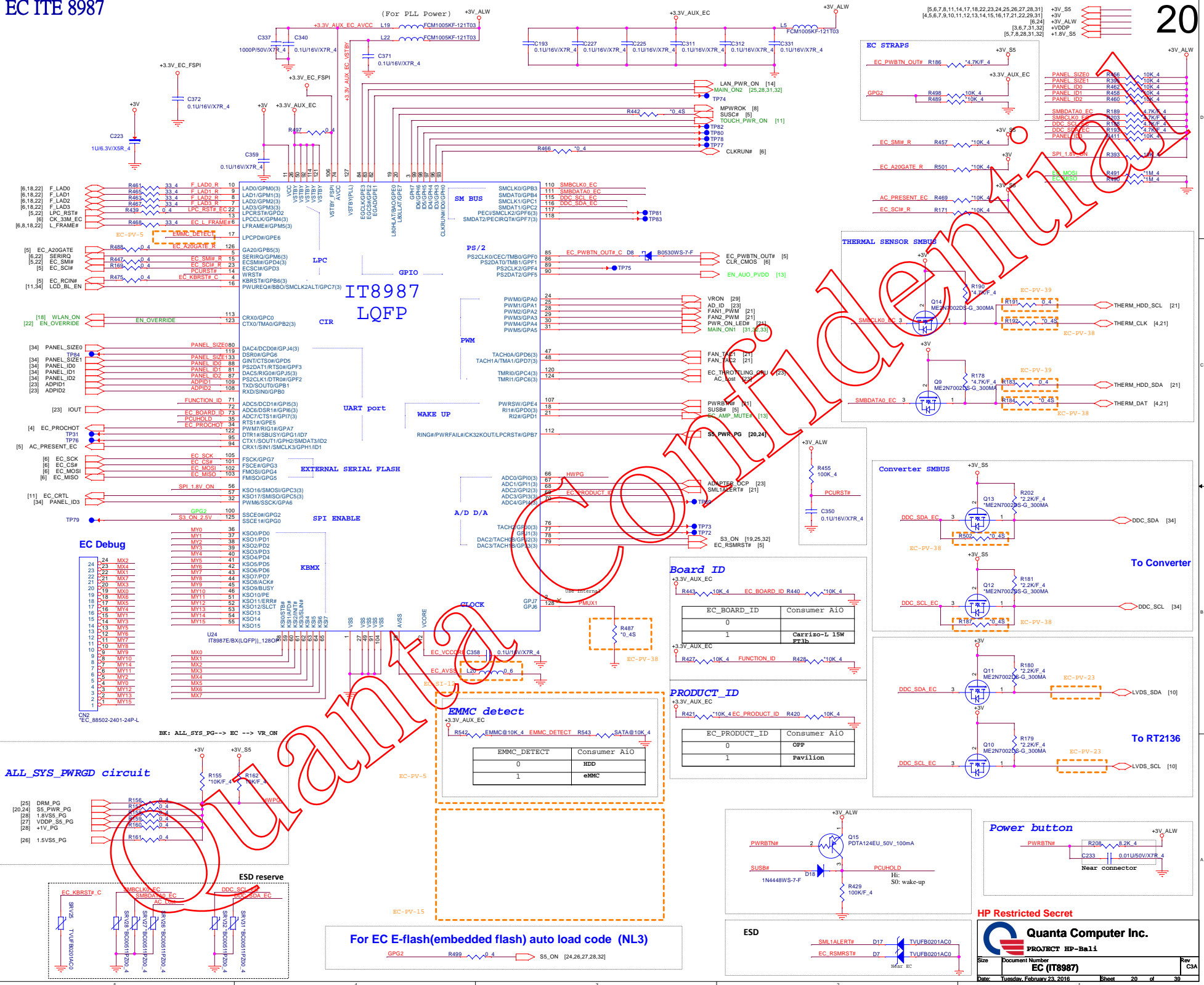


USB 2.0/3.0 Combo

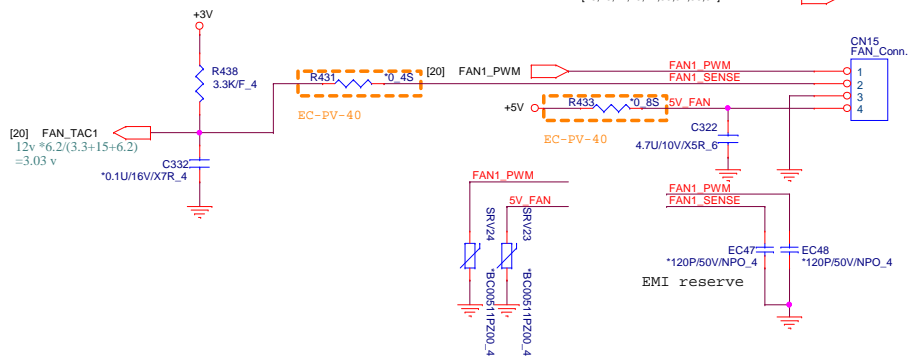


HOLE/RF/EMI

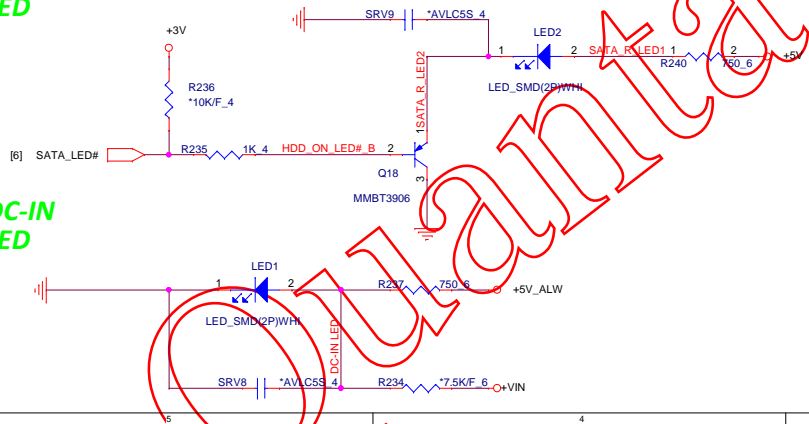




[4,5,6,7,9,10,11,12,13,14,15,16,17,20,22,29,31]	+3V	
[11,12,13,18,19,23,31,32]	+5V	
[11,13,19,23,24,25,27,28,29,31]	+5V_S5	
[13,24]	+5V_ALW	
[19,23,24,25,27,30,32,33,34]	+VIN	

[illegible]

**SATA
LED**



EC-PV-11

90ohm 400mA

1 2 3 4

BPG+ BPG-

USBP6+ R USBP6- R

L31

PWRBTN# PWR_ON_LED#

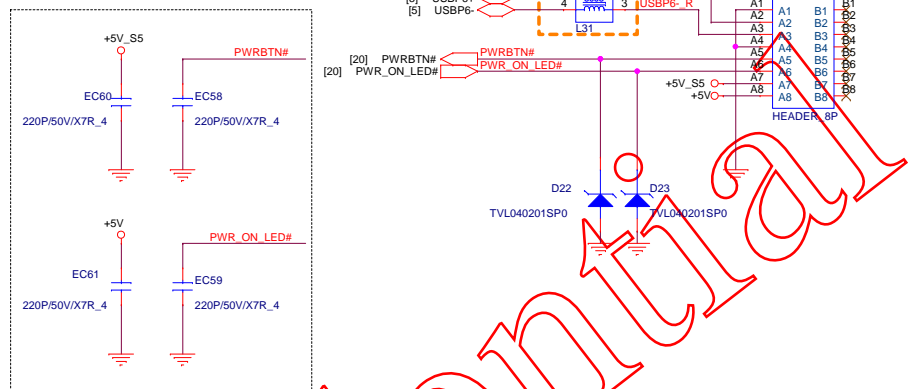
+5V_S5 +5V_0

A1 A2 A3 A4 A5 A6 A7 A8

B1 B2 B3 B4 B5 B6 B7 B8

CN22

HEADER_8P



<check list>
Layout Note: Routing 10:10 mils and away from noise source with ground guard

Closed to CPU

THERMAL SENSOR-HDD

Slave Address

A6	A5	A4	A3	A2	A1	A0
1	0	0	1	0	0	0

Reserved

U29 G753T11U

[20] THERM_HDD_SCL 1 SMBCLK VCC 4

[20] THERM_HDD_SDA 5 SMBDATA ALERT# 3 SML_ALT_HDD

2 GND

+3V EC-PV-40 R540 0.6S

+3V THM_HDD C418 0.1U/16V/X7R 4

+3V R539 10K 4

+3V R538 0.4 SML1ALERT#

SML_ALT_HDD

Ambient

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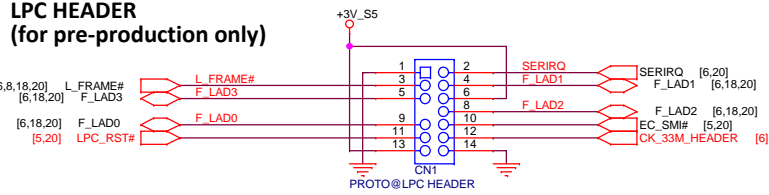
EC-SI-05

LPC HEADER (for pre-production only)

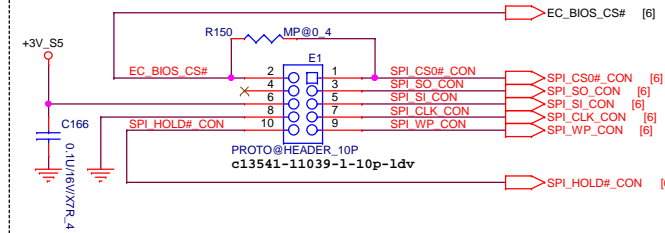
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[4,5,6,7,9,10,11,12,13,14,15,16,17,20,21,29,31]

+3V_S5
+3V

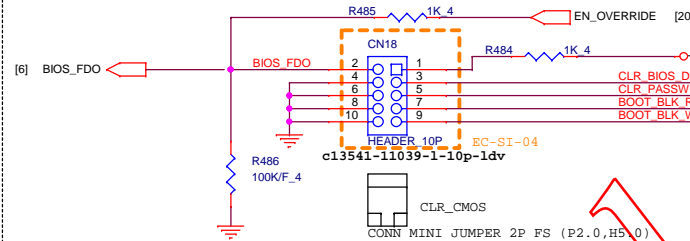
22



ROM recovery (for pre-production only)



MINI_JUMP_2P_FM_2.54MM_BLACK
PROTO
Pinrex 202-H71-01GU0B



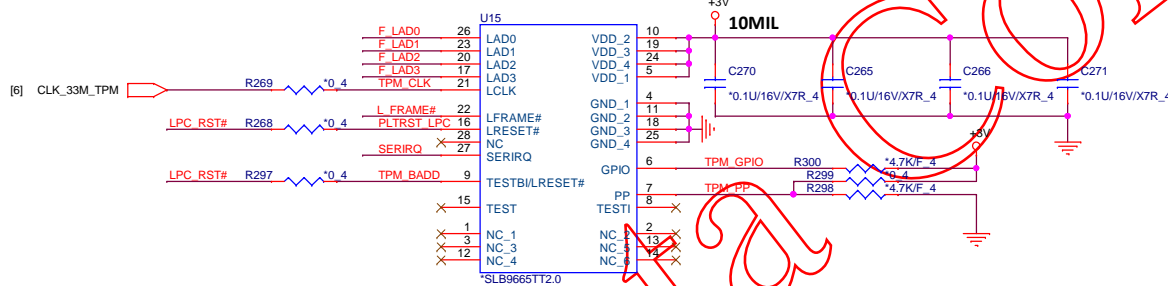
CLR CMOS

Jumper	Pre-production	Production
BOOT_BLK Recovery	X	X
BOOT_BLK Enable	O	X

Jumper	Type
Pop	CLR_BIOS_DAT
Pop	CLR_PASSWD
Pop	BOOT_BLK Recovery
Pop	BOOT_BLK Enable

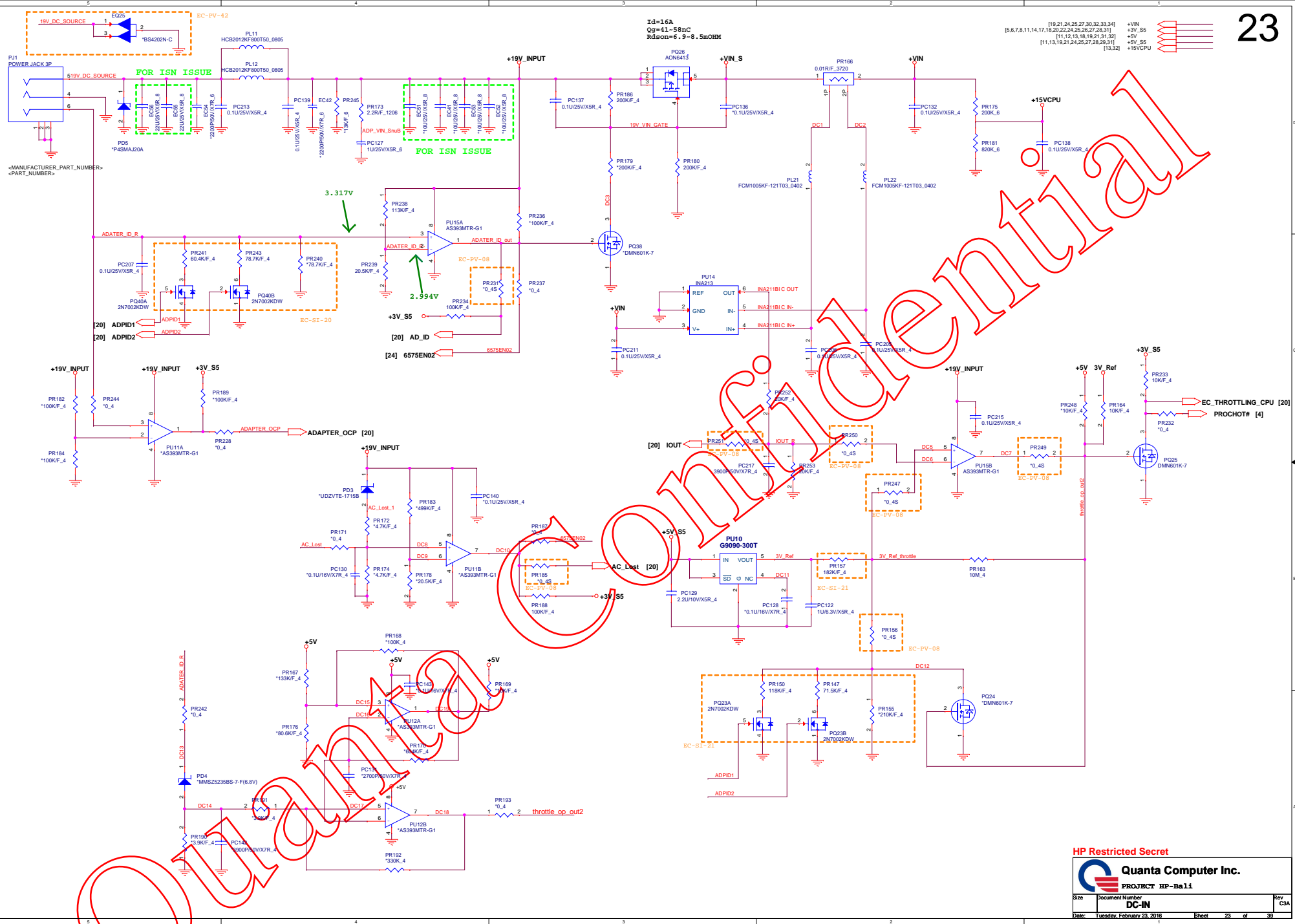
TPM2.0

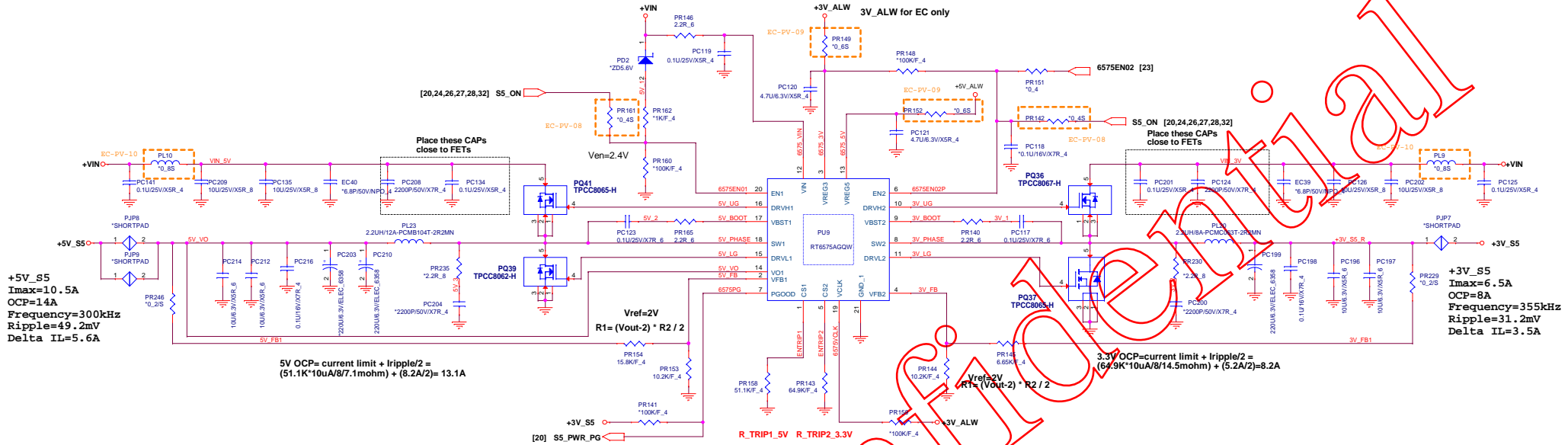
LPC TPM2.0



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TPM 2.0 / LPCHeader	
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L/S Mosfet parameter

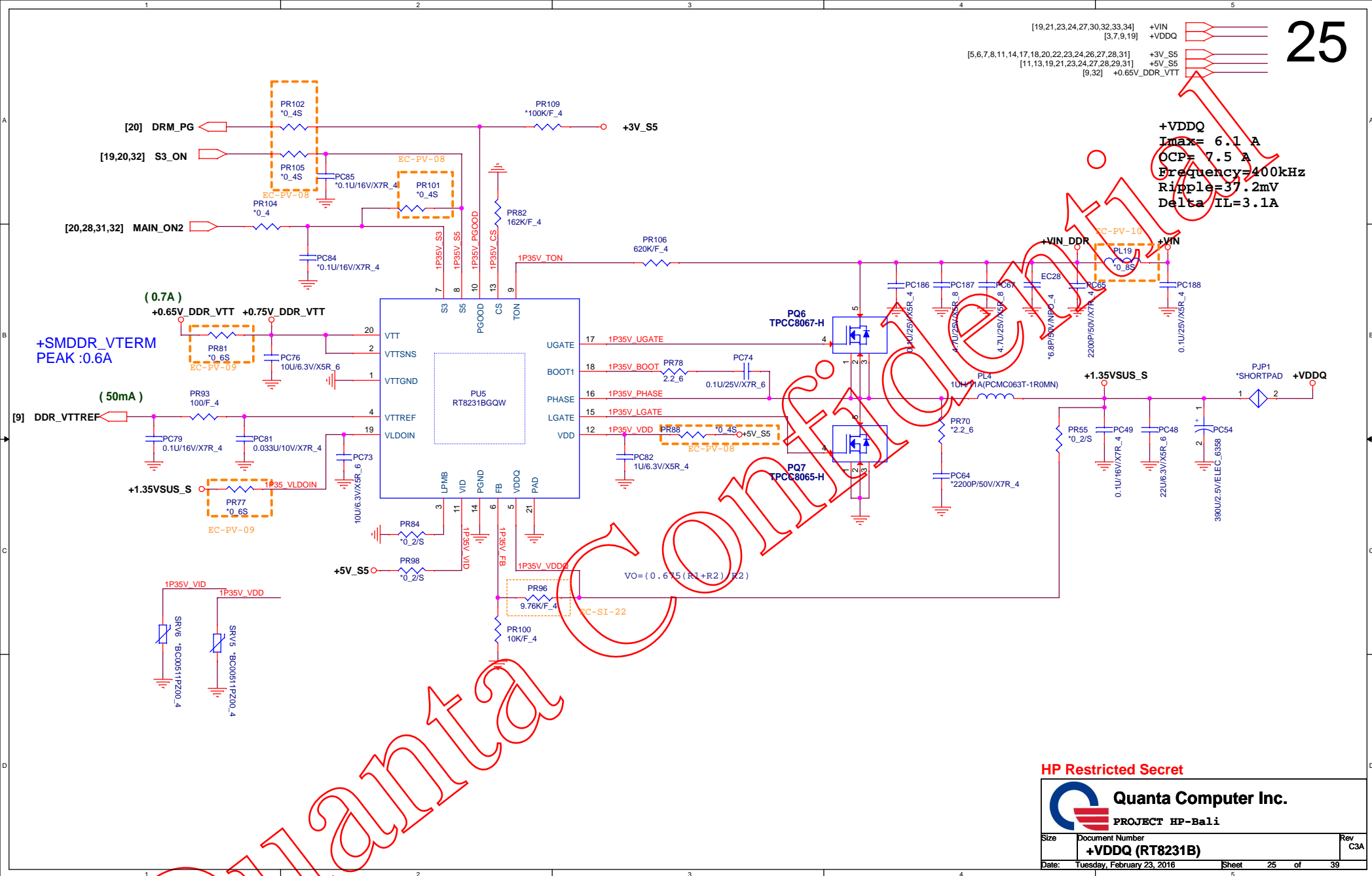
MOSFET	Package	ID (Ta=25°C)	Rds_on_max
TPCC8065-H	DFN3x3	13A	14.5m
TPCC8062-H	DFN3x3	27A	7.1m

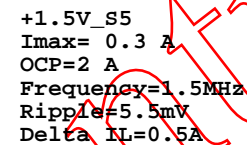
Power On sequencing


EN0	ENC	REF	VREG3	VREG5	SMPS1	SMPS2
LOW	LOW	OFF	OFF	OFF	OFF	OFF
> 2.4V	LOW	ON	ON	ON	OFF	OFF
> 2.4V	> 2.4V	ON	ON	ON	ON	ON

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Size	Document Number		
	+3VSS/+5VSS(RT675AGQW)		
Date:	Tuesday, February 23, 2010	Sheet	24 of 39

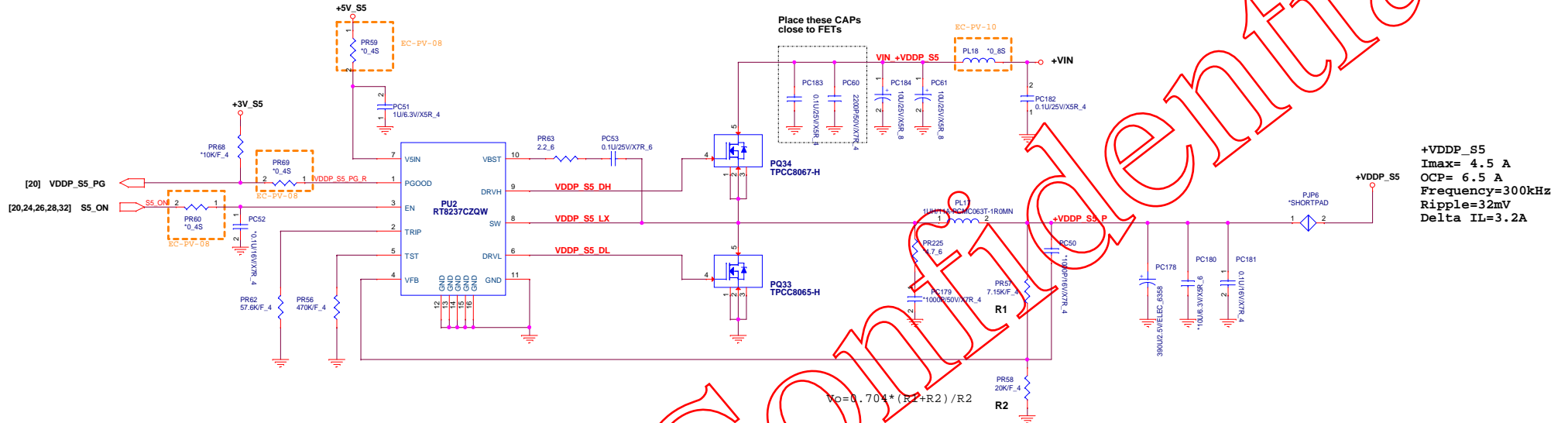




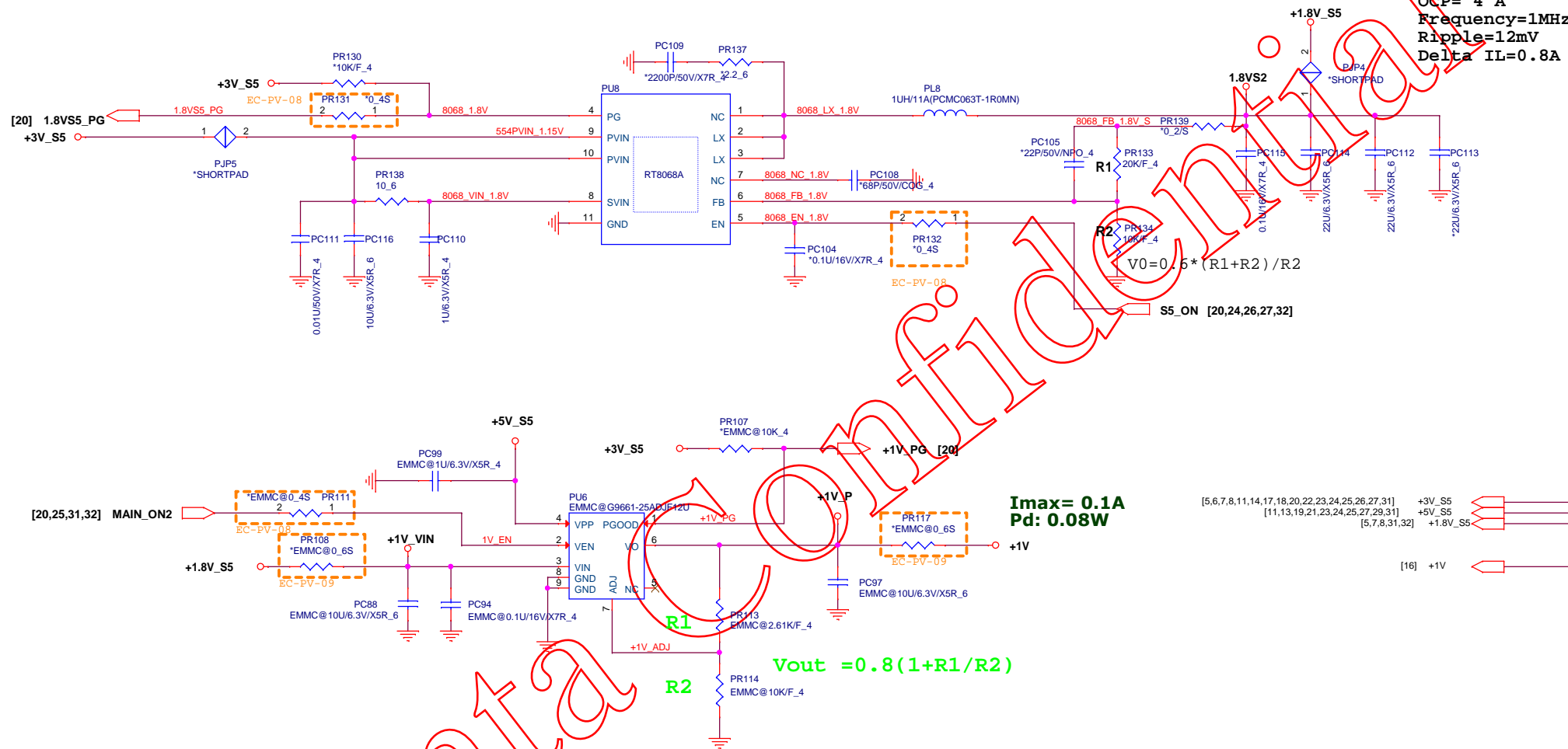
 Quanta Computer Inc. PROJECT HP-Bali				Rev
Size	Document Number	+1.5V_S5 (APW8826CI)		C3A
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[11,13,19,21,23,24,25,28,29,31]
[19,21,23,24,25,30,32,33,34]
[7,31,32]

+3V_S5
+5V_S5
+VIN
+VDDP_S5



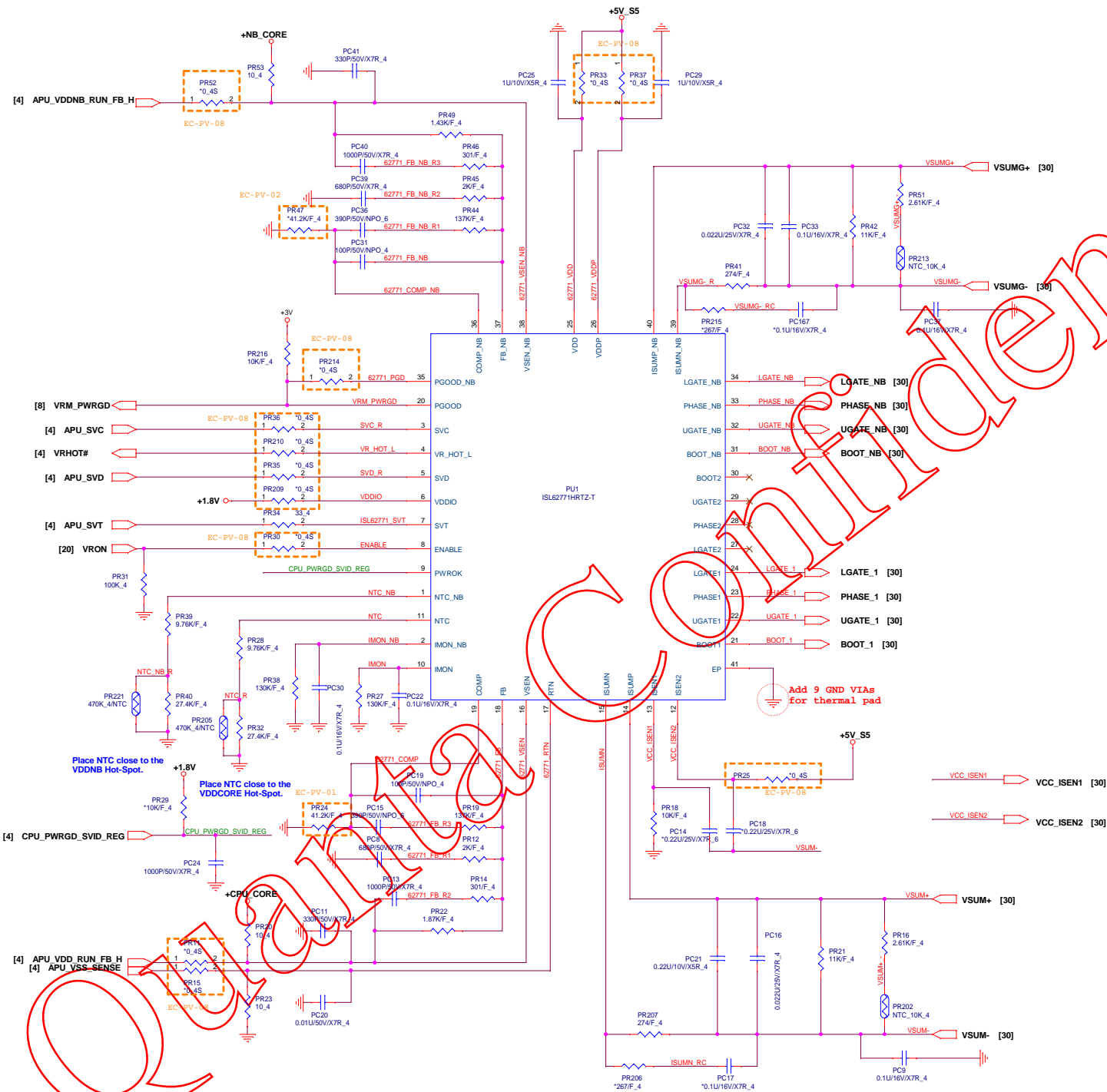
HP Restricted Secret



HP Restricted Secret



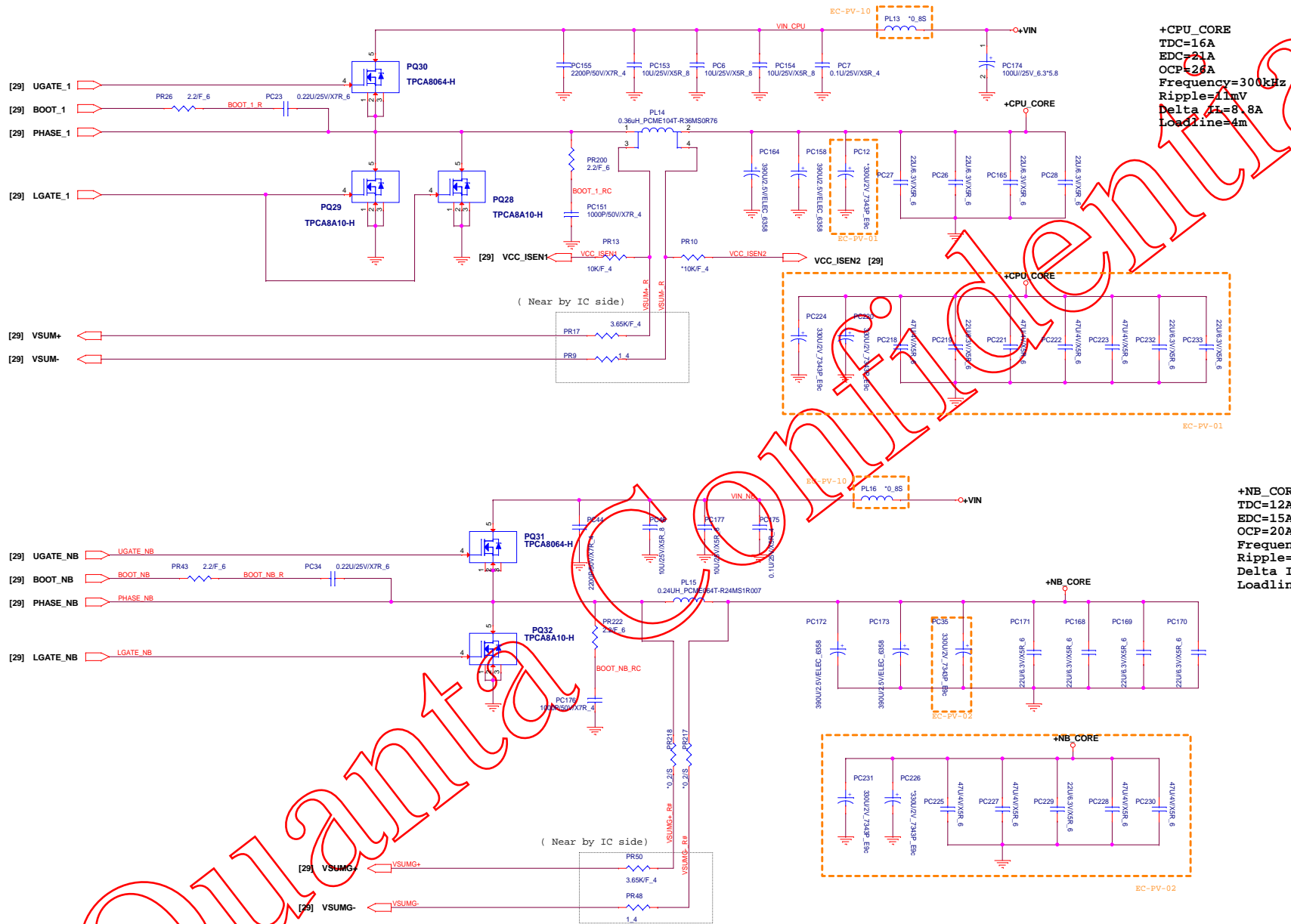
Size	Document Number	Rev
	+1.8V_S5 / +1V	C3A
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Quanta Computer Inc.
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Size	Document Number	Rev
	CPU_CORE (ISL62771)	C3A
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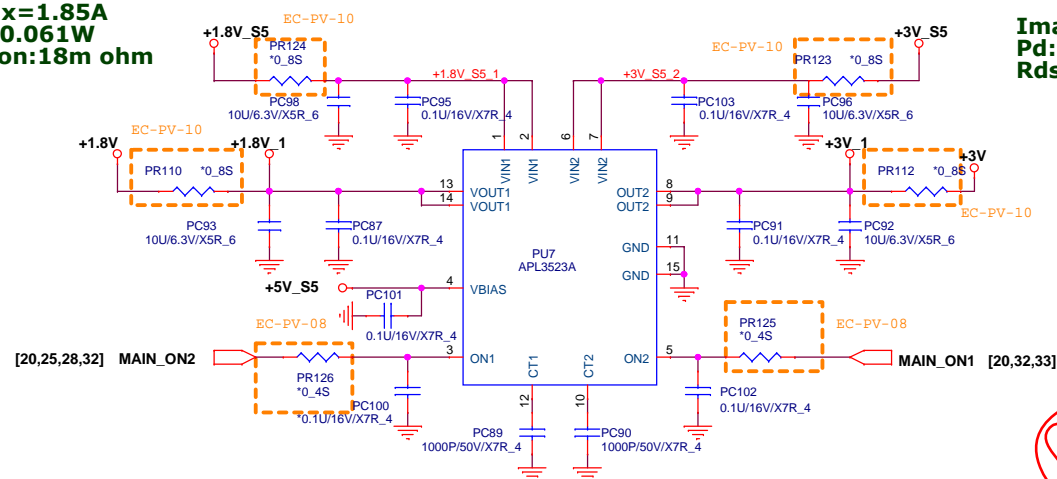


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Size	Document Number	Rev
	CPU / VDDNB CORE	C3A
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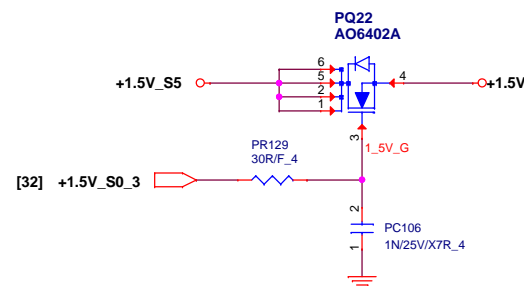
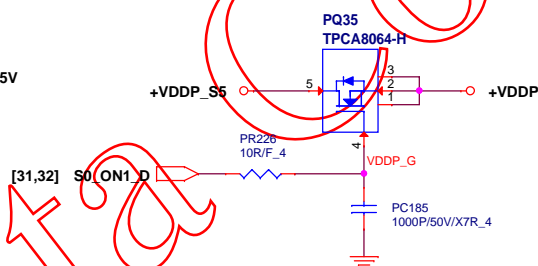
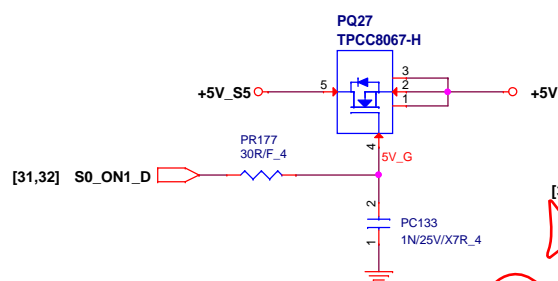
Imax=2.85A
Pd: 0.146W
Rdson:18m ohm



TPCC8067-H
Rdson=20m@10V Vgs
Imax=7A
Pd: 0.98W

TPCA8064-H
Rdson=6m@10V Vgs
Imax=4A
Pd: 0.096W


AO6402A
Rdson=24m@10V Vgs
Imax=0.2A
Pd: 0.001W



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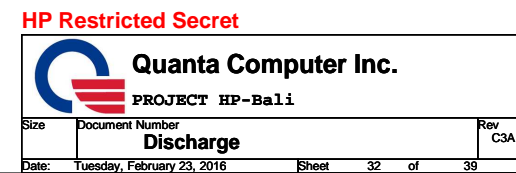
Quanta Computer Inc.



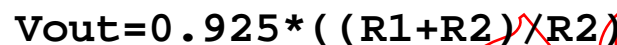
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12V +VIN



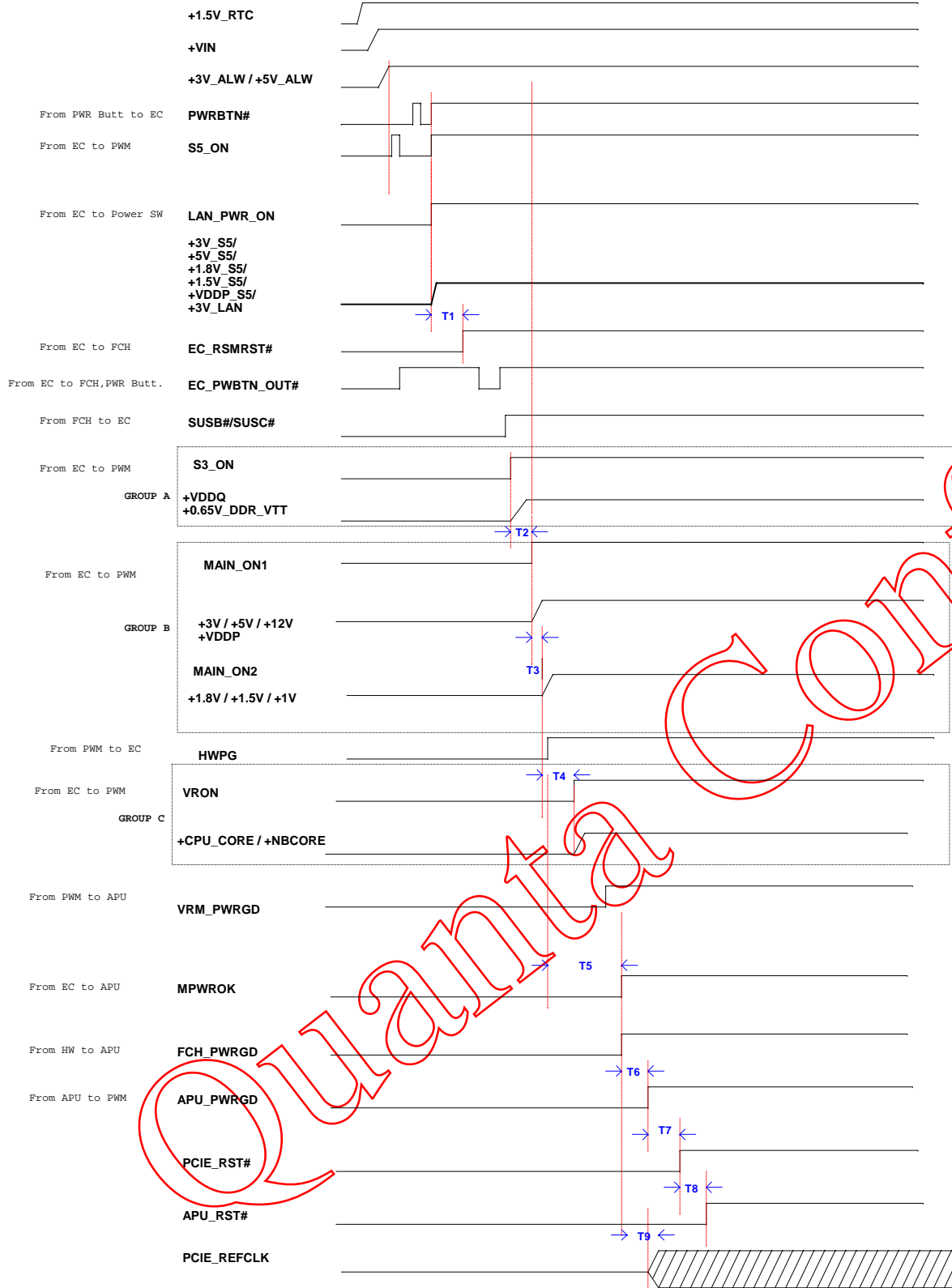
+12V
I_{max}=2A
OCP=4A
Frequency=357kHz
Ripple=75mV
Delta IL=1.9A

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System Power Sequence

EC Control:
 T1: S5_ON TO EC_RSMRST# = 20ms
 T2: S3_ON TO MAIN_ON1 = 10ms
 T3: MAIN_ON1 TO MAIN_ON2 = 1ms
 T4: MAIN_ON2 TO VRON = 10ms
 T5: HWPG TO MPWROK = 99ms

Timing spec:

T1 Spec: 10ms min

Power Up Spec:

Group A > Group B > Group C

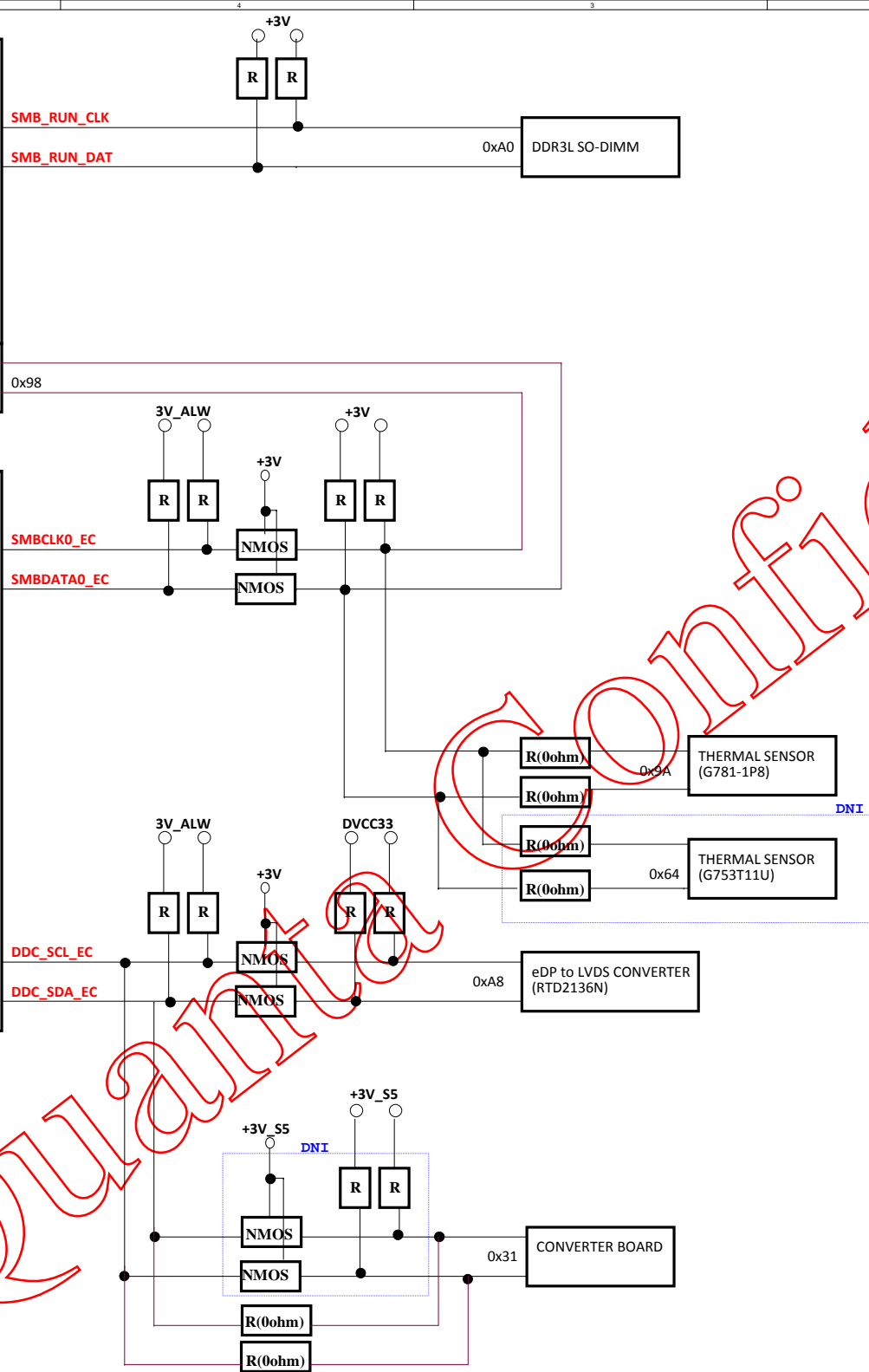
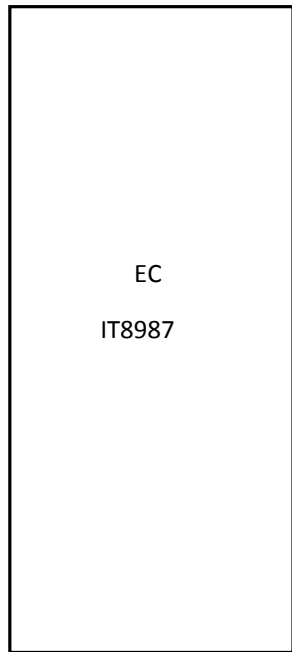
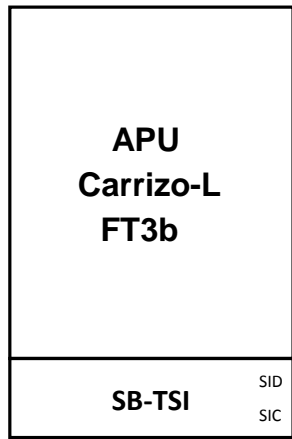
T6: FCH_PWRGD TO APU_PWRGD = 108.6-118.6 ms

T7: APU_PWRGD TO PCIE_RST# = 114.2-124.2 ms

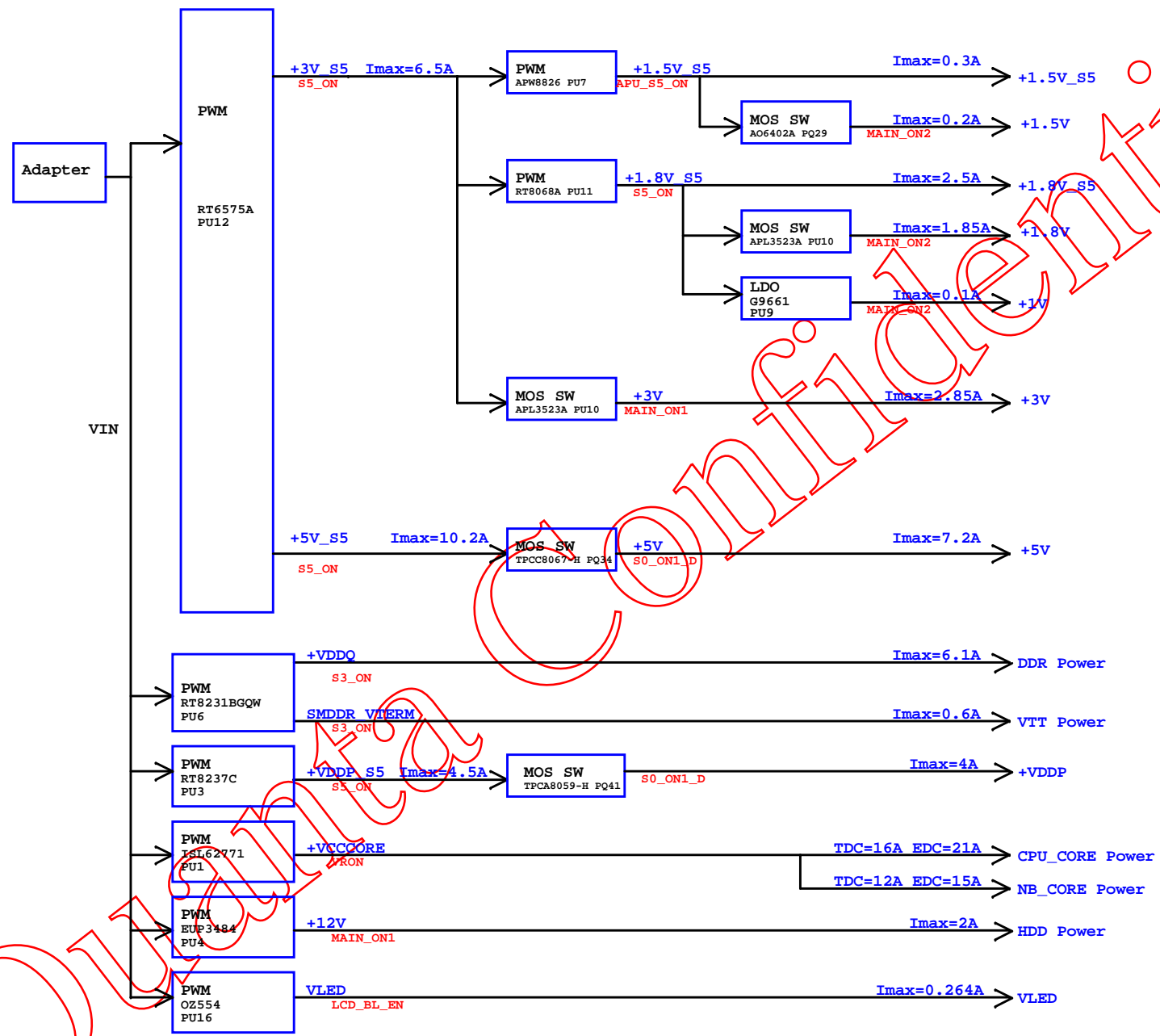
T8: PCIE_RST# TO APU_RST# = 111.9-121.9 ms

T9: FCH_PWRGD TO PCIE_REFCLK = 37.6-47.6 ms

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[illegible]

Blai EE Schematic SI to PV version

EC #	Page	Description	Part Affected
EC-PV-01	30	+CPU_CORE Add PC220, PC224, PC218, PC219, PC221, PC222, PC223, PC232, PC233 ,PR24 for Stardust test.	PC220, PC224, PC218, PC219, PC221, PC222, PC223, PC232, PC233, PR24
EC-PV-02	29,30	+NB_CORE Stuff PC35, Add PC231, PC225, PC227, PC228, PC229, PC230 for Stardust test.	PC35, PC231, PC225, PC227, PC228, PC229, PC230
EC-PV-03	6	Y3 change Quanta P/N to BG3327680A8.	Y3
EC-PV-04	11	Add R541 and R544 for Touch screen.	R541, R544
EC-PV-05	20	Add R542, R543 for eMMC detect.	R542, R543
EC-PV-06	6	Stuff R145 and unStuff R146 for Board ID0, Stuff R359 and unStuff R350 for Board ID1	R145, R146, R359, R350
EC-PV-07	18	Change CN20 footprint.	CN20
EC-PV-08	23-34	Change footprint R0402 0R to S0402 shortpad.	
EC-PV-09	23-34	Change footprint R0603 0R to S0603 shortpad.	
EC-PV-10	23-34	Change footprint R0805 0R to S0805 shortpad.	
EC-PV-11	21	Remove R531, R536 and Stuff L31 for EMI.	L31
EC-PV-12	11	Remove R278, R279.	
EC-PV-13	15	Stuff R477, R478, R494 for SATA redriver vendor suggest.	R477, R478, R494
EC-PV-14	5	U17 pin3 change connect to GND, pin5 change connect to +3V_S5.	U17
EC-PV-15	20	Remove EC share ROM R432, R383, R379, R377, R405, U21, R376, C302.	
EC-PV-16	19	Add H22 for EMI.	H22
EC-PV-17	4	R70, R81, R281, R282, R277 change footprint R0402 0R to S0402 shortpad.	R70, R81, R281, R282, R277
EC-PV-18	5	R361 change footprint R0402 0R to S0402 shortpad.	R361
EC-PV-19	6	R363 change footprint R0402 0R to S0402 shortpad.	R363
EC-PV-20	5	Remove R121, R122, Add TP85 .	TP85
EC-PV-21	8	R338 change footprint R0402 0R to S0402 shortpad.	R338
EC-PV-22	9	R365, R372 change footprint R0402 0R to S0402 shortpad.	R365, R372
EC-PV-23	20	Remove R182, R185.	
EC-PV-24	10	Unstuff R30, R43	R30, R43
EC-PV-25	11	R270, R272 change to CX301T03000	R270, R272
EC-PV-26	12	R205, R206, R470, R472, R473, R500 change footprint R0402 0R to S0402 shortpad.	R205, R206, R470, R472, R473, R500
EC-PV-27	13	AL11, AL16, AL2, AR2 change footprint R0603 0R to S0603 shortpad.	AL11, AL16, AL2, AR2
EC-PV-28	13	AR32 change footprint change footprint R0402 0R to S0402 shortpad.	AR32
EC-PV-29	14	R521, R520 change footprint change footprint R0805 0R to S0805 shortpad.	R521, R520
EC-PV-30	14	R407 change footprint change footprint R0603 0R to S0603 shortpad.	R407
EC-PV-31	15	R444 change footprint change footprint R0402 0R to S0402 shortpad.	R444
EC-PV-32	16	R434, R419, R390, R387 change footprint change footprint R0402 0R to S0402 shortpad.	R434, R419, R390, R387
EC-PV-33	17	R408, R167, R164, R154, R168, R165, R163, R153, R151 change footprint change footprint R0402 0R to S0402 shortpad.	R408, R167, R164, R154, R168, R165, R163, R153, R151
EC-PV-34	18	R37, R40, R204 change footprint change footprint R0805 0R to S0805 shortpad.	R37, R40, R204
EC-PV-35	18	R214, R217 change footprint change footprint R1206 0R to S1206 shortpad.	R214, R217
EC-PV-36	19	Remove R527, R528, R529, R530, R533, R532, R534, R535	
EC-PV-37	19	AR16, AR22, AR19, AR20 change footprint change footprint R0402 0R to S0402 shortpad.	AR16, AR22, AR19, AR20
EC-PV-38	20	R487, R502, R187, R192, R184 change footprint change footprint R0402 0R to S0402 shortpad.	R487, R502, R187, R192, R184
EC-PV-39	20	Stuff R191, R183 for HDD ambient sensor.	R191, R183
EC-PV-40	21	R431, R433, R507, R505, R540, R57, R69 change footprint change footprint to shortpad.	R431, R433, R507, R505, R540, R57, R69
EC-PV-41	9	R54, R56, R108 change footprint change footprint to shortpad.	R54, R56, R108
EC-PV-42	39	Reserve EQ25 for EMC.	EQ25
EC-PV-43	14	Add R545, R546 for EMC.	R545, R546
EC-PV-44	19	H1, H5, H8 change footprint and add H23 for EMC.	

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PV Change list		
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