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05	HSW MCP(MEMORY/GND)	1A	
06	HSW MCP(CFG/PwrMGT)	1A	
07	HSW MCP(POWER)	1A	
08	HSW PCH(RTC/HDA/SATA)	1A	
09	HSW PCH(PCIE/USB)	1A	
10	HSW PCH(CLK/LPC/SPI/SMB)	1A	
11	HSW PCH(GPIO/LPIO/MISC)	1A	
12	HSW PCH(POWER)	1A	
13	DDR3L DIMM1-STD 4H (CH-A)	1A	
14	HOLE/EMI/KB	1A	
15	WPCE985L & FLASH	1A	
16	LVDS\TS\NFC	1A	
17	HDD/Gsensor/TP/FAN	1A	
18	HDMI/THERMAL	1A	
19	USB Charger/IO connector	1A	
20	WLAN/KB-BL	1A	
21	LED	1A	
22	Sensors Hub & Sensors	1A	
23	POWER +VCC_CORE (NCP81101)	1A	
24	POWER 3VPCU&RVCC5(TPS51427)	1A	
25	POWER 1.35VSUS/VTT_MEM	1A	
26	POWER +1.05V(G5602R41U)	1A	
27	POWER VCC1.5/Thermal	1A	
28	POWER(BAT IN / ADA IN/ UL)	1A	
29	POWER CHARGER (ISL88732)	1A	
30	IO PORT LIST	1A	
31	SMBUS	1A	
32	Power Table	1A	
33	Power Sequence	1A	

Page	Title of schematic page	Rev.	Date

1

* : No mount
L@ : For LVDS output
D@ : For eDP output
E@ : For DIS GFX
I@ : For UMA

FI2 BLOCK DIAGRAM

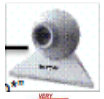
02

Memory(Channel A)

DDR3L-1600 CH-A SO-DIMM

HDD SATA0 6Gb/s

Rear CAMERA



USB3.0 PORT4

USB3.0 PORT2

USB3.0 PORT1

USB 3.0

PORT4

PORT3

BT

PORT7

USB 2.0

Front CAMERA

PORT3

Rear CAMERA

Light Sensor CM3218 I2C

A+M Sensor LSM303DLHCTR I2C

Gyro Sensor L3GD20TR I2C

Sensor HUB STM32F103CBU6TRC44

PORT6

I2C

NFC

SMBUS

SPI

Intel Shark Bay

Haswell ULT + Lynx Point-LP

BGA1168

(40mm X 24mm)

PCI-E X4

eDP 14"eDP (1920x1080)

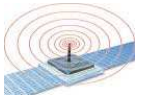
HDMI

2.5GT/s PCI-Express Gen1

PCIE4 PCIE3 PCIE6

Giga-LAN RTL8111GUS

RJ45



WLAN/BT P20

Card Reader RTS5227E

SD-XC

HD-AUDIO

Audio CODEC ALC233-CG

Combo Jack SPK DMIC

SPI ROM 8MB

SPI

LPC PECI

EC NPCE985L

Touch Pad P17

Keyboard P20

LEDs
- Power/Sleep LED
- Charger LED
- HDD Status LED
- Caps Lock LED

Buttons
- Power
- Assit
- Volume Up
- Volume Down
- Windows
- Battery Detach

PCB STACK UP 6L

LAYER 1 : TOP
LAYER 2 : SVCC
LAYER 3 : IN1
LAYER 4 : IN2
LAYER 5 : SGND
LAYER 6 : BOT

1.Level 1 Environment-related Substances Should Never be Used.
2.Recycled Resin and Coated Wire should be procured from Green Partners.

Quanta Computer Inc.
PROJECT :FI2

Size	Document Number	Rev
	BLOCK DIAGRAM	1A

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EVT->DVT

PAGE04 :<1>, EC_A20GATE change to R_CAM_ON
<2>, R_CAM_ON change to GPIO78
<3>, Change the netname of GPIO77 from EC_EXT_SMI# to GPIO77
<4>, R271, R272, R273, R274, R275, R276, R277 ,R14,R15 change to 100K from 10K for power saving.
PAGE07 :<1>, R42 change to 100K from 10K for power saving.
<2>, SCH add U34/U35 to colay VCCST_PWRGD&IMVP_PWRGD
<3>, R41/R44 change +3V_S5 from +3V for timing issue
<4>, C49 add 680PF for timing issue
<5>, +1.35V_SUS add a C2376(3.3pF) capacitance to GND for RF solution
PAGE08 :<1>, RTC CNN change to DFHD02MS107
<2>, Y1 change to BG332768224
<3>, Change the netname of GPIO35 from GPIO35 to EC_EXT_SMI#
<4>, R278, R279, R280, R281 change to 100K from 10K for power saving.
PAGE09: <1>, USB3 support rear CAM solution
<2>, CAM-Front change port7 from port5 from sony request
<3>, Sensor hub change port6 from port4 from sony request
<4>, BT change port5 from port3 from sony request
<5>, Touch change port4 from port2 from sony request
<6>, Rear CAM change to port3 from port2 from Sony request
<7>, PCH GPIO29 use for WLAN_PW_EN
<8>, R73, R282 change to 100K from 10K for power saving.
<9>, SLP_A add test point for ME compliancy test
<10>, SCH un-mount R282
<11>, SCH add R24520 for PCI_PLTRST#
PAGE10: <1>, Remove RP4 , Add R24465 10 K ohm for CCD_PWR_EN without mount , add R24466 10K ohm for GPIO11 with mount .
<2>, R24456 change to 100K from 10K for power saving.
PAGE11 :<1>, PCH GPIO27 add SIO_WAKE_GPIO27#
<2>, PCH GPIO08 change to LAN_RST#
<3>, PCH GPIO24 add PCH_LAN_WAKE#
<4>, PCH GPIO12 add LAN_ISOLATE#
<5>, Change R293,R304,R310,R308,R297,R306 from mount to un-mount
<6>, Change R118 from NC to mount
<7>, Change HDD_PW_EN from GPIO90 to GPIO13
<8>, Change R302 from 10k ohm pull high to 100k ohm pull down
<9>, Add R24462 100K pull down for CR_PW_EN
<10>, PCH GPIO16 add DB_DET#
<11>, R283, R285, R292, R295, R300, R315, R313, R317, R311, R289, R296, R298, R299, R301, R303, R305, R307, R309, R312,R314, R318, R319, R320, R290, R291, R294, R284, R112, R288, R115, R287,
R116, R117, R118, R119, R286, R122, , R114
, R126, R127, R130,R132, R134 change to 100K from 10K for power saving.
<12>, SCH mount R310
<13>, SCH no-mount R288 for NFC_RST#
PAGE12 :<1>, DSW add 0.47UF(C2362) for Inrush issue
<2>, Q8 change to NTTFS4C10N from 2N7002W for DSW inrush issue
PAGE13 :<1>, R165,R166 change footprint to RC0402
<2>, +1.35V_SUS add two 3.3pF(R2377/R2378) capacitances to GND for RF solution
<3>, +3V add a 3.3pF(C2381) capacitance to GND for RF solution
<4>, +0.675V_DDR_VTT add two 3.3pF(R2379/R2380) capacitances to GND for RF solution
PAGE14 :<1>, SCH add RP11-16 for KB ESD protection
<2>, H10 footprint change to H-C256D138P2
<3>, Add H20/H21
<4>, CON4 change new material and footprint
PAGE15 :<1>, EC GPIO84 add EC_WLAN_PWR_EN
<2>, EC GPIO55 add SIO_WAKE_GPIO27#
<3>, BOM delete KD5
<4>, Add KC16,KD5
<5>, KR2, KR4, KR19, KR27, KR28, KR29 change to 100K from 10K for power saving.
<6>, EC_WLAN_PWR_EN add KR30 for external P/H
PAGE16 :<1>, CON6 reassign PIN definition and cable can connect well with FPC
<2>, CON6 add MODE_LID-2#
<3>, Add R24457,R24458,R24459 100K ohm pull down
<4>, Remove reserve resistor , R180,R258,R259,R2435,R2435,R2436
<5>, Change U5,U18,U26 load switch with discharge function
<6>, CON6 change new material and footprint
<7>, SCH add R24519/U36 for NFC reset buffer circuit.
<8>, +3V add a 3.3pF(C2382) capacitance to GND for RF solution
<9>, LCDVCC add two 3.3pF(R2383/R2384) capacitances to GND for RF solution
PAGE17: <1>, HDD support USB3 for rear CAM solution
<2>, HDD support USB2 for rear CAM solution
<3>, SCH delete Q21/Q24/Q22/Q23/R2448/R248/R251/R249/R250/C276
<4>, SCH add rear CAM LDO solution
<5>, SCH add power switch for NGFF&HDD
<6>, USB3 RX4 add decap parts(C2360/C2361) to prevent short GND with HDD
<7>, USB3 TX4 add decap parts(C2363/C2364) to prevent short VCC with HDD
<8>, +5V_HDD_+3V_SSD add F25 for Polyswitch
<9>, SCH mount R2440
PAGE18: <1>, HR16,HR18 change to 4.7Kohm, HR17,HR19 change to 2.2Kohm
PAGE19 :<1>, SCH reserve R24454 to support TPS2543
<2>, CON9 change 30PINs from 28PINs
<3>, Change CON22 pin5 from +3V_WAKE_1 to USBPWR_P1
<4>, CON9 change new material and footprint
<5>, SCH add AR13/AR14 for LC circuit for EMI request
<6>, CON22 PIN#29 change to PCH_LAN_WAKE#
<7>, CON22 PIN#31 change to LAN_RST#
<8>, CON22 PIN#30 change to LAN_ISOLATE#
<9>, CON9 PIN#28 change to ACZ_BITCLK
<10>, CON9 PIN#29 change to DMIC_CLK
<11>, CON9 PIN#30 change to DMIC_DATA
<12>, CON22 PIN#28 change to ACZ_SDOUT
<13>, EMI LC solution change to DMIC
<14>, F13-15 change footprint from SMT request
<15>, SCH reserve C2374/C2375 for FI1 S3 resume issue
<16>, CON22 change 44PINs from 40PINs
PAGE20 :<1>, BOM add R2447
<2>, WLAN add U30 to control power from Sony request
<3>, BOM delete R2444/D5 and add R2442 for WLAN reset circuit
<4>, R236 change to +3V_S5_DSW for P/H
<5>, CON13 change to DFHD52MS059
<6>, Change U27 from TPS2557DRBR to G547E1P81U and remove R24444, R2454 100Kohm
<7>, R24445, R2446 change to 100K from 10K for power saving.
<8>, SCH un-mount R2442, R2443, U28, U30, R2451, R2446, Q35, Q34
<9>, SCH mount R24510, R2444
<10>, CON14 change new material and footprint
<11>, SCH un-mount R2441
PAGE22 :<1>, BOM add R24447 and delete R2450
<2>, Add R24460 ,R24461 100K ohm pull down
<3>, Remove reserve resistor , R2450 ,R2384
<4>, Change U29 load switch with discharge function
<5>, SH_ALS_INT# add external P/H with 100K from vendor suggestion.
<6>, U29 PIN1 change +3V_SENSORHUB for optional non CS design
<7>, R24448 PIN2 change +3V_S5 for optional non CS design
<8>, R24447 remove it from SCH
<9>, SCH un-mount U29, C2337, R24453 , C2338
<10>, SCH mount R24448
<11>, SCH un-mount R24460
<12>, R2359, R2361, R2363, R2365, R2367, R2369 mount 10K from vendor suggestion
PAGE23 :<1>, PC17 change to 470p and stuff
<2>, PR25 change to 24.3K
<3>, EC1 and EC2 are added for RF solution
PAGE24 :<1>, SCH delete PG1/PG2 for short PADs
<2>, EC3 /EC4/EC5/EC6 are added for RF solution
PAGE25 :<1>, SCH delete PG3 for short PAD
<2>, SCH delete PR101/PR102/PC65/PQ29/PR98 for fixed 1.35V
<3>, PR99 change to 30.1K for fixed 1.35V
<4>, PC61 no-mount for tCPU13 timing
<5>, EC7 and EC8 are added for RF solution
PAGE26 :<1>, SCH delete PG4 for short PAD
<2>, EC9 and EC10 are added for RF solution
PAGE27 :<1>, SCH add PR230,PR229 for +3V&+5V Load switch thermal protect
<2>, One Shot circuit modify design
PAGE28 : <1>, Change PR231 to 499Kohm
<2>, PR171 change 0 ohm from 6.98K
<3>, SCH add PR232
PAGE29 : <1>, Change PR214 to 113K from 95.3K
<2>, Change PR216 to 33K from 34.8K

DVT->PVT

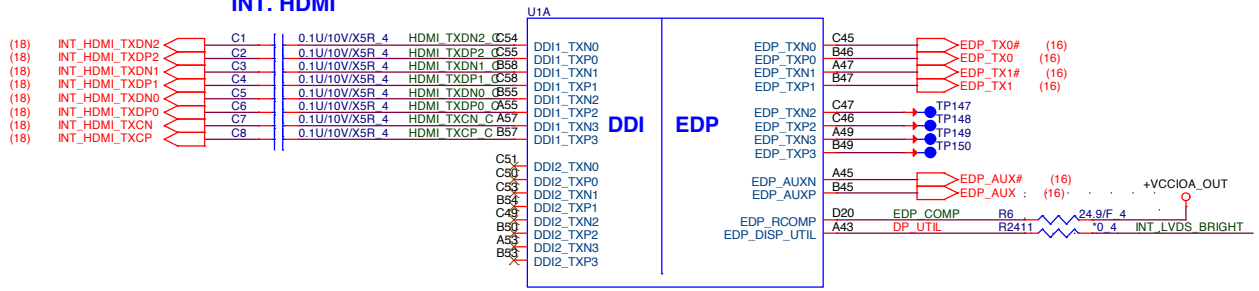
PAGE07 :<1>BOM remove U34/U35/C2371/C2372/C2373
<2> R40/R24513/R24514/R24511/R24512 change short pad
<3> SCH add C2388/C2389/C2390 for RF request
PAGE08 :SCH add Q46/R24522 for no power on issue
PAGE10 :R95/R96/R97/R98/R2358 change short pad
PAGE11 :R308/R306 change non-mount
PAGE12 :R137/R138/R139 change short pad
PAGE13 :<1> R161/R163/R2431 change short pad
<2> SCH add C2391/C2392 for RF request
PAGE14 :<1> H2/H3 delete them
<2> SCH add C2393 for RF request
PAGE15 :<1>KR25 change short pad
<2> EC GPIO85 add EC_RTC_RST for workaround solution
<3> SCH delete KR28 and EC delete MODE_LID# signal
PAGE16 :<1> Change footprint of F2 to "CC1812" due to SMT issue
<2> R24449/R329/R2438 change short pad
<3> SCH delete F6/C296/C297 for old D-MIC power circuit
<4> SCH add R24523/R24524/R24525/U37/C2385/C2386/C2387 for new D-MIC power circuit
<5> CON6. PIN21 delete MODE_LID# signal
<6> CON6. PIN25 delete Vin
<7> R24457/R24459 mount them
<8> SCH reserve D13
<9> C294/C295 change non-mount for DIM noise issue
PAGE17: <1> RUN_ON_5V add R24526 for P/D
<2> C2355 change 4700PF
PAGE19: CON9 fooitprint change 50506-03041-001-30p-l from 50528-03001-v01-30p-l
PAGE20: R2447 change short pad
PAGE21: <1> R261/R264 change 120 ohm
<2> R263 change 220 ohm
<3> R262 change 100 ohm
PAGE22: R2374/R2385 change short pad
PAGE23: PR3/PR227/PR5/PR24/PR26 change short pad
PAGE24: PR39/PR228/PR53/PR86/PR47/PR54/PR37/PR48 change short pad
PAGE25: <1> SCH add C2394 for RF request
<2> PR95/PR97/PR100 change short pad
PAGE26: PR106/PR114 change short pad
PAGE27: <1> PR117 change short pad
<2> PR149 change 330K from 374K
PAGE28: PR167 change 680K from 470K
PAGE29: SCH add PC132

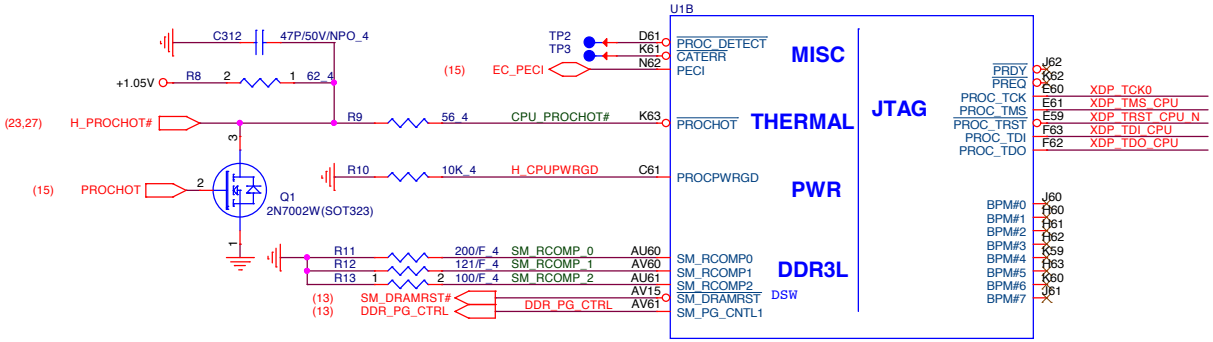
PVT->MP

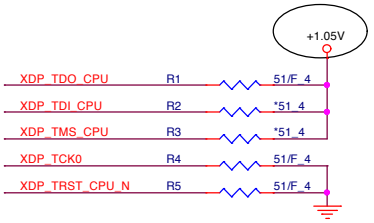
PAGE08 :<1>Q46&R24522 stuff them
PAGE10 :<1>Add damping resistors(R24527~R24531) on LPC signal
<2>Add LPC_A0_1, LPC_A1_1, LPC_A2_1, LPC_A3_1, LPC_FRAME#_1
PAGE12 :<1>Change the QPN of C2362 to CH4473Z3B00
PAGE16 :<1>Change the footprint of F2 (same as DVT)
<2>VIN_LVDS reserve C2403/C2404 for ADP power noise test
PAGE17 :<1>Change C2360, C2361, C2363, C2364 from 0.01uf to 0.1uf
<2>Change location from R24486, R24488, R24490, R24491 to C2399~C2402
<3>Reserve R24532~R24535 for co-layout PS8713
<4>Change value of R24498 & R24499 from 0ohm to 4.99K
<5>Change value of R24532 from 4.99K to 4.32K & R24499 unstuff, R24497 stuff, R24507 unstuff, R24536 unstuff for PS8713 setting
<6>Change U33 from SN65LVPE502ARGER to PS8713BTQFN24GTR2-A1
<7>Change the QPN of CON16 to DFHS22FR406
PAGE18 :<1>Change R212 from 10K/F to 24.25K/F, Change R208 from 68K/F to 57.51K/F
<2>Change R218 from 10K/F to 33.09K/F, Change R216 from 113K/F to 78.94K/F
PAGE19 :<1>Change the footprint of CON9 (same as DVT)
PAGE20 :<1>Add LPC_A0_1, LPC_A1_1, LPC_A2_1, LPC_A3_1, LPC_FRAME#_1
PAGE21 :Change pins of CON23 from 8pins to 15pins due to place the e-compass sensor on LED/B
PAGE22 :Move U23 from MB to LED/B

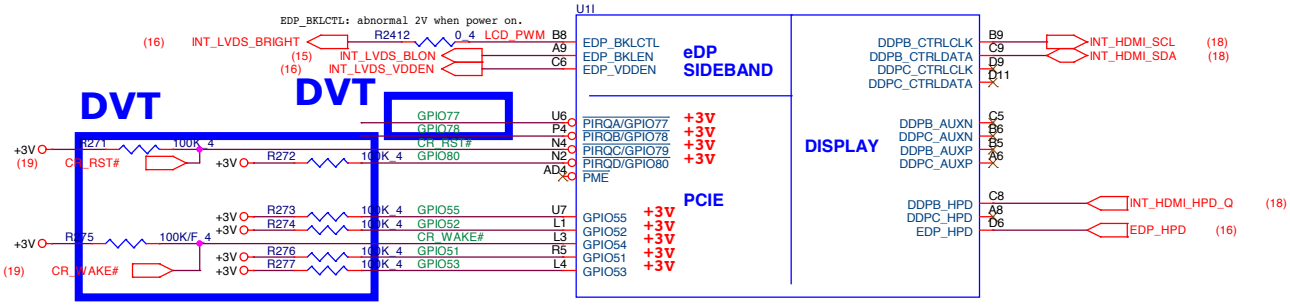
Haswell ULT (DISPLAY)

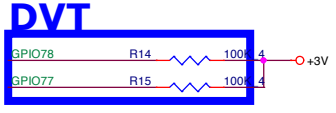
INT. HDMI











1.Level 1 Environment-related Substances Should Never be Used.

Quanta Computer Inc.		
PROJECT : FI2		
Size	Document Number: HSW MCP(Display/eDP)	Rev: 1A
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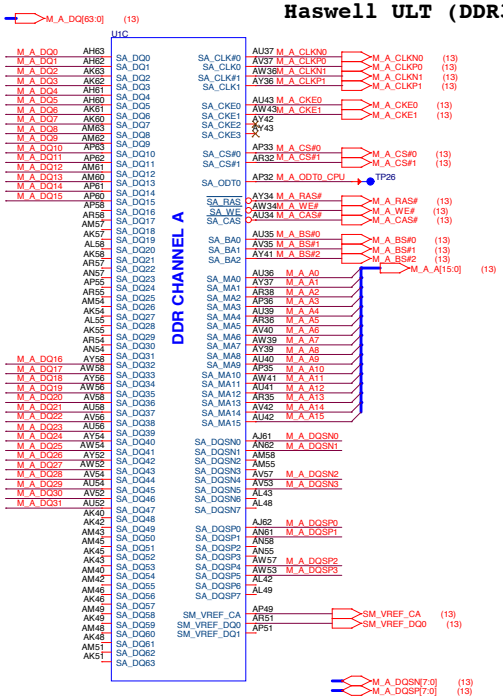
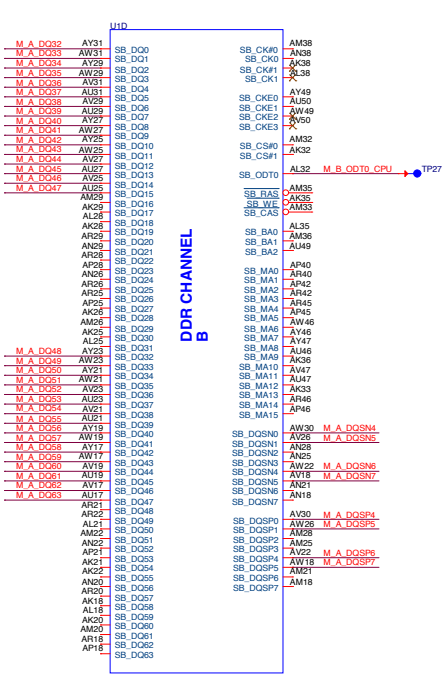
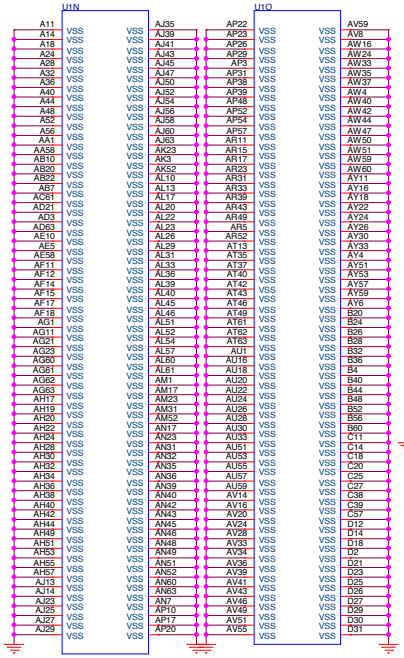
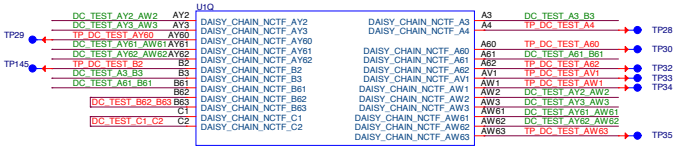
Haswell ULT (DDR3L)





HSW ULT(GND)

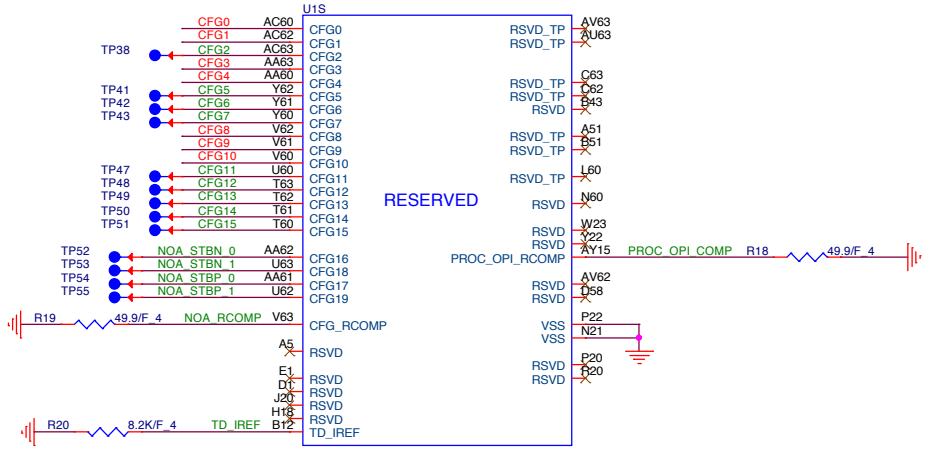




1.Level 1 Environment-related Substances Should Never be Used.
2.Recycled Resin and Coated Wire should be procured from Green Partners.

Quanta Computer Inc.
PROJECT :FI2

Size	Document Number	Rev
	HSW MCP(MEMORY/GND)	1A
Date: Wednesday, August 14, 2013	Sheet 5 of 33	



Processor Strapping

	1	0	
CFG0 EAR-STALL/NOT STALL RESET SEQUENCE AFTER PCU PLL IS LOCKED	(DEFAULT) NORMAL OPERATION; NO STALL	STALL	CFG0 R21 *1K_4
CFG1 PCH/ PCH LESS MODE SELECTION	(DEFAULT) NORMAL OPERATION	PCH-LESS MODE	CFG1 R22 *1K_4
CFG3 PHYSICAL_DEBUG_ENABLED (DFX PRIVACY)	DISABLED	ENABLED SET DFX ENABLED BIT IN DEBUG INTERFACE MSR	CFG3 R23 *1K_4
CFG4 DISPLAY PORT PRESENCE STRAP	DISABLED NO PHYSICAL DISPLAY PORT ATTACHED TO EMBEDDED DISPLAY PORT	ENABLED; NOA WILL BE AVAILABLE REGARDLESS OF THE LOCKING OF THE UNIT	CFG4 R24 1K_4
CFG 8 ALLOW THE USE OF NOA ON LOCKED UNITS	DISABLED(DEFAULT); IN THIS CASE, NOA WILL BE DISABLED IN LOCKED UNITS AND ENABLED IN UN-LOCKED UNITS	ENABLED AN EXTERNAL DISPLAY PORT DEVICE IS CONNECTED TO THE EMBEDDED DISPLAY PORT	CFG8 R25 *1K_4
CFG9 NO SVID PROTOCOL CAPABLE VR CONNECTED	VRS SUPPORTING SVID PROTOCOL ARE PRESENT	NO VR SUPPORTING SVID IS PRESENT. THE CHIP WILL NOT GENERATE (OR RESPOND TO) SVID ACTIVITY	CFG9 R26 *1K_4
CFG10 SAFE MODE BOOT	POWER FEATURES ACTIVATED DURING RESET	POWER FEATURES (ESPECIALLY CLOCK GATINE ARE NOT ACTIVATED	CFG10 R27 *1K_4

1.Level 1 Environment-related Substances Should Never be Used.

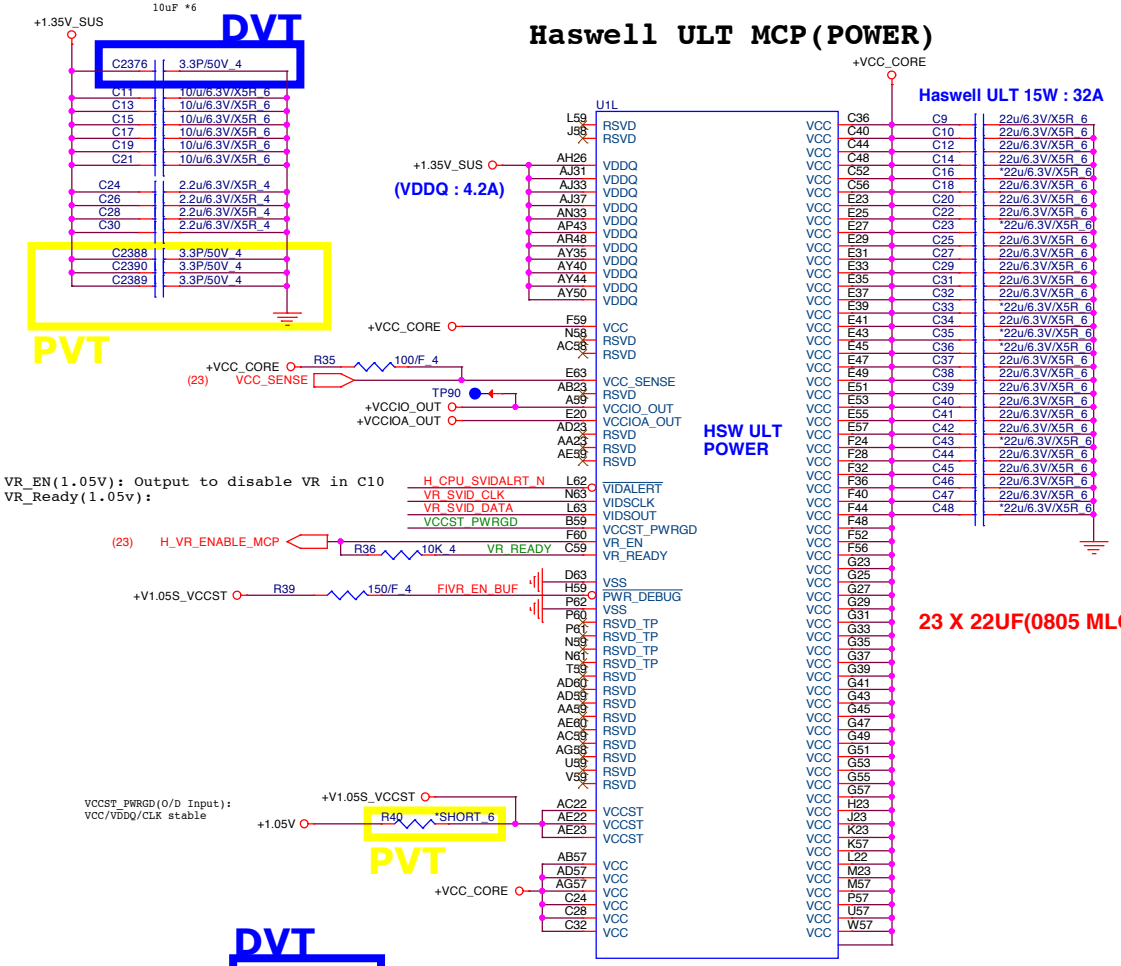
Partners.

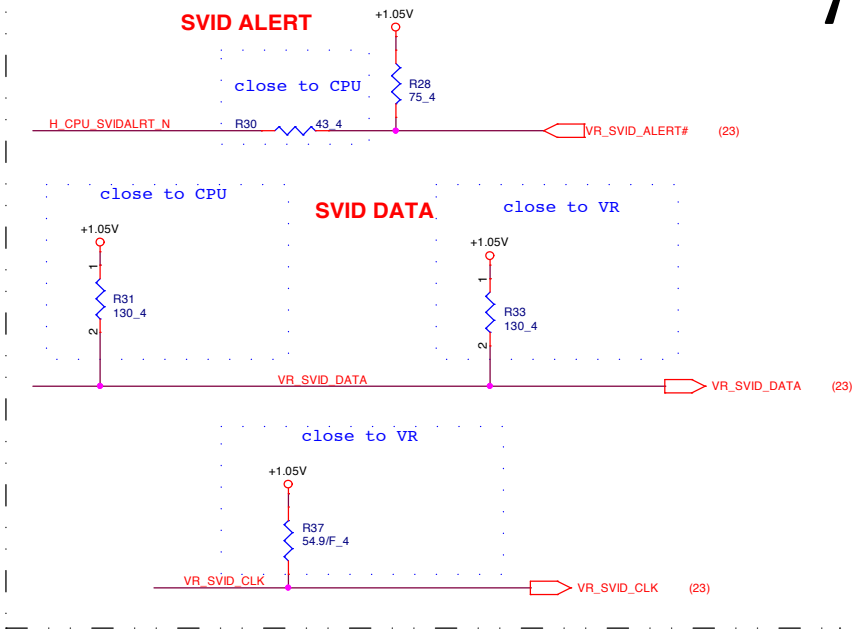
Quanta Computer Inc.

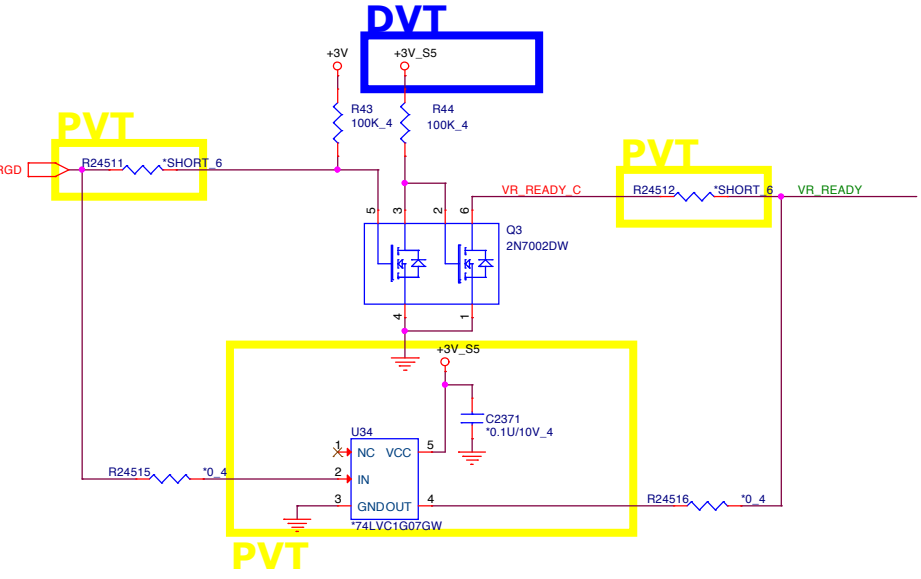
PROJECT : FI2

Size	Document Number	Rev
	HSW MCP(CFG/PwrMGT)	1A
Date: Wednesday, August 14, 2013	Sheet 6 of 33	

Haswell ULT MCP(POWER)







1.Level 1 Environment-related Substances Should Never be Used.

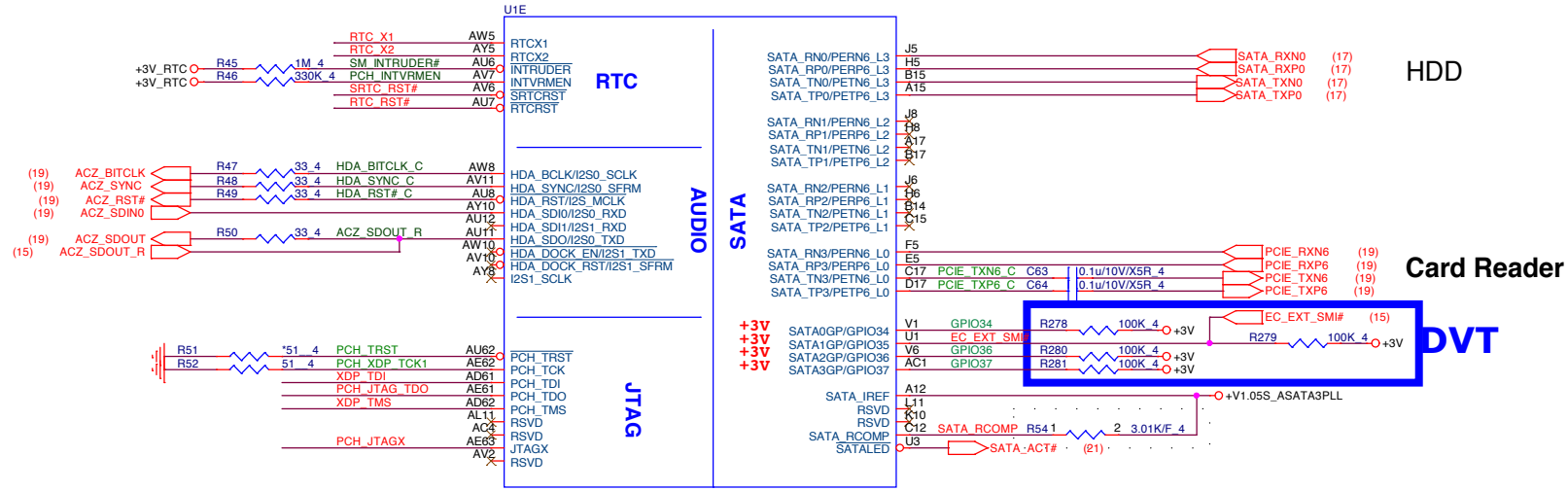
Quanta Computer Inc.

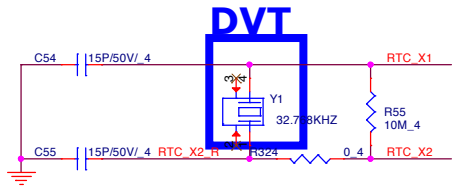
PROJECT : FI2

Size	Document Number	Rev
	HSW MCP(Power)	1A

Date: Wednesday, August 14, 2013 Sheet 7 of 33

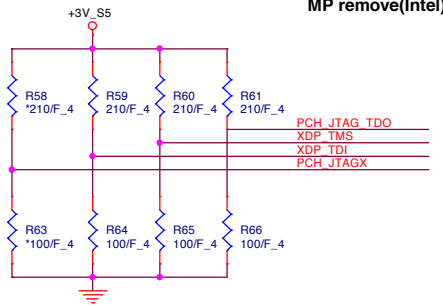
Haswell ULT (RTC, HDA, JTAG, SATA)



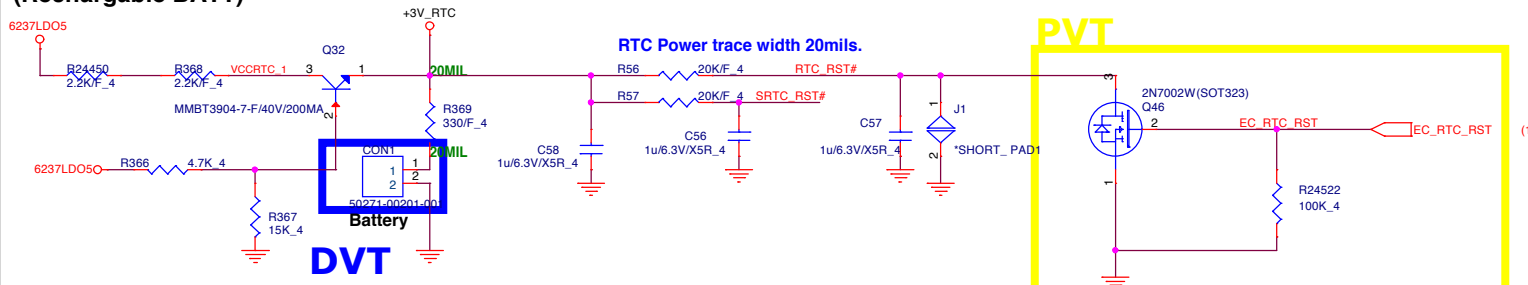


PCH JTAG Debug (CLG)

MP remove(Intel)



RTC Circuitry (RTC) (Rechargable BATT)



PCH Strap Table

Pin Name	Strap description	Sampled	Configuration	note
SPKR	No reboot mode setting	PWROK	0 = Default (weak pull-down 20K) 1 = Setting to No-Reboot mode	+3V R67 *1K_4 SPKR (11,19)
HDA_SDO	Flash Descriptor Security Override / Intel ME Debug Mode	PWROK	0 = Security Effect (Int PD) 1 = Can be Override	
INTVRMEN	Integrated 1.05V VRM enable	ALWAYS	Should be always pull-up	

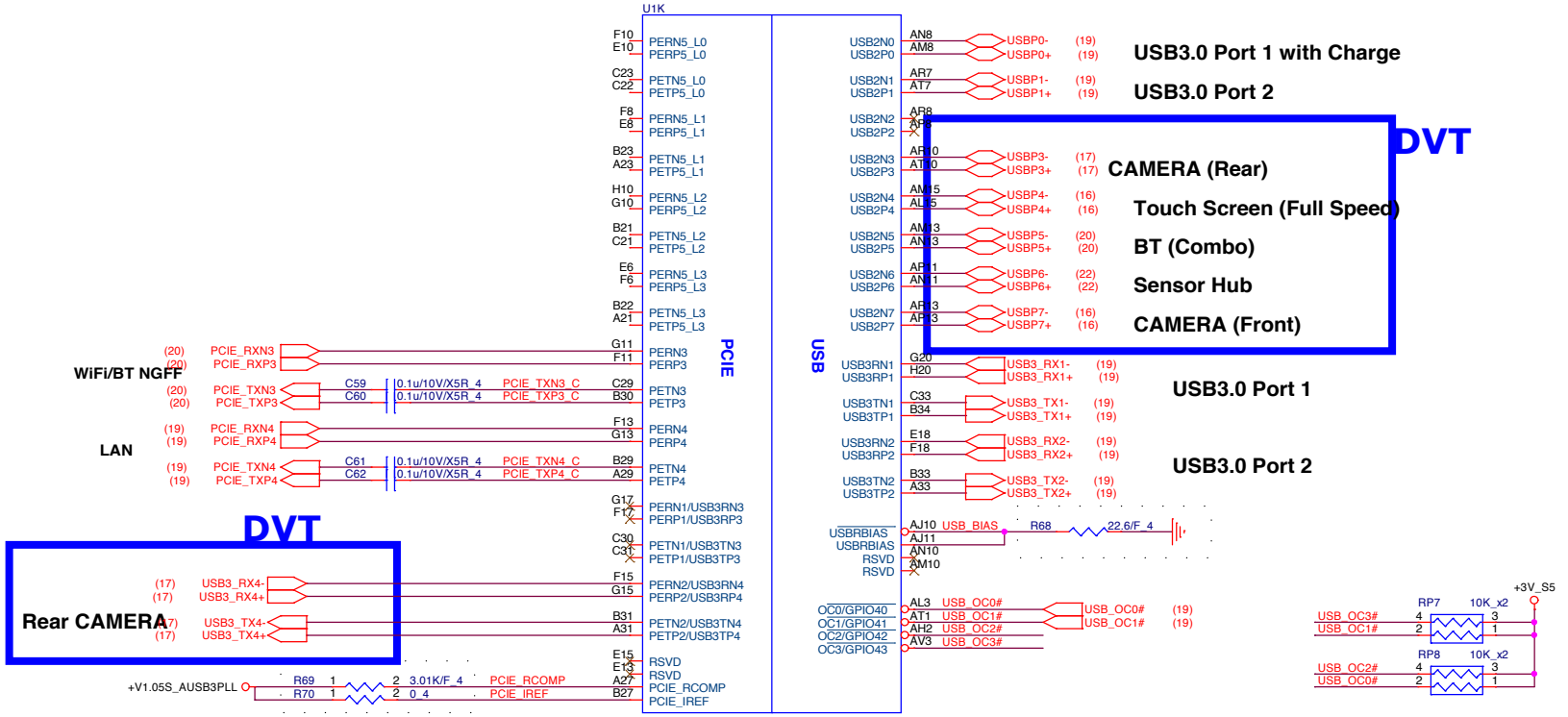
1.Level 1 Environment-related Substances Should Never be Used.

Quanta Computer Inc.
PROJECT : FI2

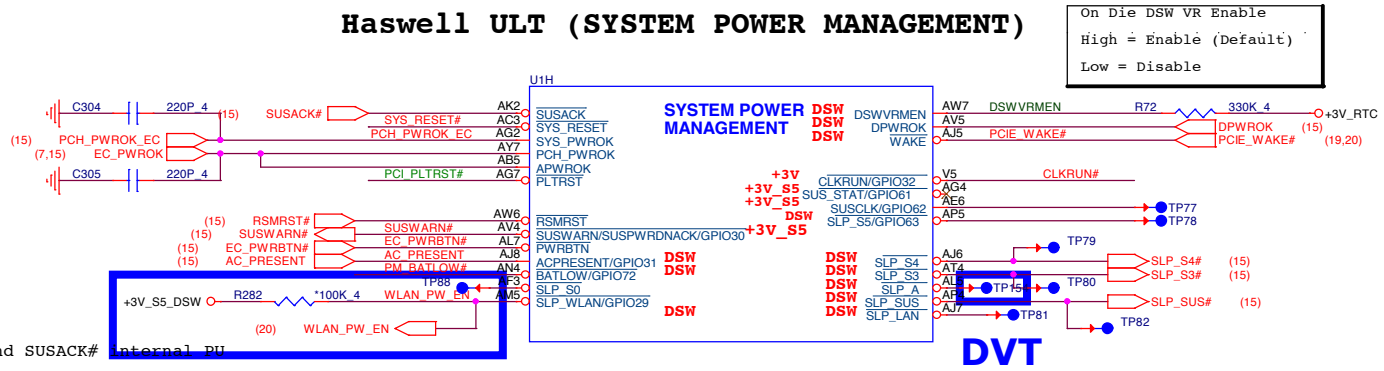
Size	Document Number	Rev
	HSW PCH(RTC/HDA/SATA)	1A

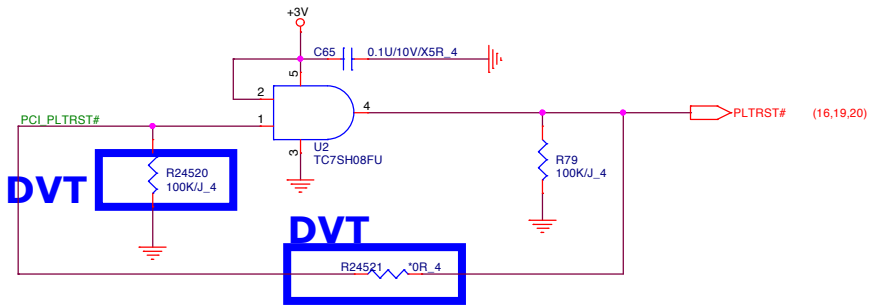
Date: Wednesday, August 21, 2013 Sheet 8 of 33

Haswell ULT (PCIE,USB)

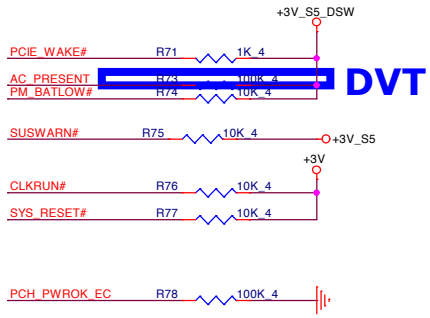


Haswell ULT (SYSTEM POWER MANAGEMENT)



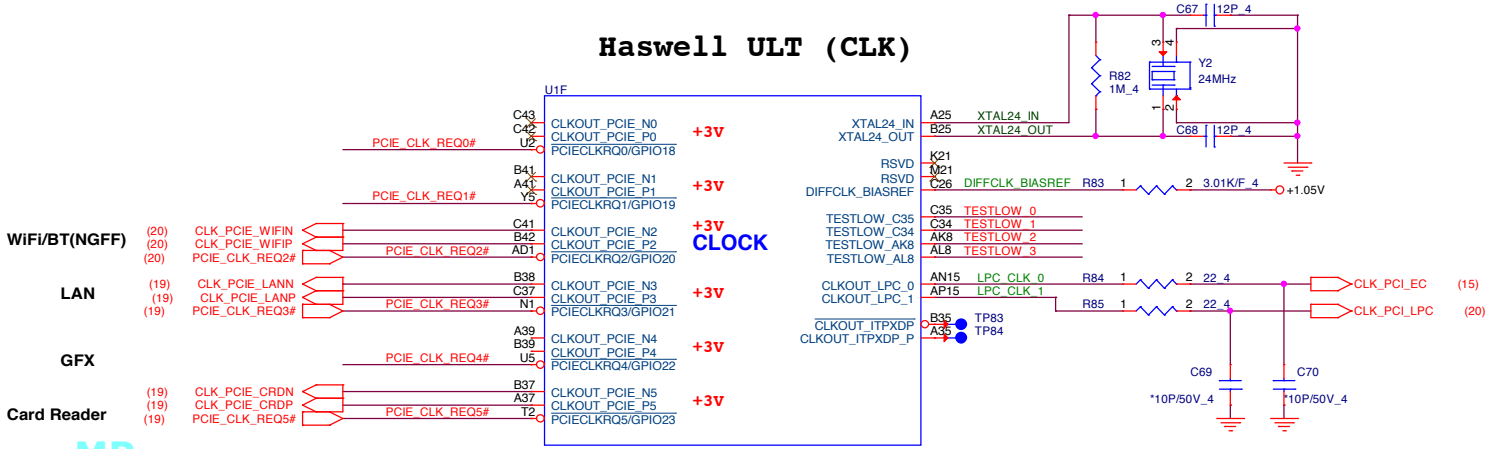


PCH Pull-high/low(CLG)

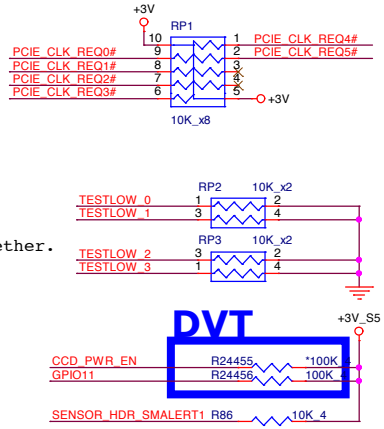


Quanta Computer Inc.	PROJECT : FI2	
Size	Document Number: HSW PCH(PCIE/USB)	Rev: 1A
Date: Wednesday, August 14, 2013	Sheet 9 of 33	

Haswell ULT (CLK)

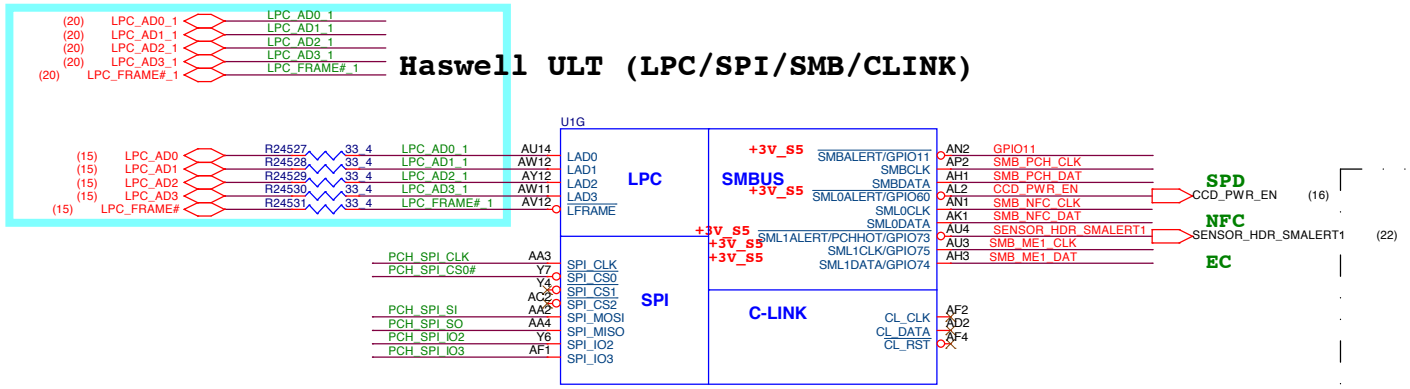


Do not short
the testlow pins together.

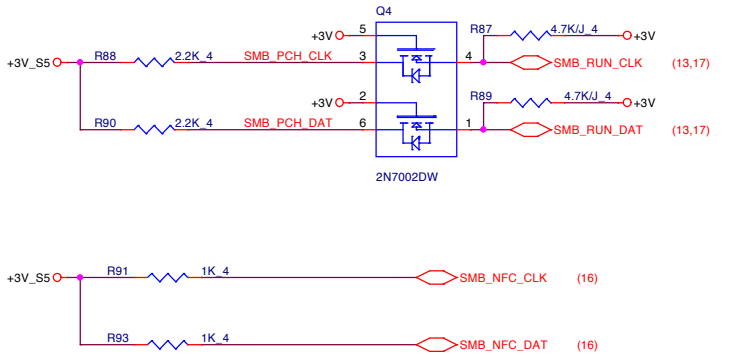


MP

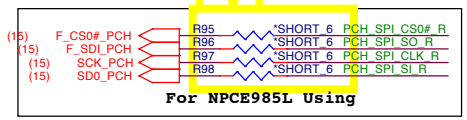
Haswell ULT (LPC/SPI/SMB/CLINK)



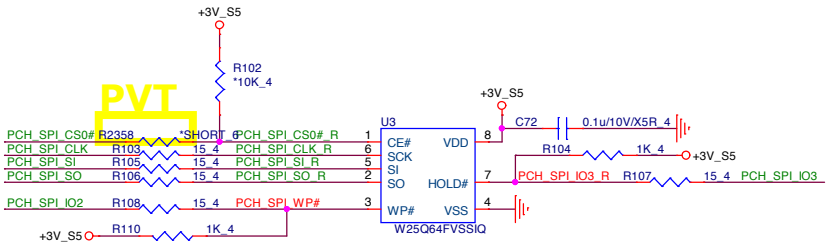
SMBus/Pull-up(CLG)



PVT



SPI FLASH



1.Level 1 Environment-related Substances Should Never be Used.

Quanta Computer Inc.
PROJECT : FI2

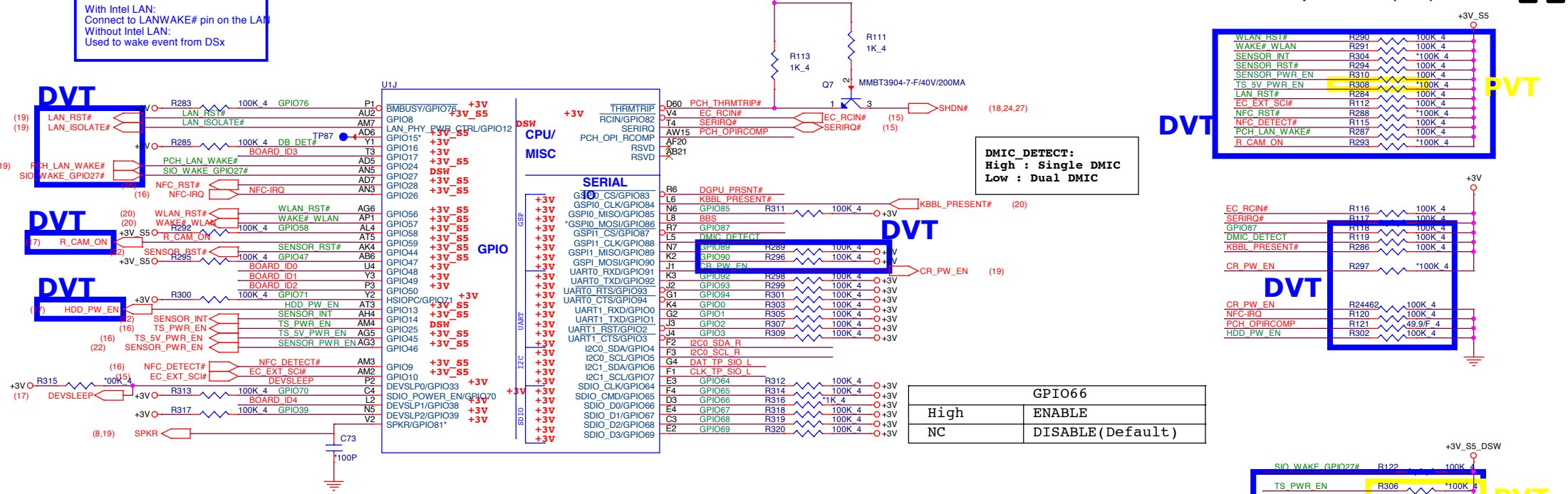
Size	Document Number	Rev
	HSW PCH(CLK/LPC/SPI/SMB)	1A
Date: Wednesday, August 14, 2013	Sheet 10 of 33	

Haswell ULT(GPIO,LPIO,MISC)

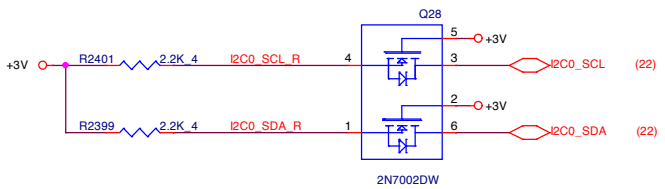
GPIO27

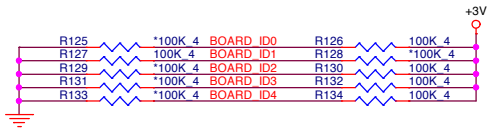
With Intel LAN:
Connect to LANWAKE# pin on the LAN
Without Intel LAN:
Used to wake event from DSx

GPIO Pull-up/Pull-down(CLG)



GPIO66	
High	ENABLE
NC	DISABLE(Default)





GPIO86	
PU	LPC
PD	SPI (Default IPD)

No Reboot Strap(GPIO81)	
NC	Default
PU	EN

TLS CONFIDENTIALITY STRAP(GPIO15)	
NC	Default
PU	EN

R127(Low) R128(High) R125(Low) R126(High)

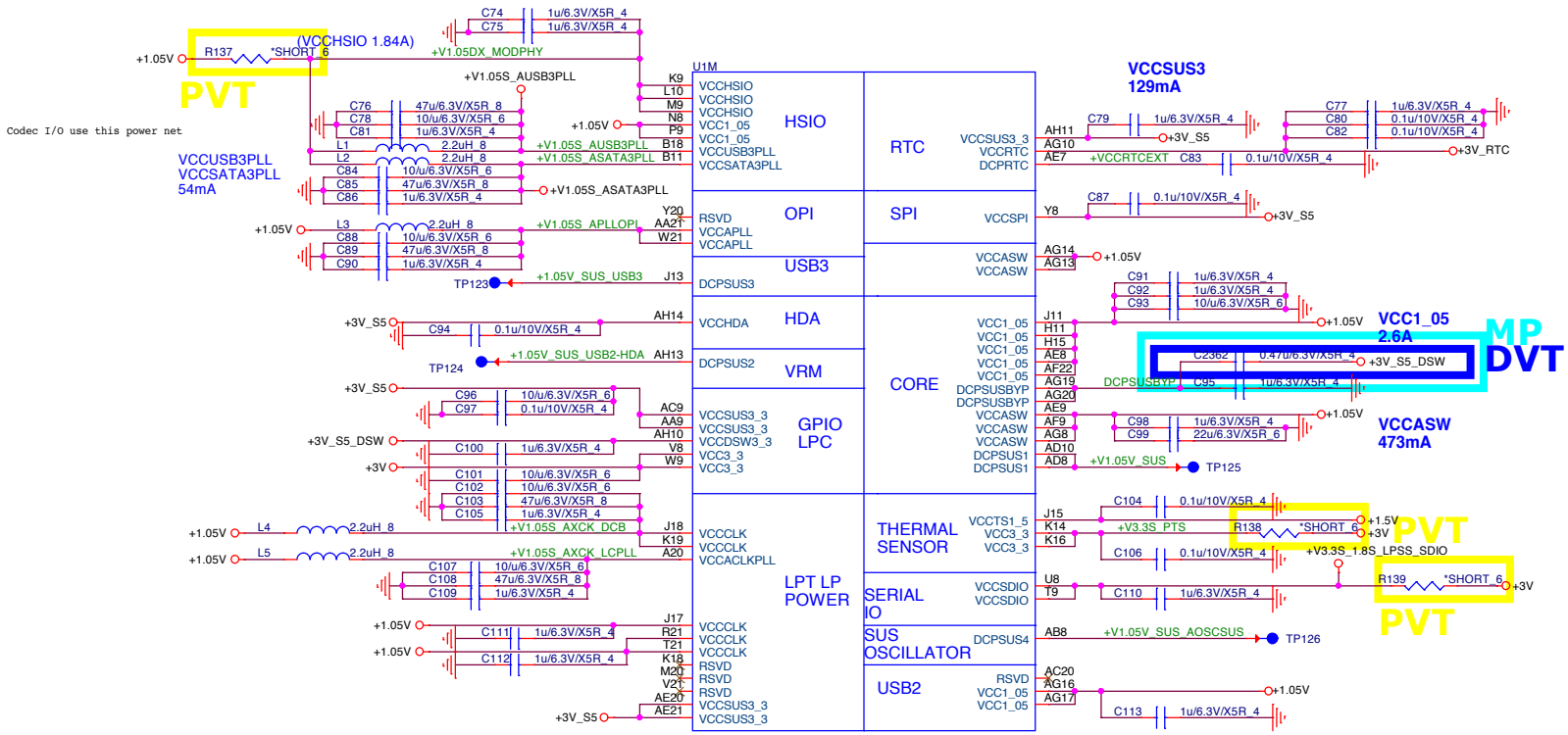
	Board ID1	Board ID0
Mule FI1	0	0
HuronSHA1 FI2	0	1
HuronSHB1 FI3_UMA	1	0
HuronSHB1 FI3_DGPU	1	1

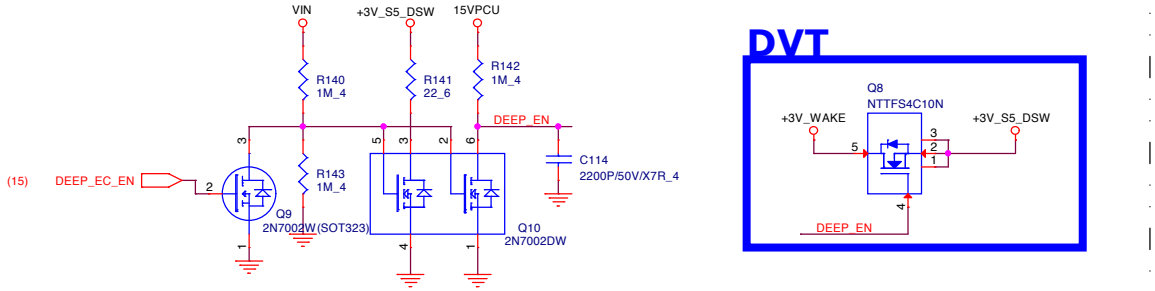
PCBA SKU	Discrete	UMA
R135(Pull High)	Stuff	No Stuff
R136(Pull Low)	No Stuff	Stuff

Quanta Computer Inc.
PROJECT : FI2

Size	Document Number	Rev
	HSW PCH(GPIO/LPIO/MISC)	1A

Date: Wednesday, August 14, 2013 Sheet 11 of 33

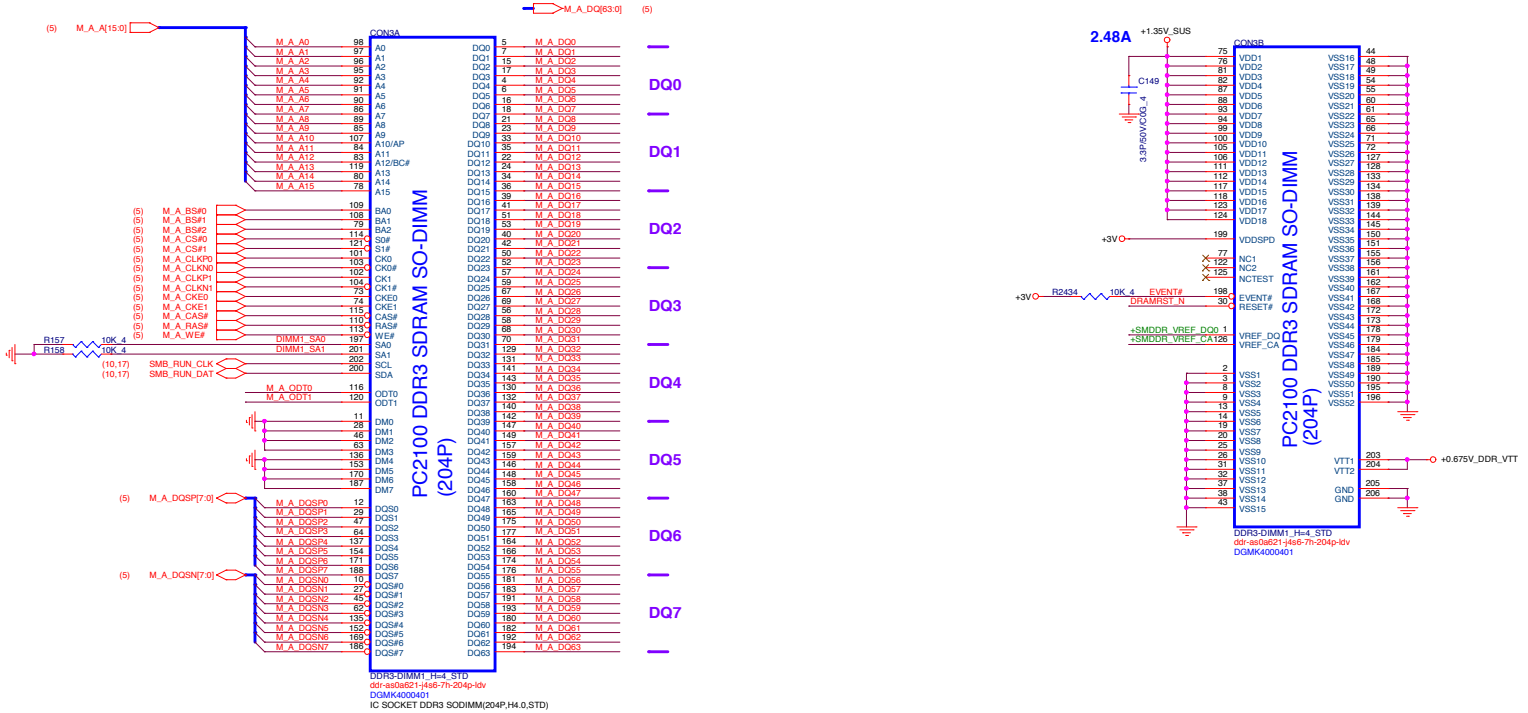


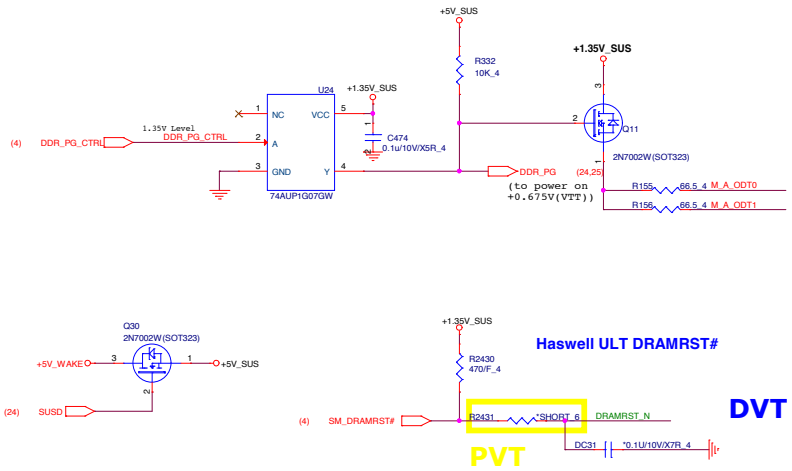


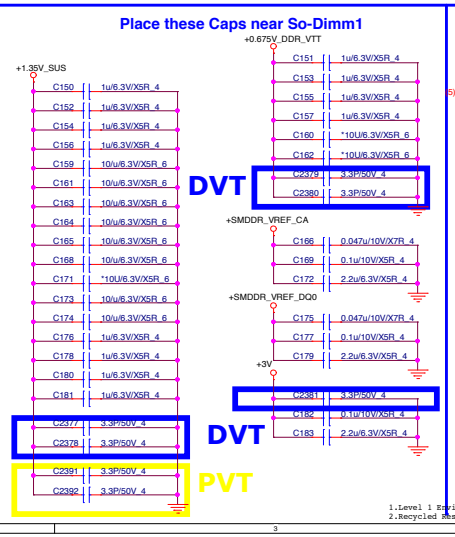
1.Level 1 Environment-related Substances Should Never be Used.

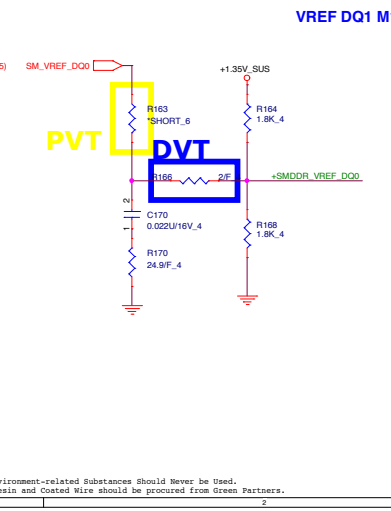
Quanta Computer Inc.
PROJECT : FI2

Size	Document Number	Rev
	HSW PCH(Power)	1A
Date: Friday, August 23, 2013	Sheet 12 of 33	









1.Level 1 Environment-related Substances Should Never be Used.
2.Recycled Resin and Coated Wire should be procured from Green Partners.

Quanta Computer Inc.
PROJECT :FI2

Size	Document Number	Rev
	DDR3L DIMM0-STD 4H (CH-A)	1A
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HOLE

PVT

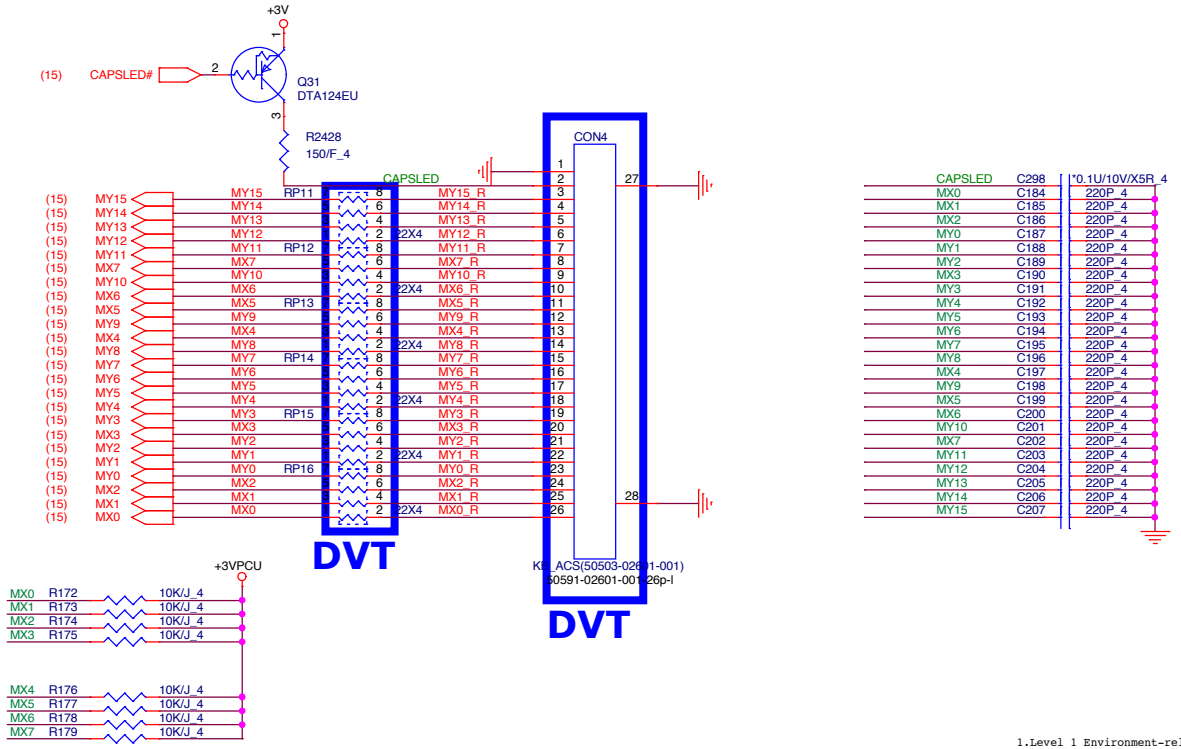
H4 *H-C256D148P2
H5 *H-C256D148P2
H6 *H-C256D148P2
H7 *H-TC197BC217D91P2
H8 *H-C197D91P2
H9 *H-C197D91P2

DVT

H10 *H-C256D138P2
H20 *O-FI2-4-1
H21 *o-fi2-3
H-C256D138P2
H18 *O-FI2-6
H19 *h-tc91bc217d91p2

H11 *O-FI2-1
H12 *O-FI2-1
H13 *O-FI2-4
H14 *O-FI2-4
H15 *O-FI2-4
H16 *O-FI2-5
H17 *O-FI2-7

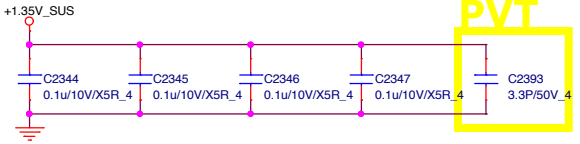
KEYBOARD Connector

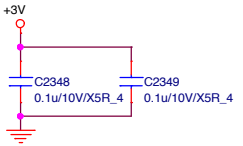


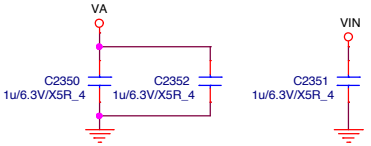
CAPSLED		*0.1U/10V/X5R_4
MX0	C184	220P_4
MX1	C185	220P_4
MX2	C186	220P_4
MY0	C187	220P_4
MY1	C188	220P_4
MY2	C189	220P_4
MX3	C190	220P_4
MY3	C191	220P_4
MY4	C192	220P_4
MY5	C193	220P_4
MY6	C194	220P_4
MY7	C195	220P_4
MY8	C196	220P_4
MX4	C197	220P_4
MY9	C198	220P_4
MX5	C199	220P_4
MX6	C200	220P_4
MY10	C201	220P_4
MX7	C202	220P_4
MY11	C203	220P_4
MY12	C204	220P_4
MY13	C205	220P_4
MY14	C206	220P_4
MY15	C207	220P_4

EMI

PVT







1.Level 1 Environment-related Substances Should Never be Used.
2.Recycled Resin and Coated Wire should be procured from Green Partners.

Quanta Computer Inc.
PROJECT : FI2

Size	Document Number	Rev
	HOLE/EMI/KB	1A
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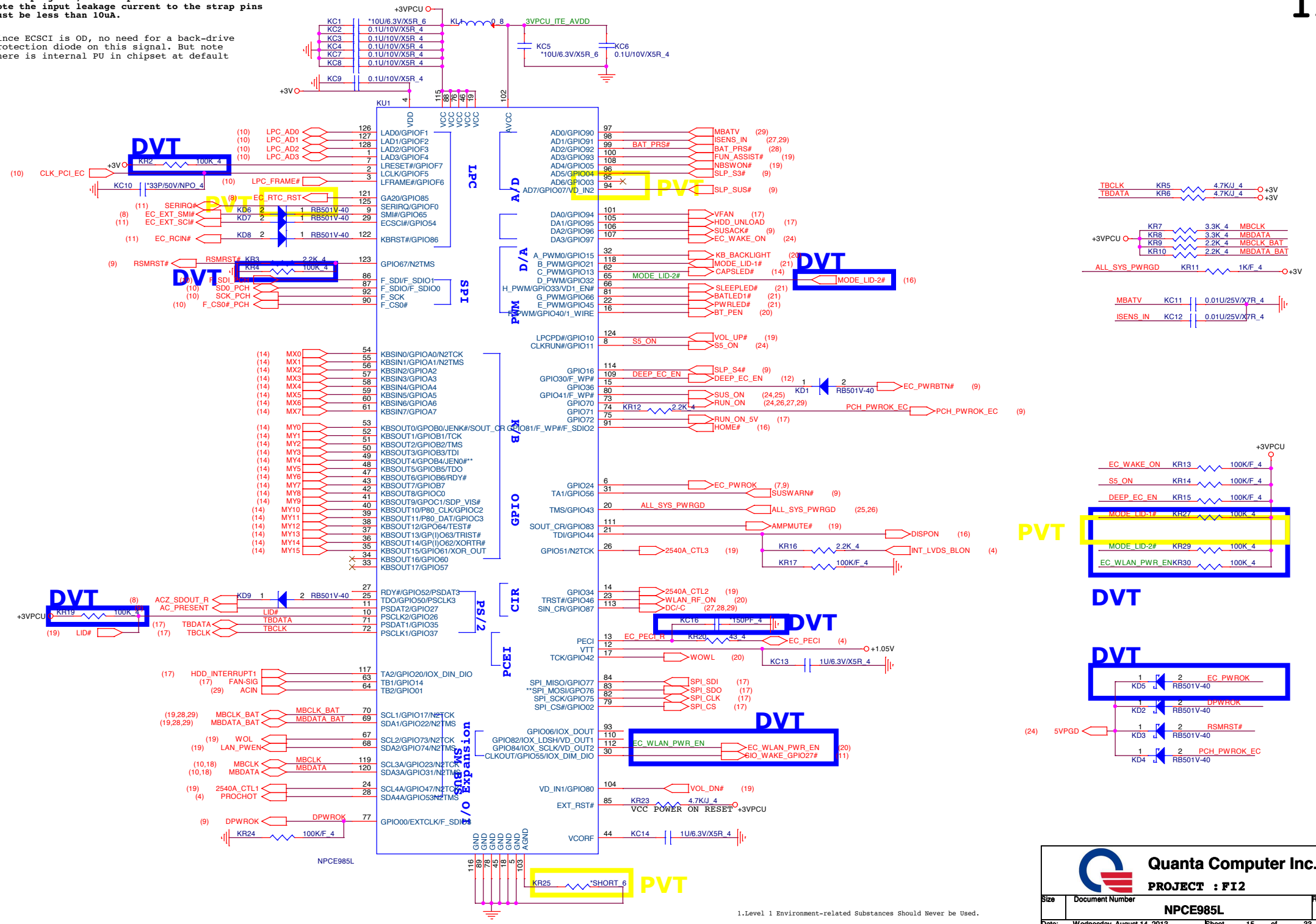
New ADD

**** Straping Pin,Can not pull low.**
Note the input leakage current to the strap pins must be less than 10uA.

Since ECSCI is OD, no need for a back-drive protection diode on this signal. But note there is internal PU in chipset at default



DVT

+3V_TOUCHSCREEN

C208 1U/6.3V/X5R_4

U5

+3V_WAKE

R24452 40.2K/F_4

R2437 0_4

TS_PWR_EN (11)

IN OUT SET GND EN FLAG

G527ATP1U

+3V_TOUCHSCREEN

C210 0.1U/10V/X5R_4

PVT

R24457 100K_4

Current limit
Typ:1A(880mA~1120mA)

DVT

USB Camera Power

C291 1U/6.3V/X5R_4

U18

+3V_WAKE

R24451 40.2K/F_4

R2438 *short_4

CCD_PWR_EN (10)

EVT-2013-05-06

IN OUT SET GND EN FLAG

G527ATP1U

300mA

C292 C293 1U/6.3V/X5R_4 0.1U/10V/X5R_4

+CCD_PWR

PVT

R24458 100K_4

Current limit
Typ:1A(880mA~1120mA)

Camera HD specification
Voltage: Max. 3.6V
Current : Max. 200mA
OCP: 200mA ~ 300mA

DVT

C2331 1U/6.3V/X5R_4

U26

+5V_WAKE

R382 40.2K/F_4

R2452 0_4

TS_5V_PWR_EN (11)

D13 *1SS355/80V/100MA

IN OUT SET GND EN FLAG

G527ATP1U

C2333 C2332 1U/6.3V/X5R_4 0.1U/10V/X5R_4

+5V_TS

PVT

R24459 100K_4

Current limit
Typ:1A(880mA~1120mA)

+3V_LIDPWR

+3VPCU

F7 POLY SWITCH 0.25A

C2318 1U/6.3V/X5R_4

+3V_SENSORHUB

F8 POLY SWITCH 0.25A

C2319 1U/6.3V/X5R_4

+3V_ALSPWR

eDP

FAST,UL/CSA

DVT

CON6

eDP_TX1# (4) eDP_TX1 (4) C217 C216 0.1U/10V/X5R_4 eDP_TX1#_C eDP_TX1_C

eDP_TX0# (4) eDP_TX0 (4) C215 C214 0.1U/10V/X5R_4 eDP_TX0#_C eDP_TX0_C

eDP_AUX (4) eDP_AUX# (4) C212 C213 0.1U/10V/X5R_4 eDP_AUX_C eDP_AUX#_C

LCDVCC

R184 100K/F_4

eDP_HPD (4)

R181 10K/F_4 (15) DISPON

INT_LVDS_BRIGHT (4)

C211 0.1U/25V/X7R_6 VIN_LVDS

F2 POLY SWITCH(2A) VIN

+3V_LIDPWR

+5V_TS

+3V_TOUCHSCREEN

C209 1U/6.3V/X5R_4

DMIC_DATA (19) DMIC_CLK (19)

L12 L11 0_6 DMIC_DATA_1 0_6 DMIC_CLK_1

HOME# (15)

SH_ALS_INT# (22)

I2C_1_SCL_HUB_3P3 (21,22)

I2C_1_SDA_HUB_3P3 (21,22)

USBP4+ USBP4- USBP7- USBP7+

+3V_ALSPWR +5V_DMIC +CCD_PWR

MODE_LID-2# (15)

LVDS_CLX(CVS5402M1RA-NH)

vds-50406-04071-001-40p-r

DVT

C2382 3.3P/50V_4

C220 0.1U/10V/X5R_4

+3V

NB LVDS enable

U6

IN IN ON/OFF OUT GND GND

AAT4280AIGU-4-T1/G5243AT11U

INT_LVDS_VDDEN (4)

R183 100K/F_4

DVT

LCDVCC

C2383 3.3P/50V_4

C223 0.1U/10V/X5R_4

C224 0.1U/10V/X5R_4

C225 4.7U/6.3V_6

C226 0.01U/25V/X7R_4

C227 22U/6.3V/X5R_8

C228 *22U/6.3V/X5R_8

C2384 3.3P/50V_4

AU LCDVCC:
I rush = 2A/0.5ms
IDD = 0.3A

DVT

DMIC

+3V

C2385 1U/6.3V/X5R_4

U37

+5V_WAKE

R24523 40.2K/F_4

R24524 0_4

IN OUT SET GND EN FLAG

G527ATP1U

C2386 C2387 1U/6.3V/X5R_4 0.1U/10V/X5R_4

+5V_DMIC

R24525 100K_4

Current limit
Typ:1A(880mA~1120mA)

PVT

PVT MP

MP

VIN_LVDS

C2403 *0.22U/25V/X5R_6

C2404 *0.22U/25V/X5R_6

Camera (9) (9)

USBP7- USBP7+ L10 *WCM2012-90 USBP7- USBP7+

Touch Screen (9) (9)

USBP4- USBP4+ L13 *WCM2012-90 USBP4- USBP4+

DMIC_CLK C294 *220P_4

DMIC_DATA C295 *220P_4

DVT

PVT

DVT

PVT

NFC

CON7

C231 0.1U/10V/X5R_4

+3V_S5

F4 POLY SWITCH 0.35A

+3V_NFC

DVT

NFC_RST_BUFF#

PVT

R24449 *SHORT_6

C309 *220P_4

(11) NFC_DETECT#

(10) SMB_NFC_CLK R321 0_4 SMB_NFC_CLK_R

(10) SMB_NFC_DAT R322 0_4 SMB_NFC_DAT_R

C307 *220P_4 C306 *220P_4

(11) NFC-IRQ

C308 *220P_4

R329 *SHORT_6

PVT

C232 0.1U/10V/X5R_4 +3V_NFC

15 MOD_GND SHIELD 17

14 VDD_IO

13 MOD_VDD

12 SWP_PWR

11 NC/Float

10 Reset/Wake UP

9 MOD_GND

8 I2C-SCL

7 I2C-SDA

6 VDD-SIM

5 IRQ

4 MOD_GND

3 SWP

2 MOD_GND

1 MOD_VDD

16 SHIELD

(9,19,20)

(11)

NFC(50501-01541-001)

+3V_S5

PLTRST# (9,19,20)

NFC_RST# (11)

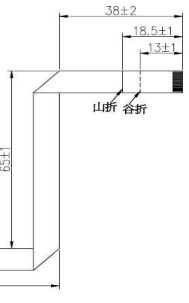
R24519 100K/J_4

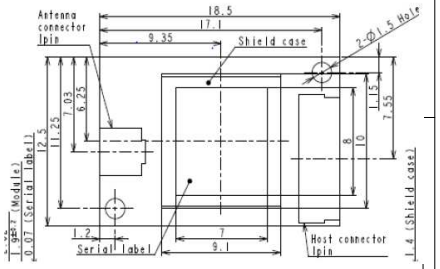
U36 TC7SH08FU

NFC_RST_BUFF#

DVT

DVT





NFC module :
Vender : Samsung SNC-i20
Power consumption : Max. 160mW/48mA
Power Ripple +/- 50mV

1.Level 1 Environment-related Substances Should Never be Used.
2.Recycled Resin and Coated Wire should be procured from Green Partners.

Quanta Computer Inc.
PROJECT :FI2

Size	Document Number	Rev
	EDP\NFC	1A
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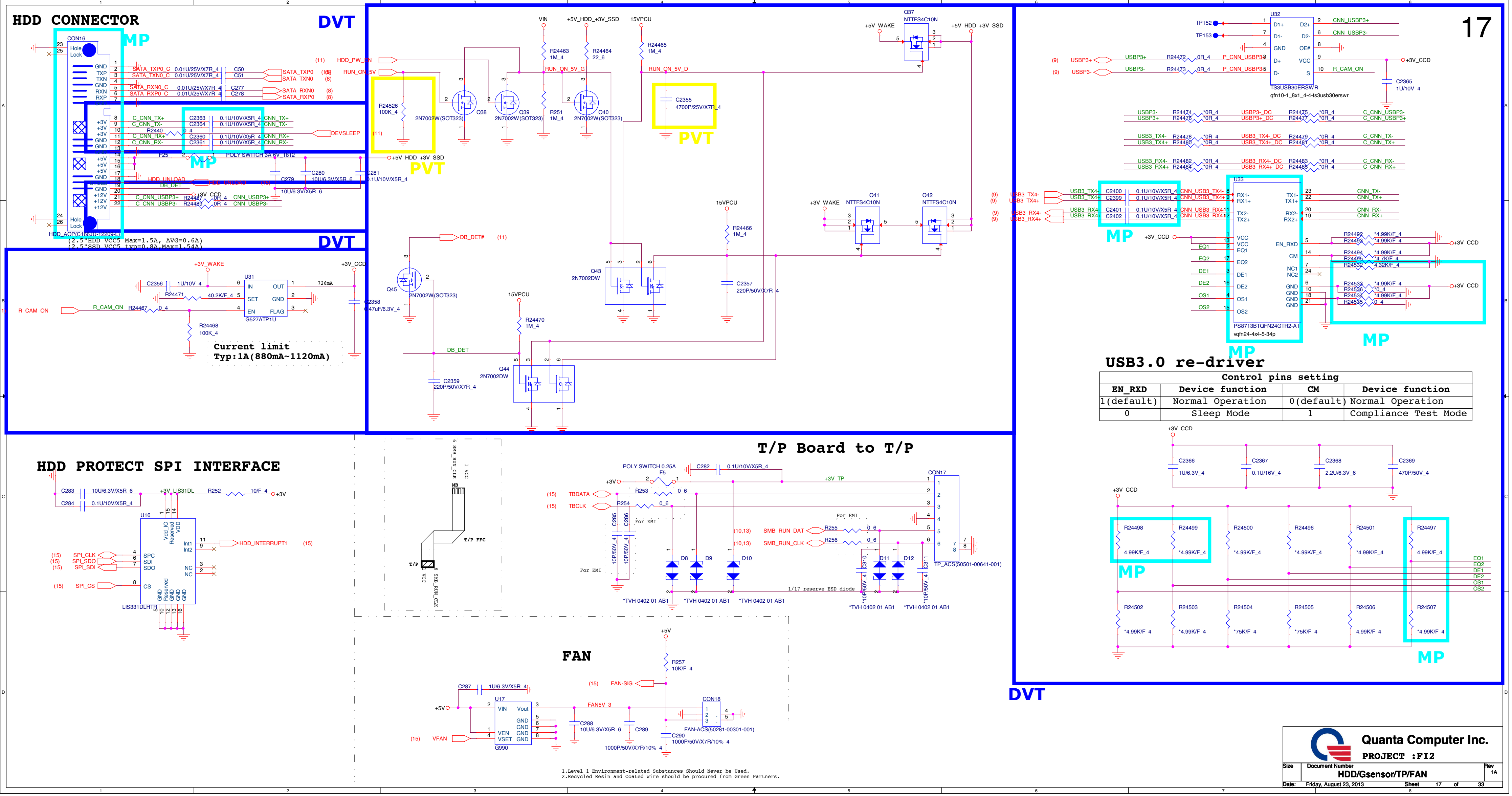


Control pins setting

EN_RXD	Device function	CM	Device function
1(default)	Normal Operation	0(default)	Normal Operation
0	Sleep Mode	1	Compliance Test Mode

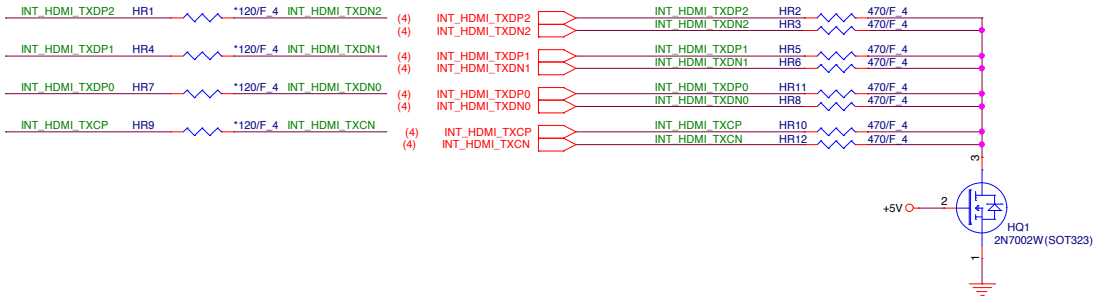
1.Level 1 Environment-related Substances Should Never be Used.
2.Recycled Resin and Coated Wire should be procured from Green Partners.

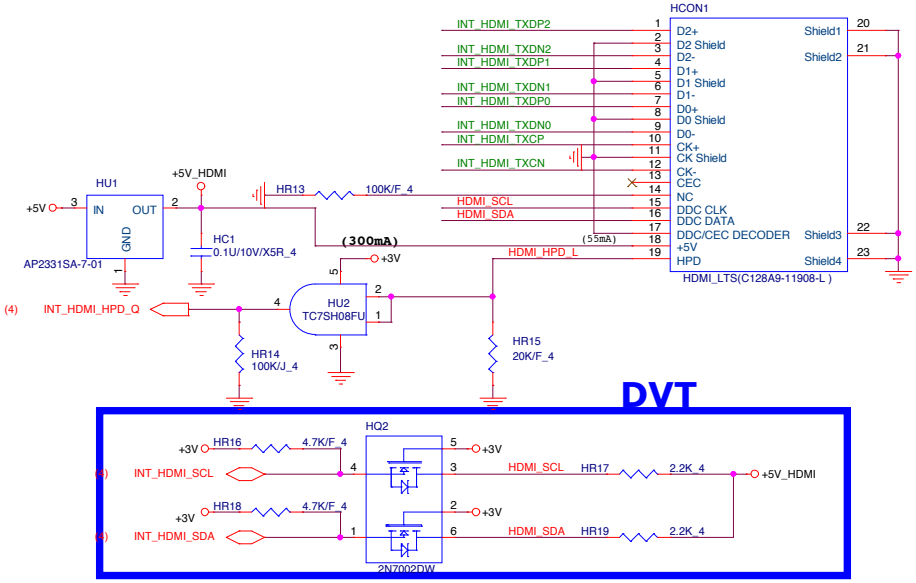
Quanta Computer Inc.
PROJECT :FI2

Size	Document Number	Rev
	HDD/Gsensor/TP/FAN	1A

Date: Friday, August 23, 2013 Sheet 17 of 33

HDMI





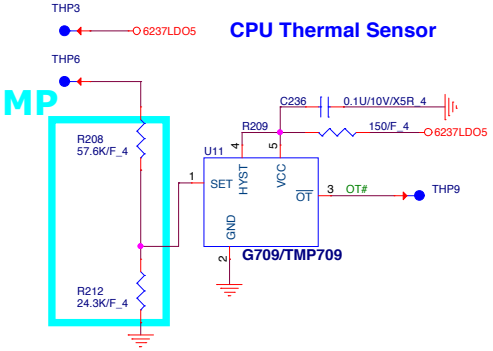
DVT

H/W Thermal Protect

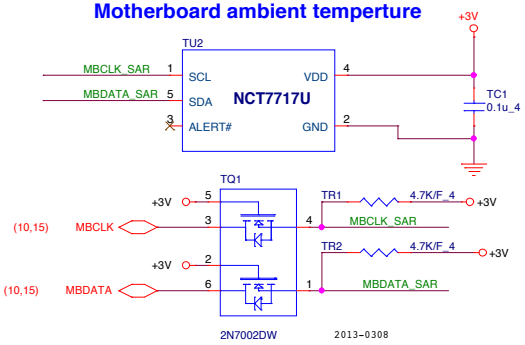
Move to Daughter Board

CPU Thermal Sensor

MP

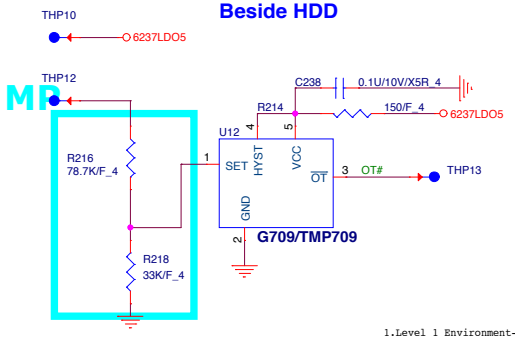


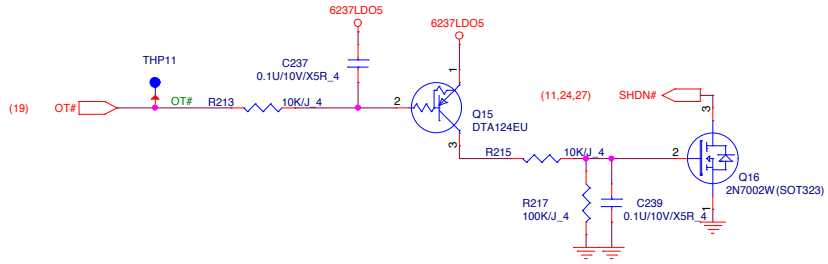
Motherboard ambient temperture



Beside HDD

MP





UMA SKU

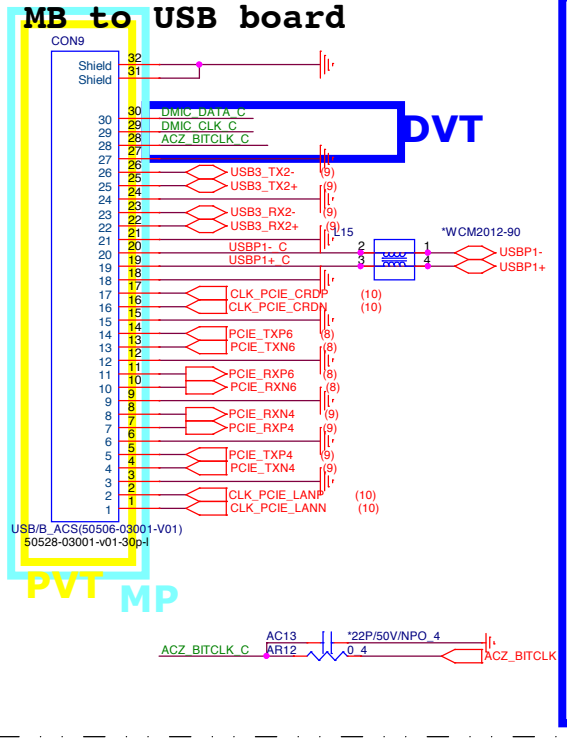
Location of IC	Temp	R-Set	Parts in BOM	Max	Min
Near CPU sensor temp	TBD	R208=68K	68K	TBD	TBD
Near AUDIO sensor temp	TBD	R216=113K	113K	TBD	TBD

1.Level 1 Environment-related Substances Should Never be Used.
2.Recycled Resin and Coated Wire should be procured from Green Partners.

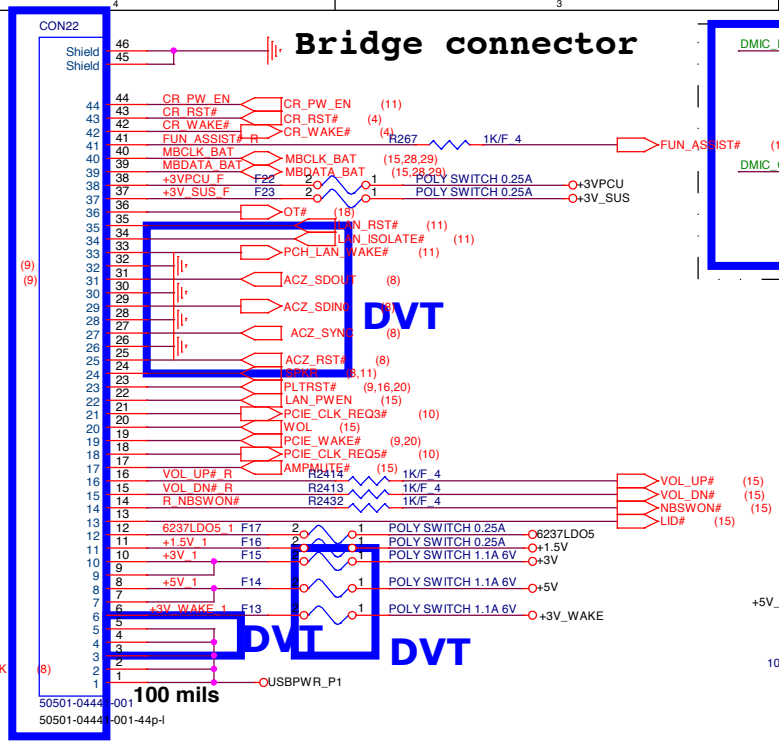
Quanta Computer Inc.
PROJECT : FI2

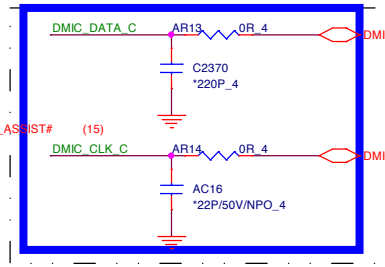
Size	Document Number	Rev
	HDMI/Thermal	1A
Date: Wednesday, August 14, 2013	Sheet 18 of 33	

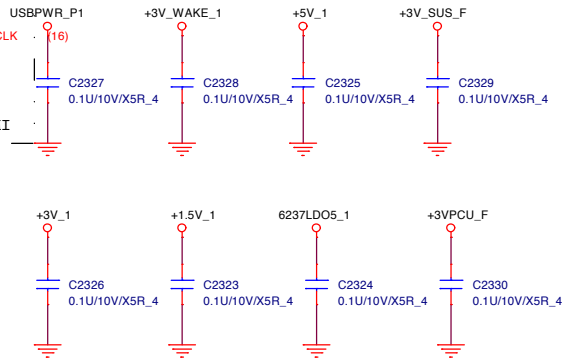
MB to USB board

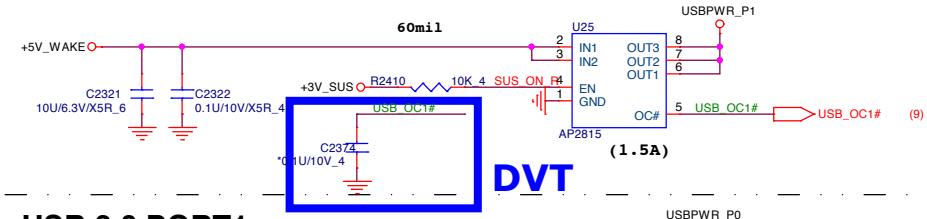


Bridge connector



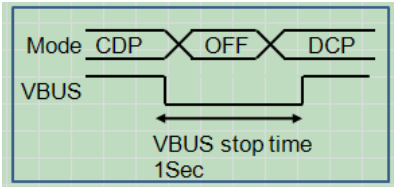




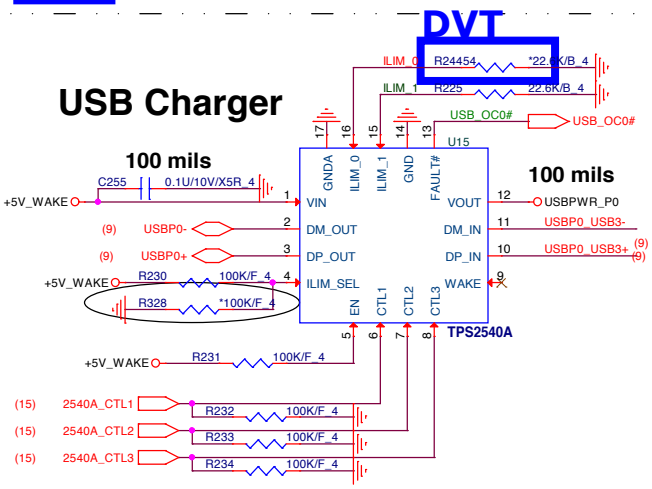


	TPS2540A		TPS2543	
ILIM_SEL	Pin15	Pin16	Pin15	Pin16
High	V			V
Low		V	V	

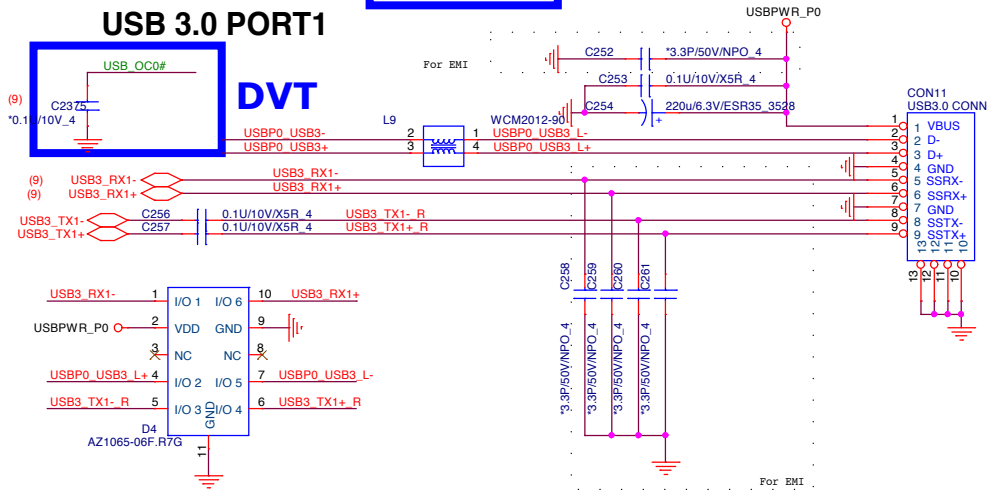
SDP : Standard Downstream Port
CDP : Charging downstream port
DCP : Dedicated Charging Port
Enable/Disable : setting by BIOS



USB Charger



USB 3.0 PORT1



CTL_1	CTL_2	CTL_3	TPS 2540A/2543 Truth Table
0	0	0	OUT discharge, power switch OFF
0	X	1	DCP,Auto-detect(S3/S4/S5, 1.5A)
X	1	0	SDP, USB2.0 mode(S0, 0.5A)
1	0	0	DCP, BC SPEC1.2 only(S3/Deep standby/S4/S5, 1.5A)
1	0	1	DCP, Divider mode only(S3/S4/S5, 1.5A)
1	1	1	CDP (S0, 1.5A)

System State	USB Battery Charging Setting			
	Disable	C(1 2 3)	Enable	C(1 2 3)
S0	SDP	(X 1 0)	CDP	(1 1 1)
S3	SDP	(X 1 0)	DCP BC	(1 0 0)
DS3	Charger OFF	(0 0 0)	DCP BC	(1 0 0)
S4	Charger OFF	(0 0 0)	DCP BC	(1 0 0)
S5	Charger OFF	(0 0 0)	DCP BC	(1 0 0)

1.Level 1 Environment-Related Substances Should Never be Used.

ILIM_SEL	(I LIMIT(A)= 48000/R)	
HI	I_LIM_1	
LO	I_LIM_0	48000/22.6K=2.123A

Quanta Computer Inc.
PROJECT : FI2

Size	Document Number	Rev
	USB Charger/IO connector	1A

Date: Wednesday, August 14, 2013 Sheet 19 of 33

WLAN/WIMAX/WIDI

1440mA Peak, 636mA Avg

DVT

CON13 (H=4.0mm)

MiniPCIE-ACE(51700-0520W-001/H4.0)

minipci-51731-0520w-001-52p

MP

WLAN+Bluetooth
20 : Internal Pull high 25K ~ 58K

PVT

DVT

AC Mode : Support Wake on WLAN
DC Mode : Don't support wake on WLAN

2013-03-21

DVT

U28 *TC7SH08FU

U27 G547E1P81U

DVT

KB BACKLIGHT

CON14 (51529-00401-001) 50591-00401-001-4p-l

DVT

Q36 2N7002W(SOT323)

Q35 *2N7002W(SOT323)

Q34 *MMBT3904-7-F/40V/200MA

Q18 EMFA0P02J

Q19 2N7002W(SOT323)

KB Backlight: Max. 360mA

KB Backlight PWM=380Hz

2013-03-21

DVT

U30 *TC7SH08FU

DVT

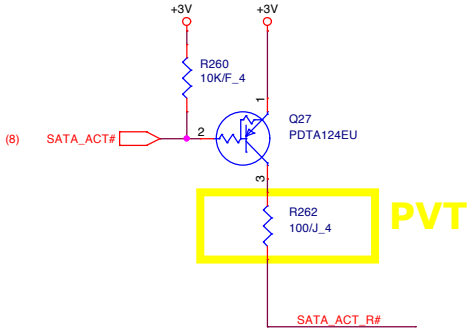
Quanta Computer Inc.

PROJECT : FI2

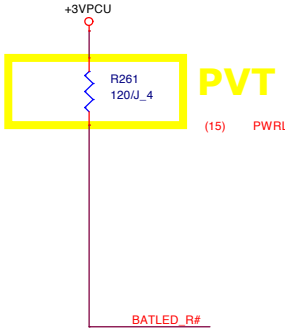
Size	Document Number	Rev
	WLAN/KB BL	1A

Date: Wednesday, August 14, 2013 Sheet 20 of 33

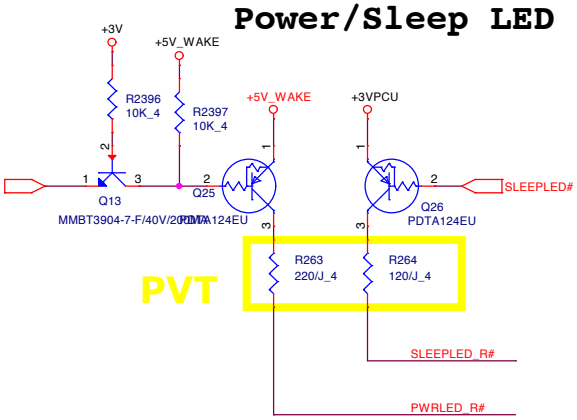
SATA LED

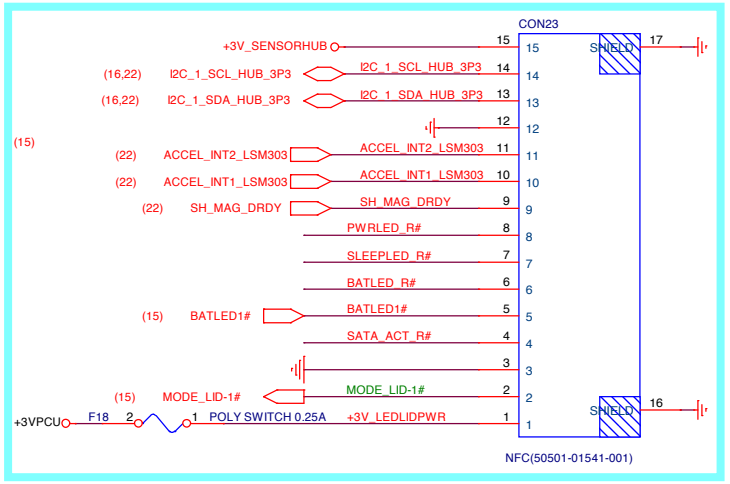


BATTERY LED

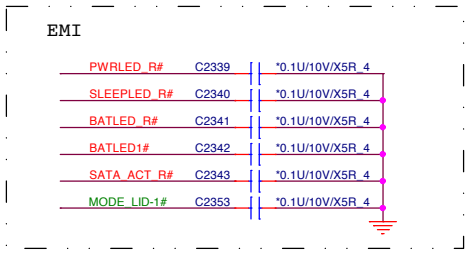


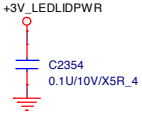
Power/Sleep LED





MP





1.Level 1 Environment-related Substances Should Never be Used.

Partners.

Quanta Computer Inc.

PROJECT : FI2

Size	Document Number	Rev
	LED	1A
Date:	Wednesday, August 14, 2013	Sheet 21 of 33

Sensor HUB

DVT

R2359 10K_4_NC
R2360 *10K_4_NC
R2361 10K_4_NC
R2362 *10K_4_NC
R2363 10K_4_NC
R2364 *10K_4_NC
R2365 10K_4_NC
R2366 *10K_4_NC
R2367 10K_4_NC
R2368 *10K_4_NC
R2369 10K_4_NC
R2370 *10K_4_NC
+3V_SENSORHUB

Depending sensor Layout placement

U20

STM32F103CBU6TRC44(QFN48)

PA0-WKUP
PA1
PA2
PA3
PA4
PA5
PA6
PA7 ACC_2_INT1
PA8 PROXIMITY_P_OUT
PA9 PROXIMITY_T_OUT
PA10 USBP6-_R
PA11 USBP6+_R
PA12 SWDIO
PA13 SWCLK
PA14
PA15
PB0 ACCEL_INT1_LSM303
PB1 ACCEL_INT2_LSM303
PB2 SH_GYRO_INT_N
PB3 SH_GYRO_DRDY
PB4 PRESSURE_INT1
PB5 PRESSURE_INT2
PB6 I2C_1_SCL_HUB_3P3
PB7 I2C_1_SDA_HUB_3P3
PB8 PROXIMITY_1_P_IN
PB9 PROXIMITY_1_T_IN
PB10 I2C0_SCL_C
PB11 I2C0_SDA_C
PB12 SENSOR_HDR_SMALERT1_C
PB13 LID_SIGNAL
PB14 SH_MAG_DRDY
PB15
BOOT0
NRST
VSSA
PC13-TAMPER-RTC
PC14-OSC32_IN
PC15-OSC32_OUT
OSC_IN/PD0
OSC_OUT/PD1
VBAT
VDDA
VDD_1
VDD_2
VDD_3
VSS_1
VSS_2
VSS_3
EPD

R2453 *0_4
TP146
R24461 100K_4
SENSOR_INT (11)

DVT

TP132
TP133
TP134
R2409 1.5K/F_4
R2372 0_4
R2373 0_4
USBP6- (9)
USBP6+ (9)
TP135
TP137

MP

ACCEL_INT1_LSM303 (21)
ACCEL_INT2_LSM303 (21)

STM_12M_IN_R
Y3 12MHz
C2300 22P/50V_4
C2301 22P/50V_4
R2433 *1M_4
TP136
TP138
PROXIMITY_2_P_IN
PROXIMITY_2_T_IN
STM_12M_IN
STM_12M_OUT
R2374 *SHORT
PVT
+3V_S5
L14 120Ohm@100MHz
C2303 1u/6.3V/X5R_4
C2304 0.1u/10V/X5R_4

TP139
TP140
I2C_1_SCL_HUB_3P3 (16,21)
I2C_1_SDA_HUB_3P3 (16,21)
TP141
TP142
R2379 *0_4
R2381 *0_4
R2429 0_4
I2C0_SCL (11)
I2C0_SDA (11)
SENSOR_HDR_SMALERT1 (10)
TP143
SH_MAG_DRDY (26)

MP

R24508 100K_4
+3V_SENSORHUB
SH_ALS_INT# (16)

DVT

R2382 2 1 20K/F_4
R2383 10K_4
+3V_SENSORHUB
R24446 *0_4
SENSOR_RST# (11)
C2305 0.1u/10V_4_NC

Reserve I2C to HSW-ULT (Check I2C driver)

(11) SENSOR_PWR_EN

DVT

+3V_SENSORHUB
C2338 *1U/6.3V/X5R_4
U29
+3V_WAKE
R24453 *40.2K/F_4
IN OUT
SET GND
EN FLAG
*G527ATP1U
C2337 *0.1U/10V/X5R_4
R24460 *100K_4

Current limit
Typ:1A(880mA~1120mA)

ALS Remove to camera module

RP9 2.2K_x2
I2C_1_SDA_HUB_3P3
I2C_1_SCL_HUB_3P3
+3V_SENSORHUB

(11) I2C0_SDA
(11) I2C0_SCL
RP10 10KX2
+3V_SENSORHUB

DVT

+3V_S5
+3V_SENSORHUB
R24448 2 1 0_6

MP

Gyroscope

PVT

R2385 *SHORT_6
+3V_SENSORHUB
C2306 0.1u_4
C2307 10u/6.3V_6
C2313 0.01u/50V_4
C2311 0.1u_4
R2386 10K/F_4
I2C_1_SCL_HUB_3P3 R2387 0_4 I2C_5_SCL_GYRO_R
I2C_1_SDA_HUB_3P3 R2388 0_4 I2C_5_SDA_GYRO_R
+3V_SENSORHUB R2389 10K/F_4 GYRO_SA0
R2391 *10K/F_4
SH_GYRO_DRDY
SH_GYRO_INT_N

U22
VDDIO
CS
SCL/SPC
SDA/SDI/SDO
SDO/SA0
DRDY/INT2
INT1
Reserved_1
VDD
Reserved_6
Reserved
GND
Reserved_5
Reserved_4
Reserved_3
Reserved_2
L3GD20TR

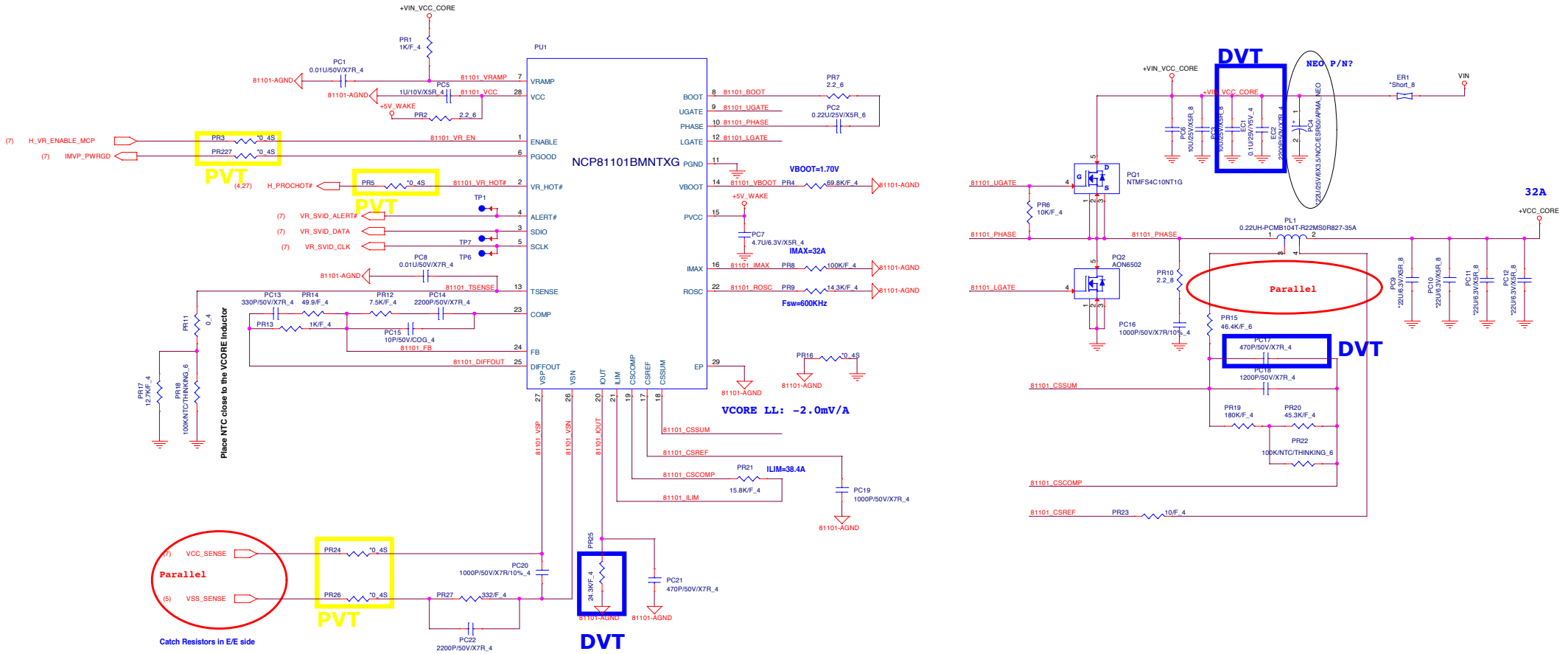
WR Address : 0xD2
RD Address : 0xD3

Only surface layer delete

1.Level 1 Environment-related Substances Should Never be Used.
2.Recycled Resin and Coated Wire should be procured from Green Partners.

Quanta Computer Inc.
PROJECT : FI2

Size	Document Number	Rev
	Sensors Hub & Sensors	1A
Date: Wednesday, August 14, 2013	Sheet 22 of 33	

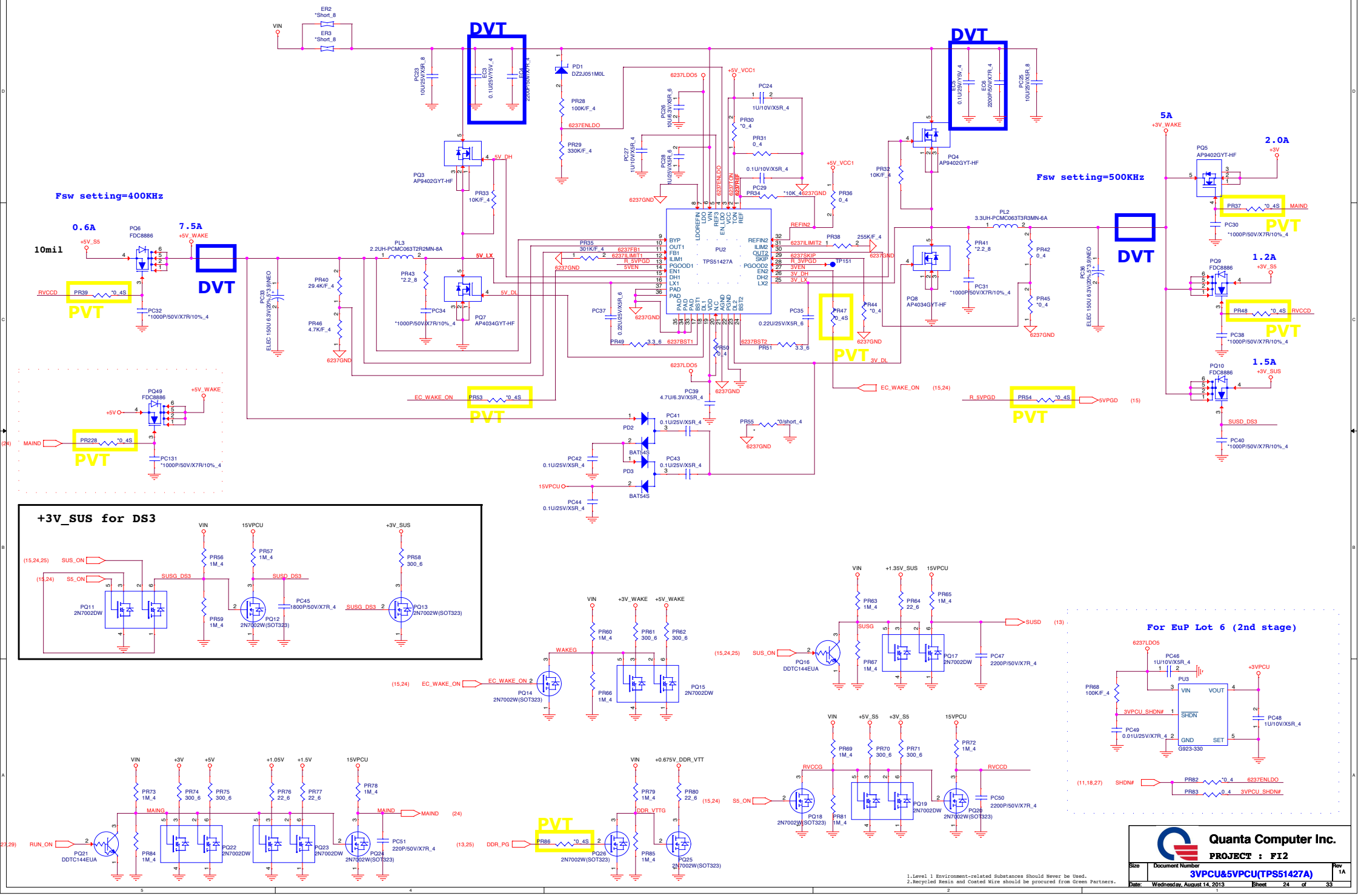


1.Level 1 Environment-related Substances Should Never be Used.
2.Recycled Resin and Coated Wire should be procured from Green Partners.

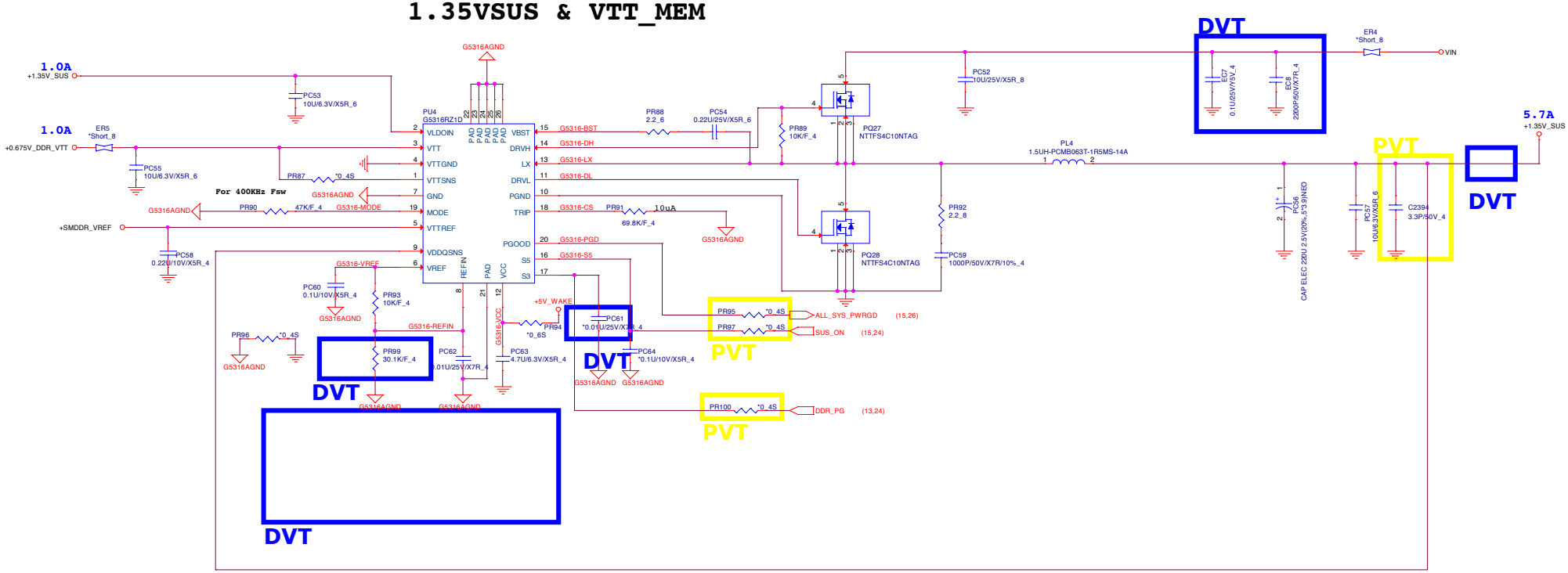
Quanta Computer Inc.
PROJECT : FI2

Size	Document Number	Rev
	+VCC_CORE (NCP81101)	1A

Date: Wednesday, August 14, 2013 Sheet 23 of 33


Fsw setting=400KHz
Fsw setting=500KHz
0.6A
7.5A
10mil
DVT
PVT
5A
2.0A
1.2A
1.5A
TPS51427A
+3V_SUS for DS3
For EuP Lot 6 (2nd stage)
Quanta Computer Inc.
PROJECT : FI2
3VPCU&5VPCU(TPS51427A)
Wednesday, August 14, 2013

1.35VSUS & VTT_MEM



MODE	Resistor on Mode	Fsw	Discharge Mode
3	200Kohm	400KHz	Tracking discharge
2	100Kohm	300KHz	
1	68Kohm	300KHz	**Non-tracking discharge**
0	**47Kohm**	**400KHz**	

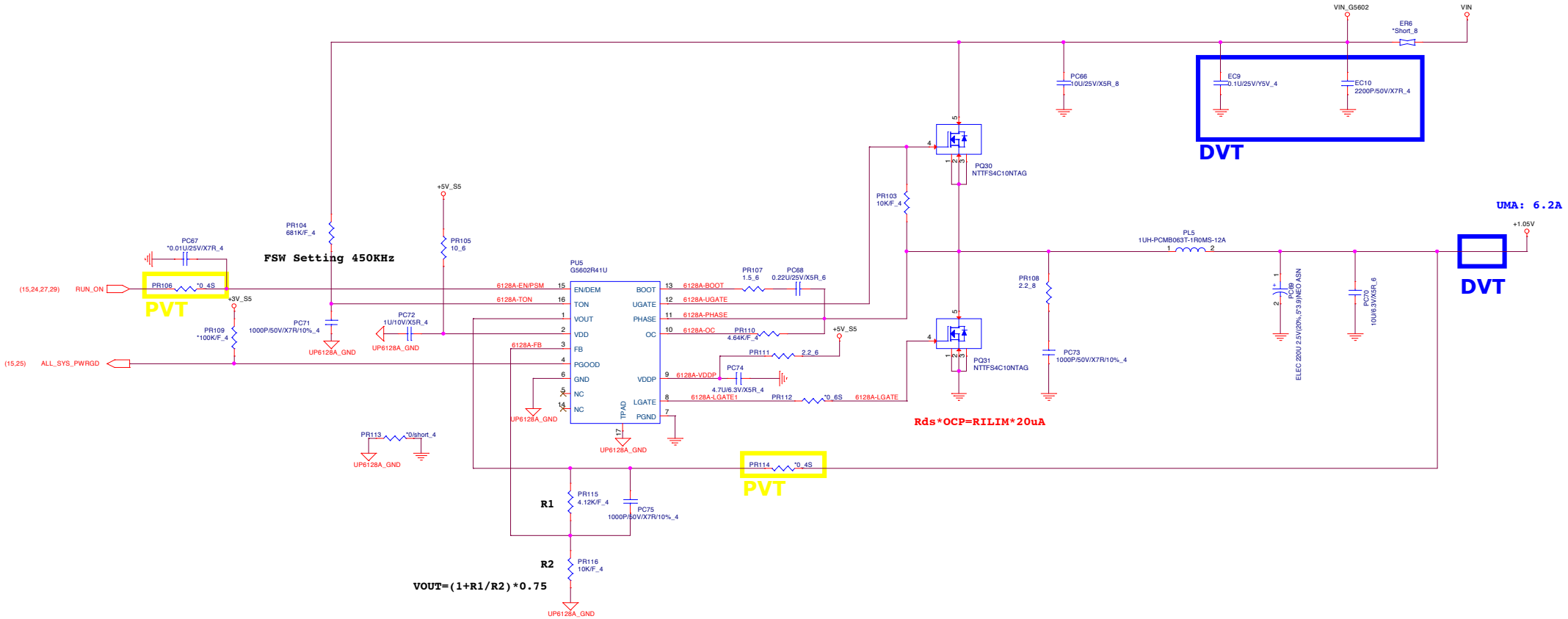
STATE	S3	S5	1.5VSUS	VTTREF	VTT
S0	1	1	On	On	On
S3	0	1	On	On	Off/High Z
S4/S5	0	0	Off	Off	Off

1.Level 1 Environment-related Substances Should Never be Used.
2.Recycled Resin and Coated Wire should be procured from Green Partners.

Quanta Computer Inc.
PROJECT : FI2

Size	Document Number	Rev
	1.5VSUS/VTT_MEM	1A

Date: Wednesday, August 14, 2013 Sheet 25 of 33



1.Level 1 Environment-related Substances Should Never be Used.
2.Recycled Resin and Coated Wire should be procured from Green Partners.

Quanta Computer Inc.
PROJECT : FI2

Size	Document Number	Rev
	+1.05V	1A
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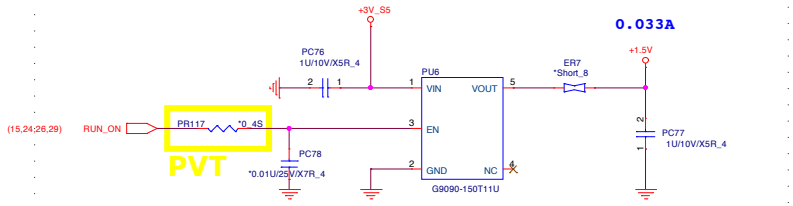
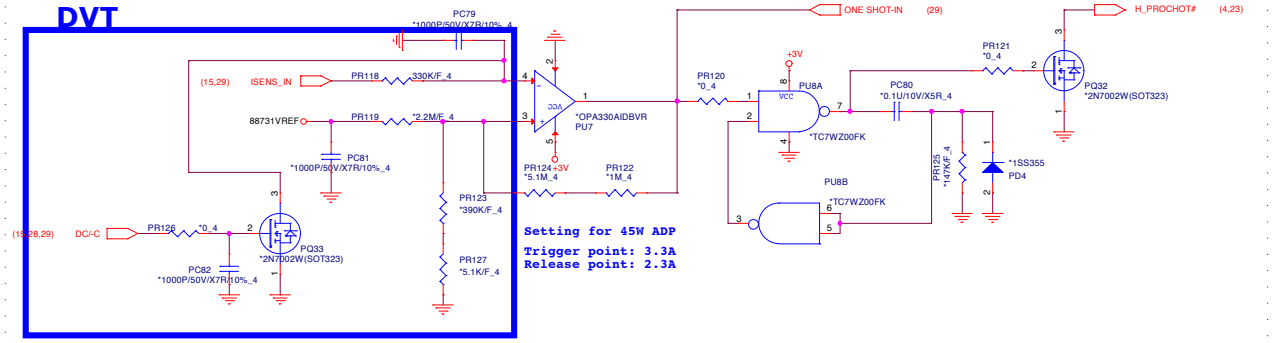
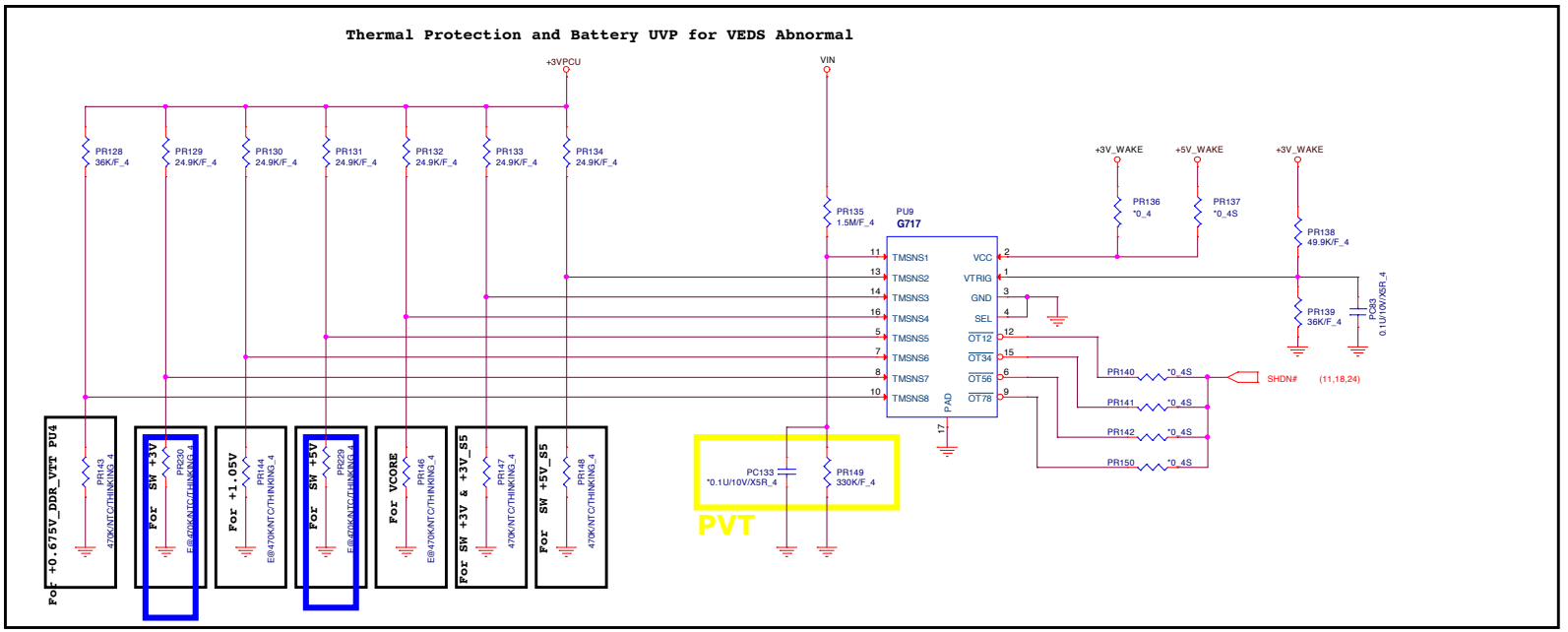
VCC1.5



One-Shot 10ms PROCHOT# For ADP



Thermal Protection and Battery UVP for VEDS Abnormal

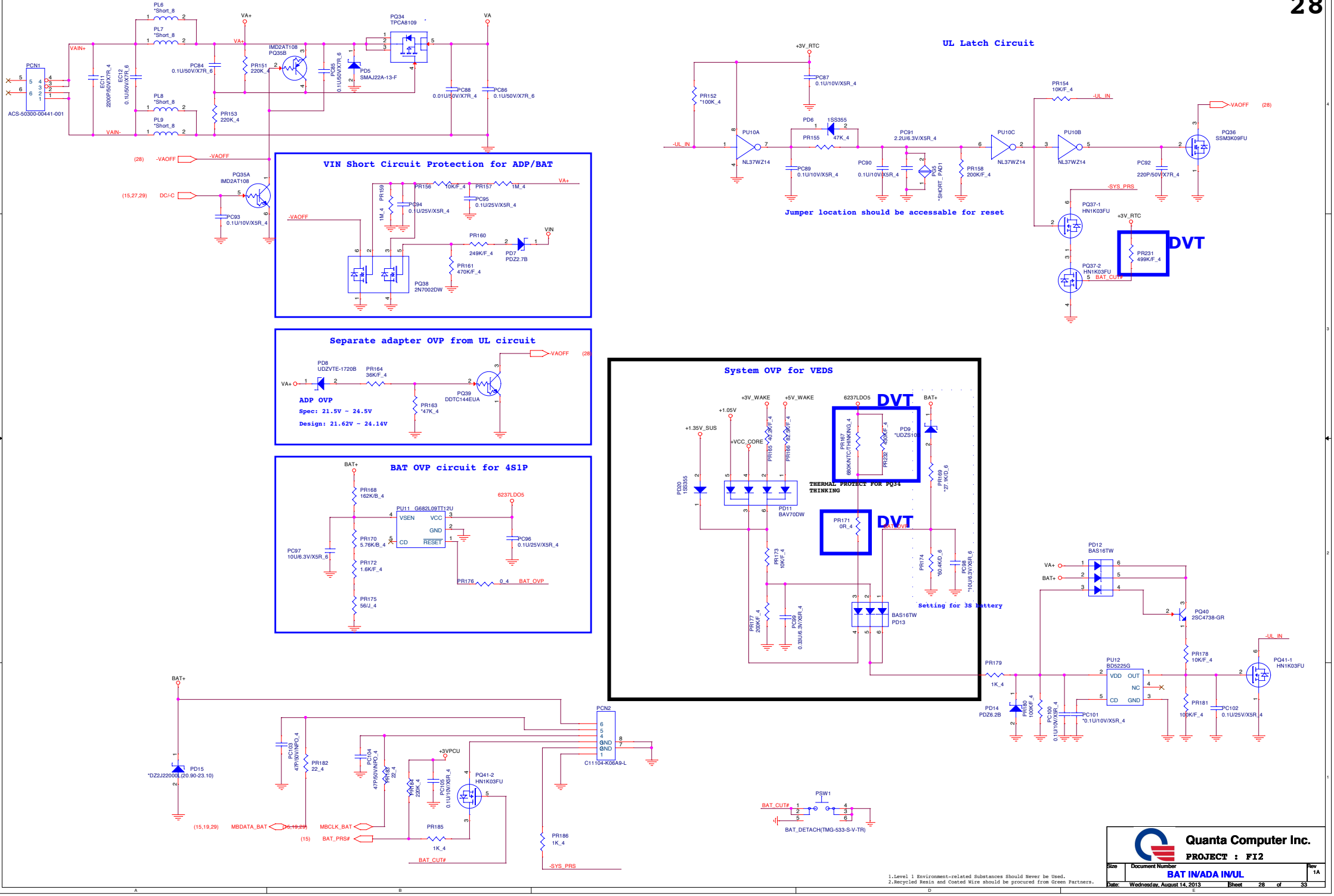


1.Level 1 Environment-related Substances Should Never be Used.
2.Recycled Resin and Coated Wire should be procured from Green Partners.

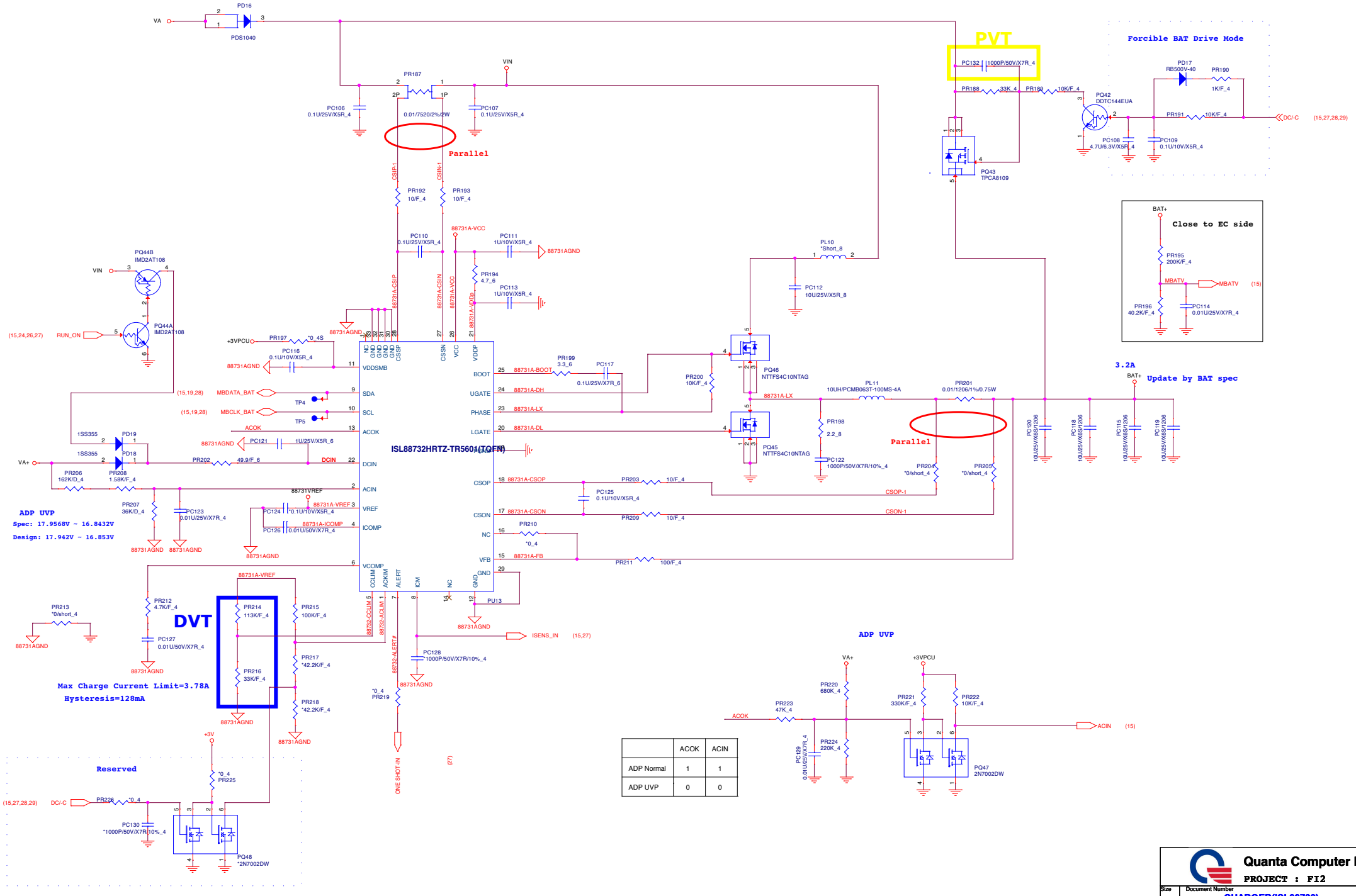
Quanta Computer Inc.
PROJECT : FI2

Size	Document Number	Rev
	VCC1.5/Thermal Protection	1A

Date: Wednesday, August 14, 2013 Sheet 27 of 33



1.Level 1 Environment-related Substances Should Never be Used.
2.Recycled Resin and Coated Wire should be procured from Green Partners.



	ACOK	ACIN
ADP Normal	1	1
ADP UVP	0	0

1.Level 1 Environment-related Substances Should Never be Used.
2.Recycled Resin and Coated Wire should be procured from Green Partners.

Quanta Computer Inc.
PROJECT : FI2
Size | Document Number: CHARGER(ISL88732) | Rev: 1A
Date: Wednesday, August 14, 2013 | Sheet 29 of 33

USB PORT Architecture	
PORT 0	USB3.0
PORT 1	USB3.0
PORT 2	Touch Screen
PORT 3	WiMax/BT
PORT 4	Sensor Hub
PORT 5	Camera
PORT 6	N/A
PORT 7	N/A

PCIE BUS	
PORT 1	N/A
PORT 2	N/A
PORT 3	WLAN Port
PORT 4	GLAN(RTL8111GS)
PORT 5	N/A
PORT 6	CARD READER

SATA BUS	
PORT 0	HDD
PORT 1	N/A
PORT 2	N/A
PORT 3	N/A

SM BUS	MBCLK/MBDATA	WRITE	READ	Function
ISL88732	0001 001X	0001 0010	0001 0011	Charger
LIS331DL	0011 101X	0011 1010	0011 1011	G Sensor

SM BUS	MBCLK_BAT/MBDATA_BAT	WRITE	READ	Function
T.B.D	0011 0010			Battery

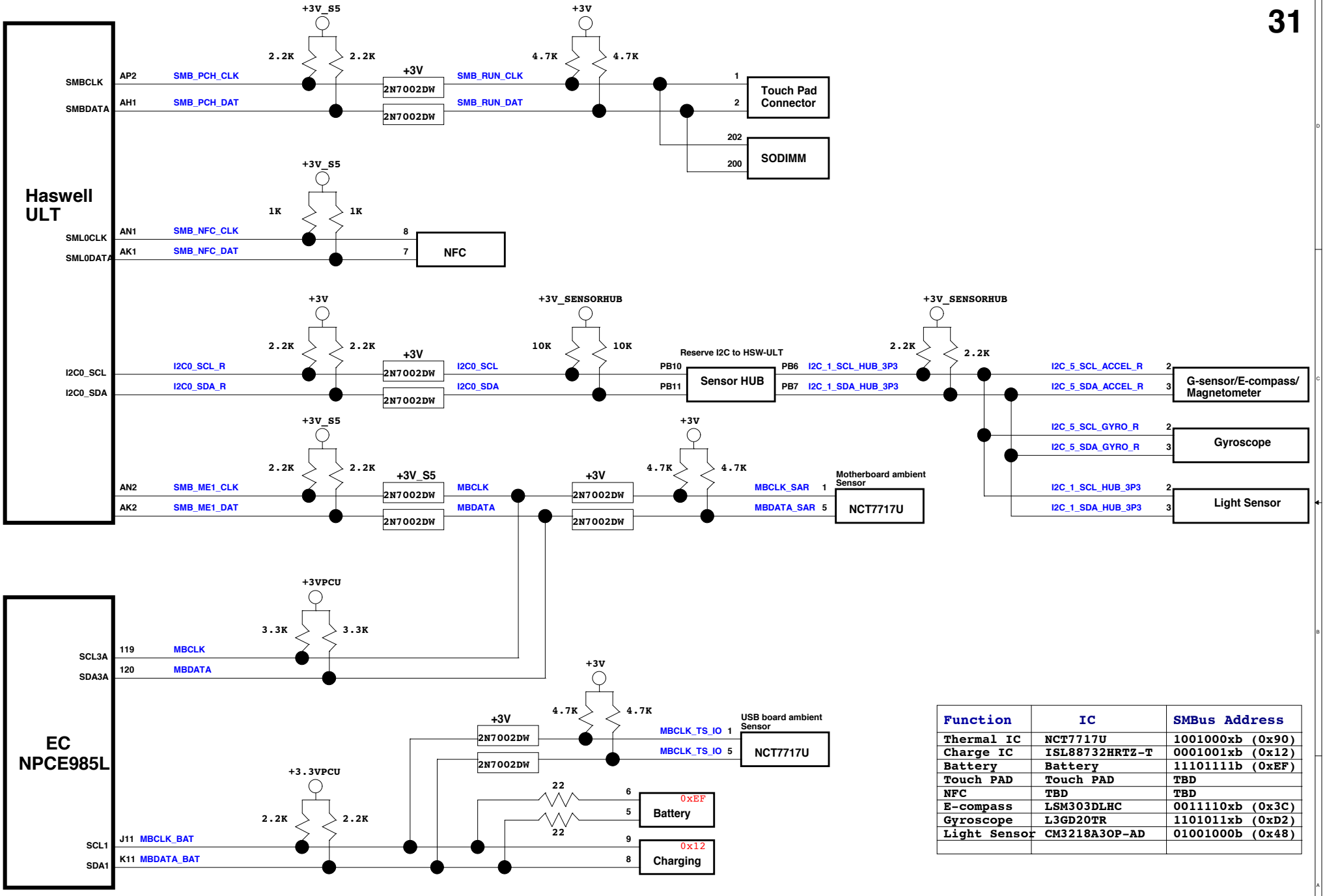
SM BUS	SMB_PCH_CLK/SMB_PCH_DAT	WRITE	READ	Function
DIMM Module0	1010 000X	1010 0000	1010 0001	DDRIII
Synaptics	0010 110X	0010 1100	0010 1101	Click PAD

R127(Low) R128(High) R125(Low) R126(High)

	Board ID1	Board ID0
Mule FI1	0	0
HuronSHA1 FI2	0	1
HuronSHB1 FI3_UMA	1	0
HuronSHB1 FI3_DGPU	1	1

PCBA SKU	Discrete	UMA
R135(Pull High)	Stuff	No Stuff
R136(Pull Low)	No Stuff	Stuff

OS status	S0	S3	DS3	(Soft OFF)	(Soft OFF)	(Soft OFF)	(Soft OFF)	(Soft OFF)
H/W status	S0	S3	DS3	S4 (Win8 off) RTC wake Enable WOLAN Enable	S4 (Win8 off) RTC wake Disable WOLAN Disable	S5 Charge Enable	S5 Charge Disable WoL Disable	S5 WoL Enable
RUN_ON	H	L	L	L	L	L	L	L
+3V	H	L	L	L	L	L	L	L
+5V	H	L	L	L	L	L	L	L
+0.675V_DDR_VTT	H	L	L	L	L	L	L	L
+1.05V	H	L	L	L	L	L	L	L
+0.85V	H	L	L	L	L	L	L	L
+1.5V	H	L	L	L	L	L	L	L
+VCC_CORE	H	L	L	L	L	L	L	L
SUS_ON	H	H	H	L	L	L	L	L
+1.35V_SUS	H	H	H	L	L	L	L	L
+3V_SUS	H	H	H	L	L	L	L	L
S5_ON	H	H	L	H	L	L	L	H
+5V_S5	H	H	L	H	L	L	L	H
+3V_S5	H	H	L	H	L	L	L	H
EC_WAKE_ON	H	H	H	H	L	H	L	H
+3V_WAKE	H	H	H	H	L	H	L	H
+5V_WAKE	H	H	H	H	L	H	L	H
DEEP_EC_EN	H	H	H	H	L	L	L	L
+3V_S5_DSW	H	H	H	H	L	L	L	L
+3V_SUS	H	H	L	L	L	L	L	L



Function	IC	SMBus Address
Thermal IC	NCT7717U	1001000xb (0x90)
Charge IC	ISL88732HRTZ-T	0001001xb (0x12)
Battery	Battery	11101111b (0xEF)
Touch PAD	Touch PAD	TBD
NFC	TBD	TBD
E-compass	LSM303DLHC	0011110xb (0x3C)
Gyroscope	L3GD20TR	1101011xb (0xD2)
Light Sensor	CM3218A3OP-AD	01001000b (0x48)

1.Level 1 Environment-related Substances Should Never be Used.
2.Recycled Resin and Coated Wire should be procured from Green Partners.

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OS status	S0	S3	DS3	(Soft OFF)	(Soft OFF)	(Soft OFF)	(Soft OFF)	(Soft OFF)
H/W status	S0	S3	DS3	S4 (Win8 off) RTC wake Enable WOLAN Enable	S4 (Win8 off) RTC wake Disable WOLAN Disable	S5 Charge Enable	S5 Charge Disable WoL Disable	S5 WoL Enable
RUN_ON	H	L	L	L	L	L	L	L
+3V	H	L	L	L	L	L	L	L
+5V	H	L	L	L	L	L	L	L
+0.675V_DDR_VTT	H	L	L	L	L	L	L	L
+1.05V	H	L	L	L	L	L	L	L
+0.85V	H	L	L	L	L	L	L	L
+1.5V	H	L	L	L	L	L	L	L
+VCC_CORE	H	L	L	L	L	L	L	L
SUS_ON	H	H	H	L	L	L	L	L
+1.35V_SUS	H	H	H	L	L	L	L	L
+3V_SUS	H	H	H	L	L	L	L	L
S5_ON	H	H	L	H	L	L	L	H
+5V_S5	H	H	L	H	L	L	L	H
+3V_S5	H	H	L	H	L	L	L	H
EC_WAKE_ON	H	H	H	H	L	H	L	H
+3V_WAKE	H	H	H	H	L	H	L	H
+5V_WAKE	H	H	H	H	L	H	L	H
DEEP_EC_EN	H	H	H	H	L	L	L	L
+3V_S5_DSW	H	H	H	H	L	L	L	L
+3V_SUS	H	H	L	L	L	L	L	L

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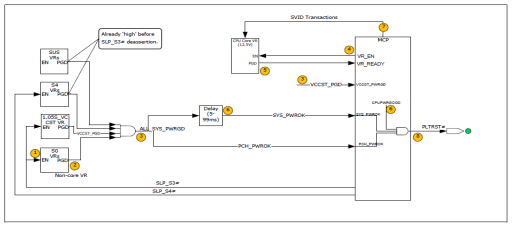
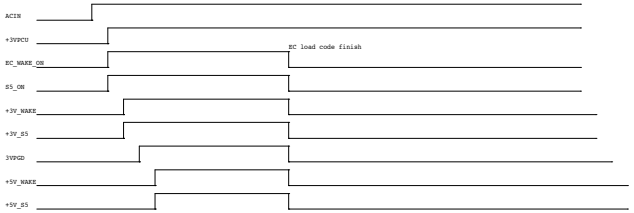
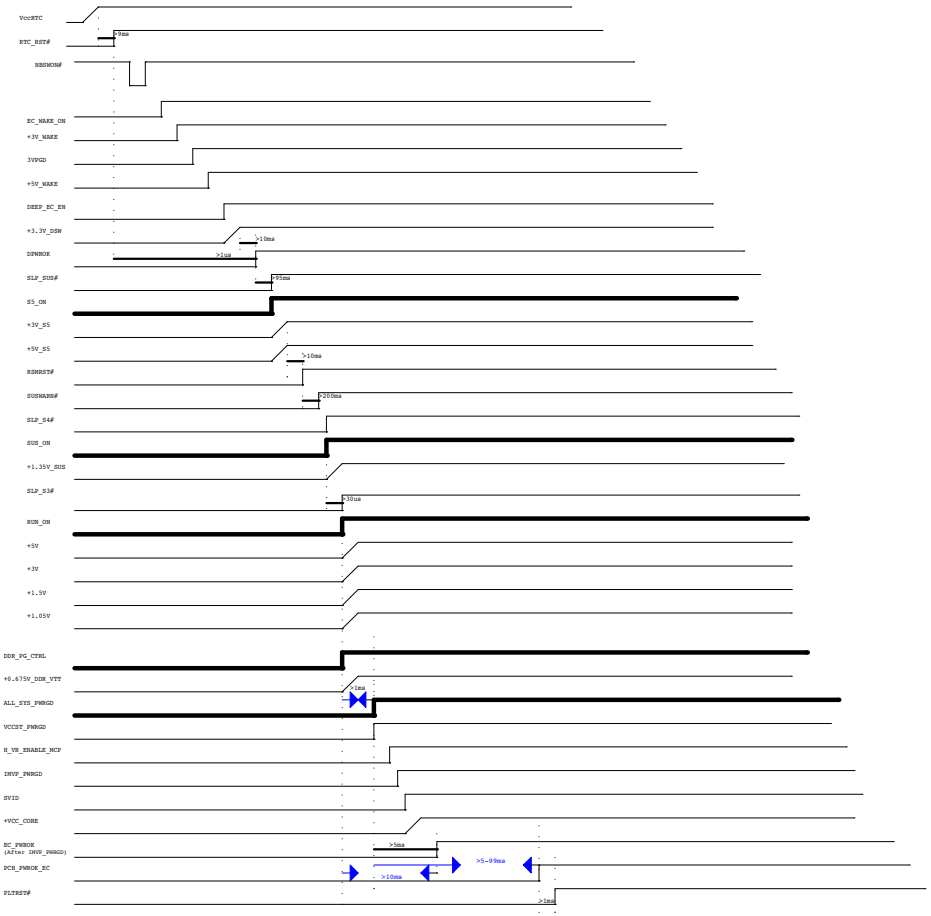
Figure 2-4. Flow Diagram for SYS_PWROK Generation – ULT Platform



AC IN --> EC LOAD CODE





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Power Sequence

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