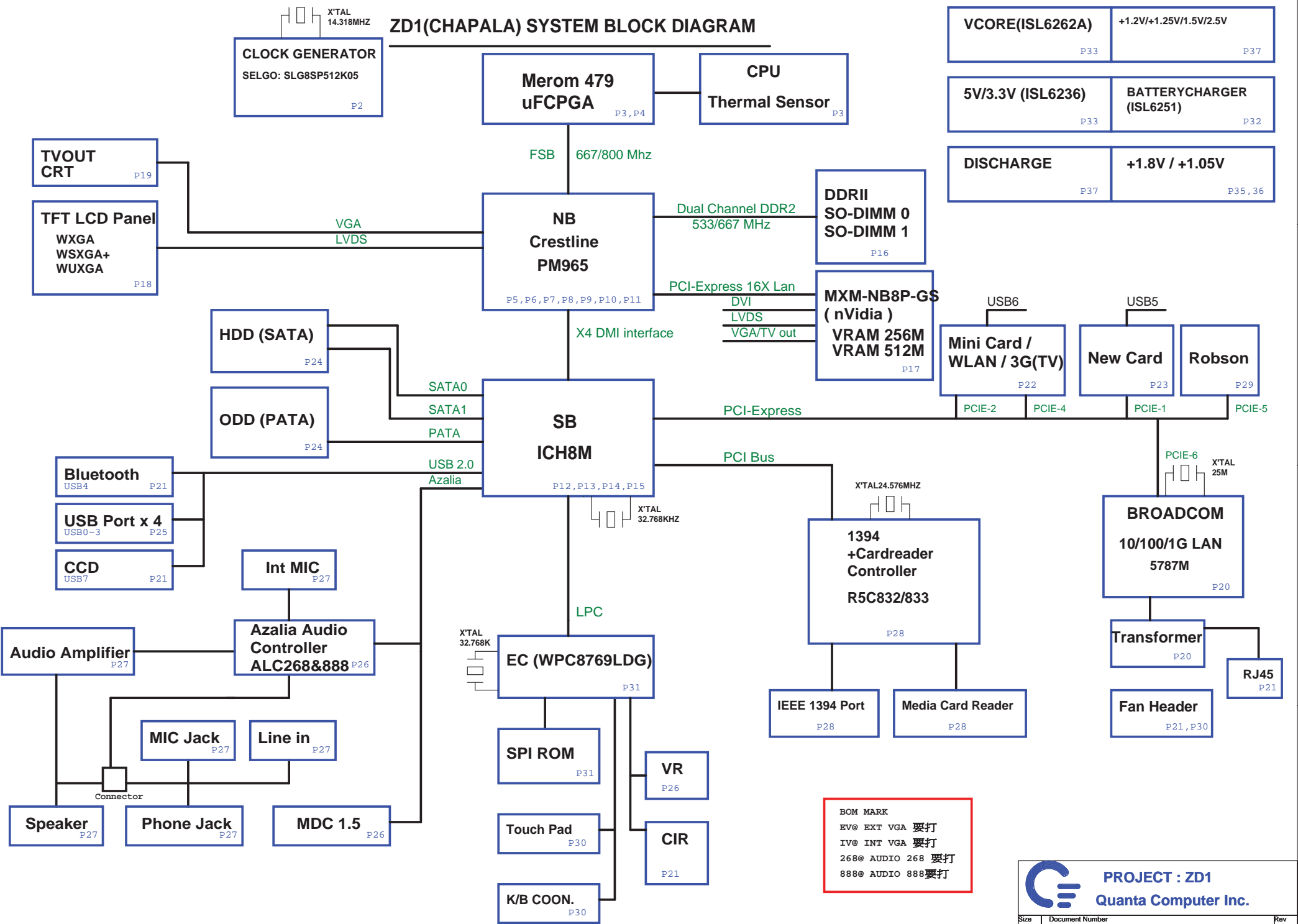


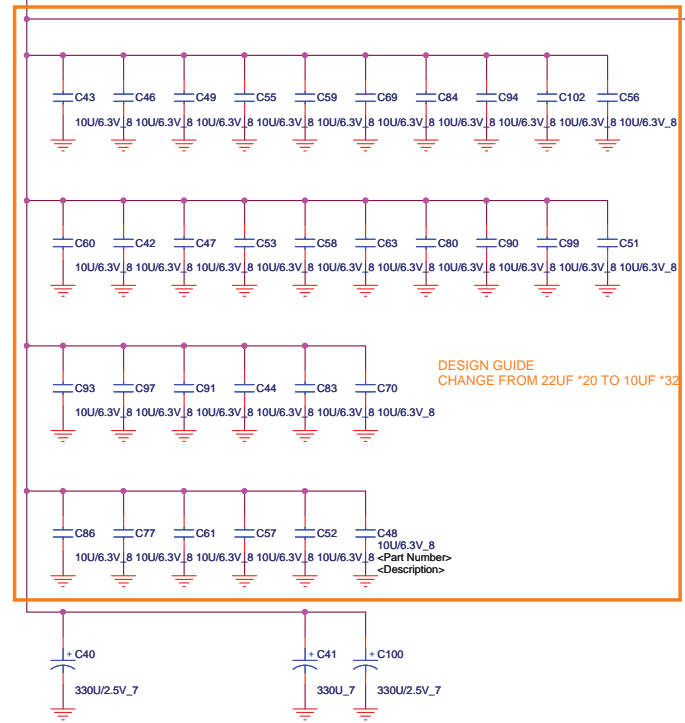
ZD1(CHAPALA) SYSTEM BLOCK DIAGRAM



BOM MARK
 EV@ EXT VGA 要打
 IV@ INT VGA 要打
 268@ AUDIO 268 要打
 888@ AUDIO 888 要打

CPU(Power)

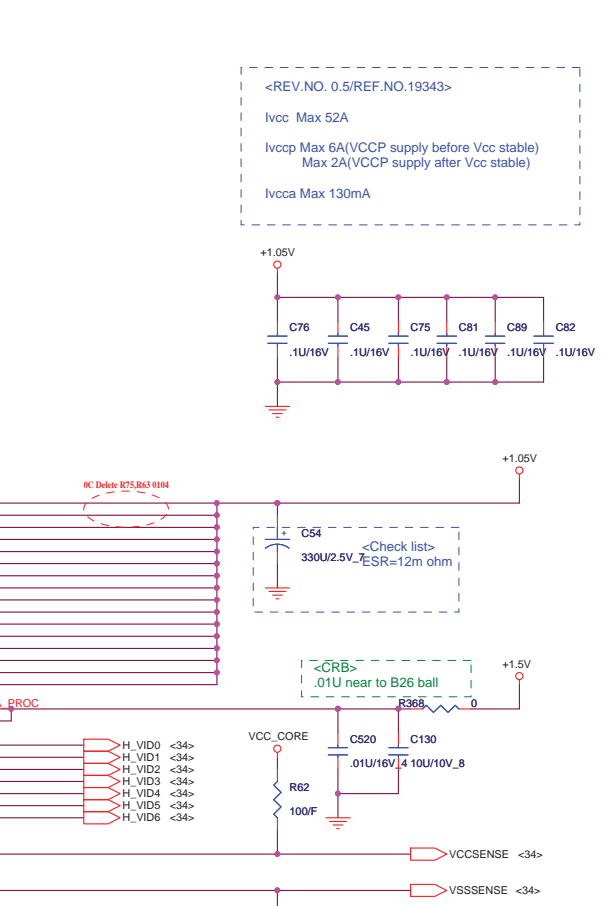
VCC_CORE



<Check list>
Option1:330U*6(ESR=1.5m ohm aggregate , ESL=0.8nH/6) and 22U*20(ESR=3mohm typ/20 , ESL=0.6nH/20)
Option2:330U*6(ESR=1.5m ohm aggregate , ESL=1.8nH/6) and 22U*32(ESR=3mohm typ/32 , ESL=0.6nH/32)

U22C		
A7	VCC[001]	VCC[068]
A9	VCC[002]	VCC[069]
A10	VCC[003]	VCC[070]
A12	VCC[004]	VCC[071]
A13	VCC[005]	VCC[072]
A15	VCC[006]	VCC[073]
A17	VCC[007]	VCC[074]
A18	VCC[008]	VCC[075]
A20	VCC[009]	VCC[076]
B7	VCC[010]	VCC[077]
B9	VCC[011]	VCC[078]
B10	VCC[012]	VCC[079]
B12	VCC[013]	VCC[080]
B14	VCC[014]	VCC[081]
B15	VCC[015]	VCC[082]
B17	VCC[016]	VCC[083]
B18	VCC[017]	VCC[084]
B20	VCC[018]	VCC[085]
C9	VCC[019]	VCC[086]
C10	VCC[020]	VCC[087]
C12	VCC[021]	VCC[088]
C13	VCC[022]	VCC[089]
C15	VCC[023]	VCC[090]
C17	VCC[024]	VCC[091]
C18	VCC[025]	VCC[092]
D9	VCC[026]	VCC[093]
D10	VCC[027]	VCC[094]
D12	VCC[028]	VCC[095]
D14	VCC[029]	VCC[096]
D15	VCC[030]	VCC[097]
D17	VCC[031]	VCC[098]
D18	VCC[032]	VCC[099]
E7	VCC[033]	VCC[100]
E9	VCC[034]	VCC[101]
E10	VCC[035]	VCC[102]
E12	VCC[036]	VCC[103]
E13	VCC[037]	VCC[104]
E15	VCC[038]	VCC[105]
E17	VCC[039]	VCC[106]
E18	VCC[040]	VCC[107]
E20	VCC[041]	VCC[108]
F7	VCC[042]	VCC[109]
F9	VCC[043]	VCC[110]
F10	VCC[044]	VCC[111]
F12	VCC[045]	VCC[112]
F14	VCC[046]	VCC[113]
F15	VCC[047]	VCC[114]
F18	VCC[048]	VCC[115]
F20	VCC[049]	VCC[116]
AA7	VCC[050]	VCC[117]
AA9	VCC[051]	VCC[118]
AA10	VCC[052]	VCC[119]
AA12	VCC[053]	VCC[120]
AA13	VCC[054]	VCC[121]
AA15	VCC[055]	VCC[122]
AA17	VCC[056]	VCC[123]
AA18	VCC[057]	VCC[124]
AA20	VCC[058]	VCC[125]
AB9	VCC[059]	VCC[126]
AB10	VCC[060]	VCC[127]
AB12	VCC[061]	VCC[128]
AB14	VCC[062]	VCC[129]
AB15	VCC[063]	VCC[130]
AB17	VCC[064]	VCC[131]
AB18	VCC[065]	VCC[132]
AB18	VCC[066]	VCC[133]
AB18	VCC[067]	VCC[134]

Merom Ball-out Rev 1a

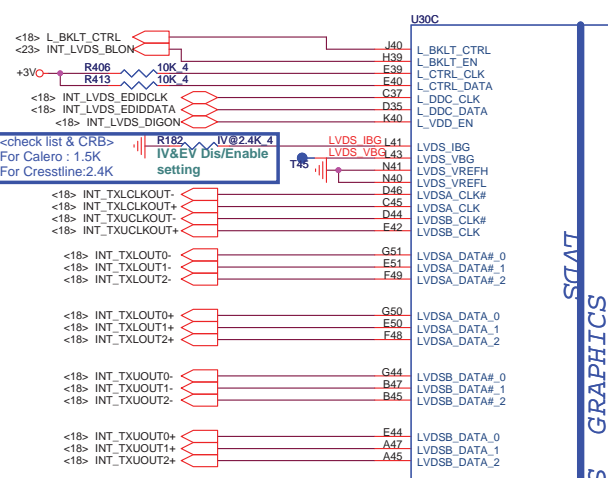


U22D		
A4	VSS[001]	VSS[082]
A8	VSS[002]	VSS[083]
A11	VSS[003]	VSS[084]
A14	VSS[004]	VSS[085]
A16	VSS[005]	VSS[086]
A19	VSS[006]	VSS[087]
A23	VSS[007]	VSS[088]
AF2	VSS[008]	VSS[089]
B6	VSS[009]	VSS[090]
B8	VSS[010]	VSS[091]
B11	VSS[011]	VSS[092]
B13	VSS[012]	VSS[093]
B16	VSS[013]	VSS[094]
B19	VSS[014]	VSS[095]
B24	VSS[015]	VSS[096]
C2	VSS[016]	VSS[097]
C5	VSS[017]	VSS[098]
C8	VSS[018]	VSS[099]
C14	VSS[019]	VSS[100]
C16	VSS[021]	VSS[102]
C19	VSS[022]	VSS[103]
C22	VSS[023]	VSS[104]
C25	VSS[024]	VSS[105]
D1	VSS[025]	VSS[106]
D1	VSS[026]	VSS[107]
D4	VSS[027]	VSS[108]
D8	VSS[028]	VSS[109]
D11	VSS[029]	VSS[110]
D13	VSS[030]	VSS[111]
D16	VSS[031]	VSS[112]
D19	VSS[032]	VSS[113]
D23	VSS[033]	VSS[114]
D26	VSS[034]	VSS[115]
E3	VSS[035]	VSS[116]
E6	VSS[036]	VSS[117]
E8	VSS[037]	VSS[118]
E11	VSS[038]	VSS[119]
E14	VSS[039]	VSS[120]
E16	VSS[040]	VSS[121]
E19	VSS[041]	VSS[122]
E21	VSS[042]	VSS[123]
E24	VSS[043]	VSS[124]
F5	VSS[044]	VSS[125]
F8	VSS[045]	VSS[126]
F11	VSS[046]	VSS[127]
F13	VSS[047]	VSS[128]
F16	VSS[048]	VSS[129]
F19	VSS[049]	VSS[130]
F2	VSS[050]	VSS[131]
F22	VSS[051]	VSS[132]
G4	VSS[052]	VSS[133]
F25	VSS[053]	VSS[134]
G1	VSS[054]	VSS[135]
G23	VSS[055]	VSS[136]
G26	VSS[056]	VSS[137]
H3	VSS[057]	VSS[138]
H6	VSS[058]	VSS[139]
H21	VSS[059]	VSS[140]
H24	VSS[060]	VSS[141]
J5	VSS[061]	VSS[142]
J2	VSS[062]	VSS[143]
J22	VSS[063]	VSS[144]
J25	VSS[064]	VSS[145]
K4	VSS[065]	VSS[146]
K1	VSS[066]	VSS[147]
K23	VSS[067]	VSS[148]
K26	VSS[068]	VSS[149]
L3	VSS[069]	VSS[150]
L6	VSS[070]	VSS[151]
L21	VSS[071]	VSS[152]
L24	VSS[072]	VSS[153]
M2	VSS[073]	VSS[154]
M5	VSS[074]	VSS[155]
M22	VSS[075]	VSS[156]
M25	VSS[076]	VSS[157]
N1	VSS[077]	VSS[158]
N4	VSS[078]	VSS[159]
N23	VSS[079]	VSS[160]
N26	VSS[080]	VSS[161]
P3	VSS[081]	VSS[162]
		VSS[163]

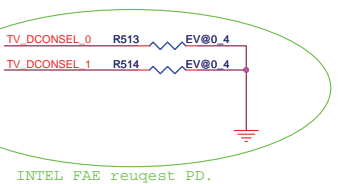
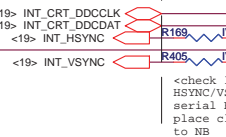
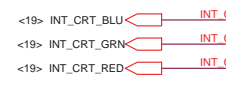
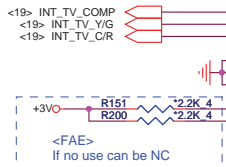
Merom Ball-out Rev 1a

PROJECT : ZD1
Quanta Computer Inc.

Size: Document Number: CPU(2 of 2) Rev: E
Date: Monday, May 07, 2007 Sheet: 4 of 38

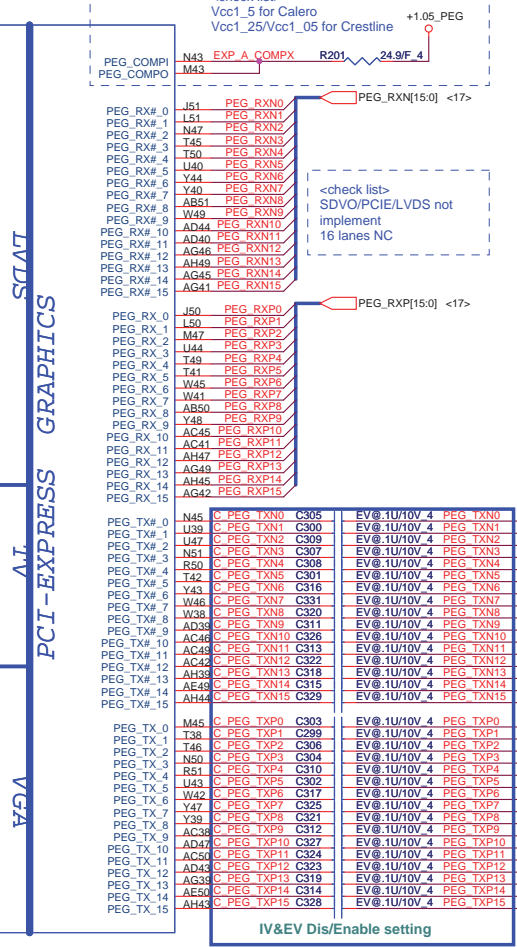


<check list & CRB>
For Calero : 1.5K
For Cresline:2.4K
IV&EV Dis/Enable setting



INTEL FAE request PD.

IV&EV Dis/Enable setting
<check list & CRB>
For Calero : 255
For Cresline:1.3K/F
For external VGA:0 ohm
Flexible and safe



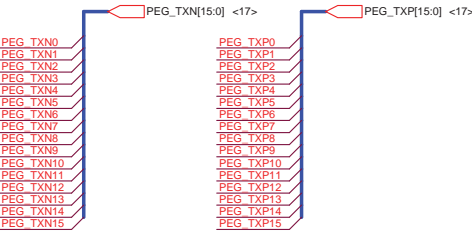
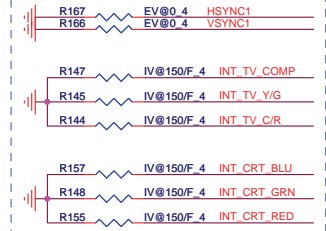
<check list>
Vcc1_5 for Calero
Vcc1_25/Vcc1_05 for Cresline
+1.05_PEG

<check list>
SDVO/PCIE/LVDS not implement
16 lanes NC

IV&EV Dis/Enable setting

<check list>
For EV@
Connect to GND
CRT R/G/B
TV A/B/C
HSYNC/VSYNC

<check list>
For IV@
Connect to 150ohm
CRT R/G/B
TV A/B/C
Connect to 30ohm
HSYNC/VSYNC



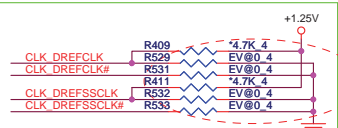
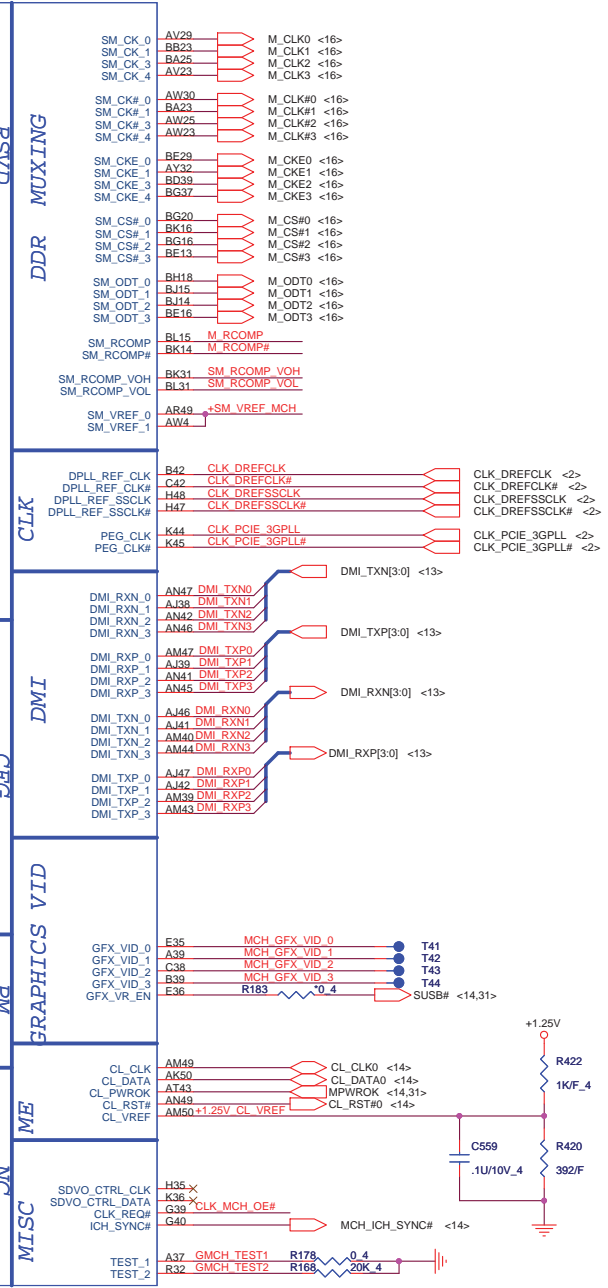
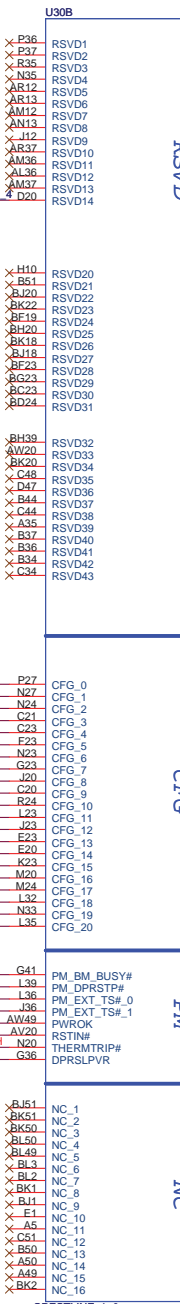
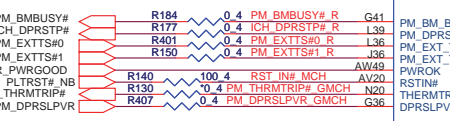
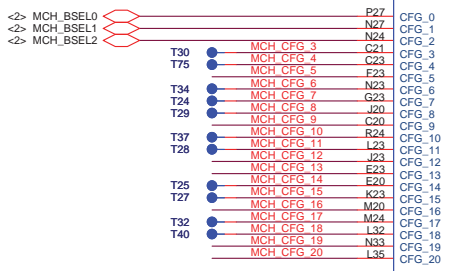
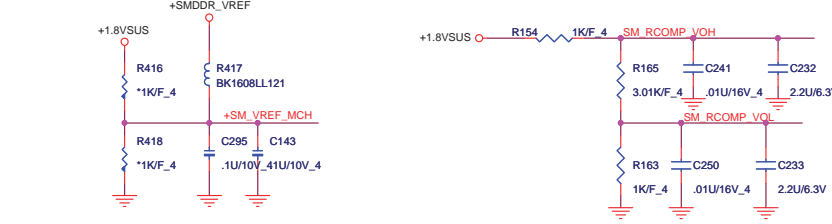
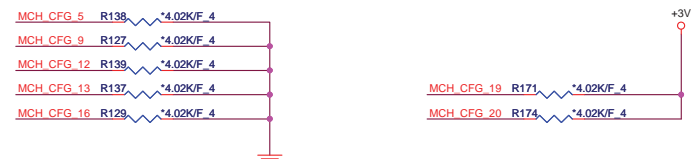
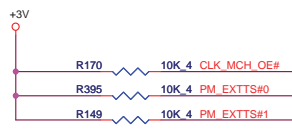
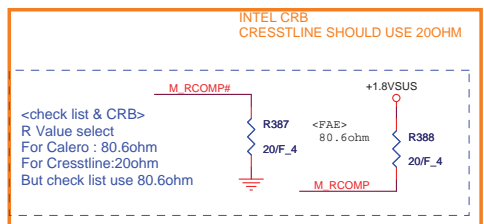
STAT
PCI-EXPRESS
VGA


CRESTLINE_1p0

Strapping table

All strap are sampled with respect to the leading edge of the GMCH power ok signal
 CFG[17:3] have internal pull-up
 CFG[18:19] have internal pull-down
 Any CFG signal strapping option not list below should be left NC pin

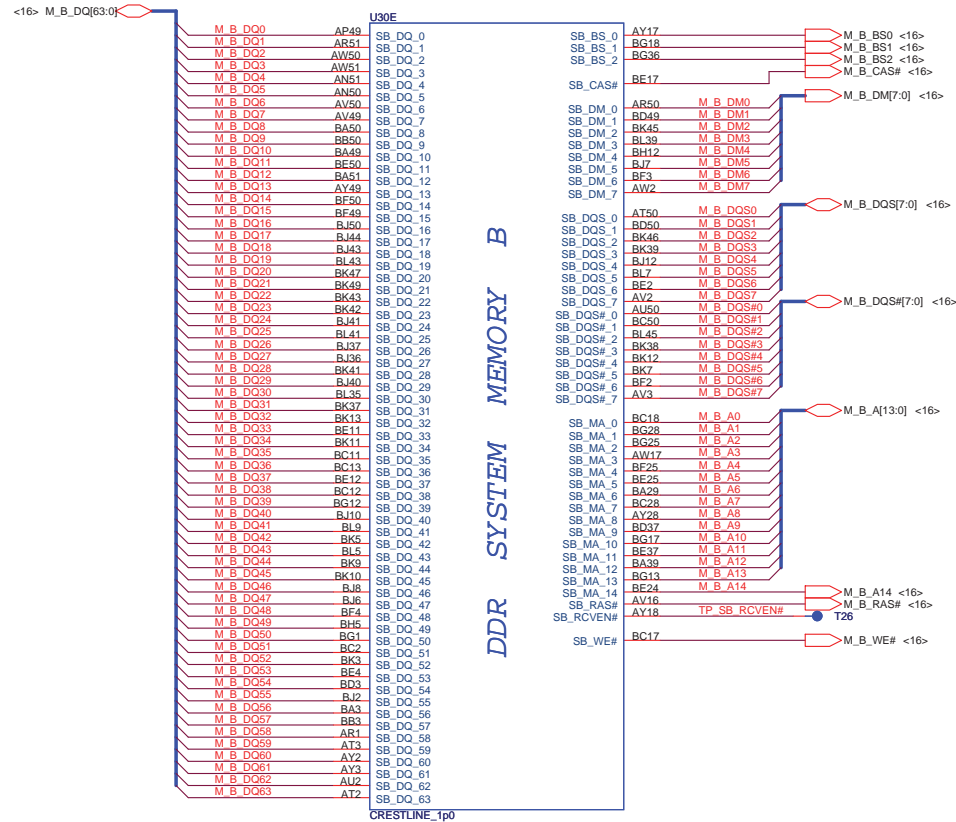
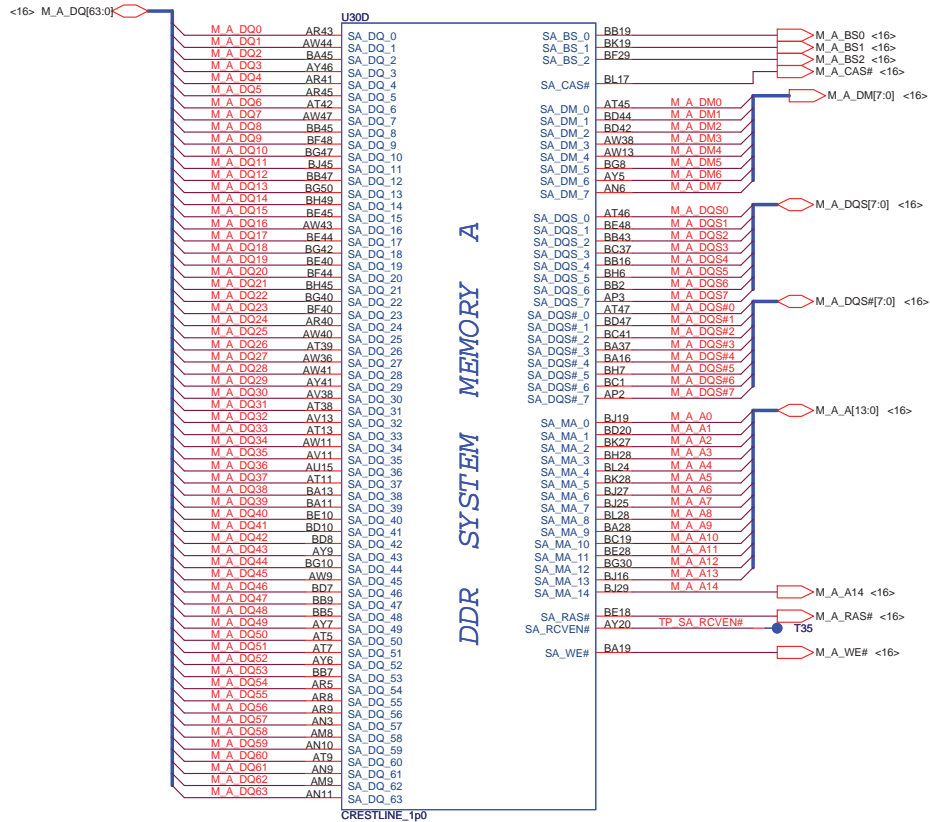
Pin Name	Strap Description	Configuration
CFG[2:0]	FSB Frequency Select	010 = FSB 800MHz 011 = FSB 667MHz
CFG[4:3]	Reserved	
CFG5	DMI X2 Select	0 = DMI X2 1 = DMI X4 (Default)
CFG6	Reserved	
CFG7	CPU Strap	0 = Reserved 1 = Mobile CPU (Default)
CFG8	Low Power PCI Express	0 = Normal mode 1 = Low Power mode
CFG9	PCI Express Graphics Lane Reversal	0 = Reserved Lanes 1 = Normal operation (Default)
CFG[11:10]	Reserved	
CFG[13:12]	XOR/ ALLZ/ Clock Un gating	00 = Clock gating disable 01 = ALLZ Mode Enable 10 = XOR Mode Enable 11 = Normal Coperation (Default)
CFG[15:14]	Reserved	
CFG16	FSB Dynamic ODT	0 = Dynamic ODT disable 1 = Dynamic ODT Enable (Default)
CFG[18:17]	Reserved	
CFG19	DMI Lane Reversal	0 = Normal operation 1 = Reverse Lanes (Default)
CFG20	SDVO/PCIe concurrent	0 = Only SDVO or PCIe x1 is operation (Default) 1 = SDVO and PCIe x1 are operating simultaneously via the PEG port
SDVO_CTRLDATA	SDVO Present	0 = No SDVO Card present (Default) 1 = SDVO Card Present





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Size	Document Number	Rev
	GMCH (STRAPPING/OTHER 3/7)	E
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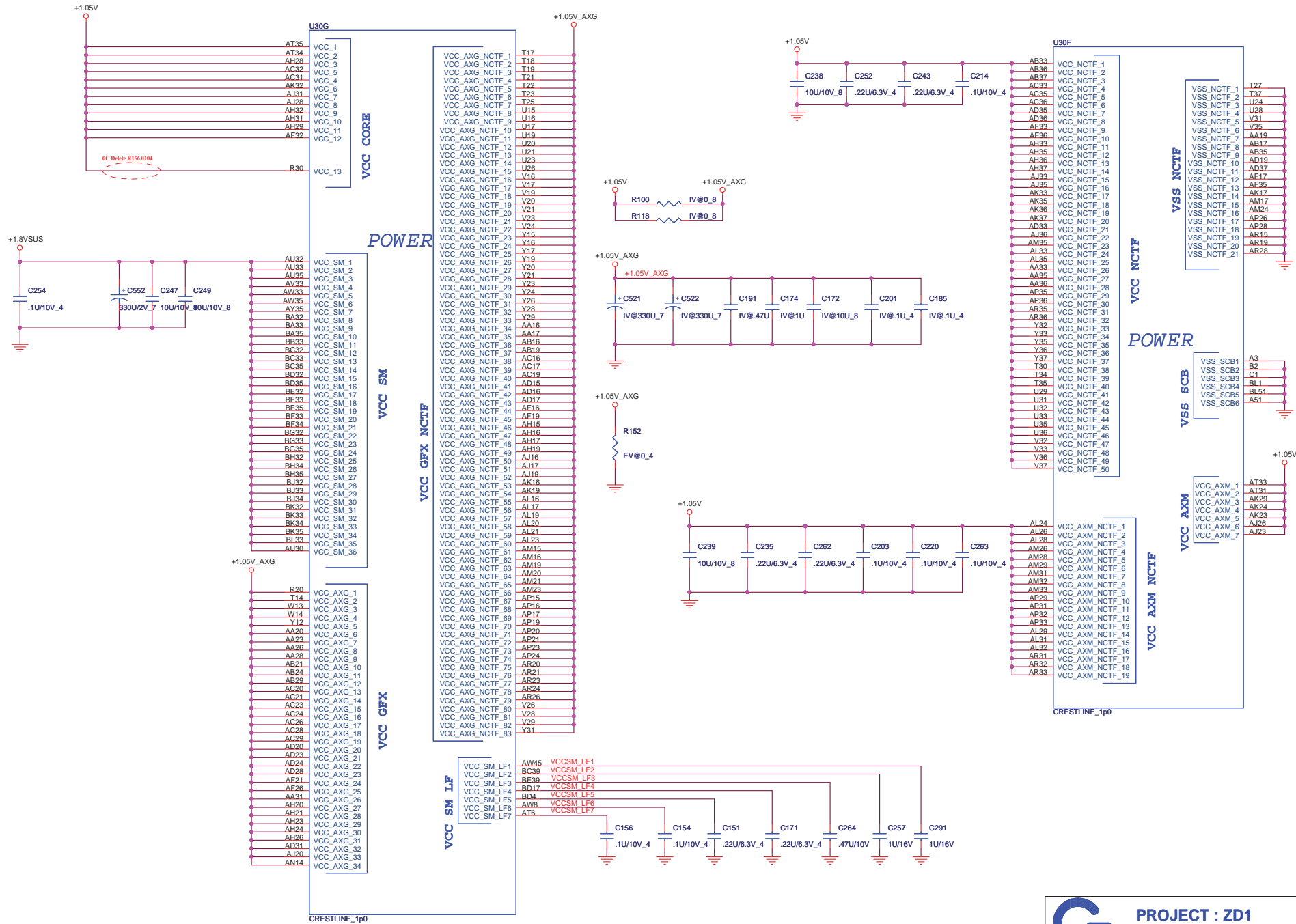


PROJECT : ZD1
Quanta Computer Inc.

Size: Document Number
GMCH DDR(4/7)

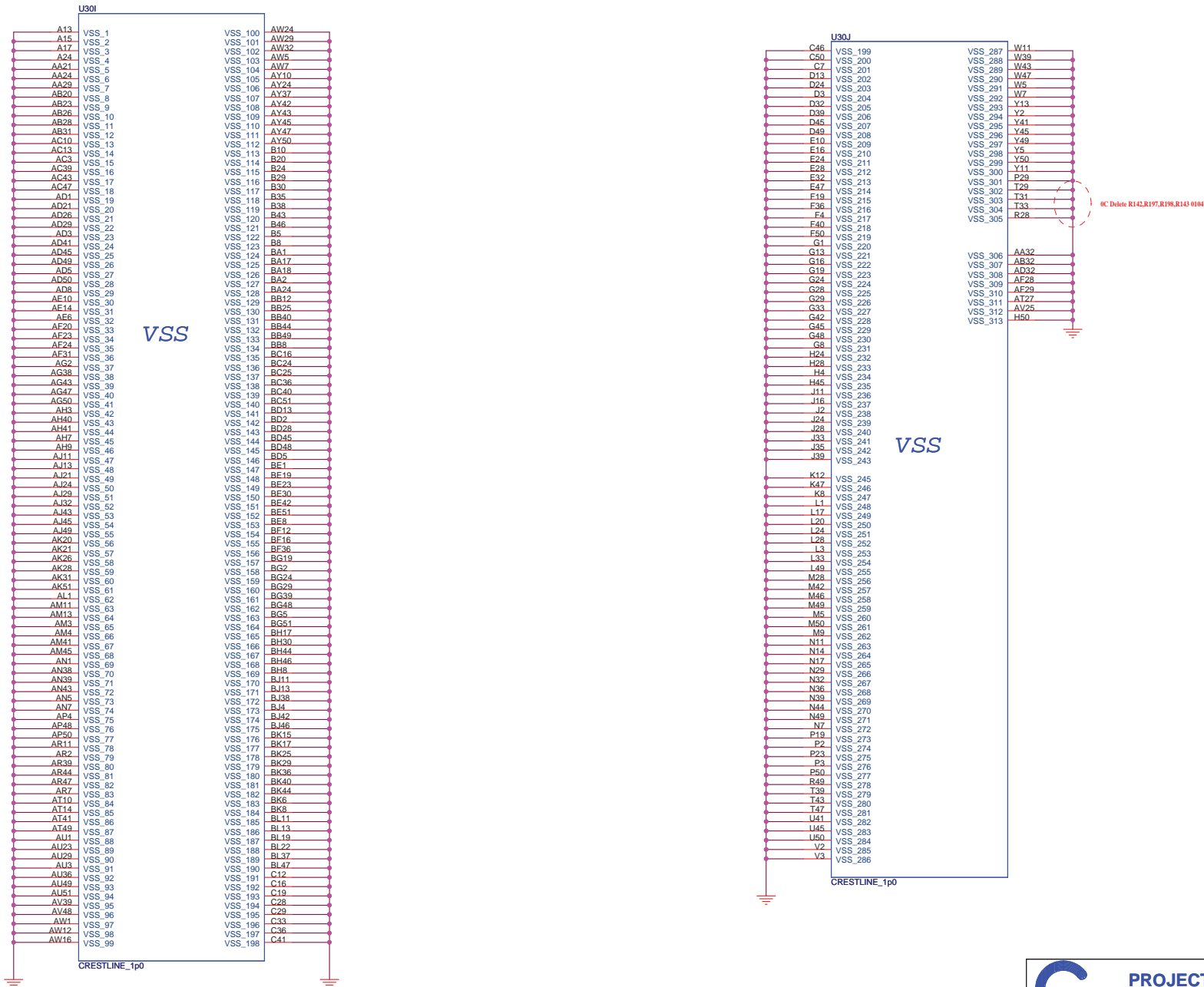
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NB(Power-1)



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Quanta Computer Inc.

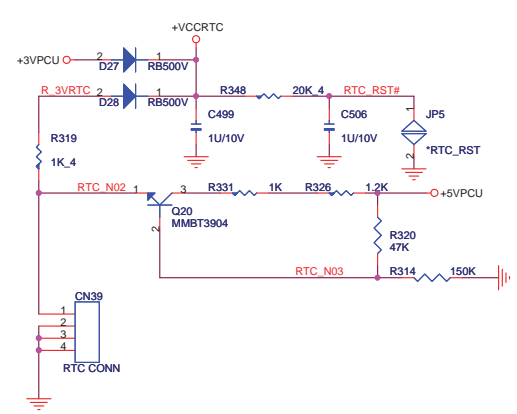
Size	Document Number	Rev
	GMCH Power-1(5/7)	E
Date:	Wednesday, April 25, 2007	Sheet 9 of 38



PROJECT : ZD1
Quanta Computer Inc.

Size	Document Number	Rev
	GMCH Power-3(7/7)	E
Date:	Wednesday, April 25, 2007	Sheet 11 of 38

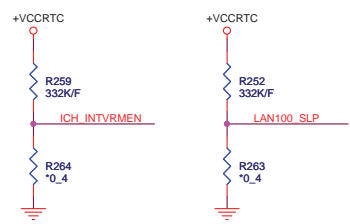
RTC



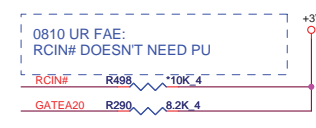
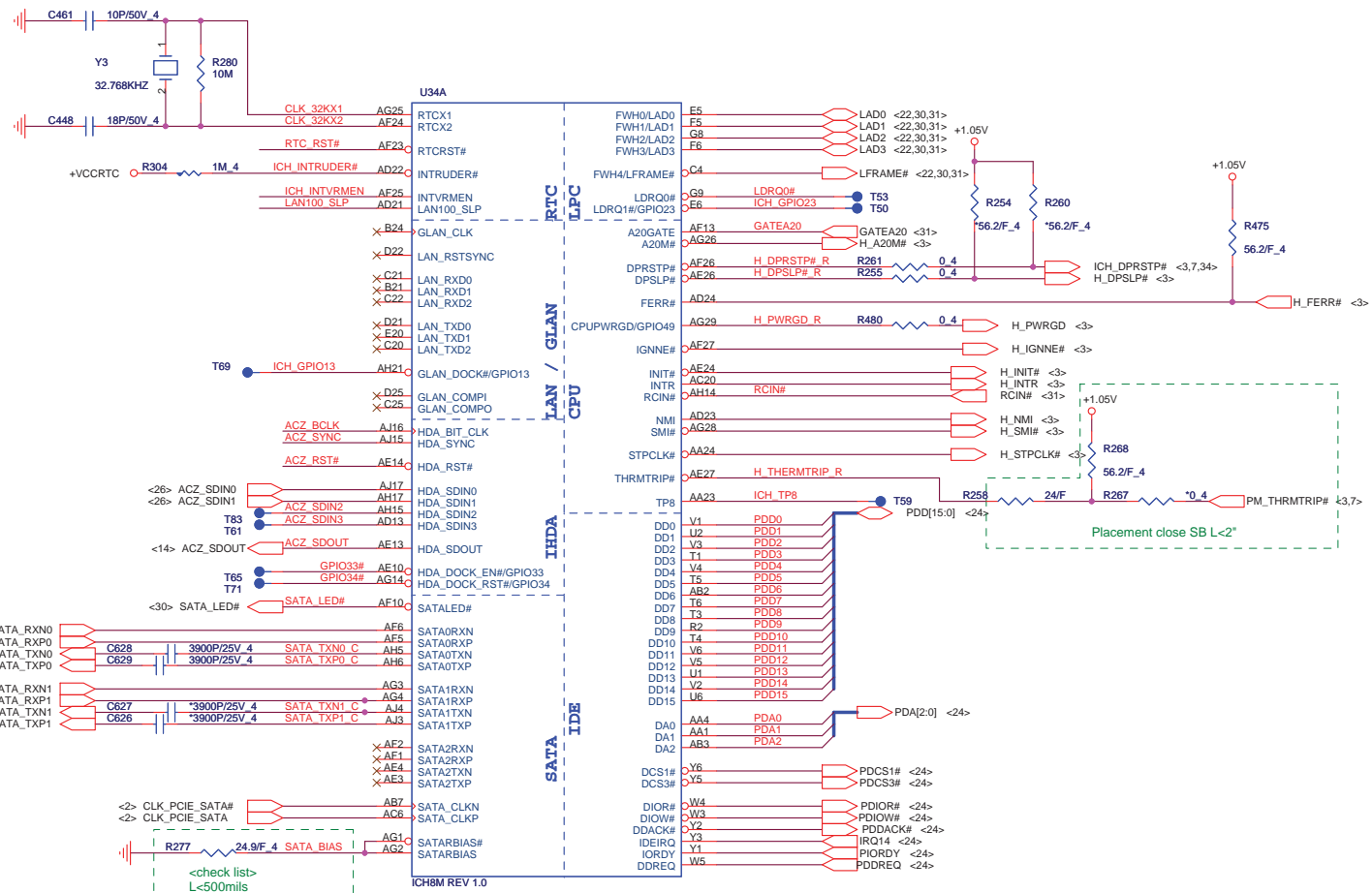
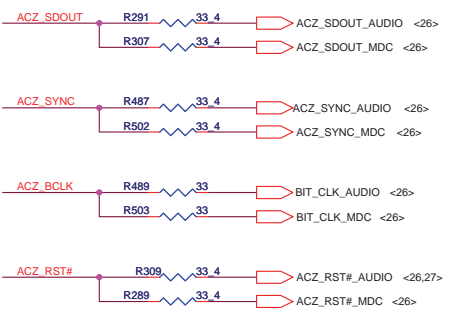
SB Strap

INTVRMEN	Low = Internal VR disable High = Internal VR enable(Default)
----------	---

LAN100_SLP	Low = Internal VR disable High = Internal VR enable(Default)
------------	---



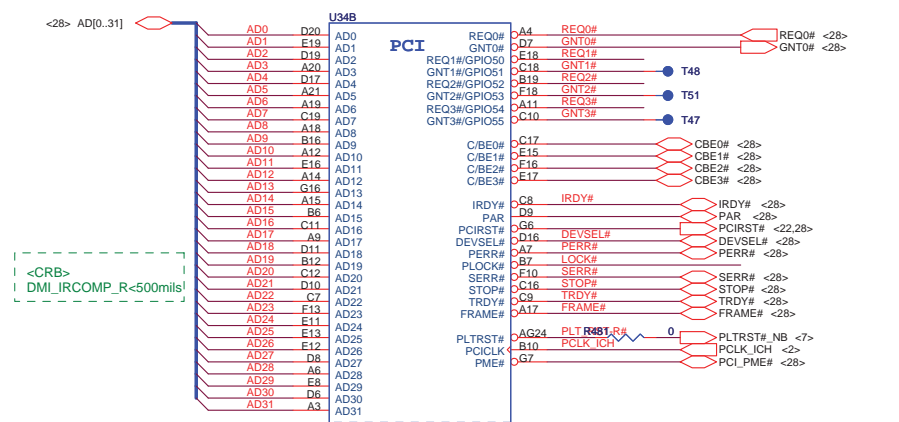
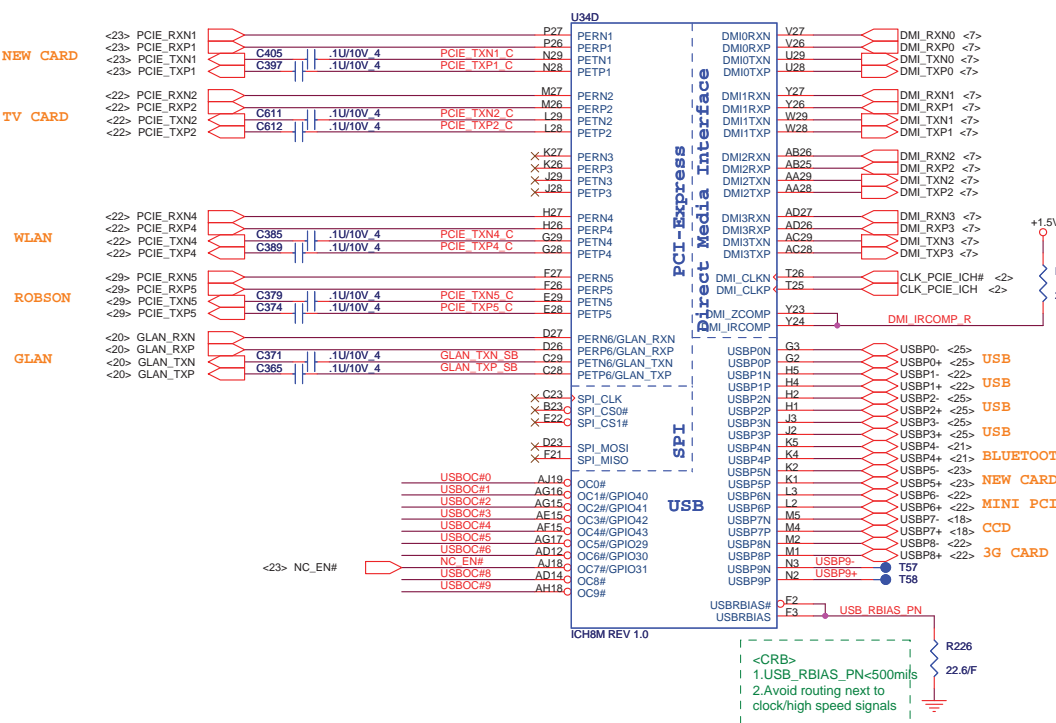
HDA



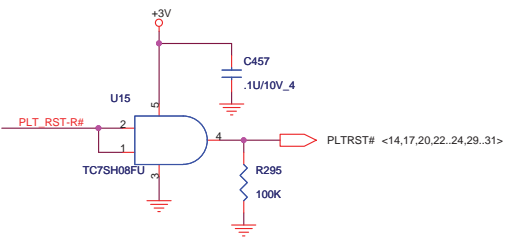
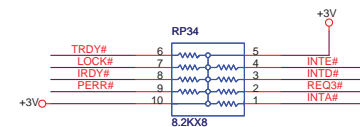
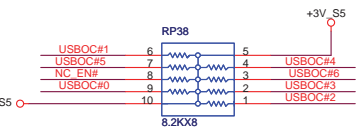
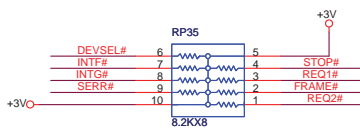
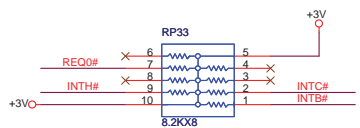
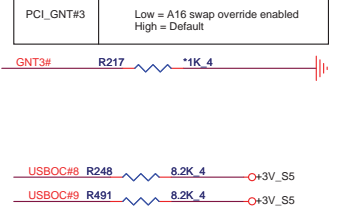
PROJECT : ZD1
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SB-PCIE/USB/DMI

SB-PCI



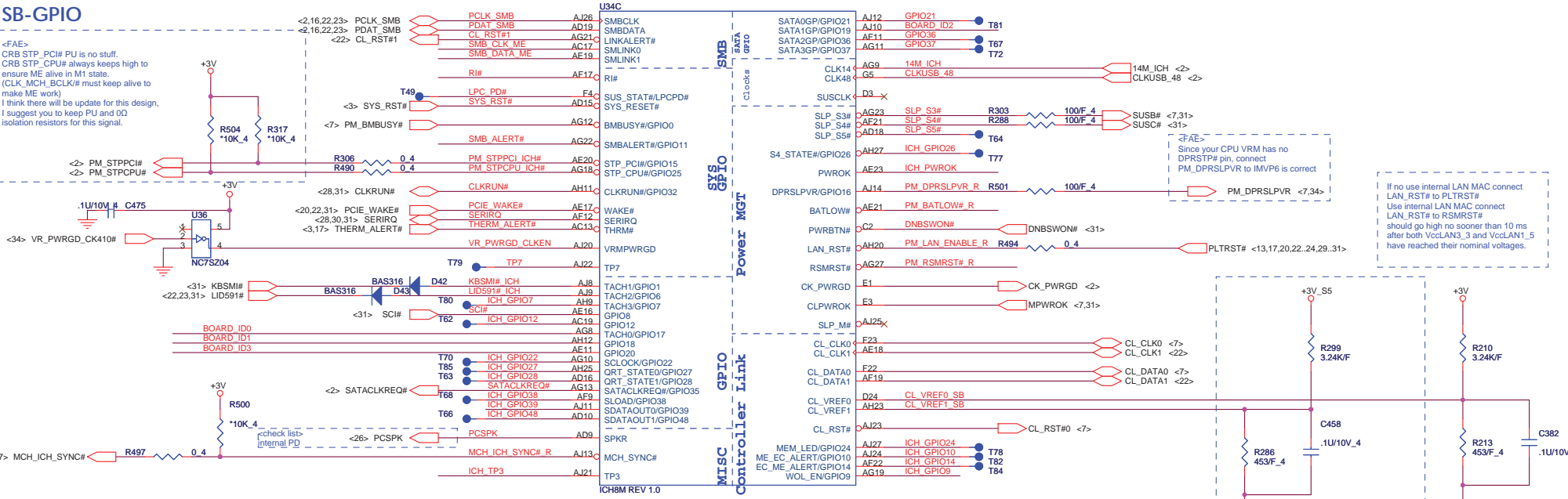
A16 SWAP Override strap



PROJECT : ZD1
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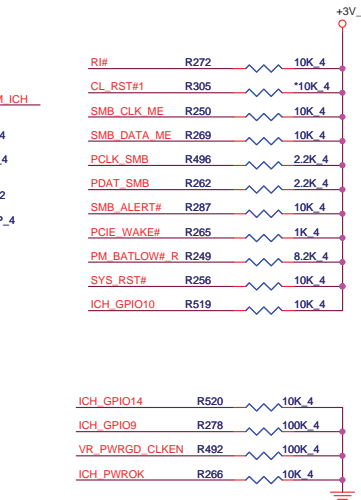
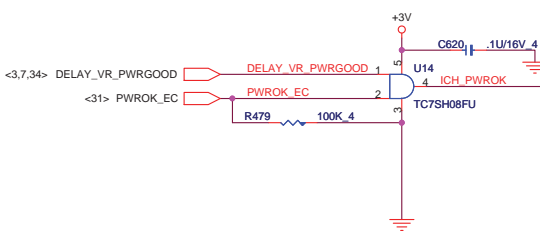
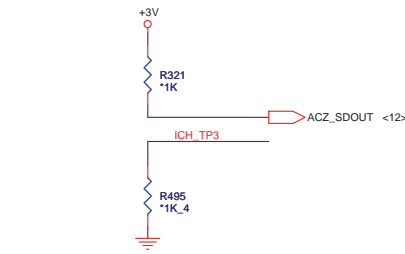
SB-GPIO

<FAE>
 CRB STP_PU# PU is no stuff.
 CRB STP_CPU# always keeps high to ensure ME alive in M1 state.
 (CLK_MCH_BCLK# must keep alive to make ME work)
 I think there will be update for this design.
 I suggest you to keep PU and OQ isolation resistors for this signal.



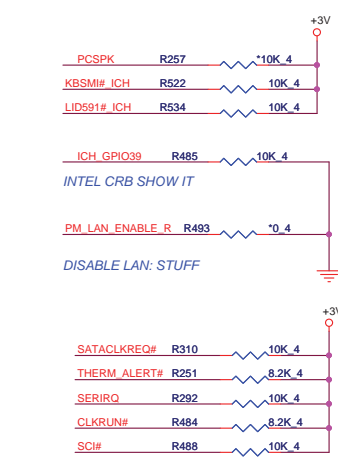
XOR Chain Entrance Strap

ICH_RSVD0	HDA_SDOUT	Description
0	0	RSVD
0	1	Enter XOR Chain
1	0	Normal operation(Default)
1	1	Set PCIe port config bit 1

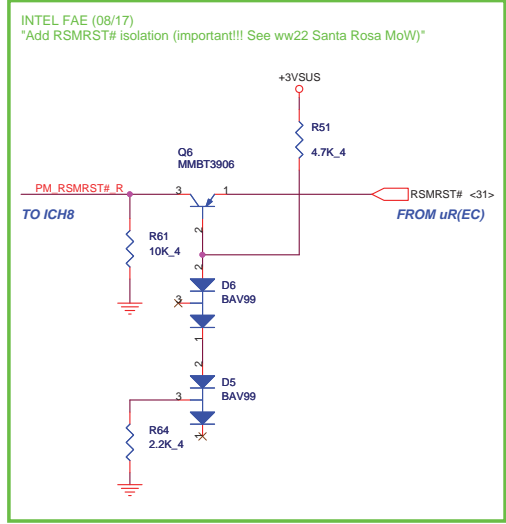
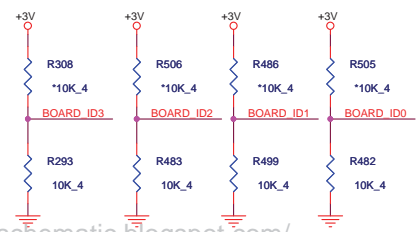


No Reboot strap

HDA_SPKR	Low = Default High = No Reboot
----------	-----------------------------------



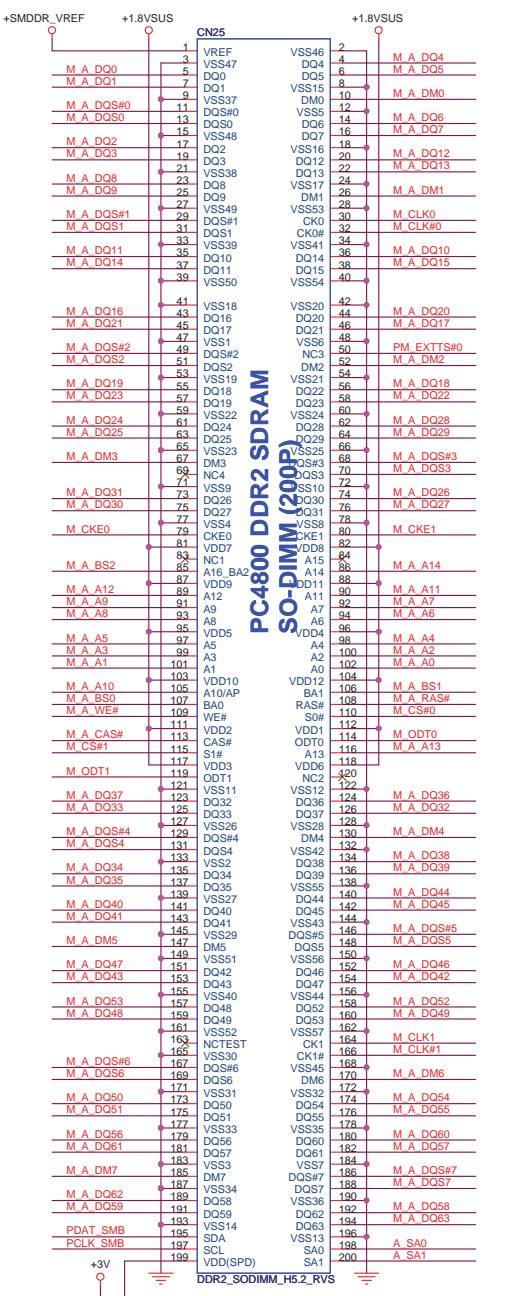
Board ID	ID3	ID2	ID1	ID0
	0	0	0	0
	0	0	0	1
	0	0	1	0
	0	0	1	1
	0	1	0	0



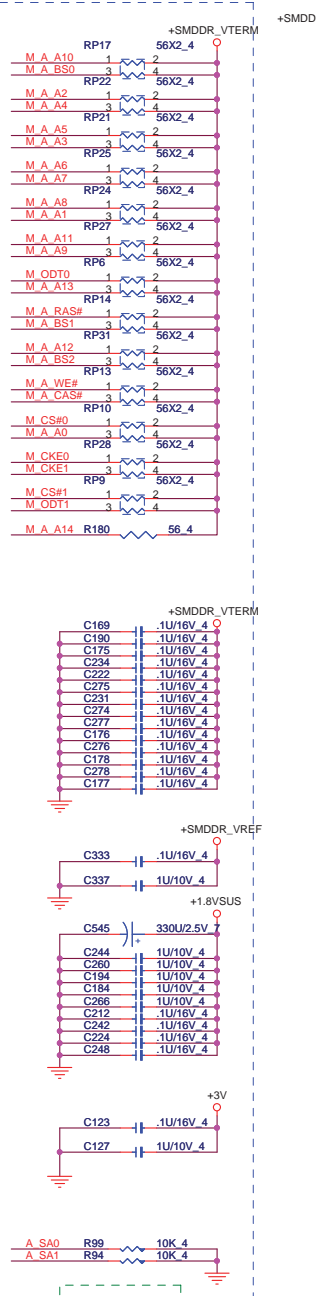
PROJECT : ZD1
Quanta Computer Inc.

Size: Document Number: **ICH8M GPIO(3/4)** Rev: E

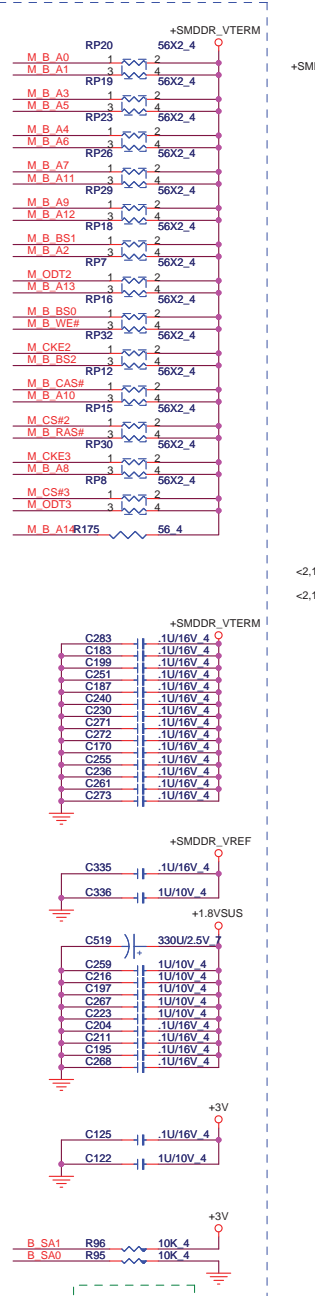
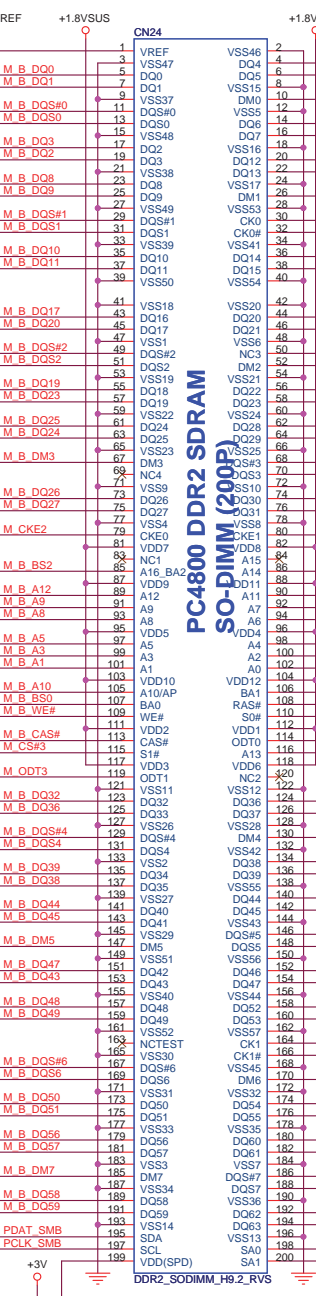
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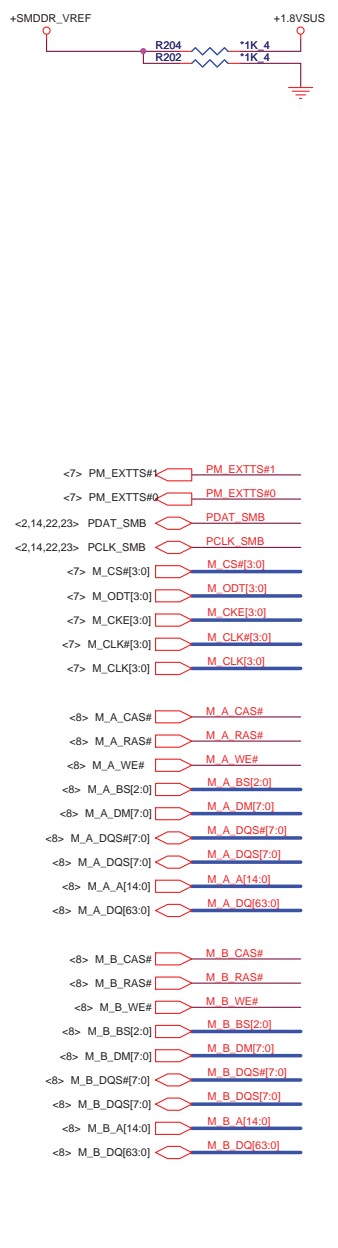
SO-DIMM0 SMbus address A0



SO-DIMM1 SMbus address A2



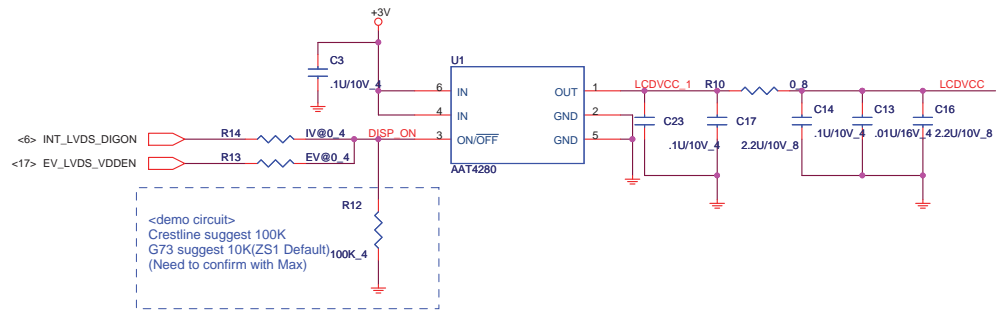
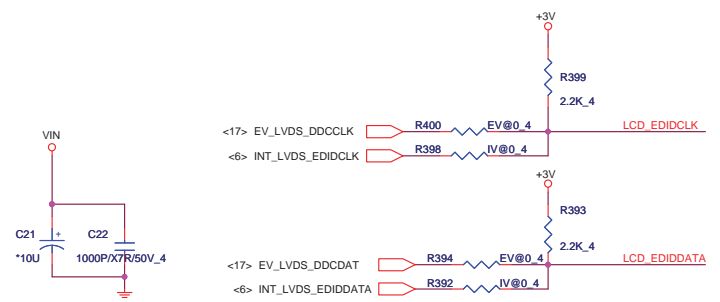
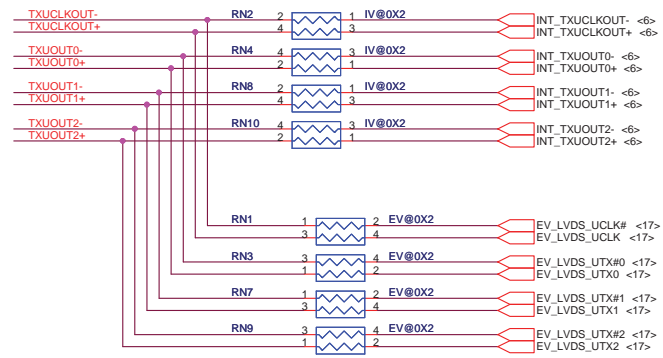
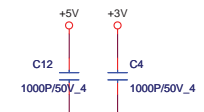
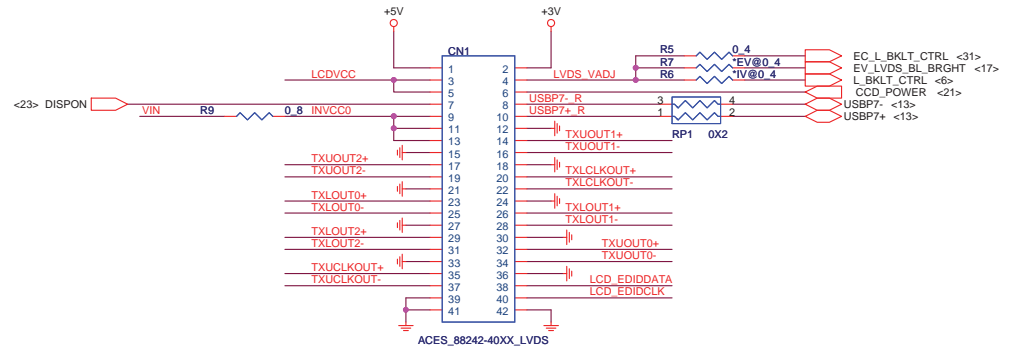
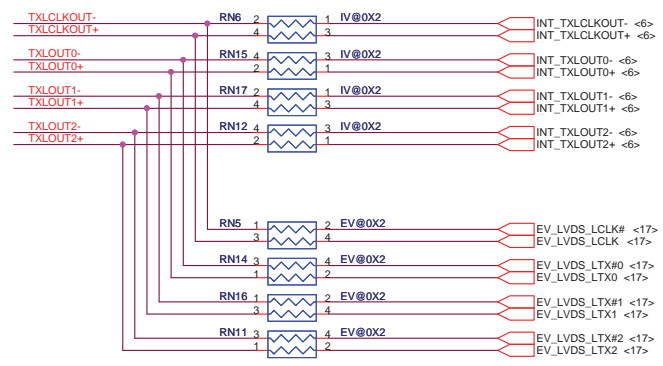
SO-DIMM3 SMbus address A2




SO-DIMM4 SMbus address A2

PROJECT : ZD1
Quanta Computer Inc.

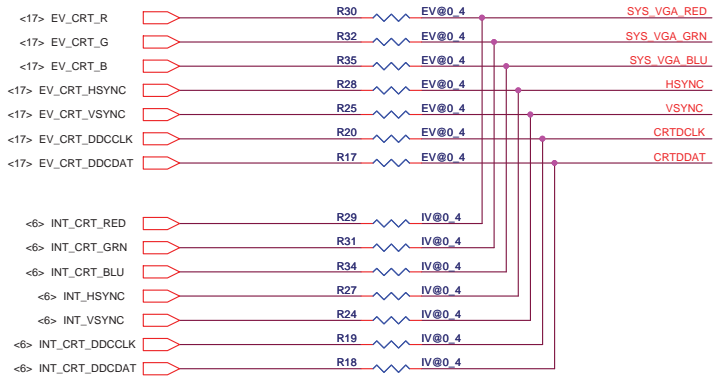
Size	Document Number	Rev
	DDR11 SO-DIMM	E
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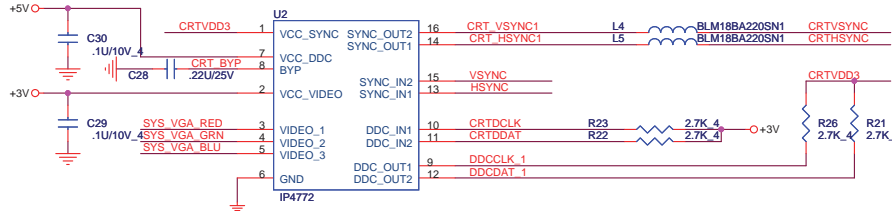
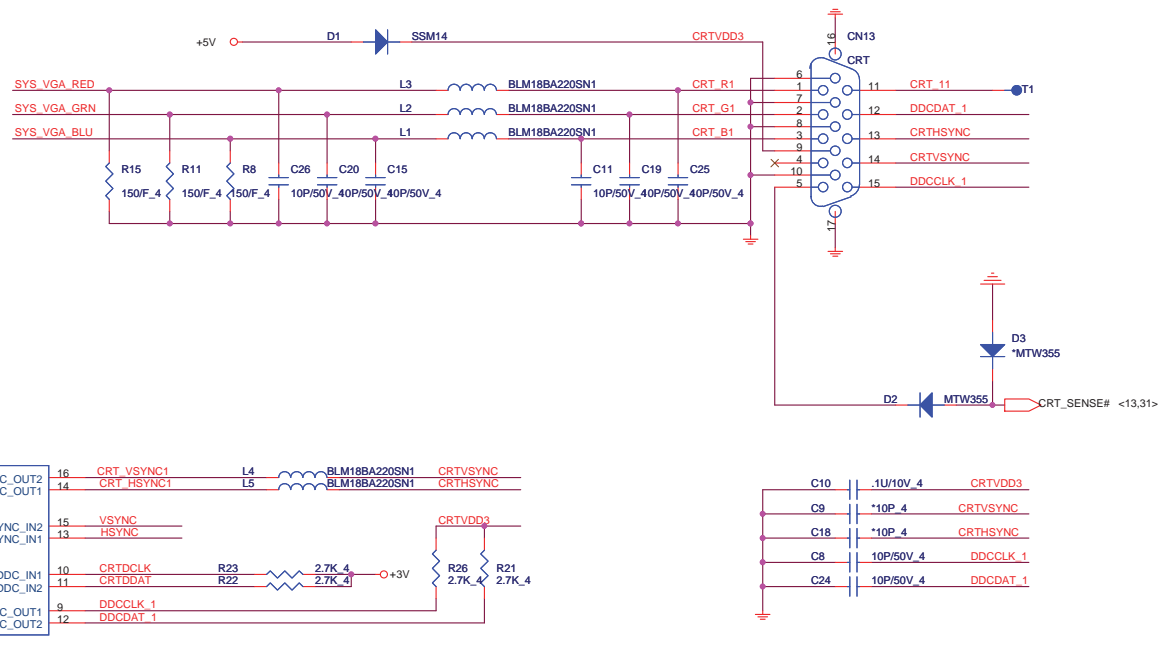

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Quanta Computer Inc.

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	LVDS	E
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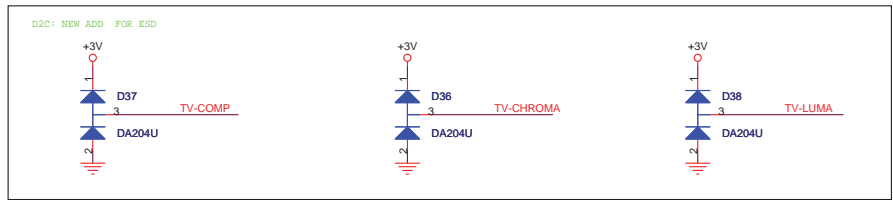
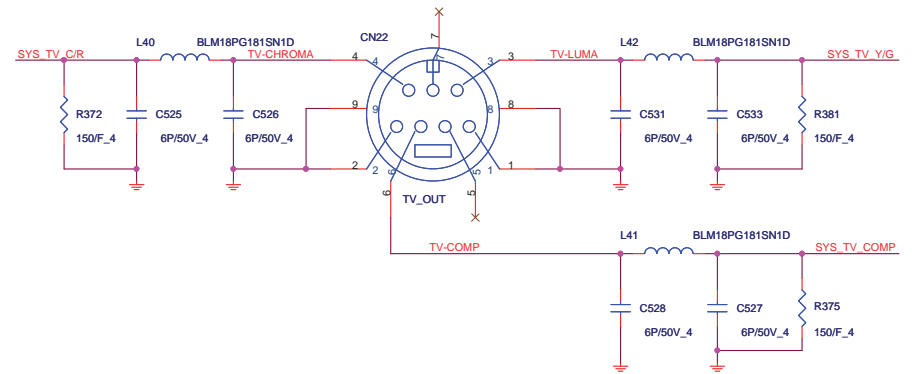
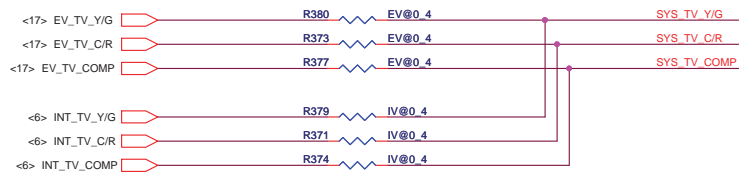
CRT Select



CRT CONNECTOR AND ESD



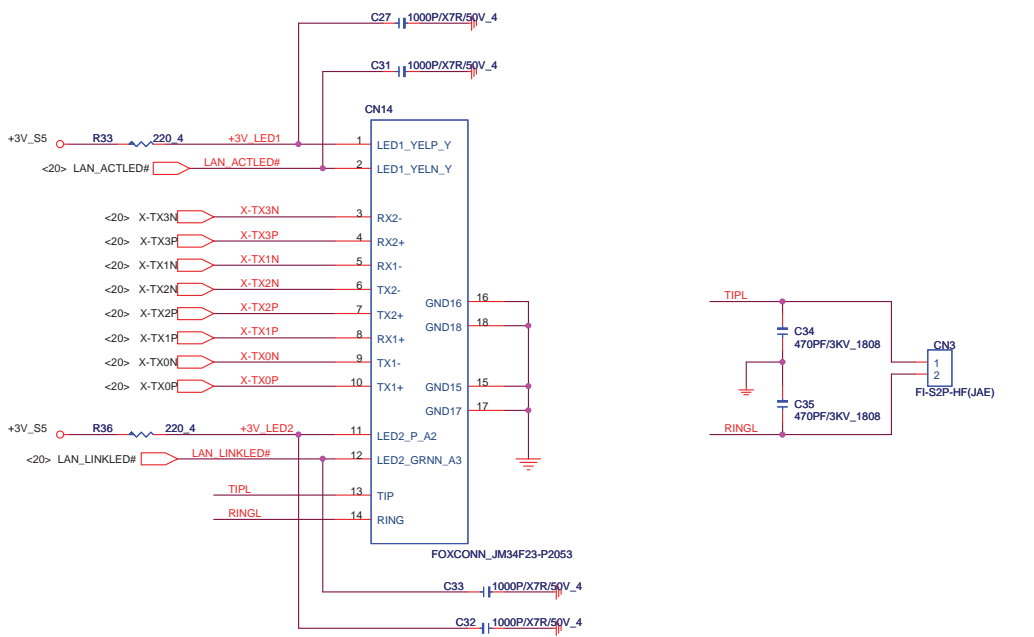
TV Out (SVHS) MiniDIN 7-pin



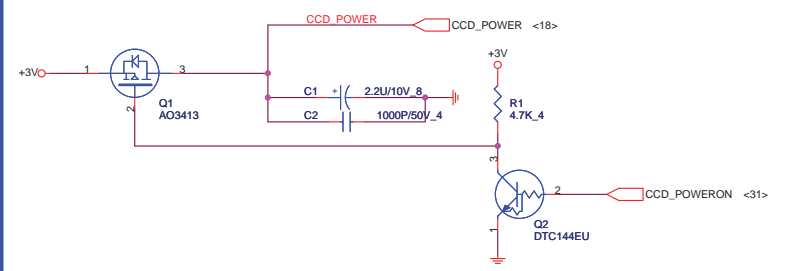
PROJECT : ZD1
Quanta Computer Inc.

Size	Document Number	Rev
	CRT/TVOUT	E
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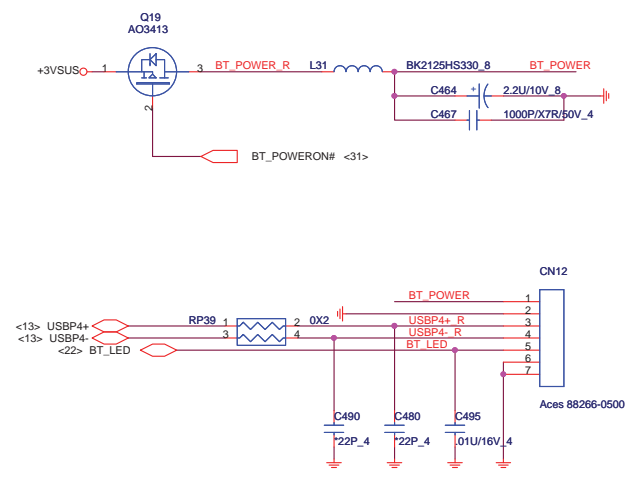
RJ45-11



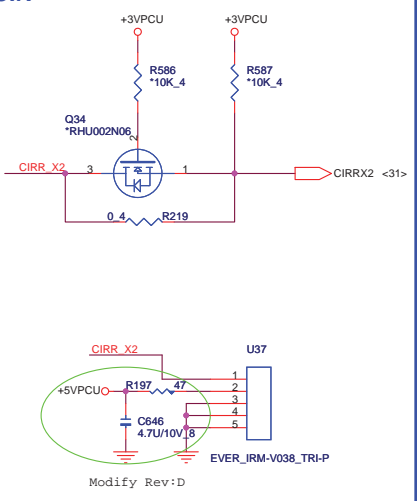
CAMERA MODULE CONNECTOR



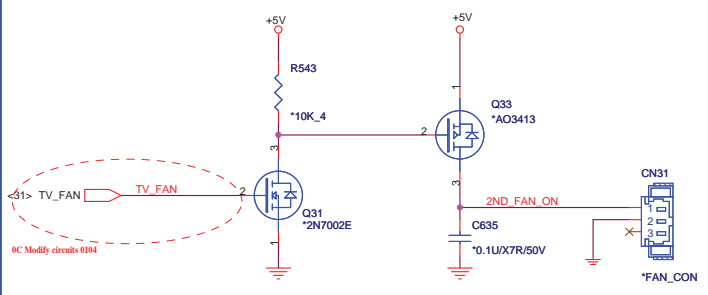
BLUETOOTH MODULE CONNECTOR



CIR



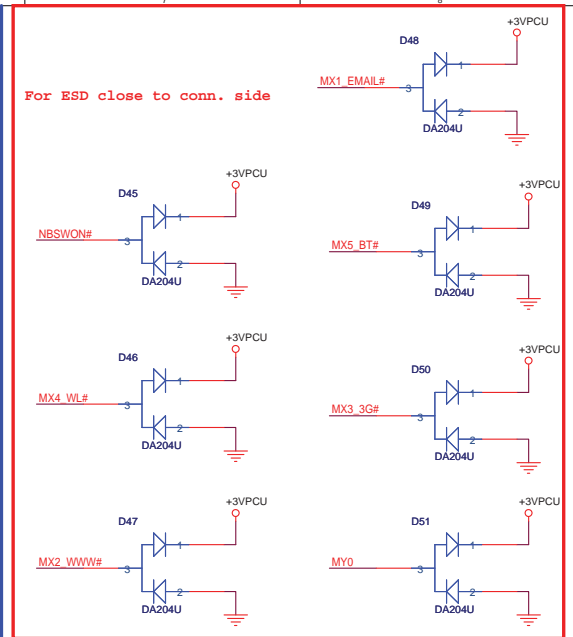
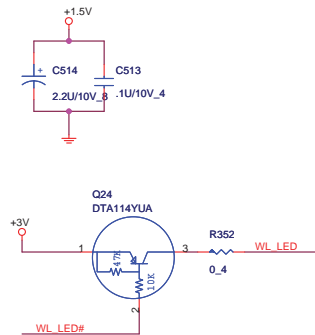
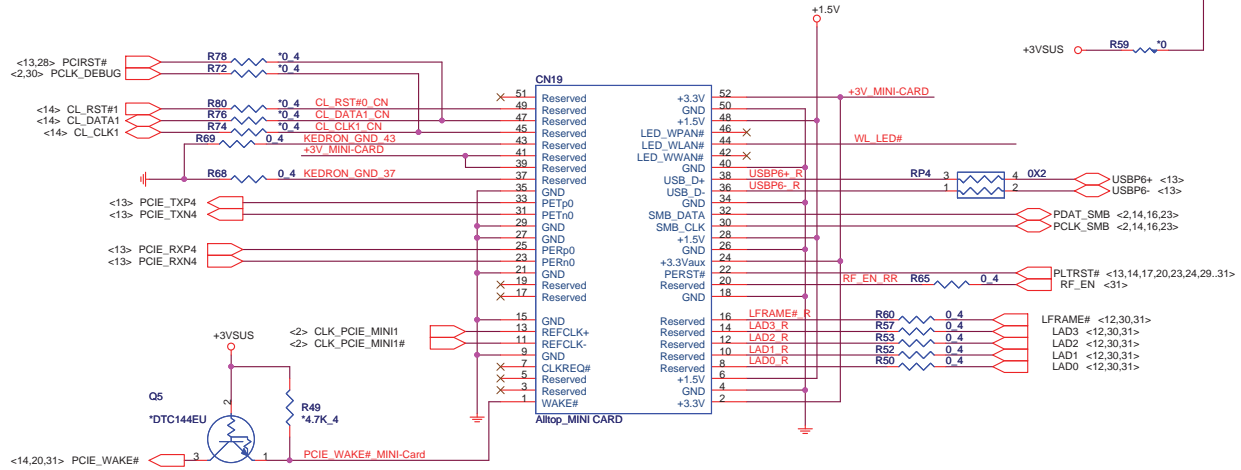
2nd FAN



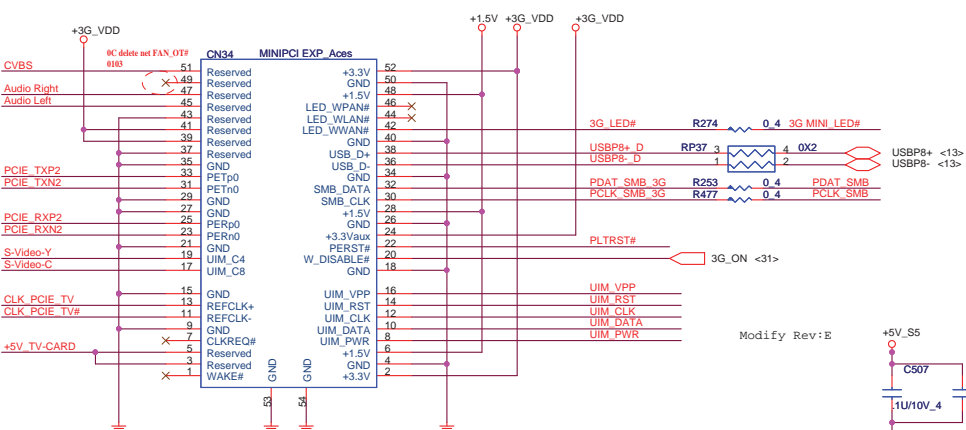
PROJECT : ZD1
Quanta Computer Inc.

Size	Document Number	Rev
	BT/CCD/RJ45-11/CIR/2nd FAN	E
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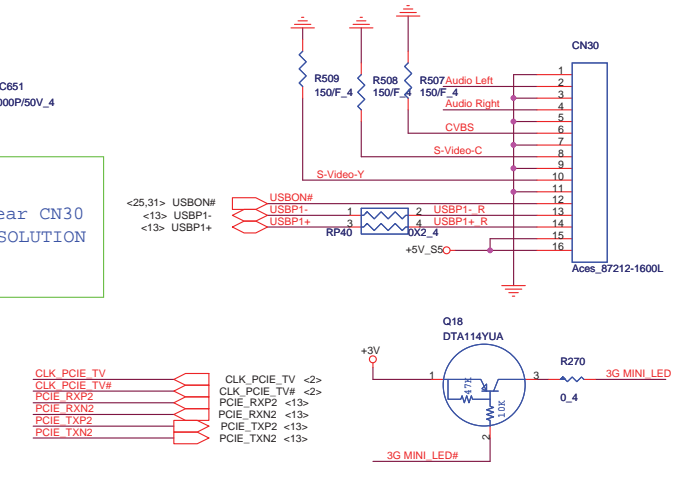
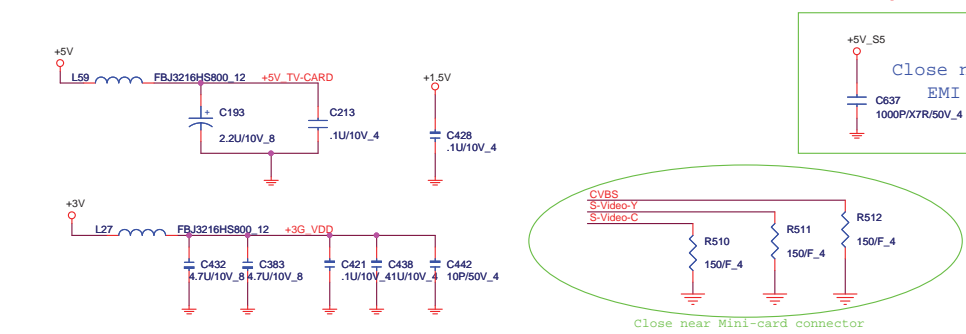
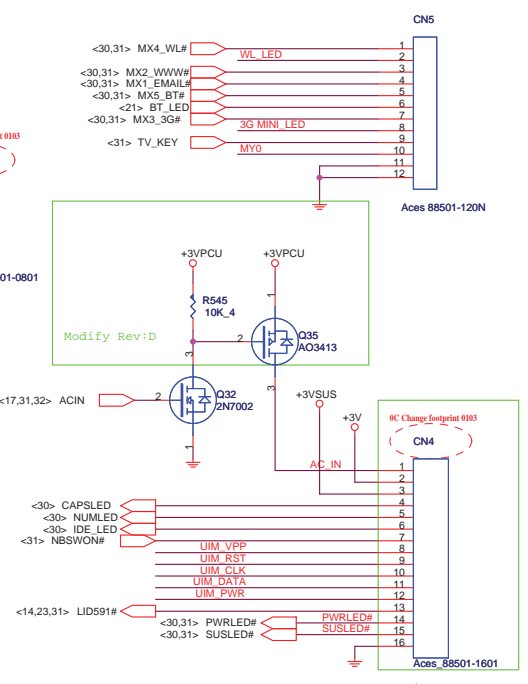
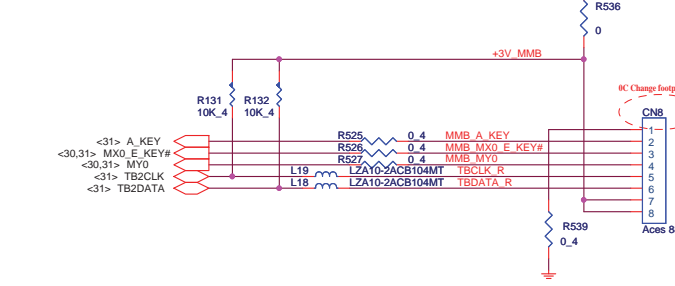
MINI-Card



3G/TV MINI CARD



Media Key

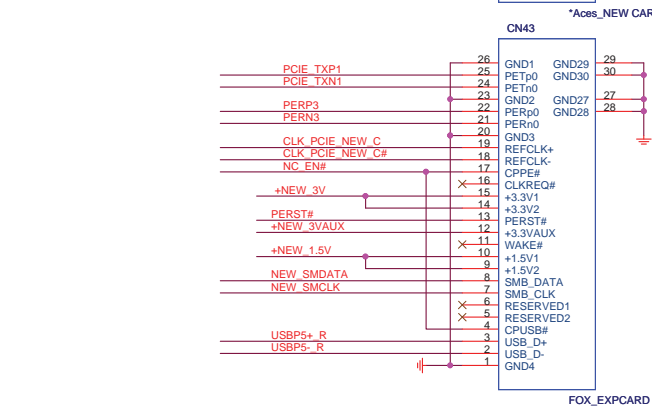
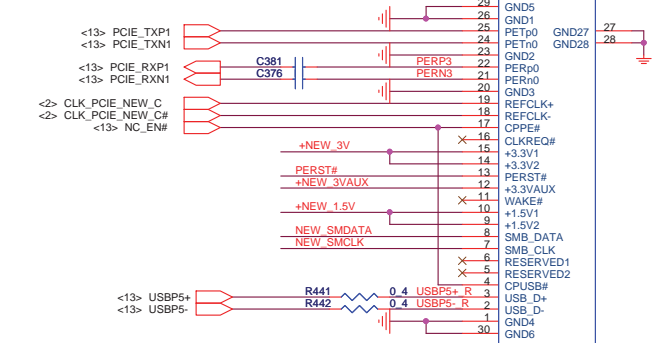


PROJECT : ZD1
Quanta Computer Inc.

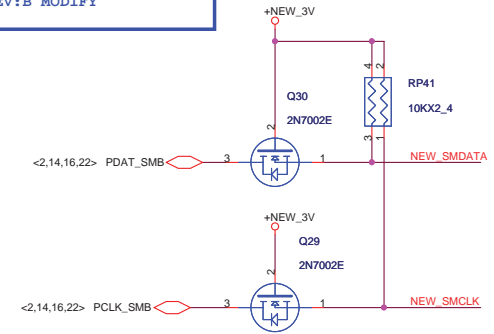
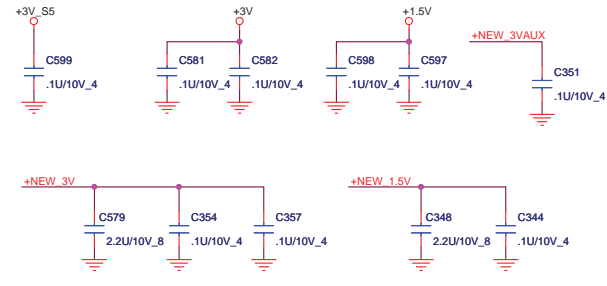
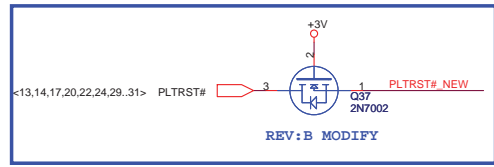
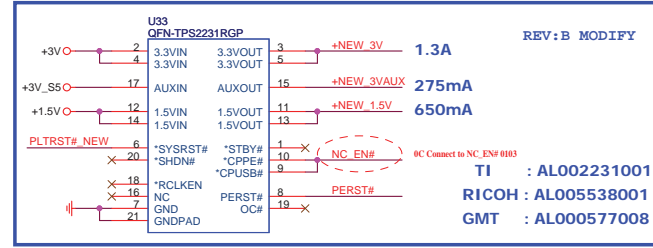
Size: Document Number
MINI PCI-E card/3G/TV/Media Key
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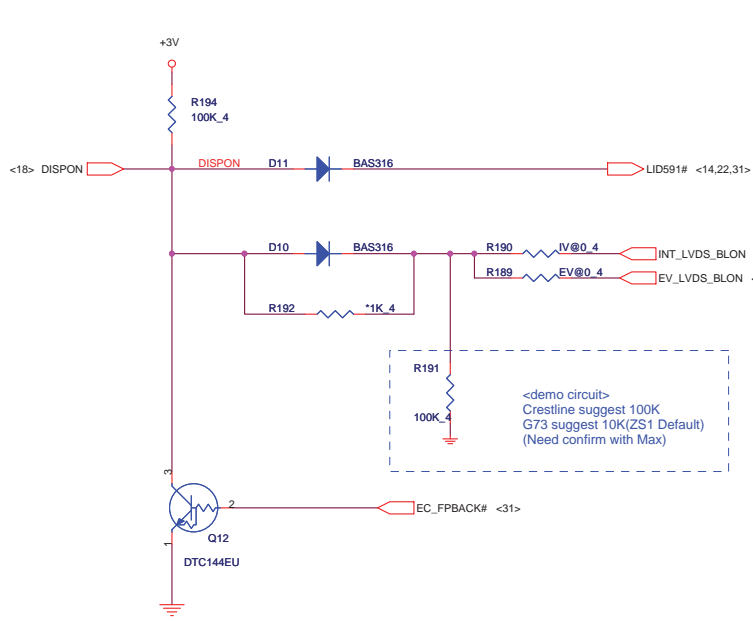
New card



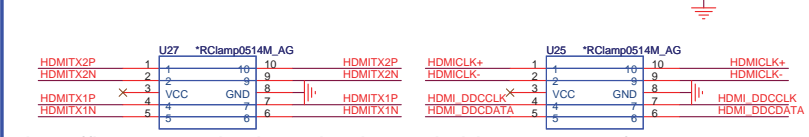
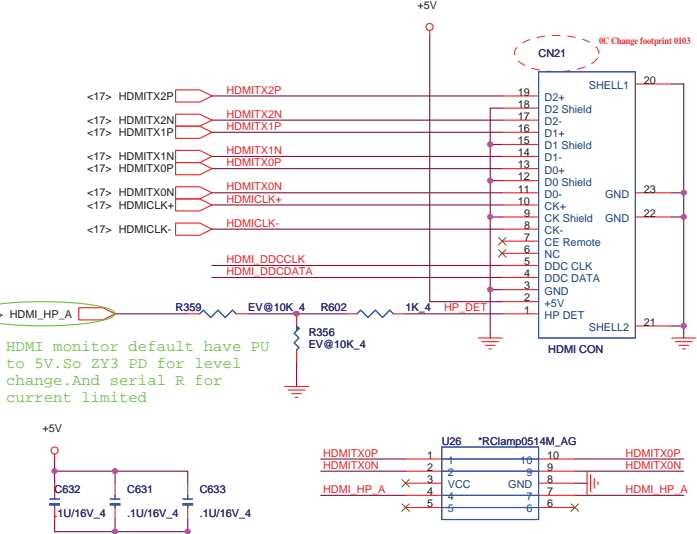
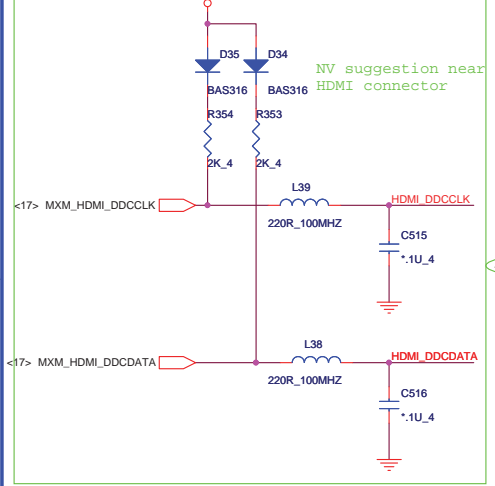
NEW CARD'S POWER SWITCH



LID SWITCH



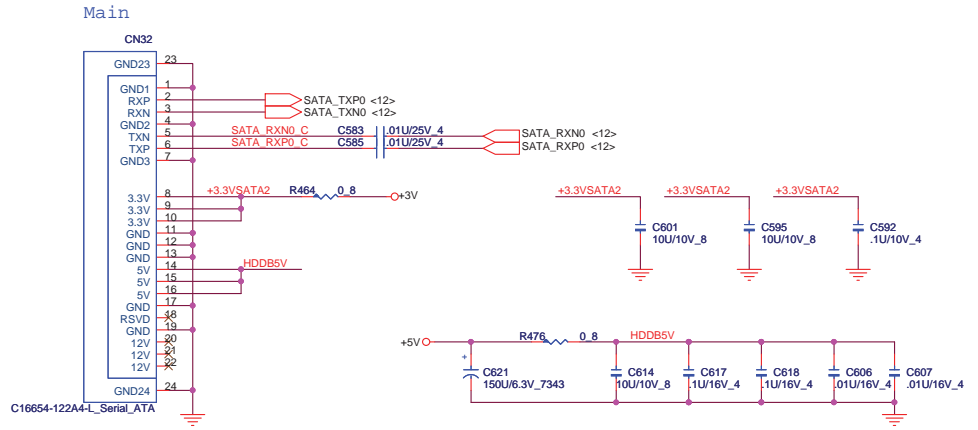
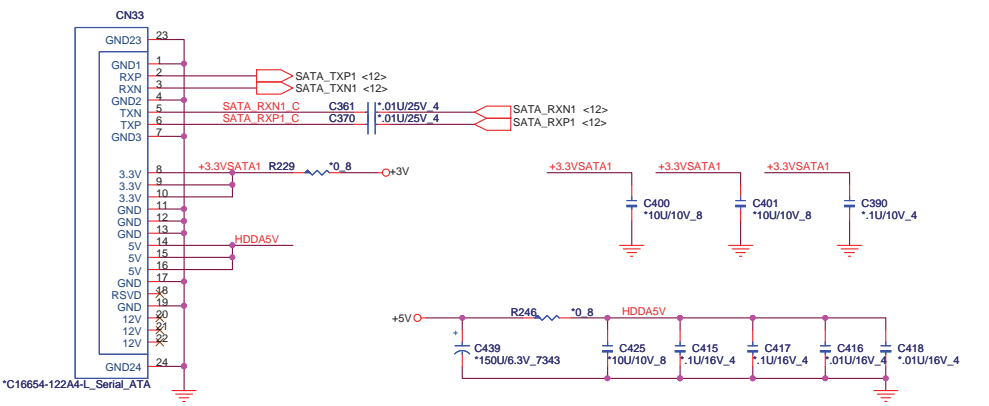
HDMI



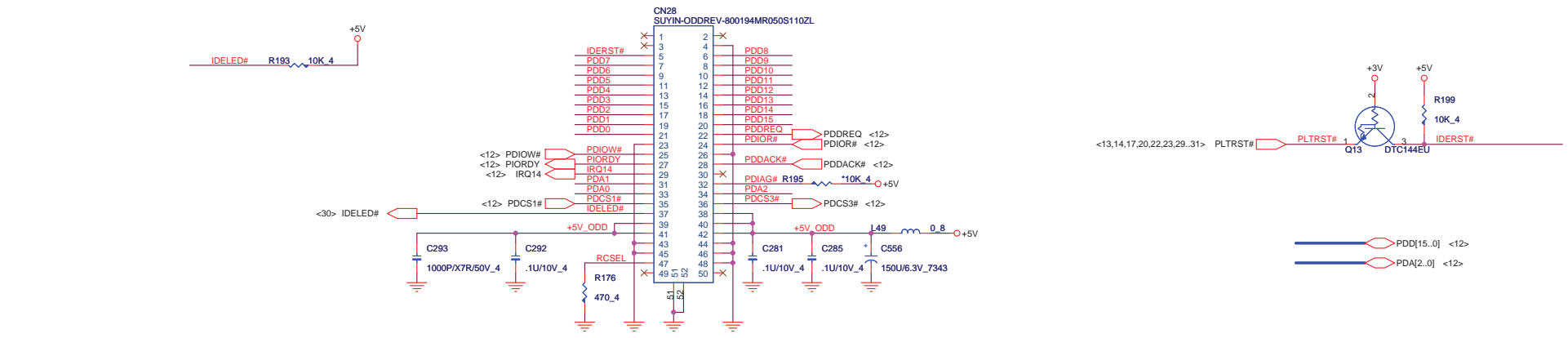
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Quanta Computer Inc.
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NEW CARD/HDMI/LID
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SATA HDD1

SATA HDD2



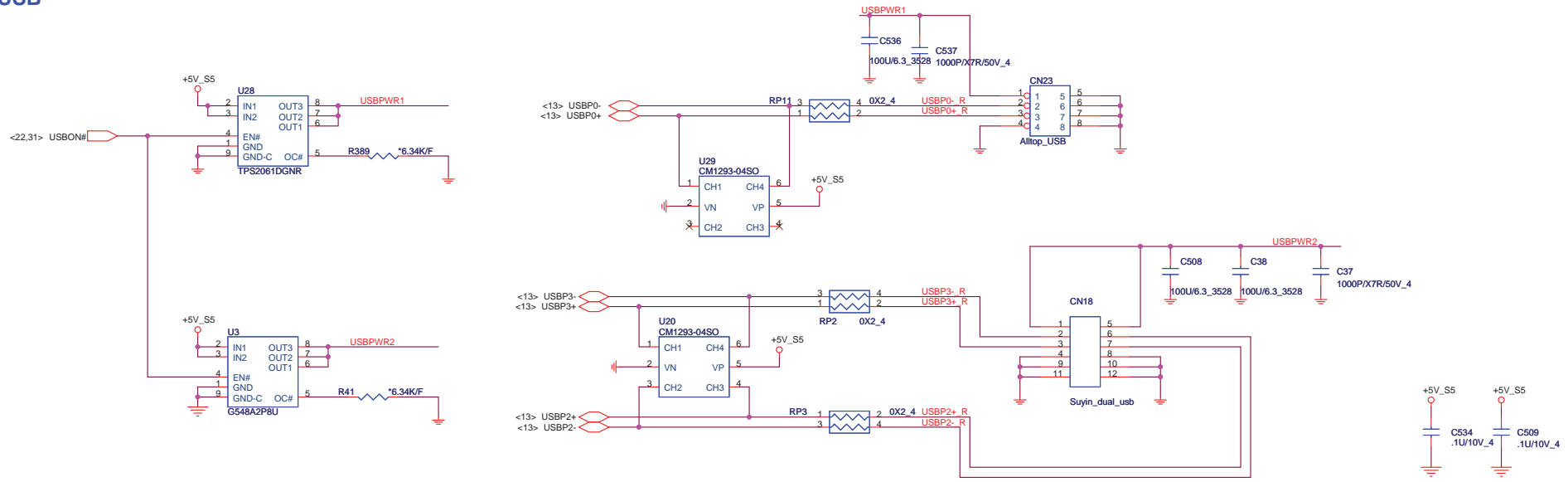
ODD (PATA)



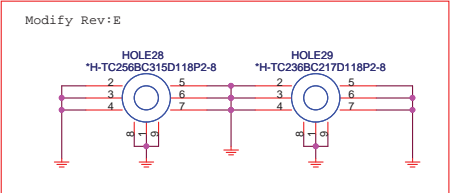
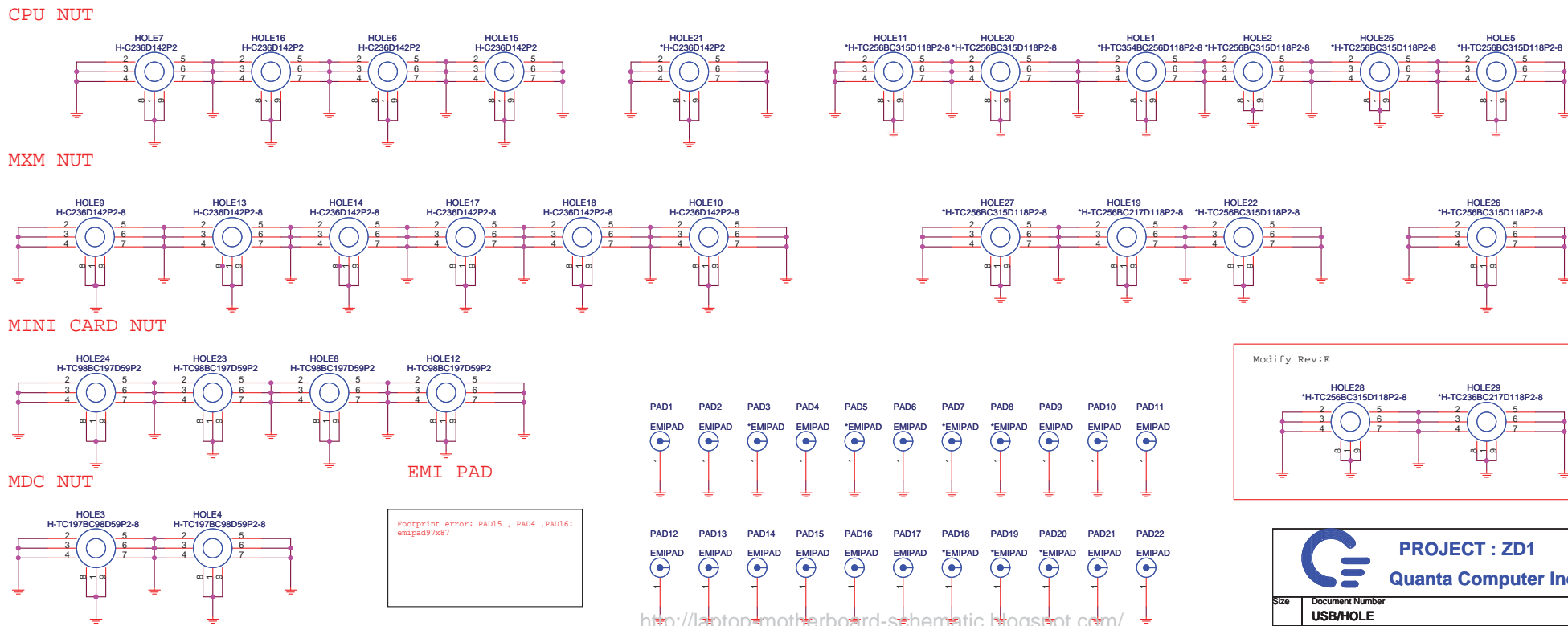

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Quanta Computer Inc.

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	SATA-HDD & PATA-ODD	E
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USB



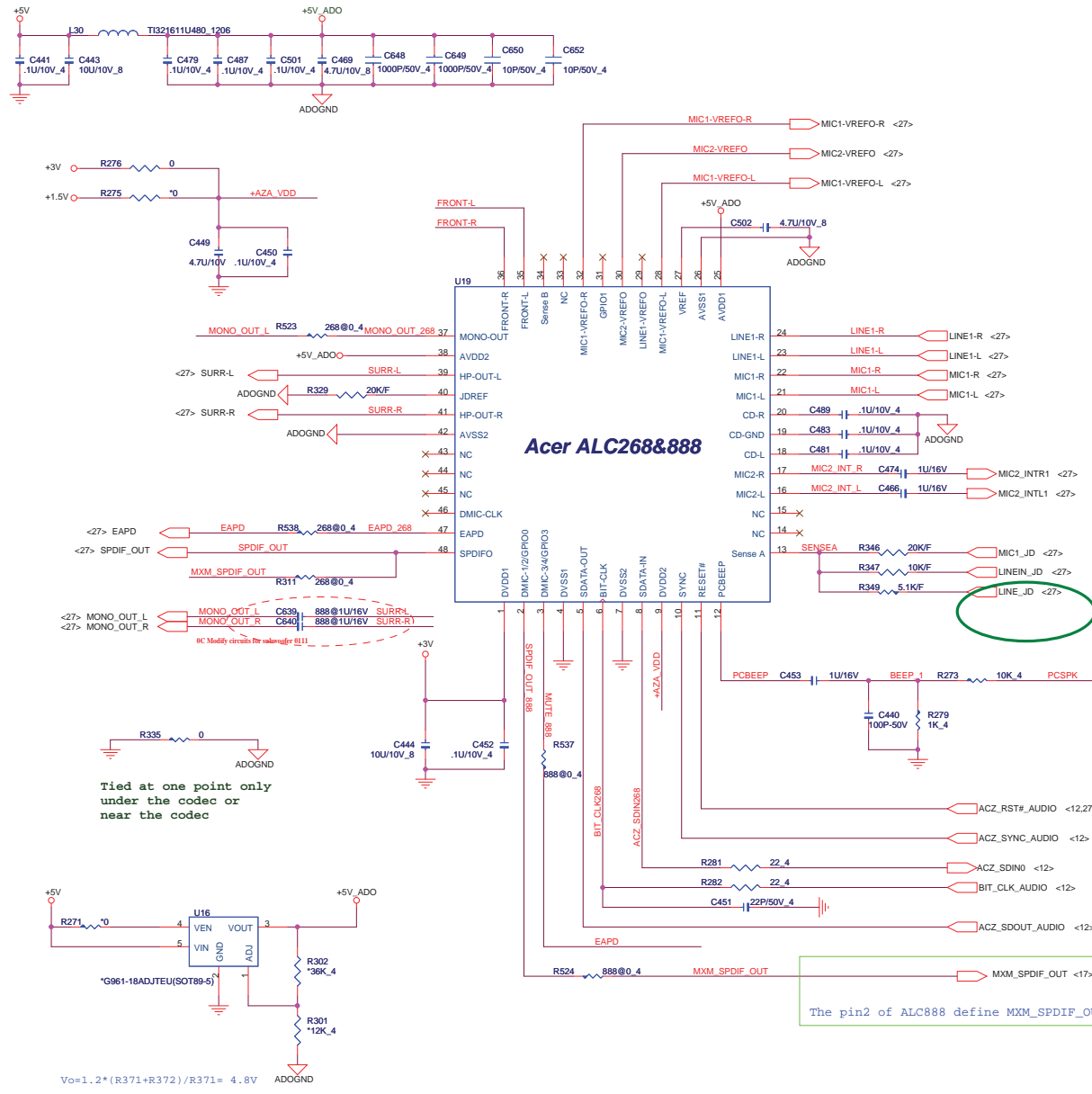
HOLES



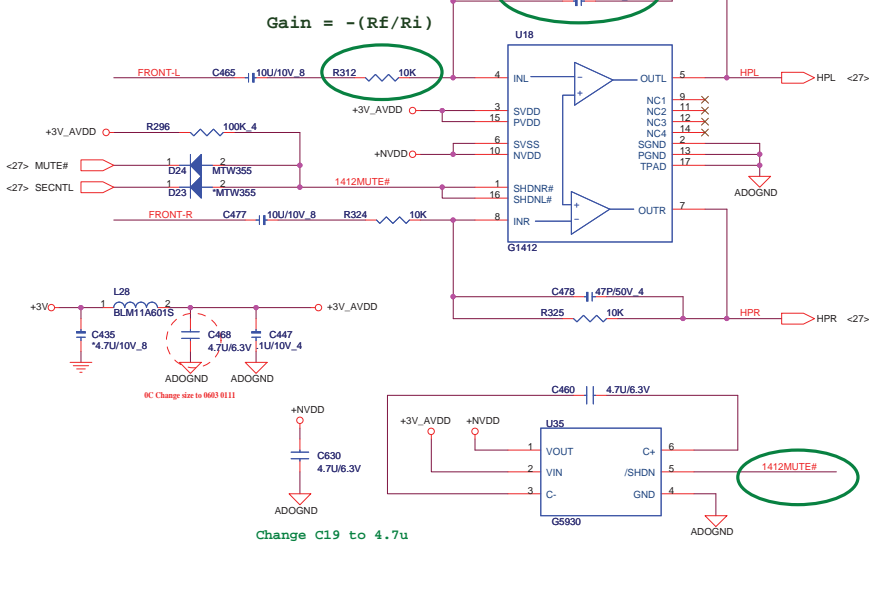
PROJECT : ZD1
Quanta Computer Inc.

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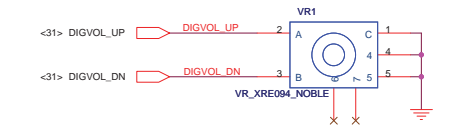
CODEC (ALC268)



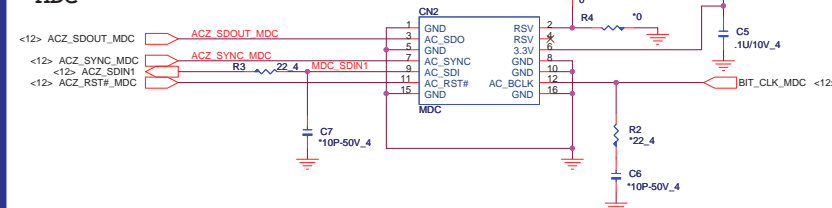
LINE OUT Amplifier



VR



MDC

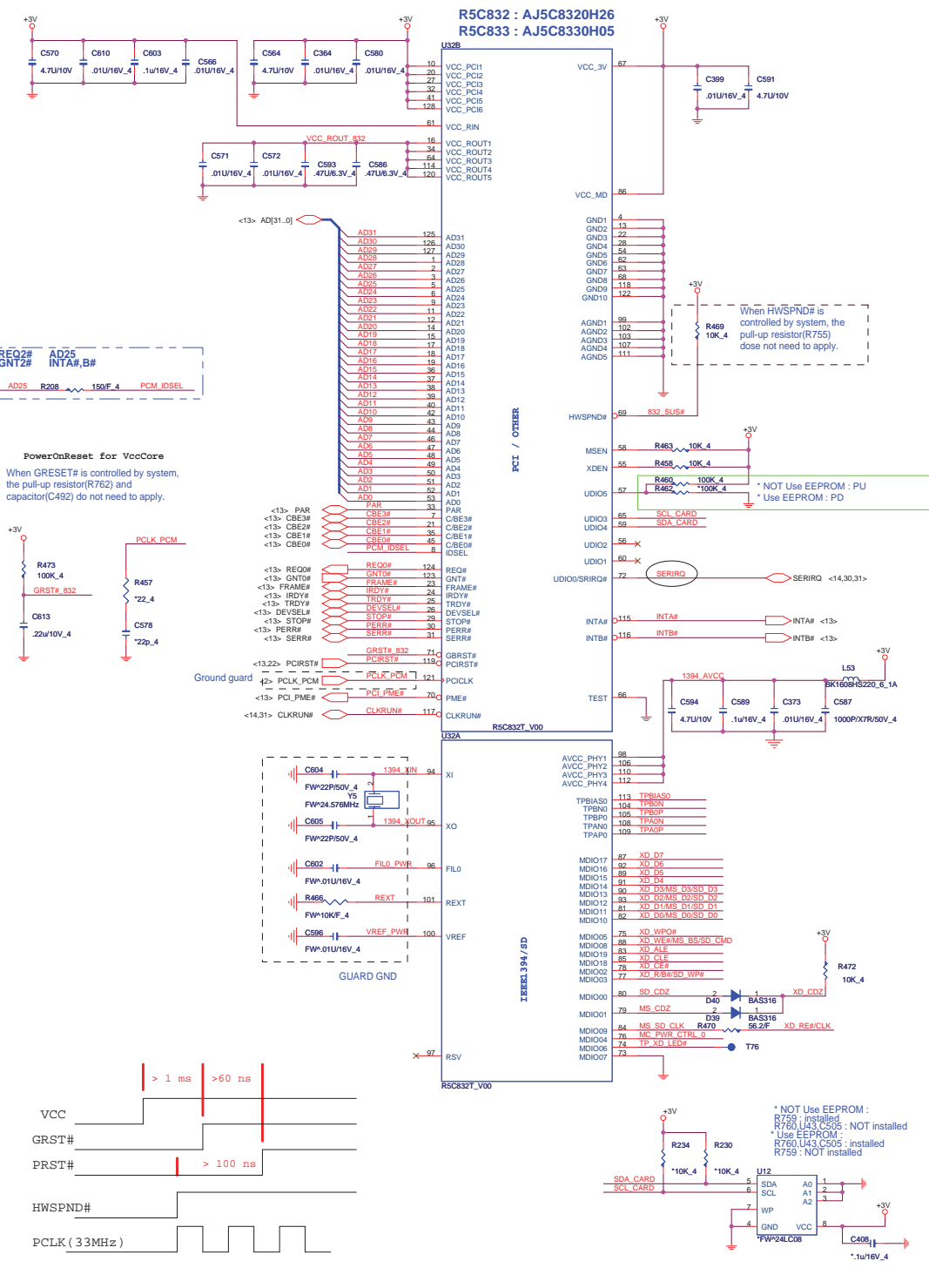


The pin2 of ALC888 define MXM_SPDIF_OUT

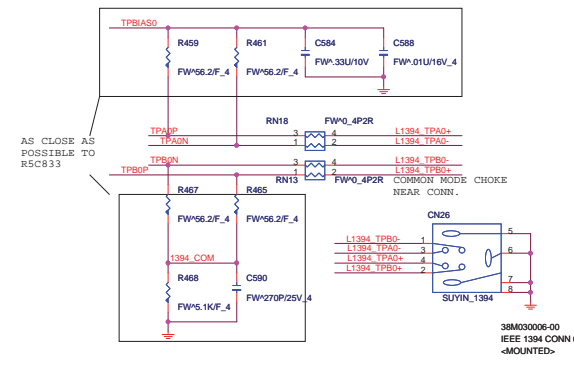
Tied at one point only under the codec or near the codec

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Quanta Computer Inc.

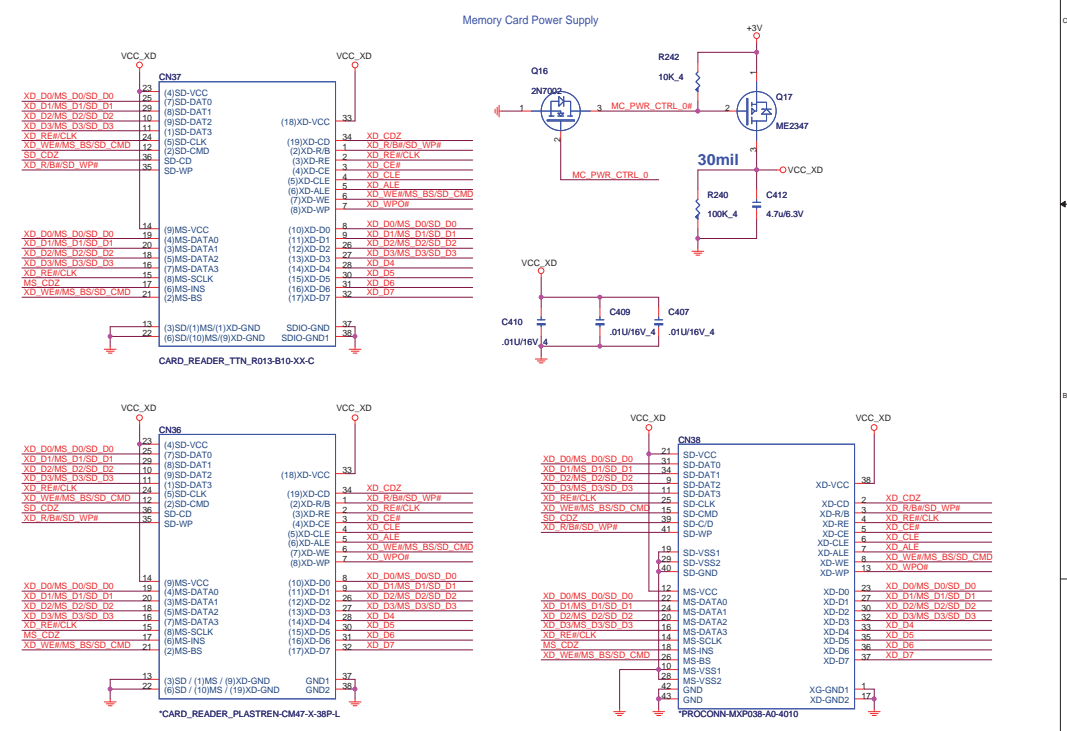
Size	Document Number	Rev
REALTEK ALC268&888/MDC/VR		E
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1394



5 IN 1 CARD READER



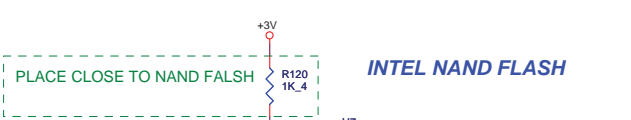
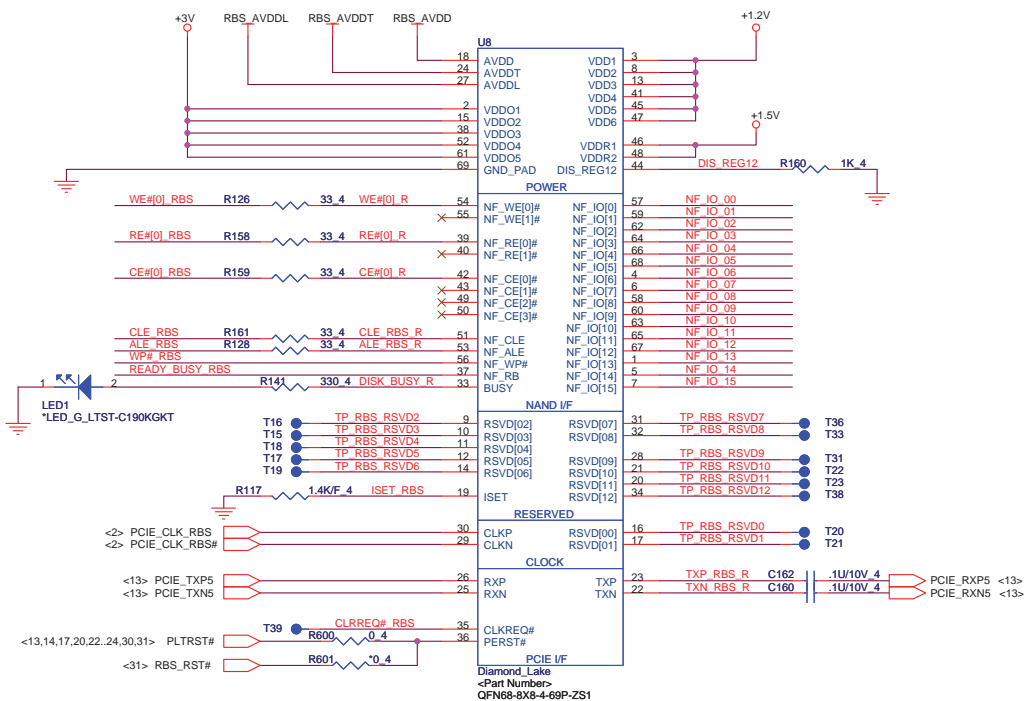
PROJECT : ZD1
Quanta Computer Inc.

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R5C832/833(GIN1/1394)

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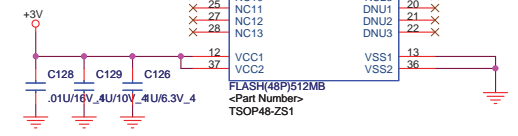
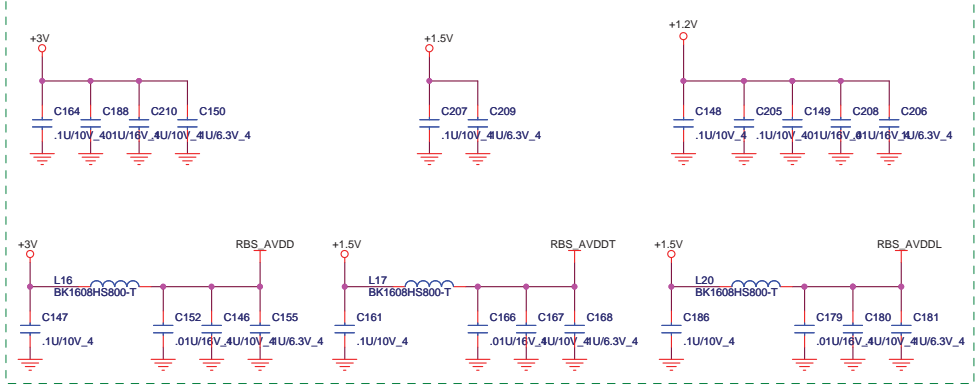
DIAMOND-LAKE ASIC



PLACEMENT NOTE:
PLACE TERMINATION RESISTORS AT 10% TO 25% DISTANCE FROM NAND FLASH.

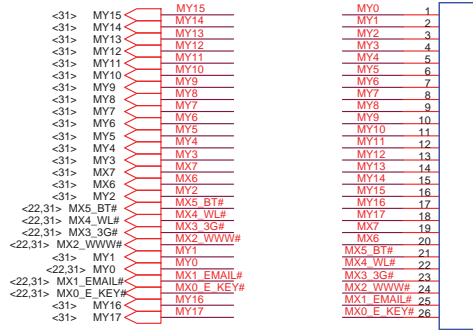
PLACE AS CLOSE AS POSSIBLE TO DIAMOND-LAKE ASIC.

STUFF: INDICATES A 2KB VIRTUAL PAGE => 256MB
DESTUFF: INDICATES A 4KB VIRTUAL PAGE => 512MB & 1024MB



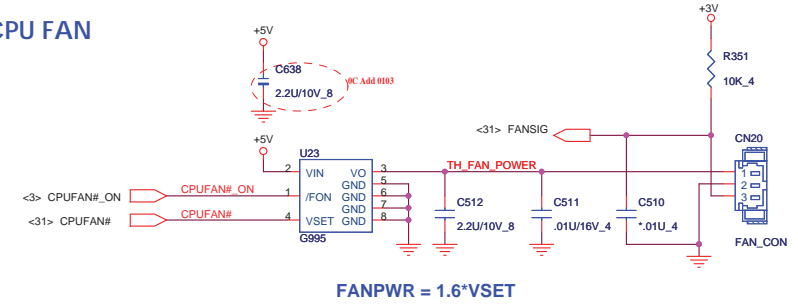
LAYOUT NOTE:
ANY VIA ADDED BENEATH THE NAND FLASH NEEDS TO HAVE A SOLDERMASK ON IT.

INT K/B

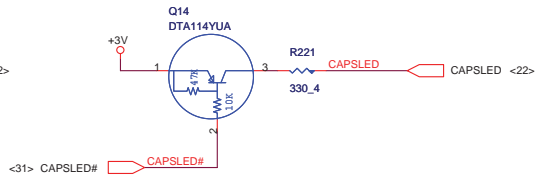
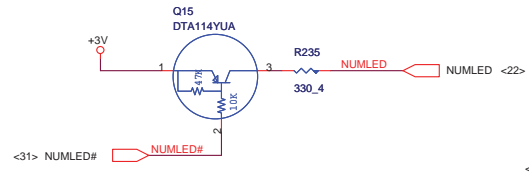
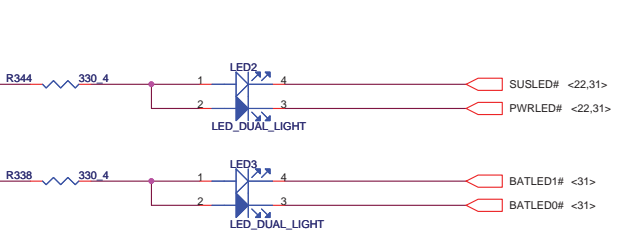
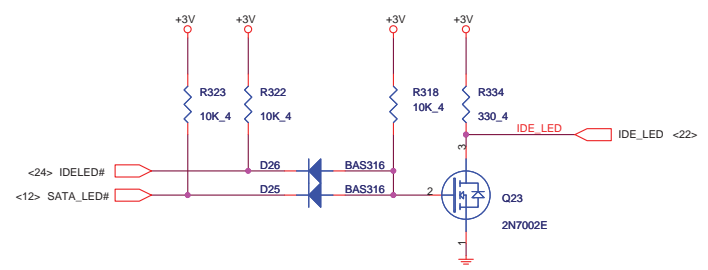


Acps 88502-2641

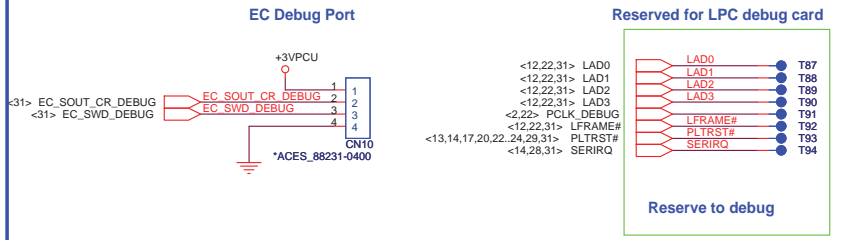
CPU FAN



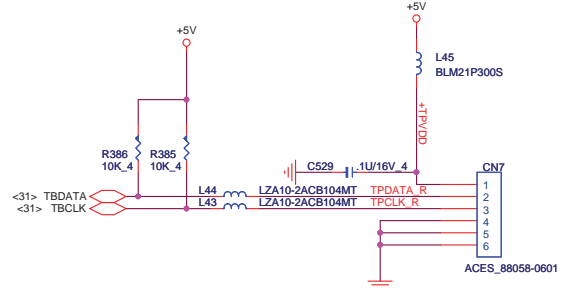
LED



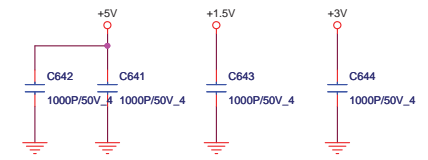
DEBUG PORT



T/P



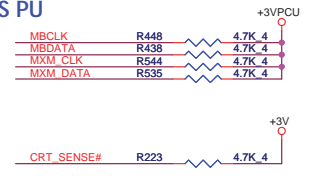
EMI solution



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Quanta Computer Inc.

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	FAN,LED,KB,DEBUG PORT,TP	E
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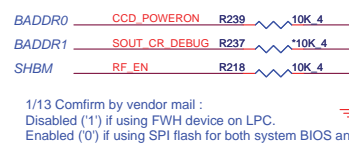
SM BUS PU



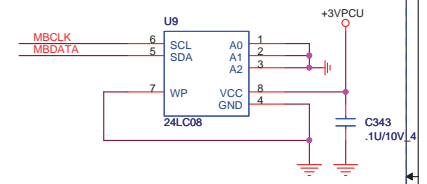
I/O ADDRESS SETTING

I/O Address	
BADDR1-0	Index Data
0 0	XOR TREE TEST MODE
0 1	CORE DEFINED
1 0	2Eh 2Fh
1 1	164Eh 164Fh

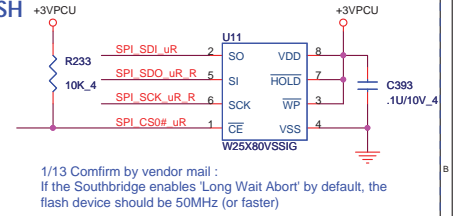
SHBM=0: Enable shared memory with host BIOS



ACER ID



SPI FLASH



BUTTON ON KEYBOARD MATRIX

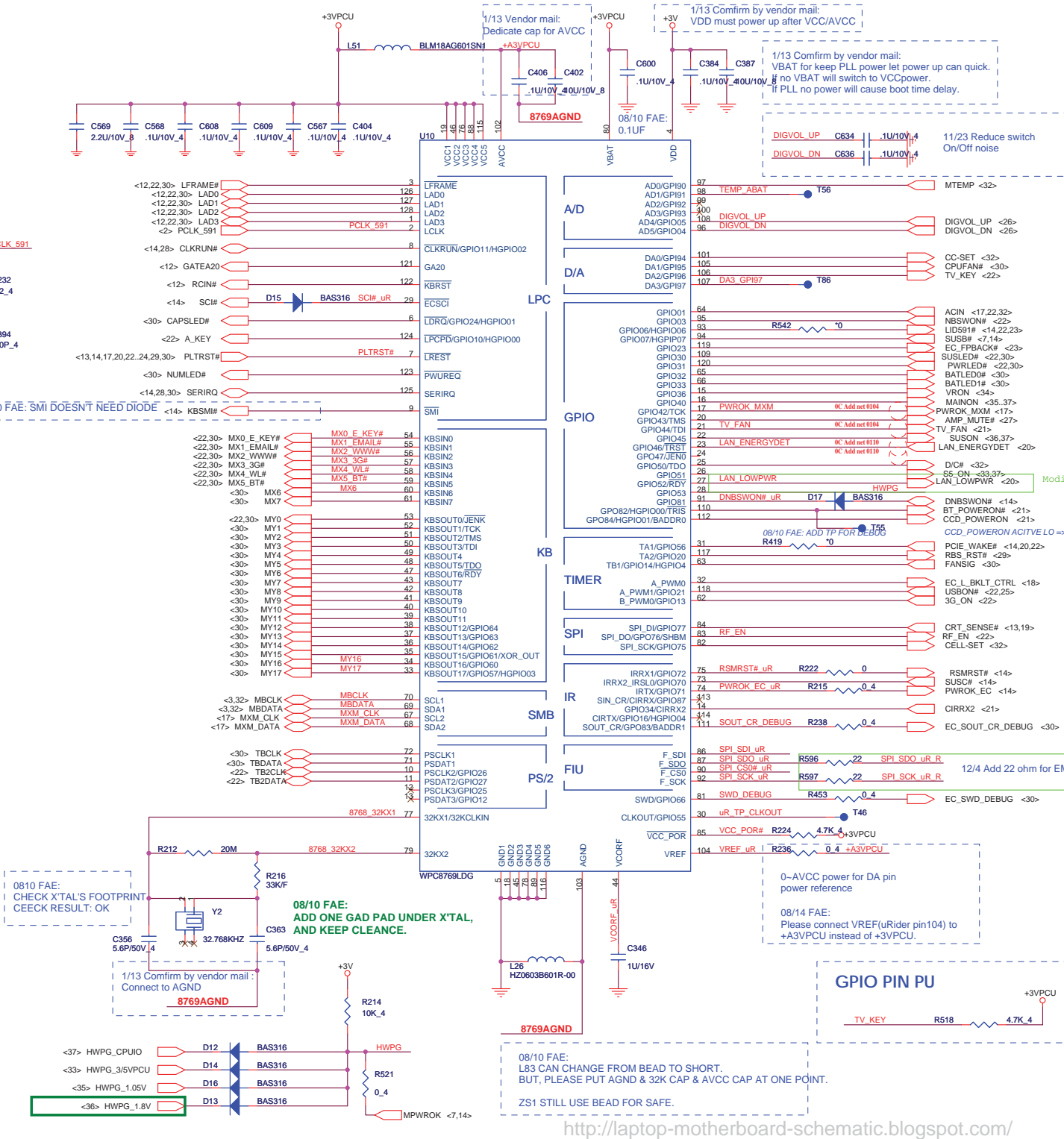


INTERNAL KEYBOARD STRIP SET

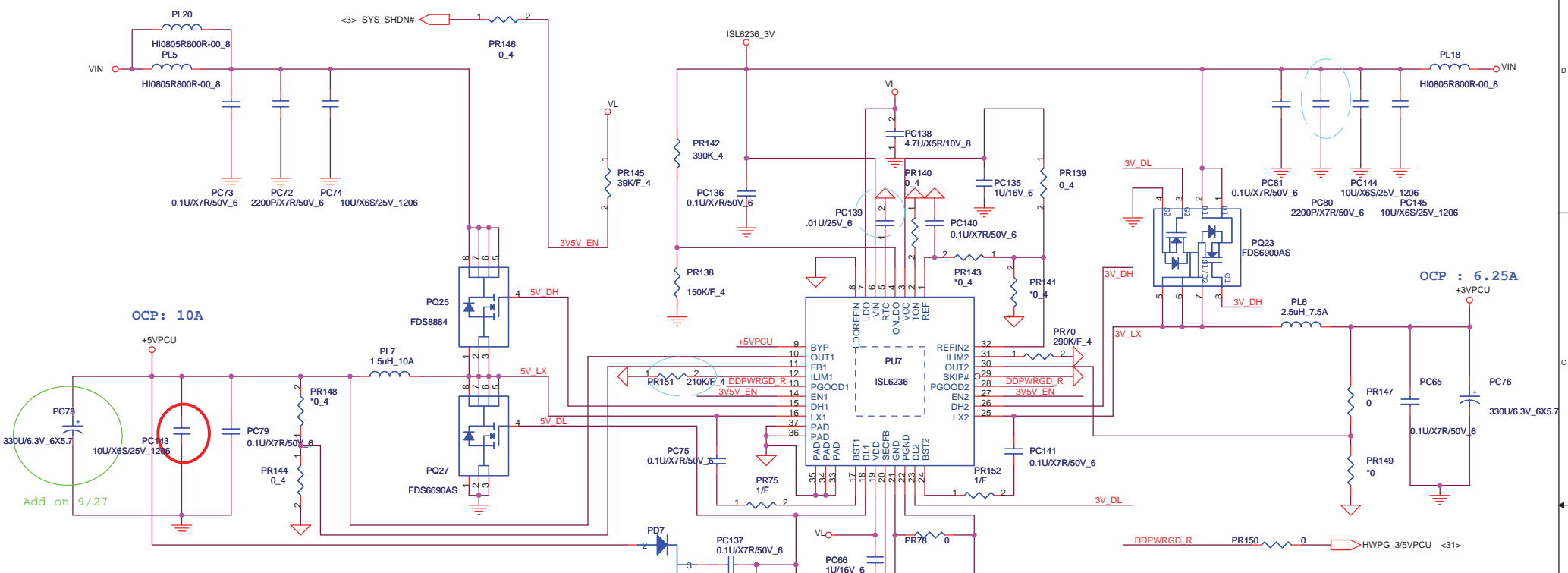


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Quanta Computer Inc.

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	PC8769L & FLASH	E
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MAIND <36,37>
 SUSD <37>



OCP: 10A

OCP: 10A

$$\Delta IL(\text{ripple current}) = (V_{in} - V_{out}) * V_{out} / (L * f * V_{in})$$

$$= (19 - 5) * 5 / (1.5 \mu * 0.4 \text{M} * 19)$$

$$\sim 6A$$

$$I_{ocp} = OCP - (\Delta IL / 2) = 10 - (6 / 2) = 7A$$

$$V_{th} = 7A * 15 \text{m}\Omega = 105 \text{mV}$$

$$R(I_{lim}) = (105 \text{mV} * 10) / 5 \mu A$$

$$\sim 210K$$

OCP: 6.25A

$$L(\text{ripple current}) = (19 - 3.3) * 3.3 / (2.5 \mu * 0.5 \text{M} * 19)$$

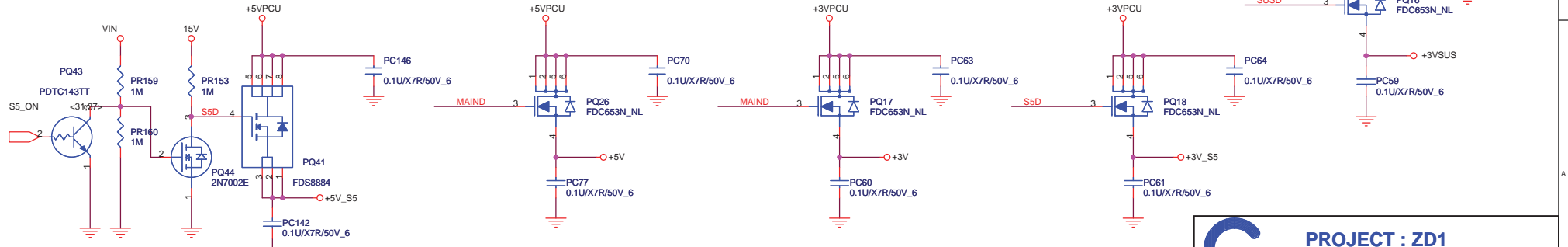
$$\sim 2.18A$$

$$I_{ocp} = 6.25 - (2.18 / 2) = 5.16A$$

$$V_{th} = 5.16A * 28 \text{m}\Omega = 145 \text{mV}$$

$$R(I_{lim}) = (145 \text{mV} * 10) / 5 \mu A$$

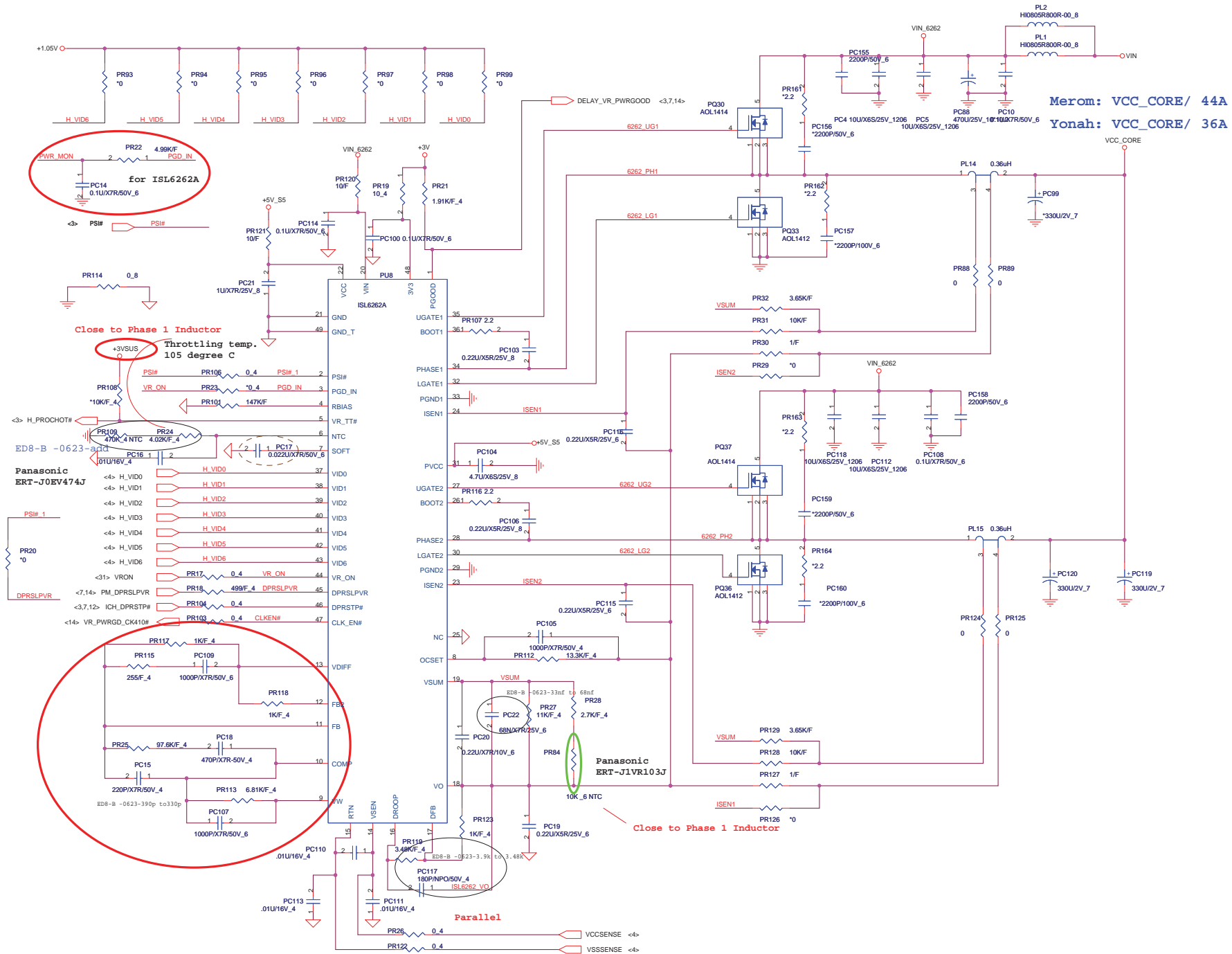
$$\sim 294K$$



modify 0103 2007

PROJECT : ZD1
Quanta Computer Inc.

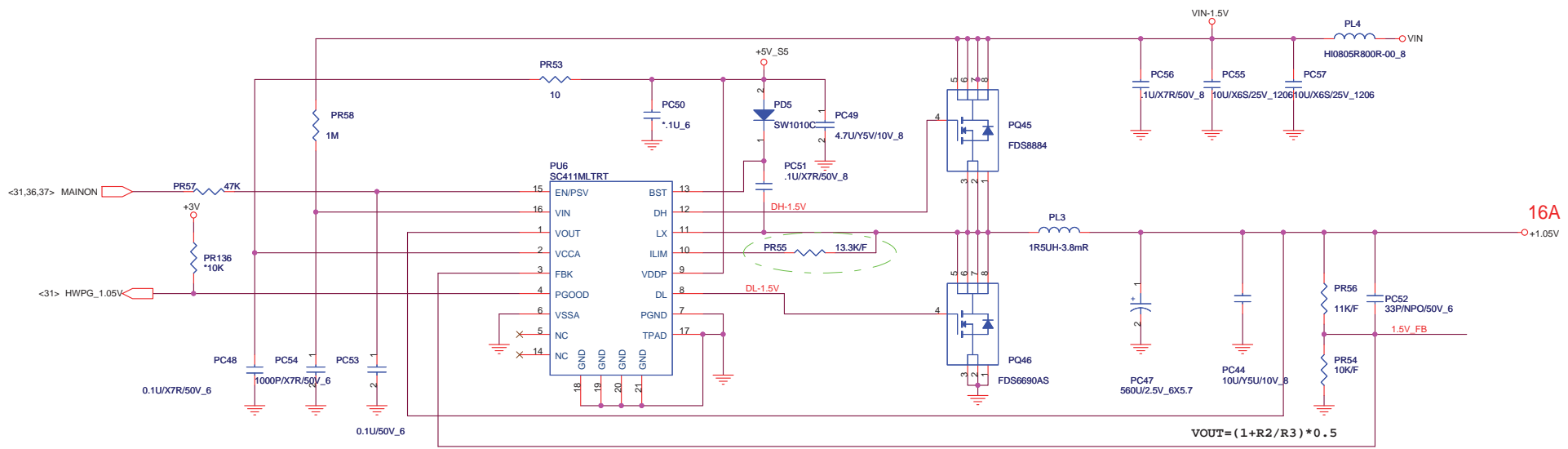
Size	Document Number	Rev
Custom	ISL6251 CHARGER	B
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Merom: VCC_CORE/ 44A
 Yonah: VCC_CORE/ 36A

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Quanta Computer Inc.


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Custom	CPU CORE(ISL6262)	C
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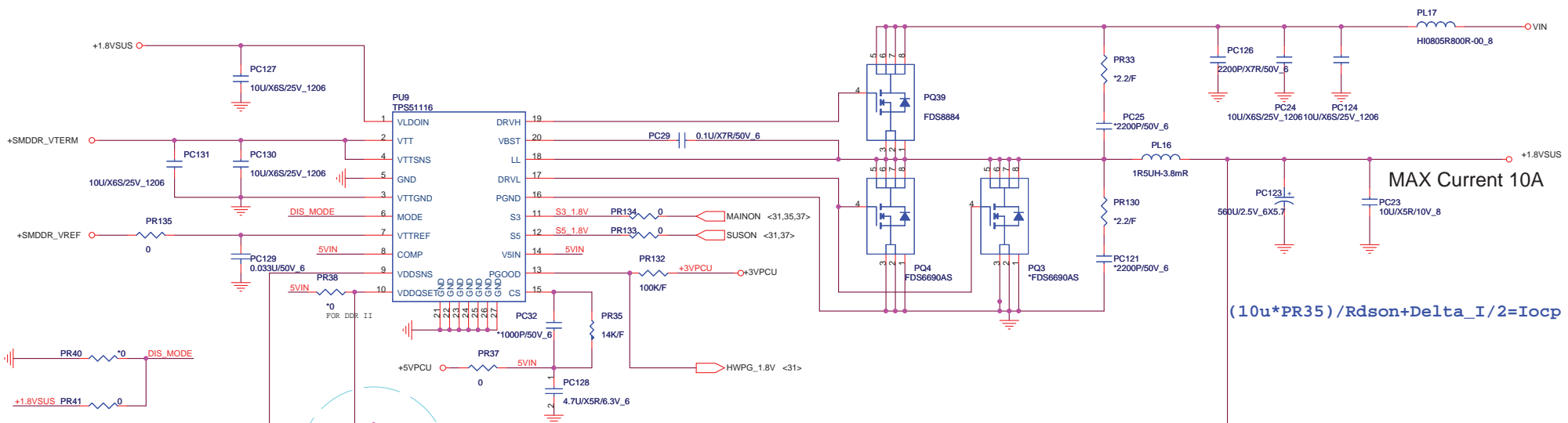
$$R_{dson} * I_{ocp} = PR55 * 10u$$

$$R_{dson} = 15m \text{ ohm}$$

$$V_{OUT} = (1 + R2/R3) * 0.5$$


PROJECT : ZD1
Quanta Computer Inc.

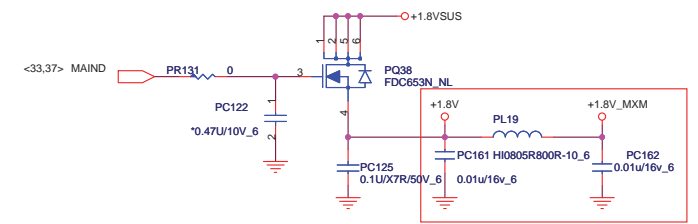
Size	Document Number	Rev
	VTT +1.05V	C
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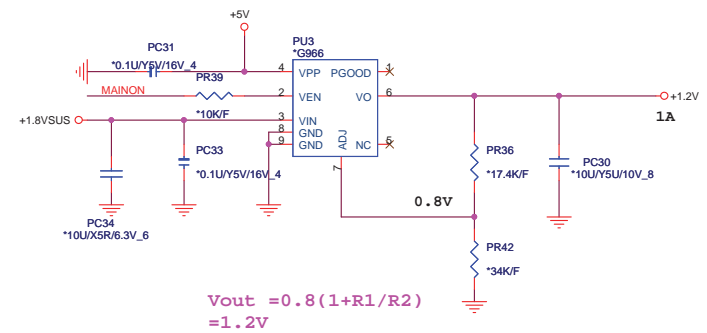
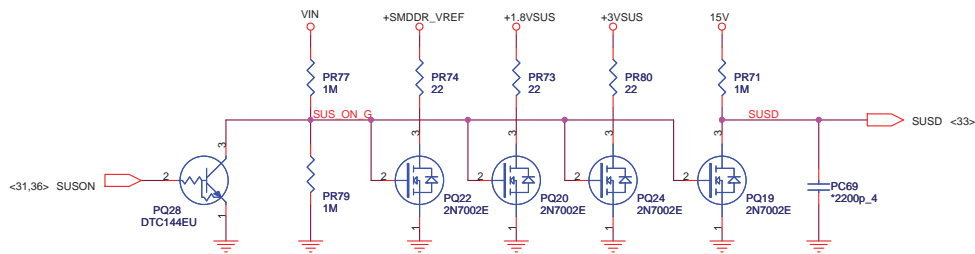
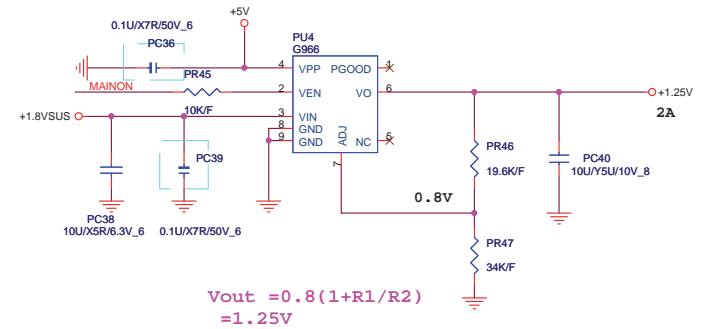
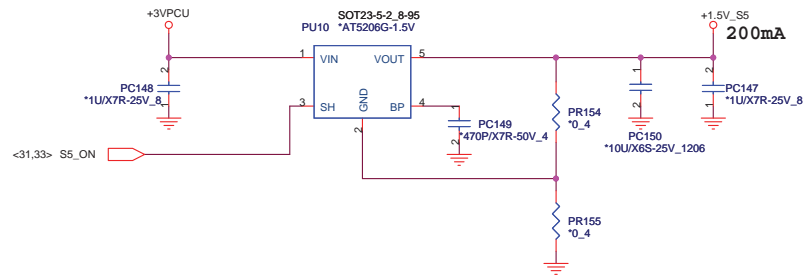
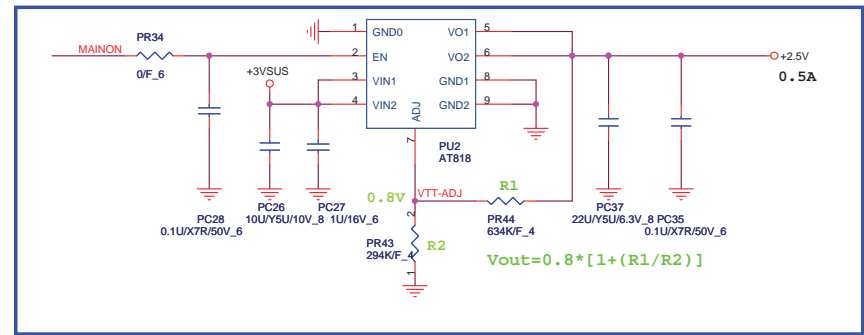
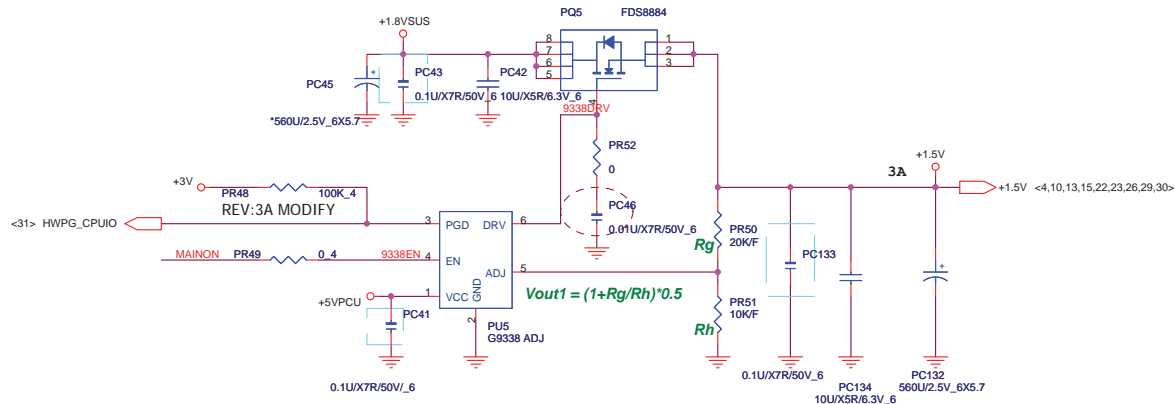
MAX Current 10A

$(10u * PR35) / R_{dson} + \Delta I / 2 = I_{ocp}$

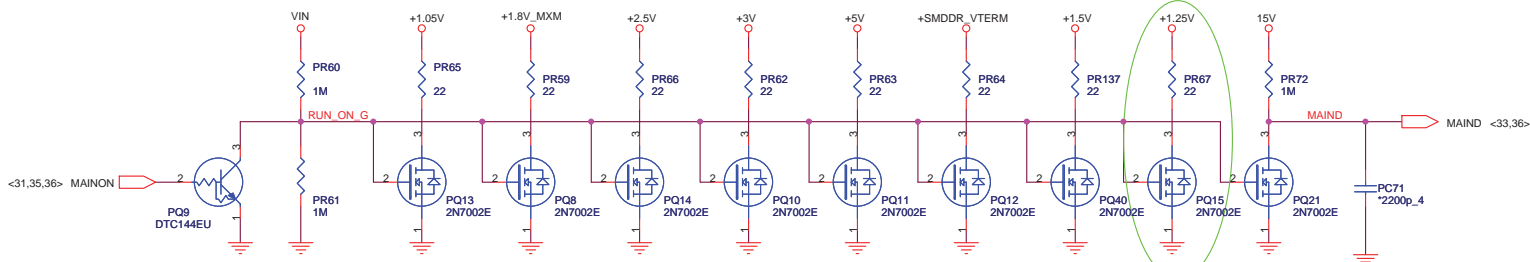
$R1 = (100 * V_{out} - R2) / K$
 if tune V_{out} PR38 un-mount, PR156 PR165 mount




MAX Current 3.5A
 PC161, PL19 & PC162 near CN27



Add by power on 10/19



Model	REV	CHANGE LIST	MODEL	ZY3	
				FROM	To
ZD1 MB	1A	FIRST RELEASED: E200610-3793 (PCB: DA0ZD1MB6A0)	X	1A	
	2A	<p>Page10 : Depop R153 & pop L23 for system can not boot</p> <p>Page14 : U36 package didn't math footprint, change P/N.</p> <p>Page26 : Remove R275, install R276; remove R4, install R16; Change R245, R247 power source from +1.5V_S5/+1.5V to +3V_S5/+3V , Follow customer request modem change support to +3VSUS.</p> <p>Page22 : MMB(CN8) PIN define error.</p> <p>Page22 : TV card change support to +1.5V.</p> <p>Page18 : Install R5, depop R7,: Follow customer request use EC to control backlight ON/OFF function.</p> <p>Page14 : GPIO10: Reserve PU, 10K => It is GPO and OD; GPIO14: Reserve PD, 10K => It is GPI as AC present and active high;</p> <p>Page6 : TV_DCONSEL[0:1], UMA =>NC, External VGA tie to GND.</p> <p>Page31 : 2nd FAN change design</p> <p>Page23 : New card power SW (location: U33) change same as Z01</p> <p>Page31 : add 2 capacity 0.1uF(C634,C636) in DIGVOL_UP / DIGVOL_DN pins</p> <p>Page26 : Co-layout ALC268 and 888S</p> <p>Page28 : SD card can not be detected , U32(ES2) sample will fix this issue.</p> <p>Page28 : MMC card can not be detected , U32(ES2) sample will fix this issue.</p> <p>Page14 : The CLPWROK pin of ICH8 connect with HWFG signal</p> <p>Page22 : change CN7 pin definition for T/P no function.</p> <p>Page24 : change CN8 pin definition MMB no function.</p> <p>Page14 : The signal of KBSMI#_ICH add diode , and it PU to +3V_S5 The signal of LID591#_ICH add diode , and it PU to +3V_S5 for ICH8 electric leakage issue.</p> <p>Page26 : Change subwoofer from 4pin to 5pin connector.</p>	X	1A	
			X	1A	
			1A	2A	
			1A	2A	
			1A	2A	
			1A	2A	
			1A	2A	
			1A	2A	
			1A	2A	
1A			2A		
2B	<p>Page 2 : Add C645 for EMI solution</p> <p>Page31 : Follow customer request 2nd FAN is controlled by EC</p> <p>Page19 : Floating CN13.16 & CN13.17 ,CN14.15 & CN14.16 for ESD test</p> <p>Page07 : DPLL_REF_CLK, DPLL_REF_CLK#, DPLL_REF_SSCLK and DPLL_REF_SSCLK#. To GND</p> <p>Page36 : Add PI filter to reduce the power ripple of +1.8V.</p> <p>Page16 : Modify SMBus address A2 , The signal of B_SAL need to PU and B_SA0 need to PD</p> <p>Page26 : add 2 capacity 1uF(C639,C640) for subwoofer</p> <p>Page30 : add capacity 2.2uF(C638)</p>	1A	2A		
		1A	2A		
		1A	2A		
		1A	2A		
		1A	2A		
		1A	2A		
		2A	2B		
		2A	2B		
		2A	2B		
		2A	2B		
2C	<p>Page17 : Adding (Q52 & R541 & Q53) extra circuitry to prevent power leakage from system into MXM</p> <p>Page21 : Change power of CIR from +3VPCU and +5VPCU.</p> <p>Page31 : AEC pin24 is multi function pin, when EC power up, pin17 will change to JTAG/TCK function not GPIO. So,need to change from pin24 (GPIO47) to pin27 (GPIO52).</p> <p>Page22: Power/B connector add two LED control signal and change to 16 pin from 14-pin for meet ACER LED spec .</p> <p>Page22: Q35 change to AO3413 form DTAL14 for increase LED driving power.</p> <p>Page23: BL_ON pull up resistor from 10kohm to 100Kohm(R194).+3V pull up will cause power on leakage on BL_ON signal due to our VGA have 10kohm pull low.</p>	2A	2B		
		2A	2B		
		2A	2B		
		2B	3A		
		2B	3A		
		2B	3A		
		2B	3A		
		2B	3A		
		2B	3A		
		2B	3A		
2D	<p>Page19 : Connect CRT of CN13.16 & 17 to GND for ESD</p> <p>Page17 : Add capacity 330uF(C647) & Remove R541</p> <p>Page22 & 25: Combine USB/B (CN17) and TV/B(CN30) connector, Connector change to 16 pin. and +5_S5 from 1pin to 2pin.</p> <p>Page25 : Connect HOLE 28 & 29 to GND for ESD</p> <p>Page32-37 : Update power circuit</p> <p>Page37 : Remove 1.2V circuit</p> <p>Page26 : Add 1000pF and 10pF total 4 PCS Location: C648 , C649, C650, C652 (between +5V_ADOand AGND).</p> <p>Page22 : CN8.8 remove +5V & R540 & connect to +3V (K)</p> <p>Page27 : Modify and ADD. AGND bridge (R337,R284,C459 and C472 = 0 Ohm).</p> <p>Page34 : Remove PR16L, PR163, PC156, PC159</p> <p>Page22 : Add D45-D51 for ESD</p> <p>Page28 : Change CN36.37 & 38 ,CN37.37 & 38 ,CN38.42 & 43 from ADOGND and GND.</p>				
3A	<p>Page32 : PD9 Change footprint</p> <p>Page25 : Add EMI Spring</p> <p>Page27 : Add GND & AGND bridge (R546,R540,R408)</p> <p>Page22 : Modify pin define (TV/B(CN30) connector)</p>				
F	<p>Page23 & 17 : HDMI circuits modify: Add level-shifter for MXM_HDMI_DDCCLK and MXM_HDMI_DDCDATA.(Location: Q54 ,Q55 , R75, R63, R297, R410 & R602) .</p>				

 PROJECT : ZD1
Quanta Computer Inc.

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Change list

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DOC NO.	PROJECT MODEL :	ZD1	APPROVED BY:	DATE:	2007/ 2/15
	PART NUMBER:		DRAWING BY:	REVISION:	3A