

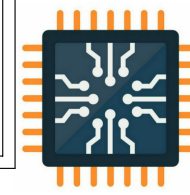
Page	Title of schematic page	Rev.	Date
01	Page List	1A	
02	Block Diagram	1A	
03	Change List	1A	
04	IVY 1/4 (HOST&PCIE)	1A	
05	IVY 2/4 (DDR3 I/F)	1A	
06	IVY 3/4 (POWER)	1A	
07	IVY 4/4 (GND/Strap)	1A	
08	PCH 1/6 (DMI/FDI/VIDEO)	1A	
09	PCH 2/6 (SATA/RTC/HDA/LPC)	1A	
10	PCH 3/6 (PCIE/USB/CLK/NV)	1A	
11	PCH 4/6 (GPIO/CPU/STRAP)	1A	
12	PCH 5/6 (POWER)	1A	
13	PCH 6/6 (GND)	1A	
14	DDR3 DIMM-0-STD	1A	
15	DDR3 DIMM-1-STD	1A	
16	WPCE985L & FLASH	1A	
17	LVDS/CAMERA	1A	
18	CARD READER (RTS5209)	1A	
19	HDMI/THERMAL	1A	
20	USB	1A	
21	LAN (RTL8111GS)	1A	
22	WLAN/KB-BL	1A	
23	HDD/ODD/G-SENSOR/TP/FAN	1A	
24	Audio ALC233-CG	1A	
25	LED/PS/DMIC	1A	
26	POWER +VCC_CORE (ISL95835)	1A	
27	POWER 3VPCU&RVCC5 (PM6686)	1A	
28	POWER 1.5VSUS/VTT_MEM	1A	
29	POWER +1.05V (G5602R41U) -15A	1A	
30	POWER VCCSA/VCCIO	1A	
31	POWER VCC1.8/Thermal	1A	
32	POWER (BAT IN / ADA IN/ UL)	1A	
33	POWER CHARGER (ISL88731C)	1A	
34	POWER VGA_CORE (RT8812A)	1A	
35	POWER VCC1.5_VRAM/1.05V	1A	
36	NVIDIA N14 GB2-64 PCIE 1/4	1A	
37	NVIDIA N14 GB2-64 TMDS 2/4	1A	
38	NVIDIA N14 GB2-64 VRAM 3/4	1A	
39	NVIDIA N14 GB2-64 VRAM 4/4	1A	

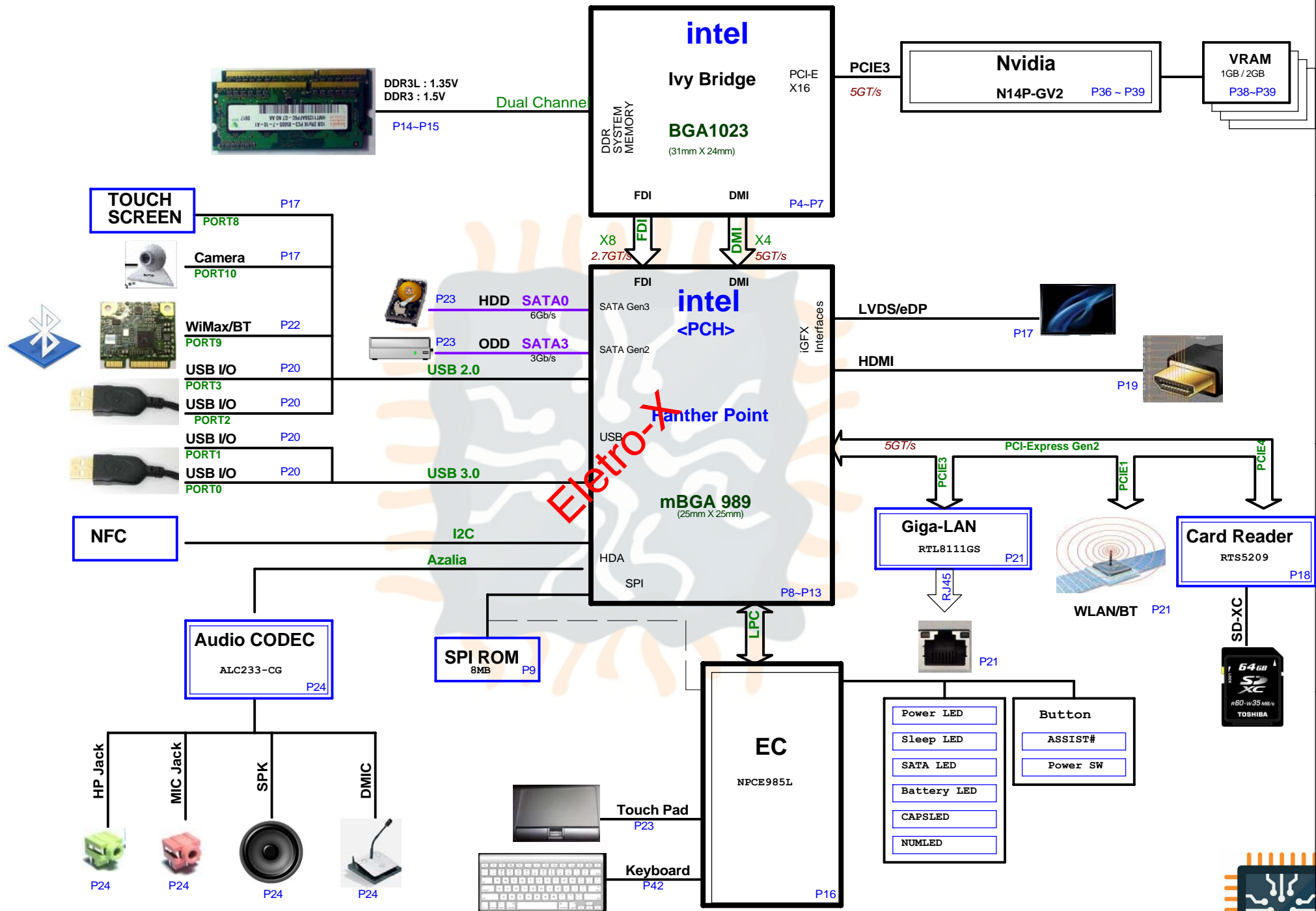
		D		E	
Page	Title of schematic page	Rev.	Date		
42	HOLE/EMI/KB	1A			
43	AUDIO Woofer	1A			
44	IO PORT LIST	1A			
		1A			

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

Eleto-X

ECETRO-2





Change List
MB_SCH_PVT_001
P22-Add R333 0_6S.
P22- U15 don't mount
P22-Add Q32(2N7002).
P22-Add R335(100K_4).

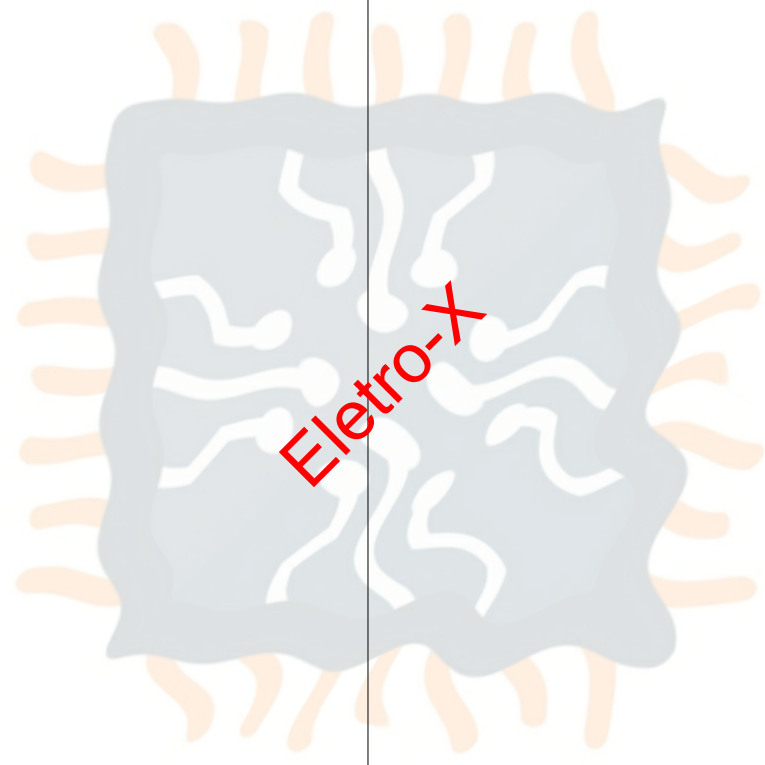
Reason : Modify circuit for KB Backlight.
Possible Risk: No.

MB_SCH_PVT_002
P23-CON11.11 delete net"DATA_ODD_DA#"
P10-U17.G40 delete net"SATA_ODD_DA#".
P10-Delete R64(10K_4).

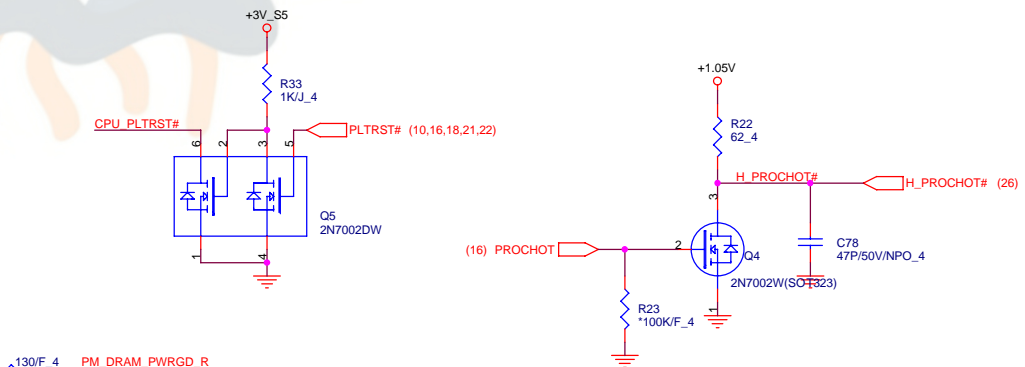
Reason : Modify circuit for Zero Power ODD.
Possible Risk: No.

MB_SCH_PVT_002
P08-ADD 0.1UF on "PCH_PWROK_EC"

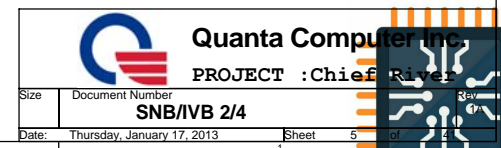
Reason : Modify circuit for ESD.
Possible Risk: No.



Eletron-X

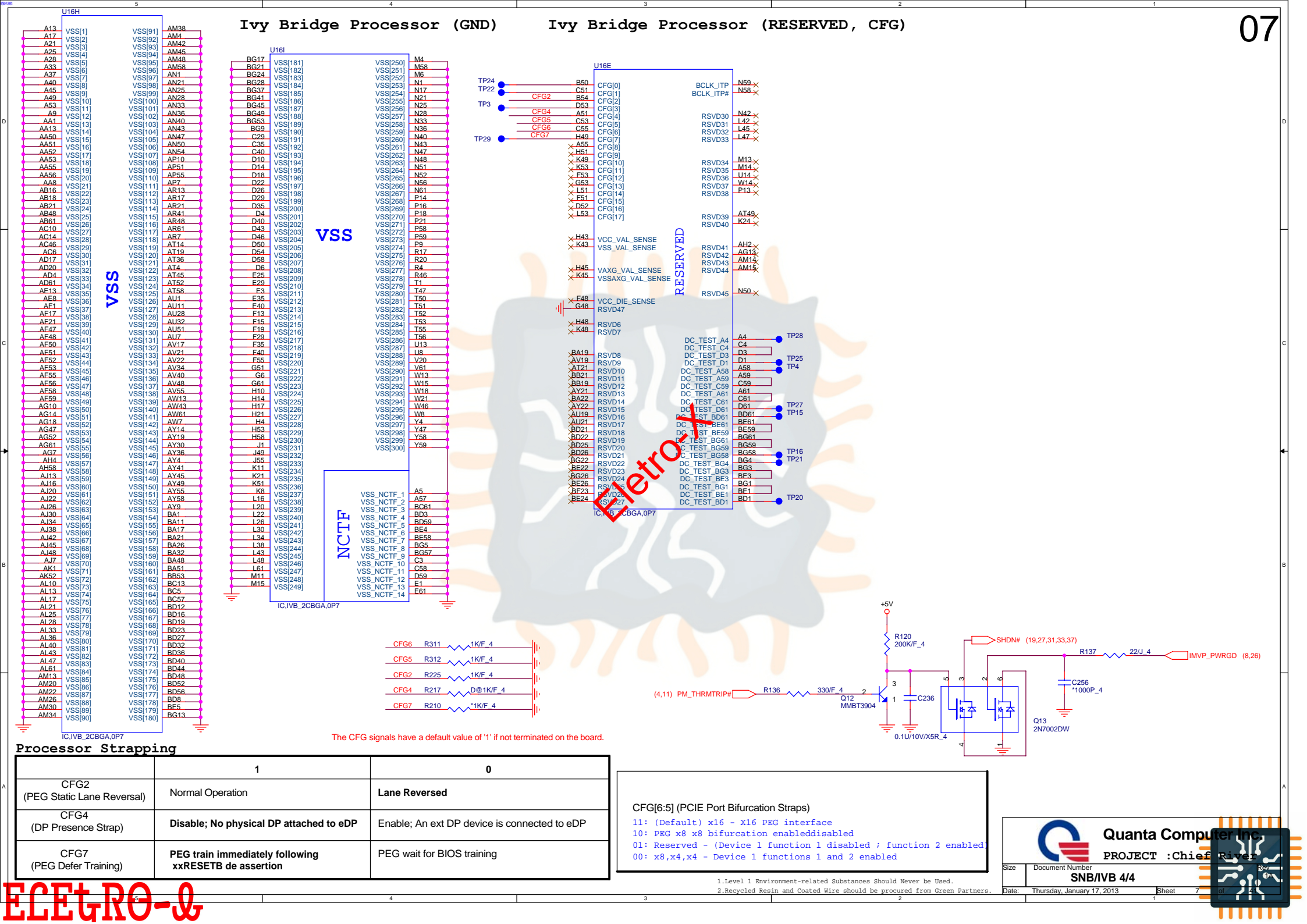


The schematic shows the PM_DRAM_PWRGD_R signal path. It starts with two inputs: ALL_SYS_PWRGD (pin 2) and PM_DRAM_PWRGD (pin 1), both connected to U18 (74AHC1G09). The output of U18 (pin 4) is connected to R122 (130/F_4), which is then connected to R123 (200/F_4). R123 is connected to +1.5V_CPU.

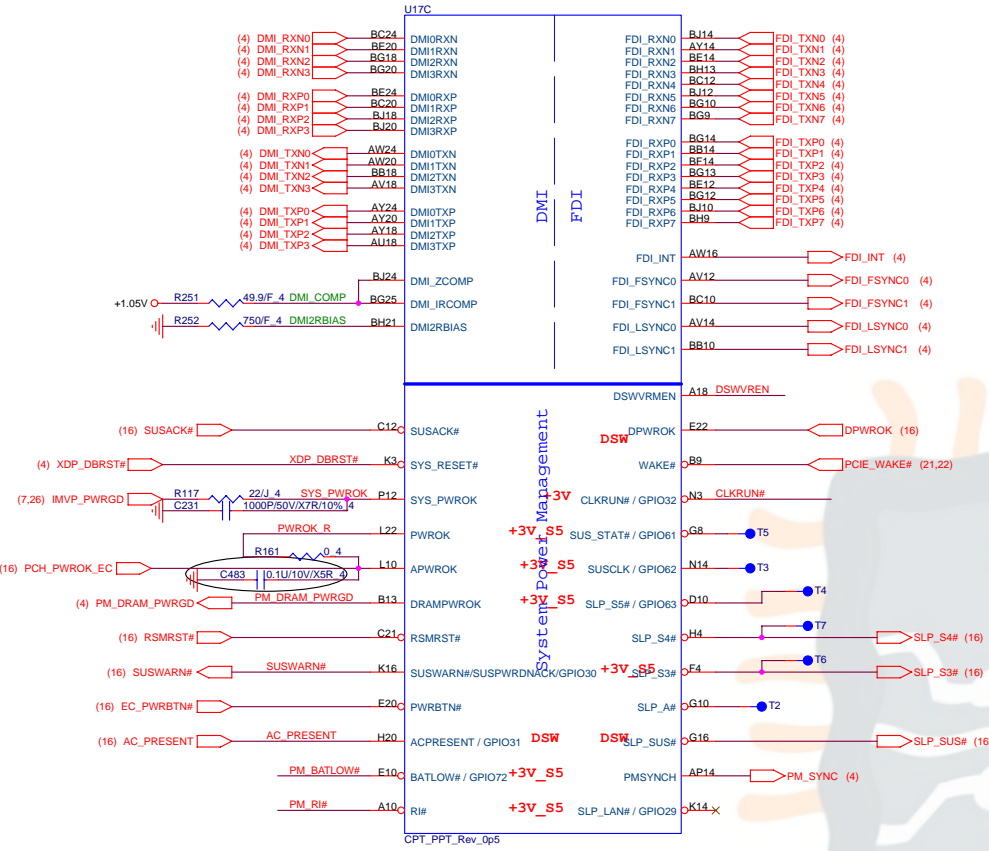


Ivy Bridge Processor (GND)

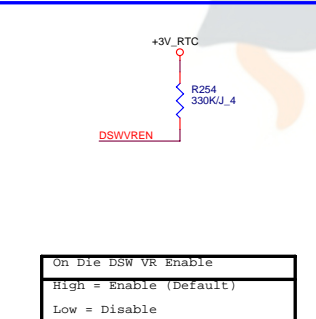
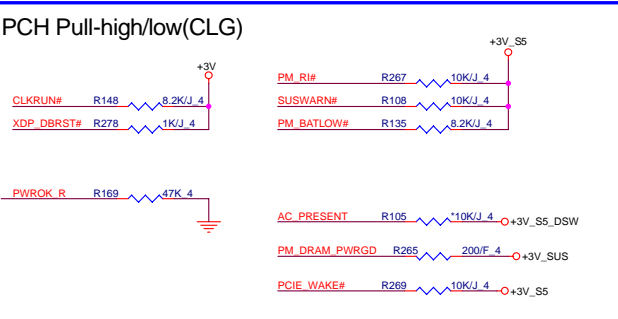
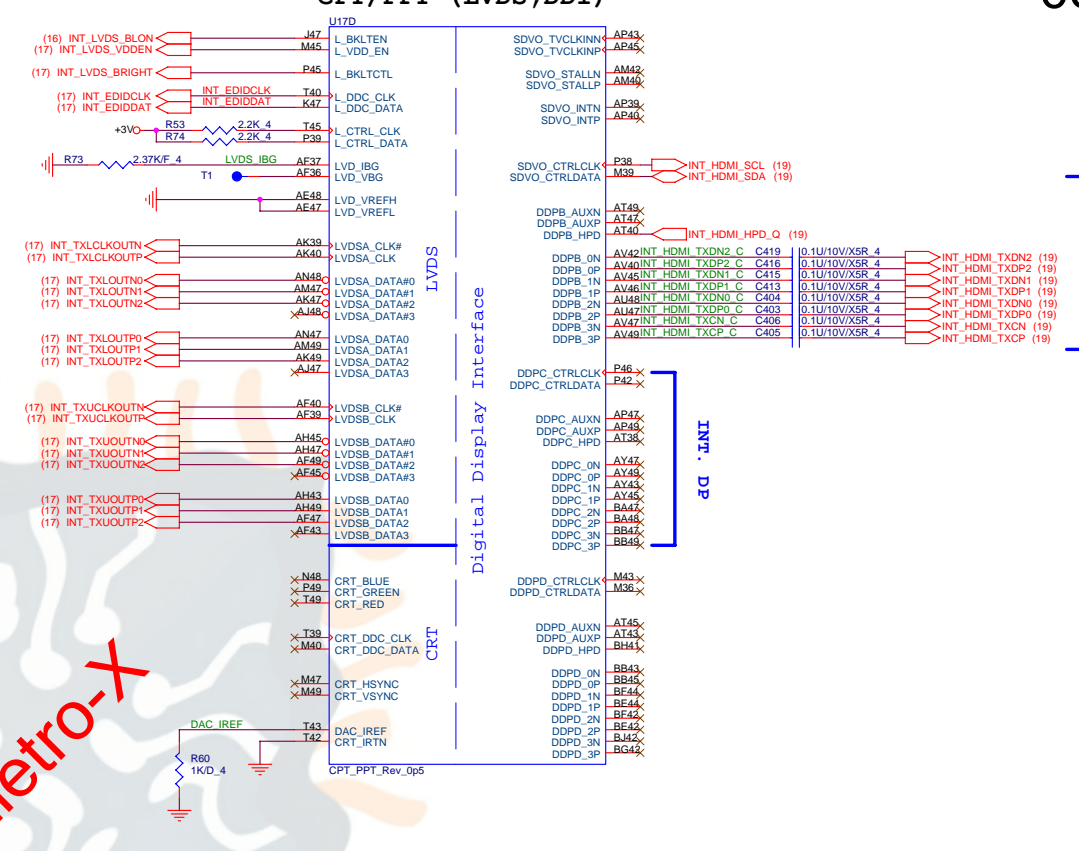
Ivy Bridge Processor (RESERVED, CFG)



CPT/PPT (DMI, FDI, PM)



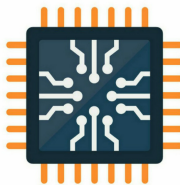
CPT/PPT (LVDS, DDI)



On Die DSW VR Enable
High = Enable (Default)
Low = Disable

Quanta Computer Inc.
PROJECT :Chief River
CPT/PTT 1/6
Date: Thursday, January 17, 2013
Sheet 8 of 41
Rev 1A

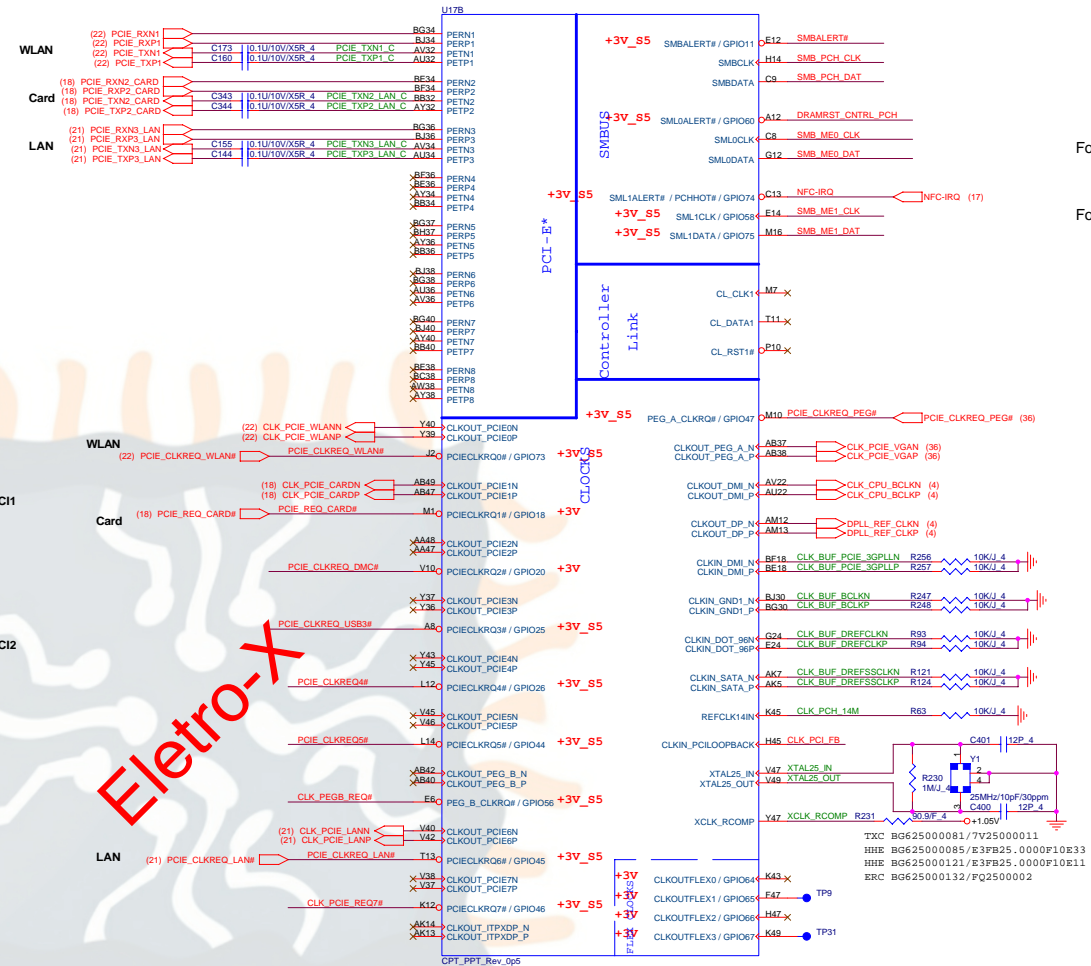
1.Level 1 Environment-related Substances Should Never be Used.
2.Recycled Resin and Coated Wire should be procured from Green Partners.



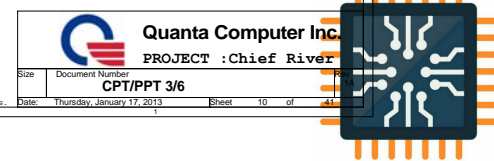
SECRET-2

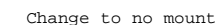


CPT/PPT (PCI-E, SMBUS, CLK)



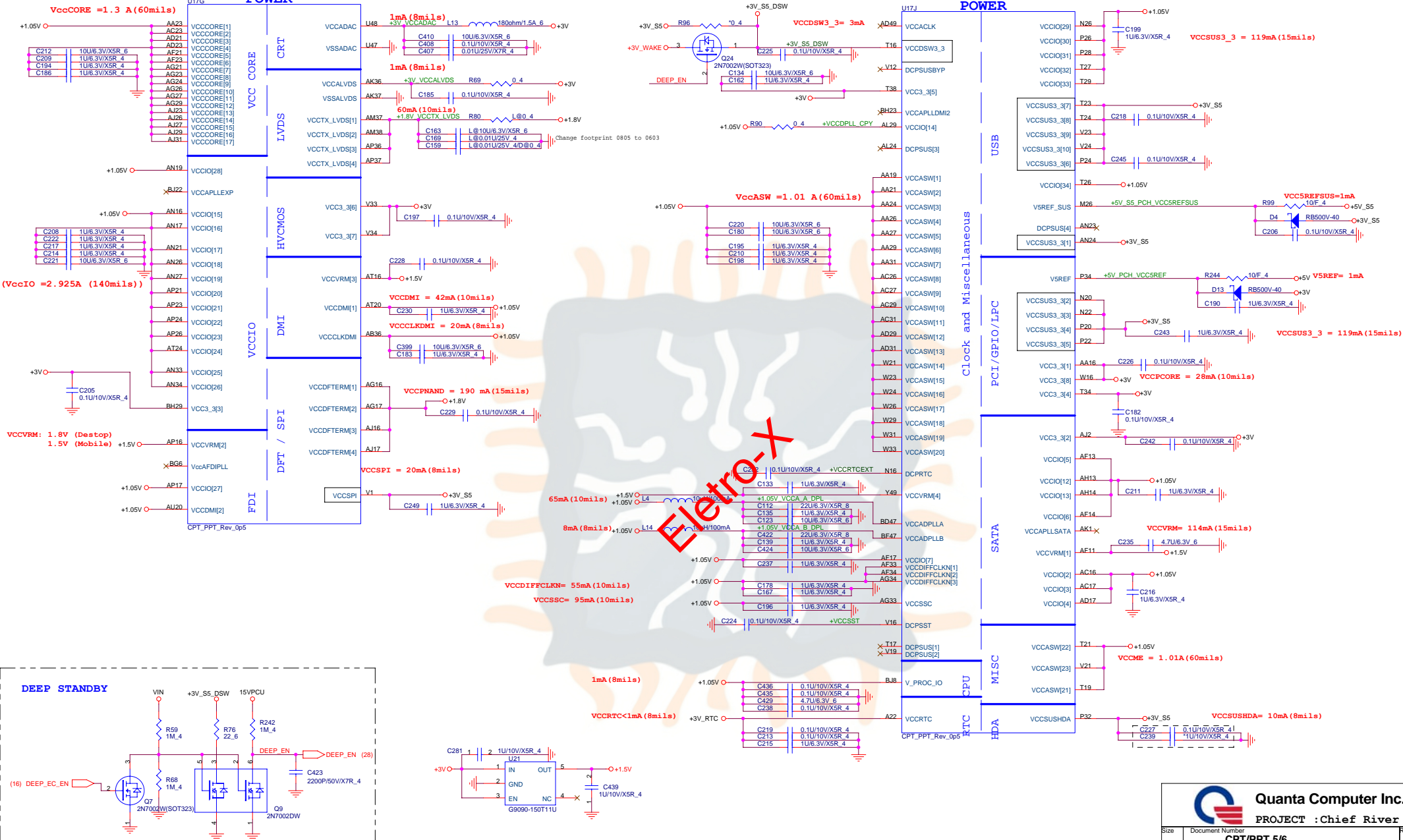
For EC





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

CPT/PPT (POWER)



CPT/PPT (GND)


H5	VSS[0]	
AA17	VSS[1]	VSS[80]
AA2	VSS[2]	VSS[81]
AA3	VSS[3]	VSS[82]
AA33	VSS[4]	VSS[83]
AA34	VSS[5]	VSS[84]
AB11	VSS[6]	VSS[85]
AB14	VSS[7]	VSS[86]
AB38	VSS[8]	VSS[87]
AB4	VSS[9]	VSS[88]
AB43	VSS[10]	VSS[89]
AB5	VSS[11]	VSS[90]
AB7	VSS[12]	VSS[91]
AC19	VSS[13]	VSS[92]
AC2	VSS[14]	VSS[93]
AC21	VSS[15]	VSS[94]
AC24	VSS[16]	VSS[95]
AC33	VSS[17]	VSS[96]
AC34	VSS[18]	VSS[97]
AC48	VSS[19]	VSS[98]
AD10	VSS[20]	VSS[99]
AD11	VSS[21]	VSS[100]
AD12	VSS[22]	VSS[101]
AD13	VSS[23]	VSS[102]
AD19	VSS[24]	VSS[103]
AD24	VSS[25]	VSS[104]
AD26	VSS[26]	VSS[105]
AD27	VSS[27]	VSS[106]
AD33	VSS[28]	VSS[107]
AD34	VSS[29]	VSS[108]
AD36	VSS[30]	VSS[109]
AD37	VSS[31]	VSS[110]
AD38	VSS[32]	VSS[111]
AD39	VSS[33]	VSS[112]
AD4	VSS[34]	VSS[113]
AD40	VSS[35]	VSS[114]
AD42	VSS[36]	VSS[115]
AD43	VSS[37]	VSS[116]
AD45	VSS[38]	VSS[117]
AD46	VSS[39]	VSS[118]
AD8	VSS[40]	VSS[119]
AE2	VSS[41]	VSS[120]
AE3	VSS[42]	VSS[121]
AE10	VSS[43]	VSS[122]
AE12	VSS[44]	VSS[123]
AD14	VSS[45]	VSS[124]
AD16	VSS[46]	VSS[125]
AF16	VSS[47]	VSS[126]
AF19	VSS[48]	VSS[127]
AF24	VSS[49]	VSS[128]
AF26	VSS[50]	VSS[129]
AF27	VSS[51]	VSS[130]
AF29	VSS[52]	VSS[131]
AF31	VSS[53]	VSS[132]
AF38	VSS[54]	VSS[133]
AF4	VSS[55]	VSS[134]
AF42	VSS[56]	VSS[135]
AF46	VSS[57]	VSS[136]
AF5	VSS[58]	VSS[137]
AF7	VSS[59]	VSS[138]
AF8	VSS[60]	VSS[139]
AG19	VSS[61]	VSS[140]
AG2	VSS[62]	VSS[141]
AG31	VSS[63]	VSS[142]
AG48	VSS[64]	VSS[143]
AH11	VSS[65]	VSS[144]
AH3	VSS[66]	VSS[145]
AH36	VSS[67]	VSS[146]
AH39	VSS[68]	VSS[147]
AH40	VSS[69]	VSS[148]
AH42	VSS[70]	VSS[149]
AH46	VSS[71]	VSS[150]
AH7	VSS[72]	VSS[151]
AJ19	VSS[73]	VSS[152]
AJ21	VSS[74]	VSS[153]
AJ24	VSS[75]	VSS[154]
AJ33	VSS[76]	VSS[155]
AJ34	VSS[77]	VSS[156]
AK12	VSS[78]	VSS[157]
AK3	VSS[79]	VSS[158]

U171

AY4	VSS[159]	VSS[259]	H46
AY42	VSS[160]	VSS[260]	K18
AY46	VSS[161]	VSS[261]	K26
AY8	VSS[162]	VSS[262]	K39
B11	VSS[163]	VSS[263]	K46
B15	VSS[164]	VSS[264]	K7
B19	VSS[165]	VSS[265]	L18
B23	VSS[166]	VSS[266]	L2
B27	VSS[167]	VSS[267]	L20
B31	VSS[168]	VSS[268]	L26
AL17	VSS[169]	VSS[269]	L28
AL19	VSS[170]	VSS[270]	L36
B7	VSS[171]	VSS[271]	L48
F45	VSS[172]	VSS[272]	M12
BB12	VSS[173]	VSS[273]	P16
BB16	VSS[174]	VSS[274]	M18
BB20	VSS[175]	VSS[275]	M22
BB22	VSS[176]	VSS[276]	M24
BB24	VSS[177]	VSS[277]	M30
BB28	VSS[178]	VSS[278]	M32
BB30	VSS[179]	VSS[279]	M34
BB38	VSS[180]	VSS[280]	M38
BB4	VSS[181]	VSS[281]	M4
BB46	VSS[182]	VSS[282]	M42
BC14	VSS[183]	VSS[283]	M46
BC18	VSS[184]	VSS[284]	M8
BC2	VSS[185]	VSS[285]	N18
BC22	VSS[186]	VSS[286]	P30
BC26	VSS[187]	VSS[287]	N47
AN2	VSS[188]	VSS[288]	P11
BC32	VSS[189]	VSS[289]	P18
BC34	VSS[190]	VSS[290]	T33
BC36	VSS[191]	VSS[291]	P40
BC40	VSS[192]	VSS[292]	P43
BC48	VSS[193]	VSS[293]	P47
BD46	VSS[194]	VSS[294]	P7
BD5	VSS[195]	VSS[295]	R2
BE22	VSS[196]	VSS[296]	R48
BE26	VSS[197]	VSS[297]	T12
FE40	VSS[198]	VSS[298]	T31
BE10	VSS[199]	VSS[299]	T37
BE12	VSS[200]	VSS[300]	T4
BF16	VSS[201]	VSS[301]	V34
BF20	VSS[202]	VSS[302]	T46
BF22	VSS[203]	VSS[303]	T47
BF24	VSS[204]	VSS[304]	T8
BF26	VSS[205]	VSS[305]	V11
BF28	VSS[206]	VSS[306]	V17
BD3	VSS[207]	VSS[307]	V26
BF30	VSS[208]	VSS[308]	V27
BF38	VSS[209]	VSS[309]	V29
FE40	VSS[210]	VSS[310]	V31
BF8	VSS[211]	VSS[311]	V36
BC17	VSS[212]	VSS[312]	V39
BG21	VSS[213]	VSS[313]	V43
BG33	VSS[214]	VSS[314]	V7
BG44	VSS[215]	VSS[315]	W17
BG8	VSS[216]	VSS[316]	W19
BH11	VSS[217]	VSS[317]	W2
AU24	VSS[218]	VSS[318]	W27
AU30	VSS[219]	VSS[319]	W48
BH17	VSS[220]	VSS[320]	Y12
BH19	VSS[221]	VSS[321]	Y38
H10	VSS[222]	VSS[322]	Y4
BH27	VSS[223]	VSS[323]	Y42
BH31	VSS[224]	VSS[324]	Y46
AV4	VSS[225]	VSS[325]	Y8
BH33	VSS[226]	VSS[326]	BG29
BH35	VSS[227]	VSS[327]	N24
BH39	VSS[228]	VSS[328]	AJ3
BH43	VSS[229]	VSS[329]	AD47
BH7	VSS[230]	VSS[330]	D43
AW2	VSS[231]	VSS[331]	BE10
D12	VSS[232]	VSS[332]	BG41
D16	VSS[233]	VSS[333]	G14
D18	VSS[234]	VSS[334]	H16
D22	VSS[235]	VSS[335]	T36
D24	VSS[236]	VSS[336]	G22
D26	VSS[237]	VSS[337]	BG24
AW40	VSS[238]	VSS[338]	C22
D32	VSS[239]	VSS[339]	AP13
D34	VSS[240]	VSS[340]	M14
D38	VSS[241]	VSS[341]	AP3
D42	VSS[242]	VSS[342]	AP1
D8	VSS[243]	VSS[343]	BE16
E18	VSS[244]	VSS[344]	BC16
F26	VSS[245]	VSS[345]	BG28
G18	VSS[246]	VSS[346]	BJ28
G20	VSS[247]	VSS[347]	
G26	VSS[248]	VSS[348]	
G28	VSS[249]	VSS[349]	
G36	VSS[250]	VSS[350]	
G48	VSS[251]	VSS[351]	
H12	VSS[252]	VSS[352]	
H18	VSS[253]		
H22	VSS[254]		
H24	VSS[255]		
H26	VSS[256]		
H30	VSS[257]		
H32	VSS[258]		
H34			
F3			

Eleetro-X

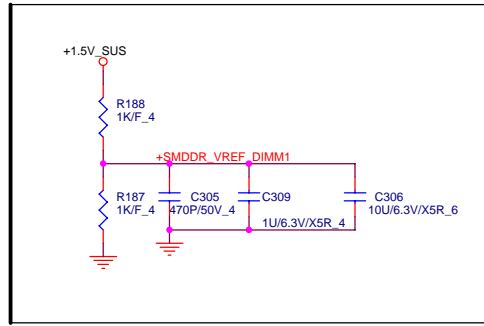
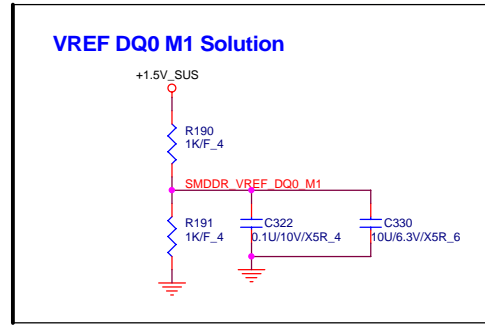
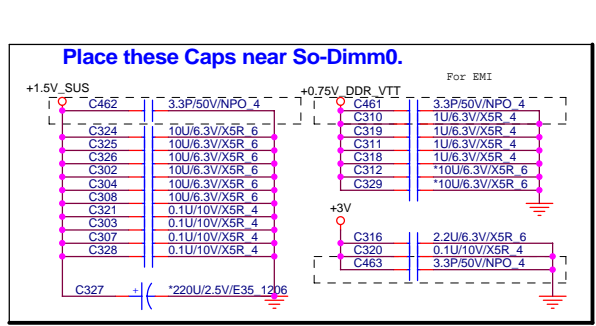
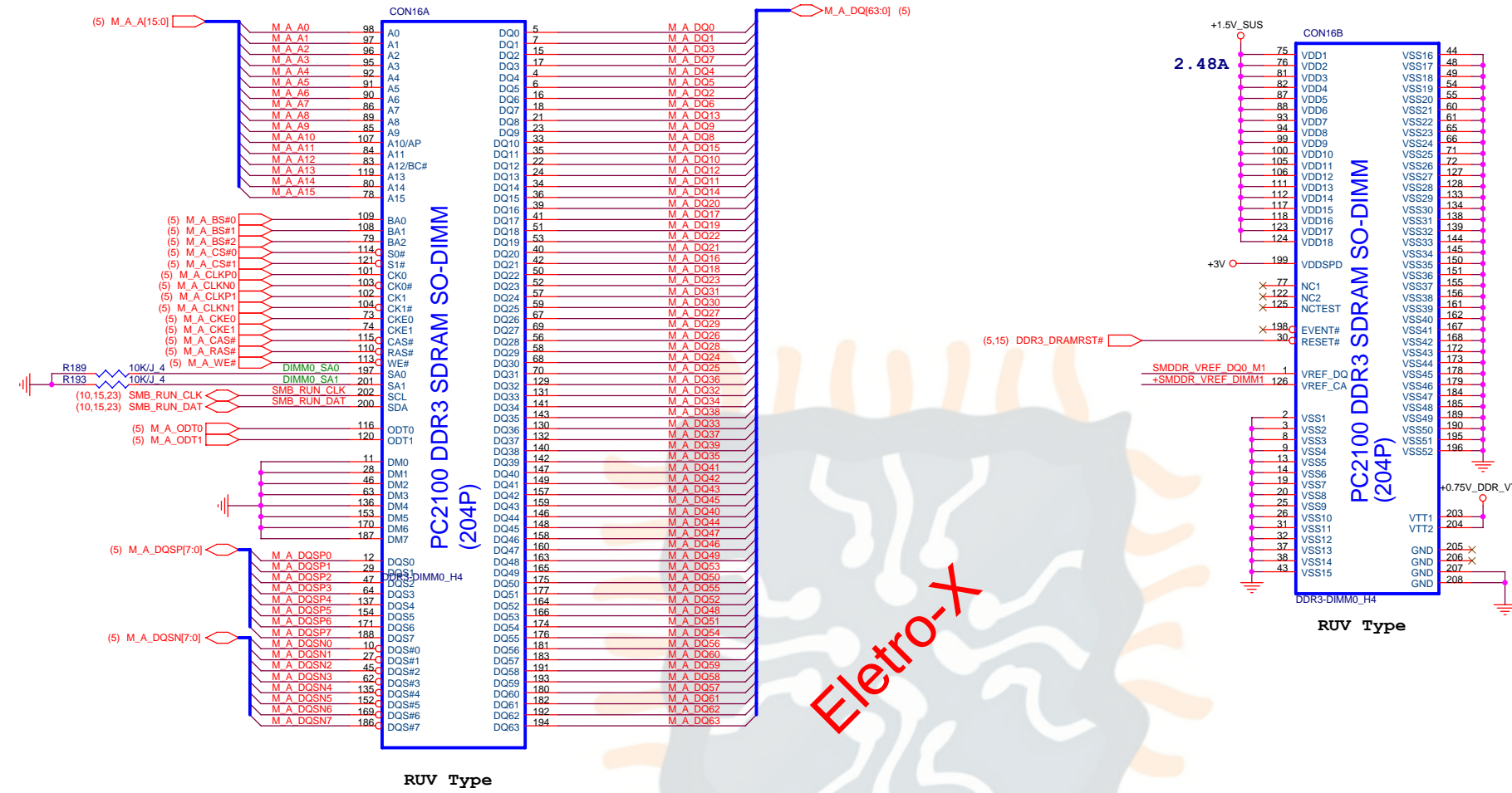
EEETRO-X



Quanta Computer Inc.
PROJECT :Chief River

Size	Document Number	CPT/PPT 6/6
Date: Thursday, January 17, 2013		Sheet 13 of 2

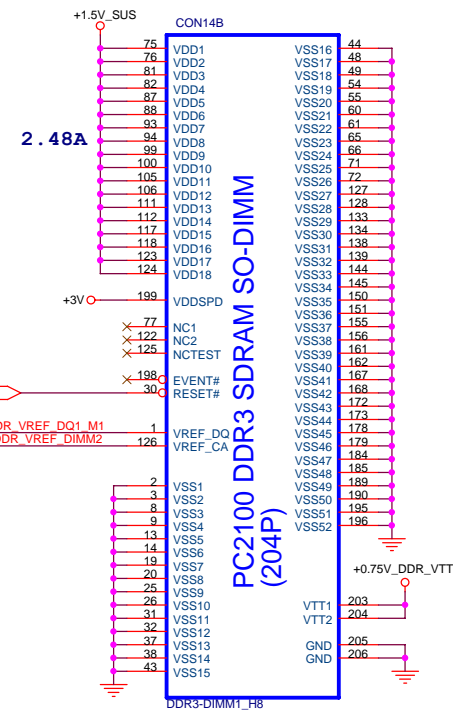
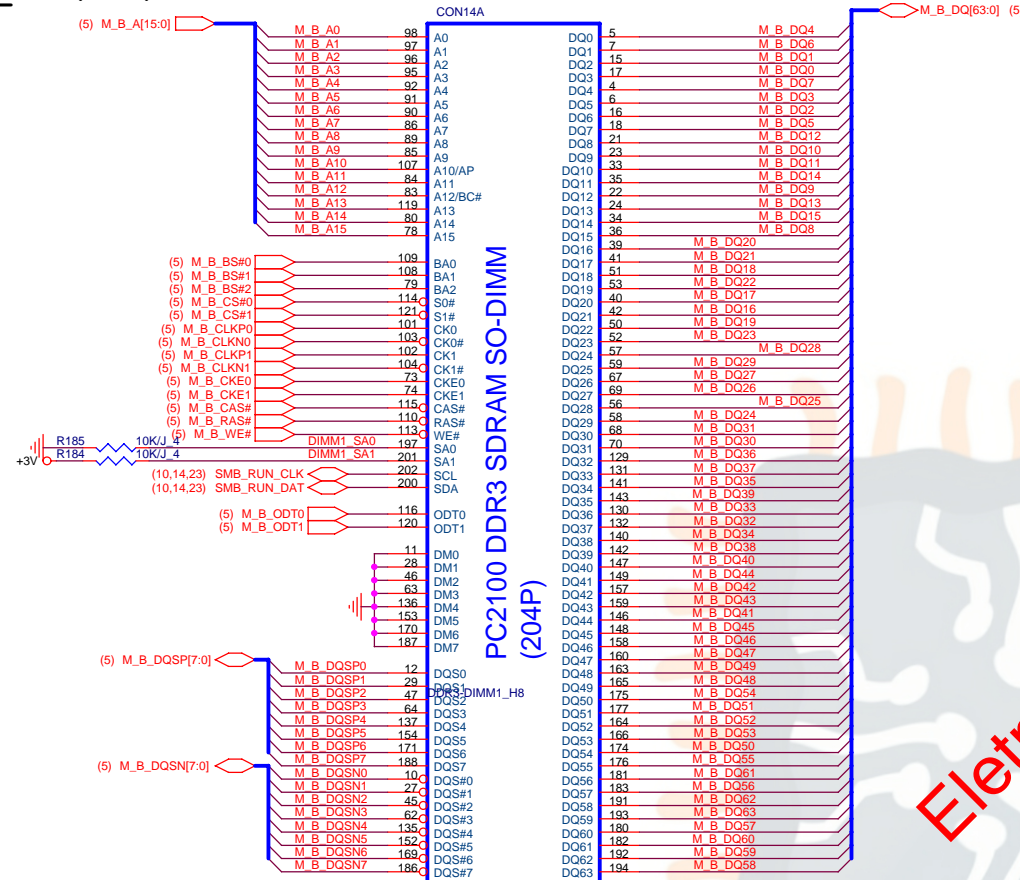
1.Level 1 Environment-related Substances Should Never be Used.
2.Recycled Resin and Coated Wire should be procured from Green Partners.



Quanta Computer Inc.
PROJECT : Chief River
DDR3 SO-DIMM-0

Size: Document Number: Thursday, January 17, 2013 Sheet 14 of 14

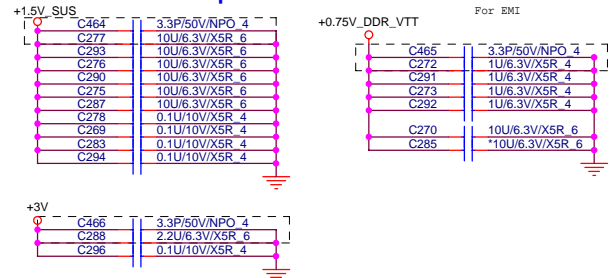
DDR_RVS (DDR)



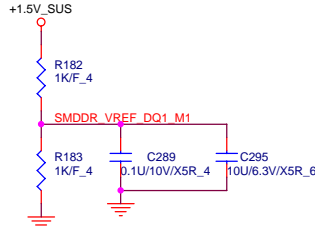
15

RUV Type

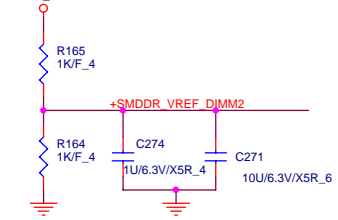
Place these Caps near So-Dimm1.



VREF DQ1 M1 Solution



+1.5V_SUS



Quanta Computer Inc.
PROJECT :Chief River

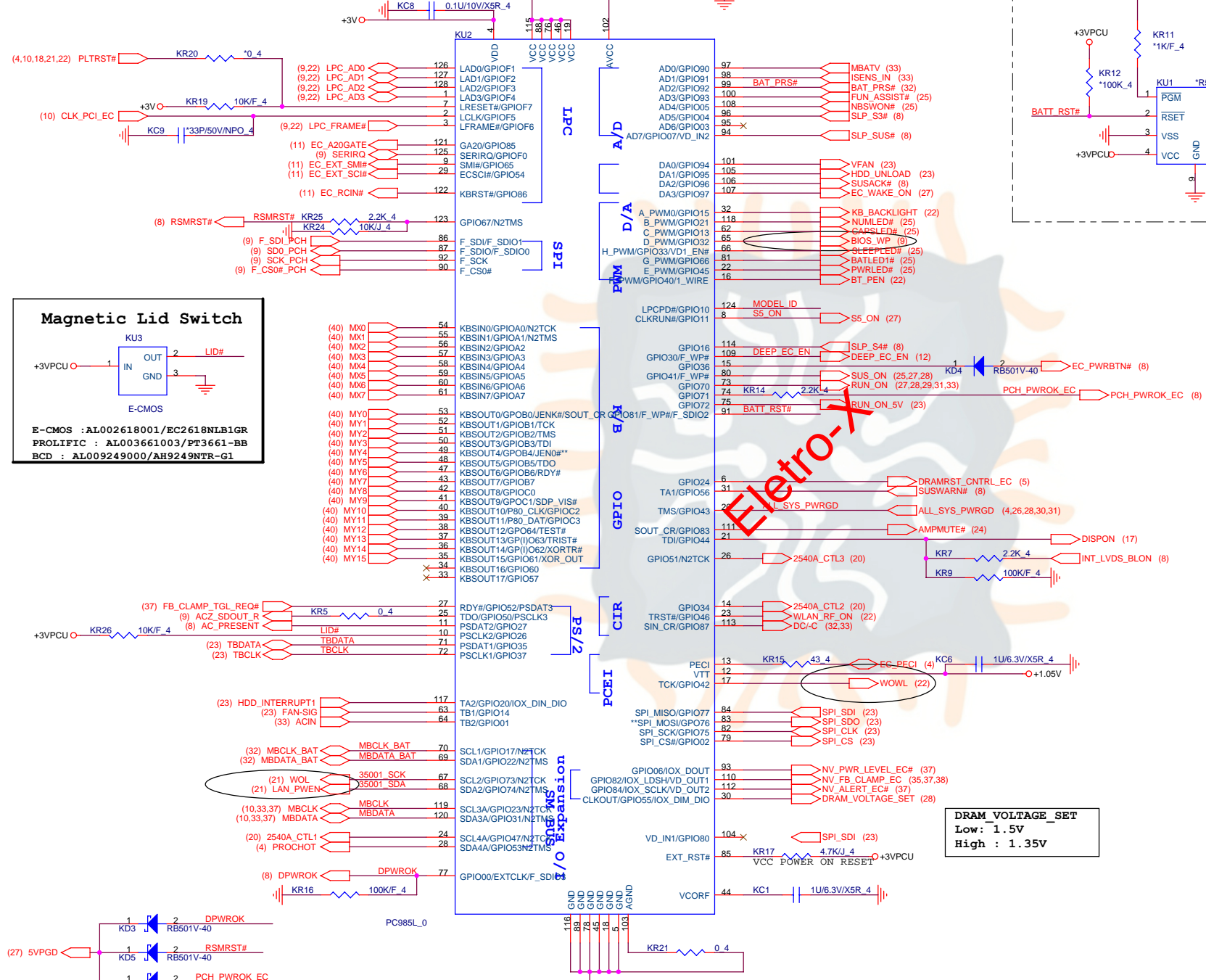
Size	Document Number	Date	Thursday, January 17, 2013	Sheet	15
DDR3 SO-DIMM-1					

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

Eletron-X

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

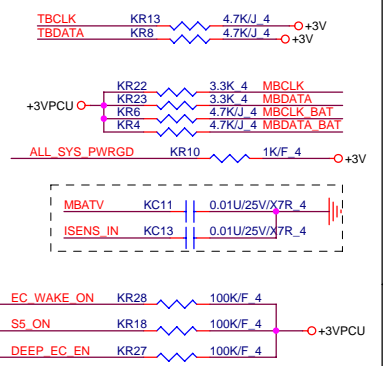
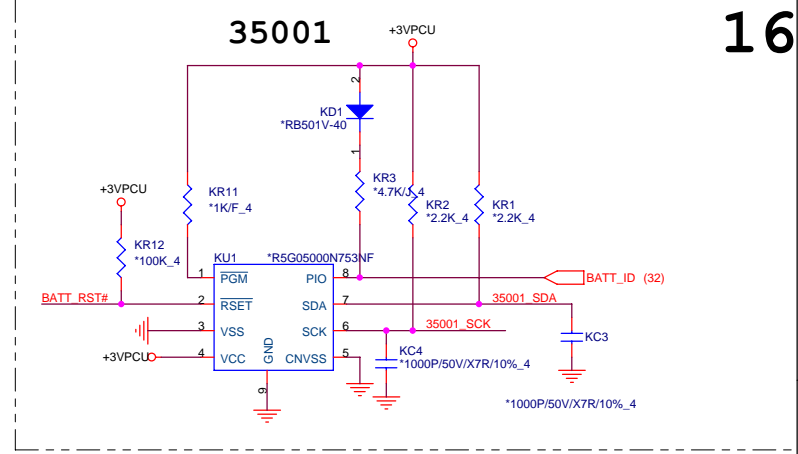
Since ECSCI is OD, no need for a back-drive protection diode on this signal. But note there is internal PU in chipset at default



Magnetic Lid Switch

E-CMOS

E-CMOS : AL002618001/EC2618NLB1GR
 PROLIFIC : AL003661003/PT3661-BB
 BCD : AL009249000/AH9249NTR-G1



DRAM VOLTAGE SET
 Low : 1.5V
 High : 1.35V

MODEL ID	
High	HK8/HK9(KR29 mount KR30 no mount)
Low	GD5/GD6(KR29 no mount KR30 mount)

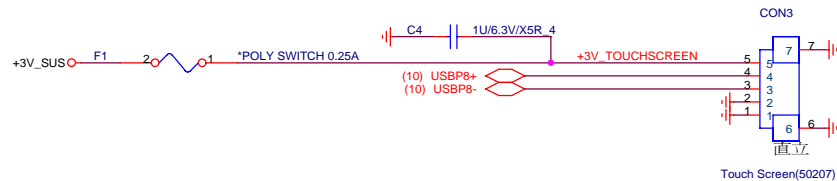
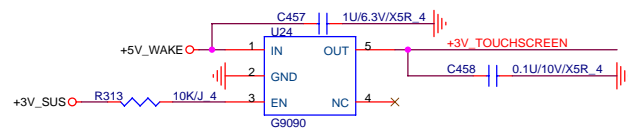
Quanta Computer Inc.
PROJECT : Chief River

Size: Document Number
NPCE885L

Date: Thursday, January 17, 2013 Sheet 16 of 2

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

Touch Screen

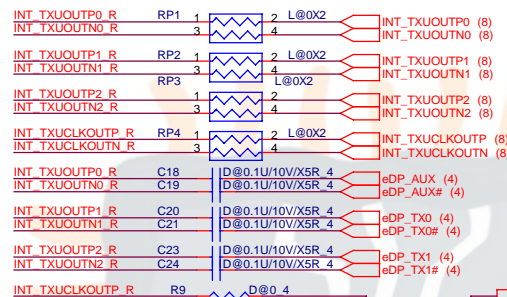
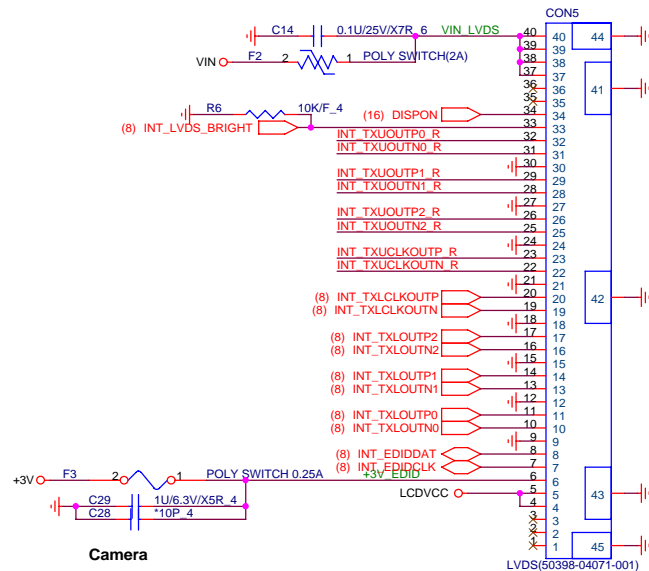


NFC module :
Vender : Samsung SNC-i20
Power consumption : Max. 160mW/48mA
Power Ripple +/- 50mV

Touch Screen(50207)

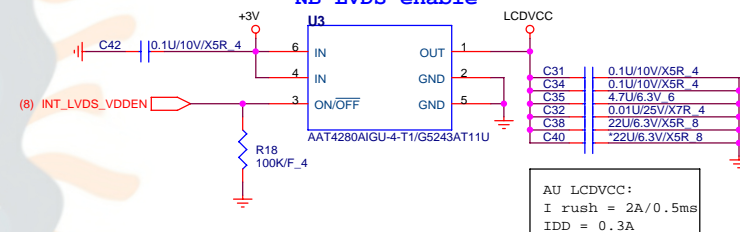
FAST, UL/CSA

LVDS



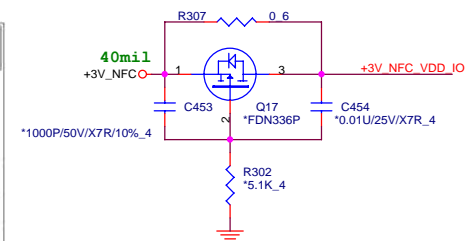
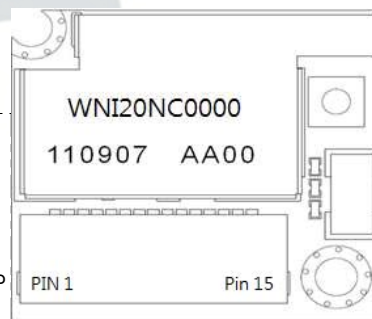
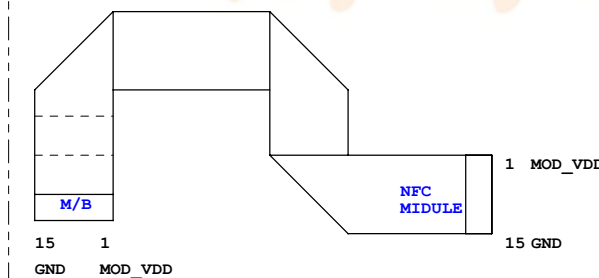
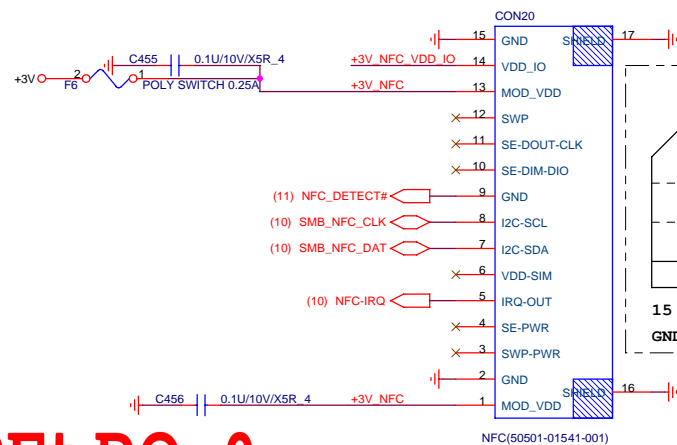
Camera HD specification
Voltage: Max. 3.6V
Current : Max. 200mA
OCP: 200mA ~ 300mA

NB LVDS enable



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

NFC

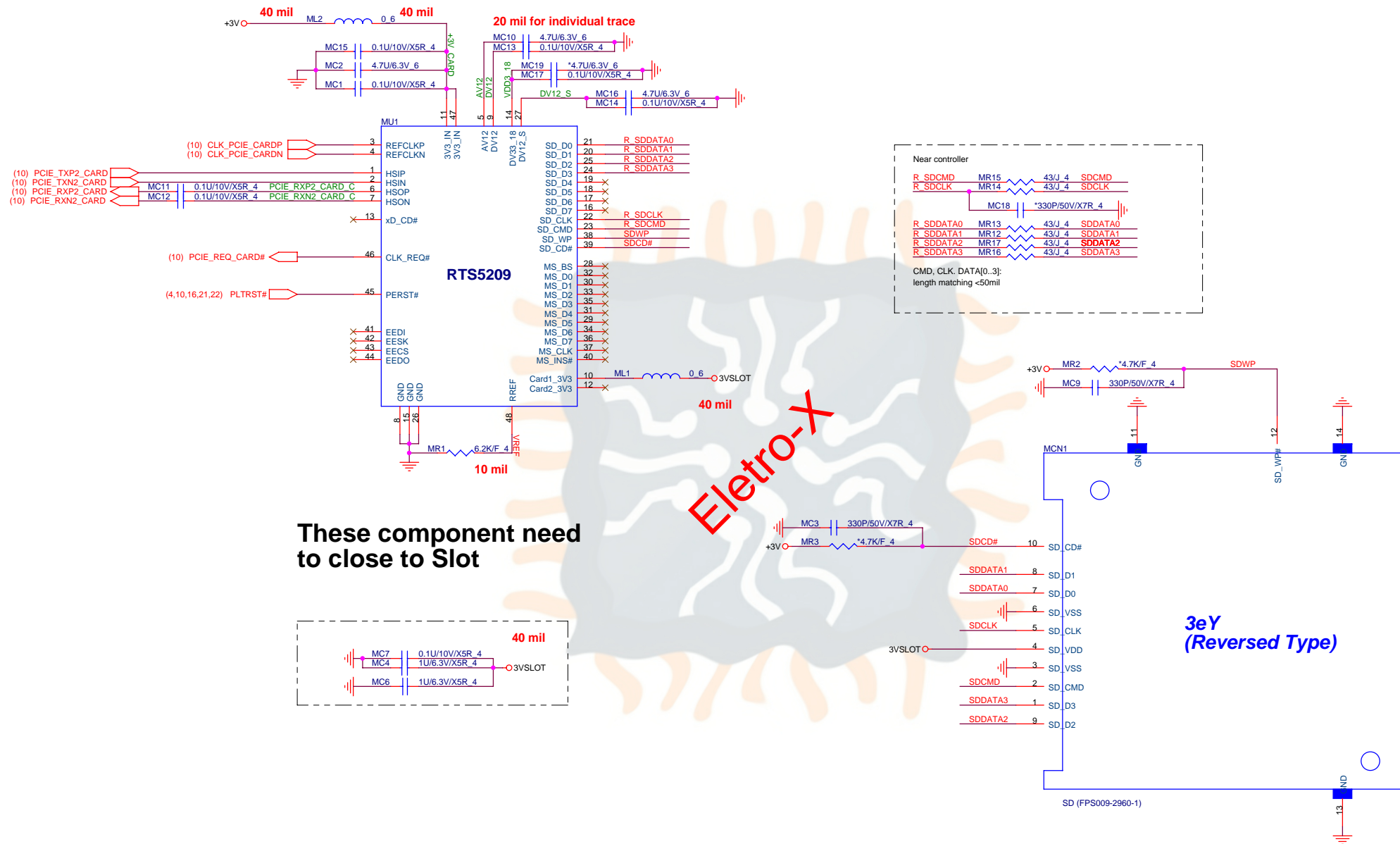


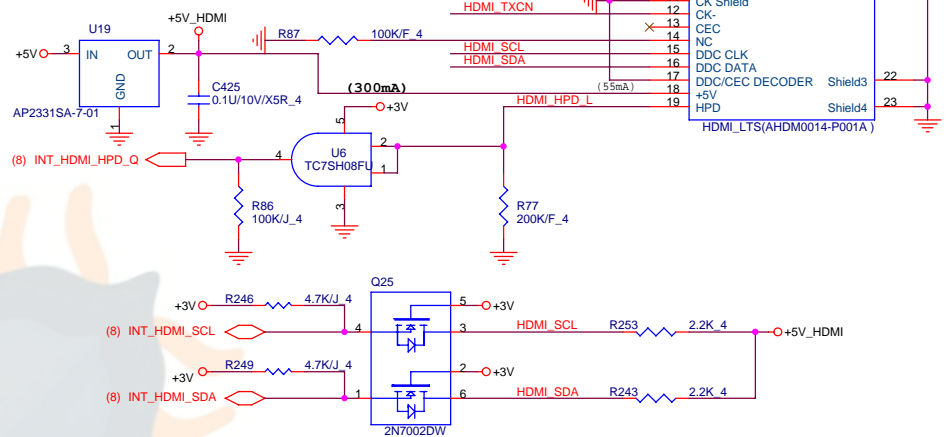
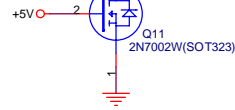
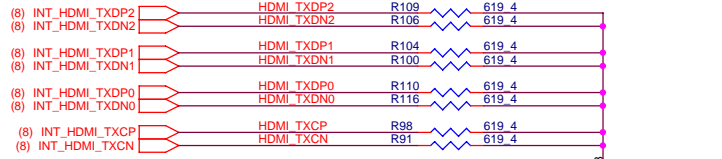
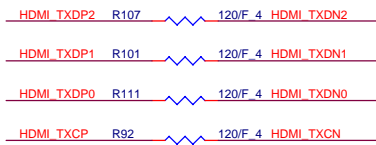
Quanta Computer Inc.

PROJECT :Chief Review

Size Document Number
CRT/LVDS
Date: Thursday, January 17, 2013 Sheet 17 of 17

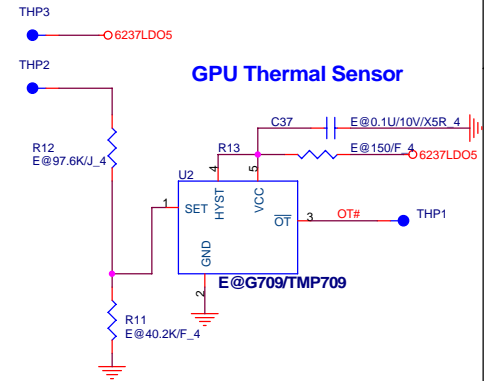
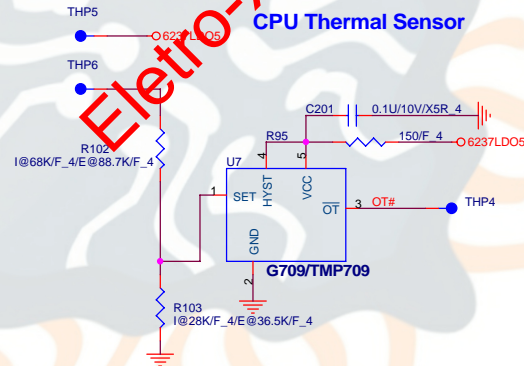
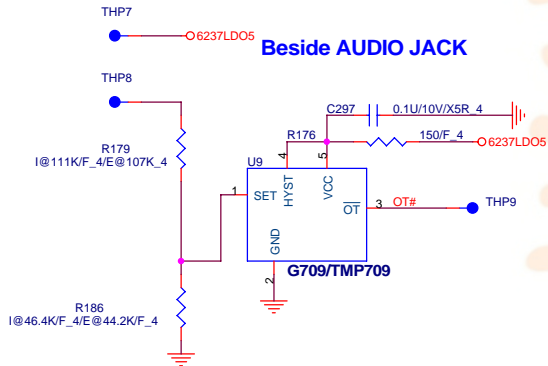
1.Level 1 Environment-related Substances Should Never be Used.
2.Recycled Resin and Coated Wire should be procured from Green Partners.





HDMI 19

H/W Thermal Protect



$$RSET(k\Omega) = 0.0012T^2 - 0.9308T + 96.147$$

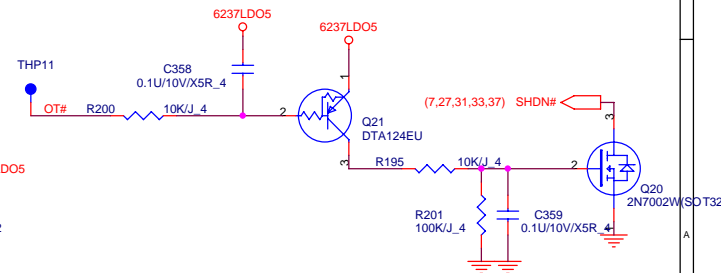
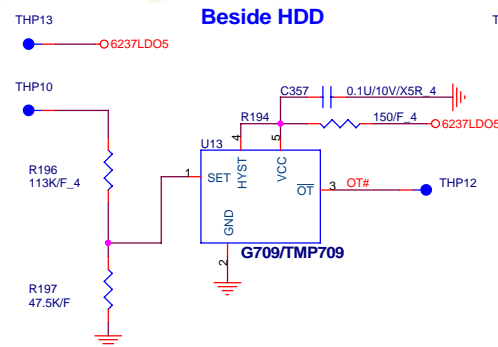
95	18.5K
100	15K
107	10.3K
110	8.2K

DIS SKU

Location of IC	Temp	R-Set	Parts in BOM	Max	Min
Near CPU sensor temp	70	R208=36.87K	36.5K	71	70
Near GFX sensor temp	65	R146=40.72K	40.2K	66.3	65.1
Near AUDIO sensor temp	60	R345=44.62K	44.2K	61.2	60

UMA SKU

Location of IC	Temp	R-Set	Parts in BOM	Max	Min
Near CPU sensor temp	81	R208=28.63K	28K	82.3	81.4
Near AUDIO sensor temp	58	R345=46.2K	46.4K	58.4	57.1



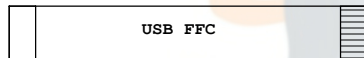
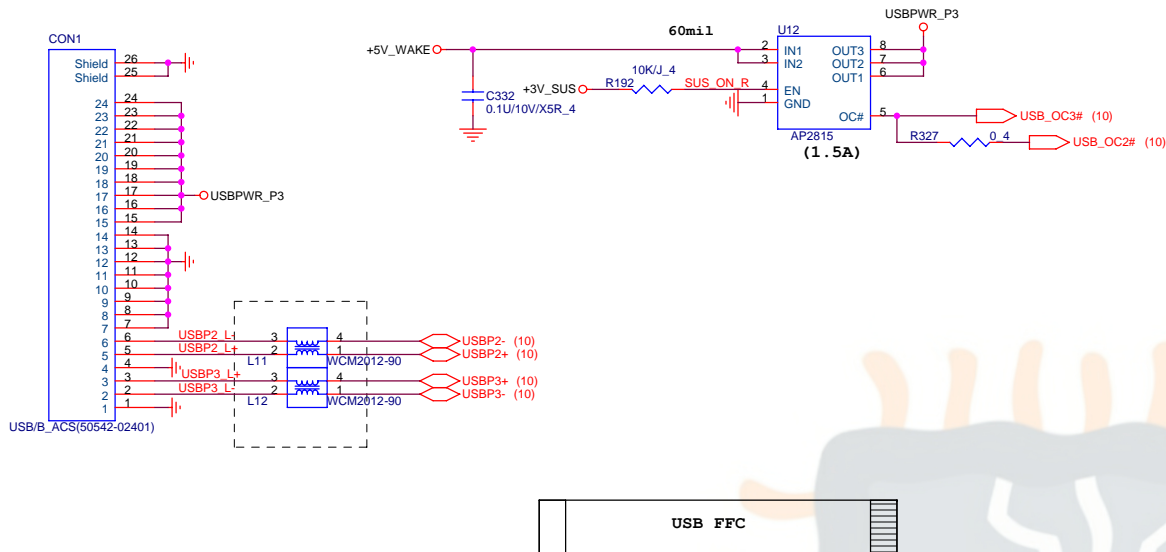
Quanta Computer Inc.
PROJECT : Chief River

Size: Document Number: **HDMI/Thermal IC**
Date: Thursday, January 17, 2013 Sheet 19 of 2

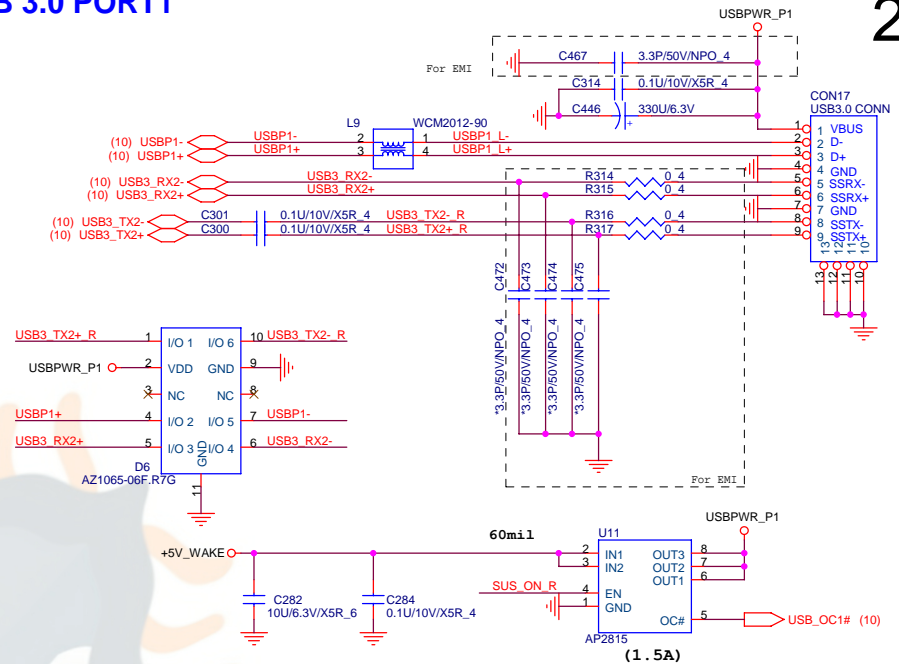
1. Level 1 Environment-related Substances Should Never be Used.
2. Recycled Resin and Coated Wire should be procured from Green Partners.

ELECTRO-2

MB to USB board

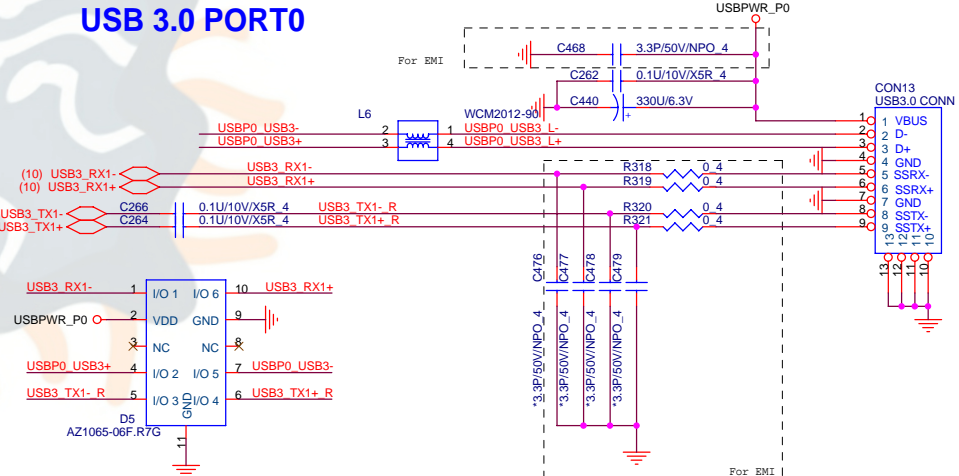
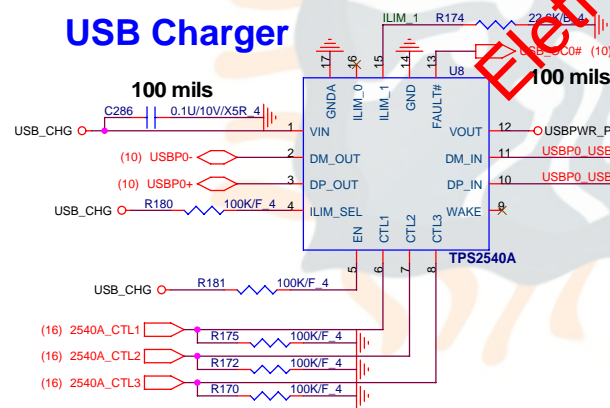


USB 3.0 PORT1

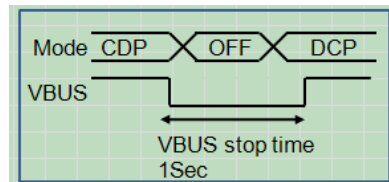


USB 3.0 PORT0

USB Charger



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



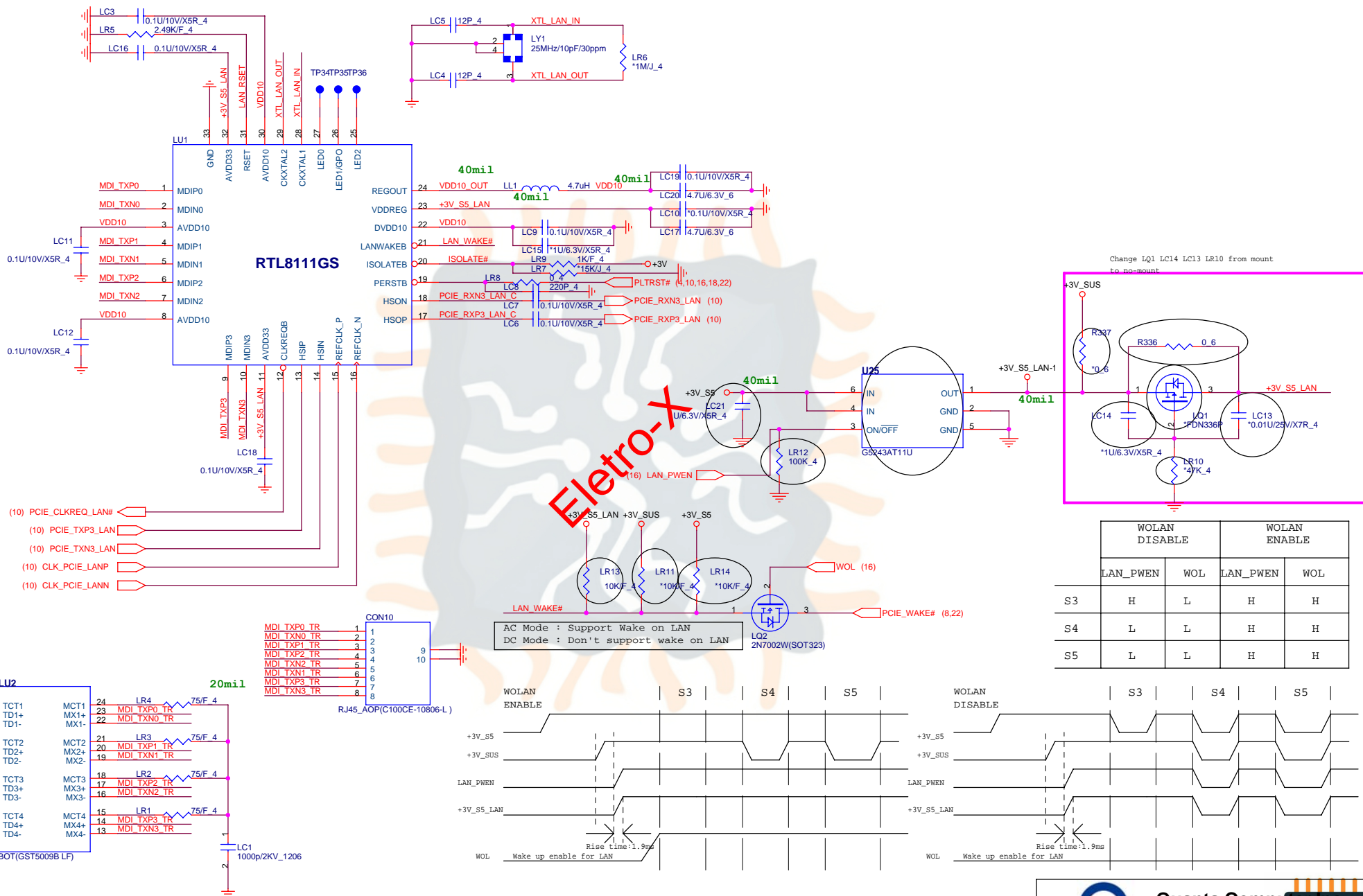
CTL_1	CTL_2	CTL_3	TPS 2540A/2543 Truth Table
0	0	0	OUT discharge, power switch OFF
0	X	1	DCP, Auto-detect (S3/S4/S5, 1.5A)
X	1	0	SDP, USB2.0 mode (S0, 0.5A)
1	0	0	DCP, BC SPEC1.2 only (S3/Deep standby/S4/S5, 1.5A)
1	0	1	DCP, Divider mode only (S3/S4/S5, 1.5A)
1	1	1	CDP (S0, 1.5A)

System State	USB Battery Charging Setting			
	Disable	C(1 2 3)	Enable	C(1 2 3)
S0				
S3	SDP	(X 1 0)	CDP	(1 1 1)
DS3	SDP	(X 1 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)

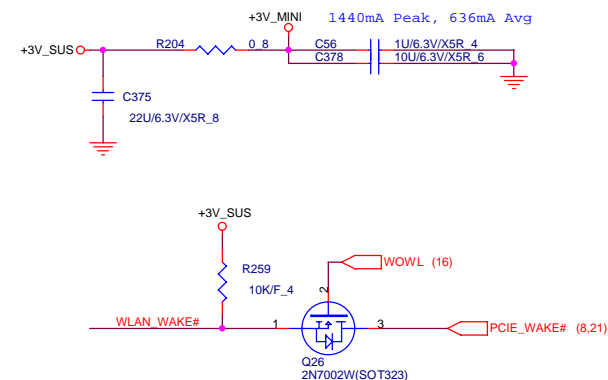
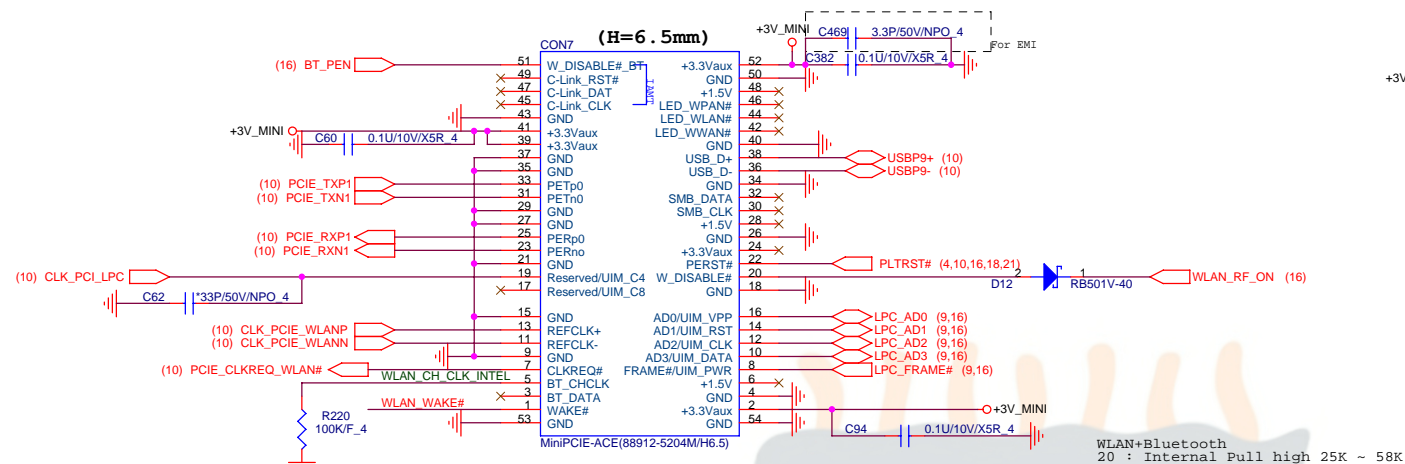
ILIM_SEL (I LIMIT(A)= 48000/R)		
HI	ILIM_1	
LO	ILIM_0	48000/22.6K=2.123A

		PROJECT : Chief River
		USB/USB Charger
Size	Document Number	
Date	Thursday, January 17, 2013	Sheet 20 of 22

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

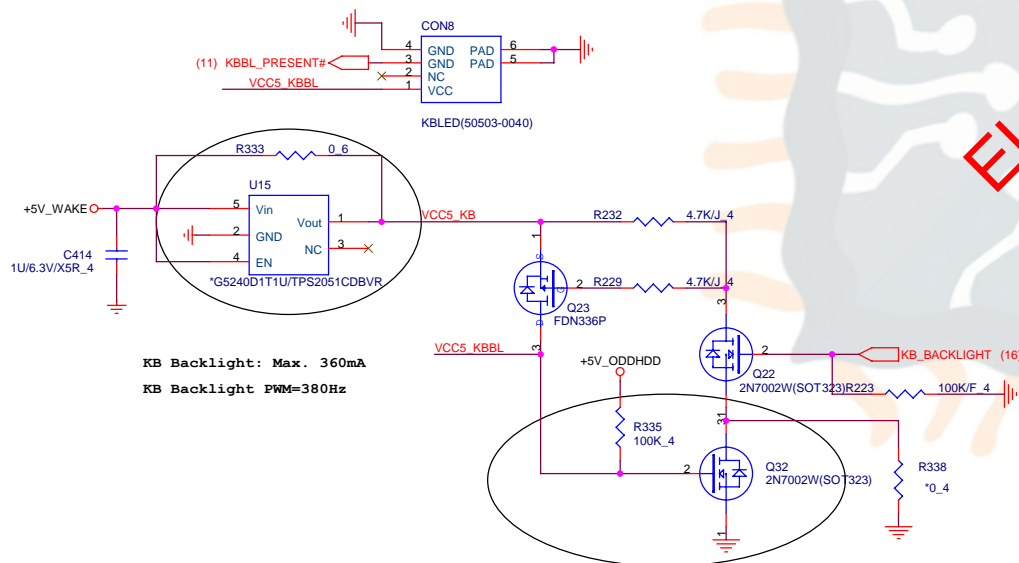


WLAN/WIMAX/WIDI



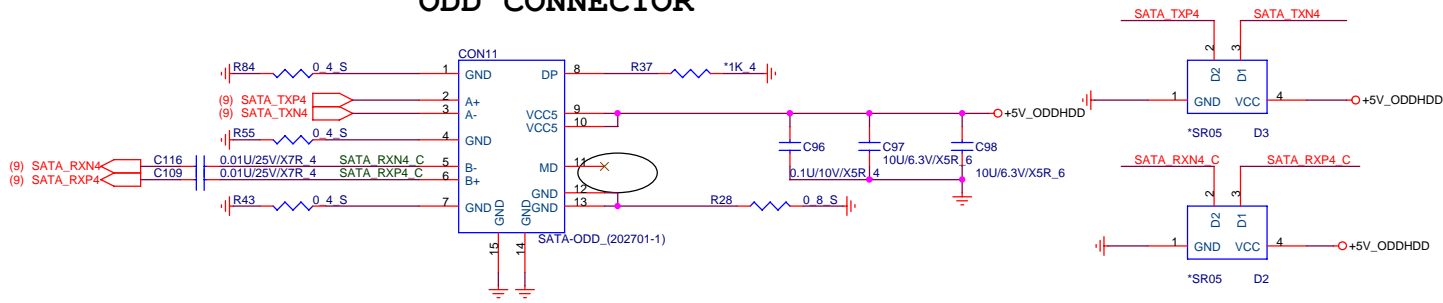
```
AC Mode : Support Wake on WLAN
DC Mode : Don't support wake on WLAN
```

KB BACKLIGHT

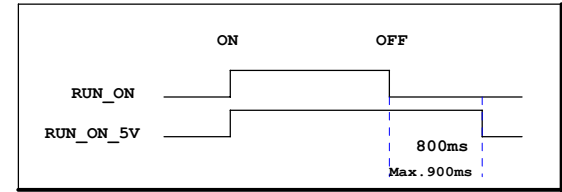
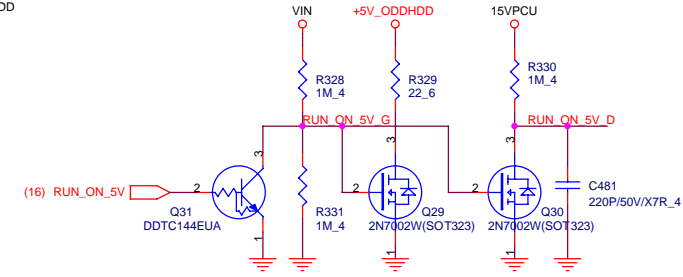
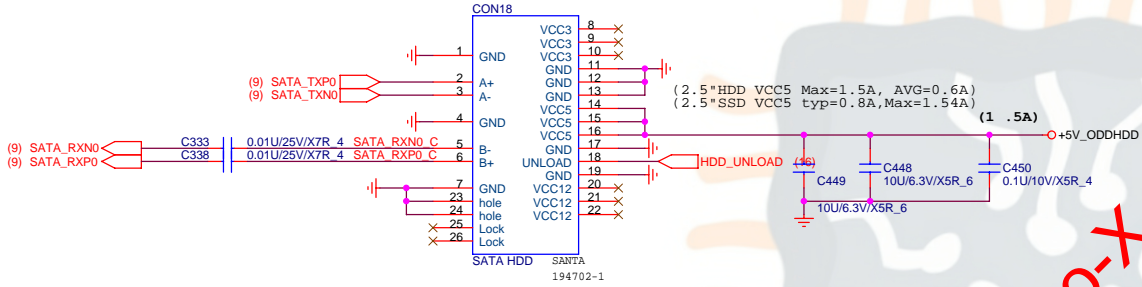


KB Backlight: Max. 360mA
KB Backlight PWM=380Hz

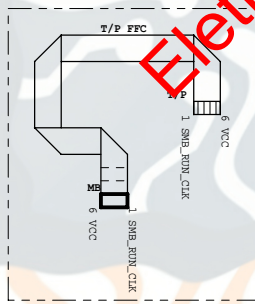
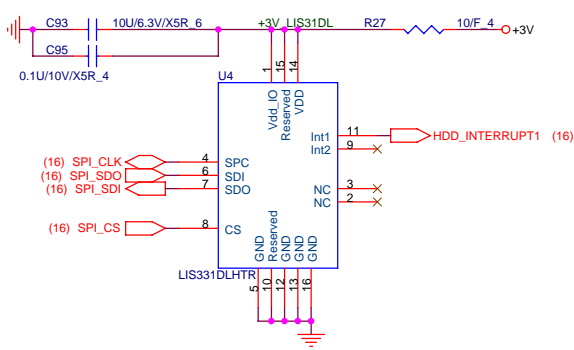
ODD CONNECTOR



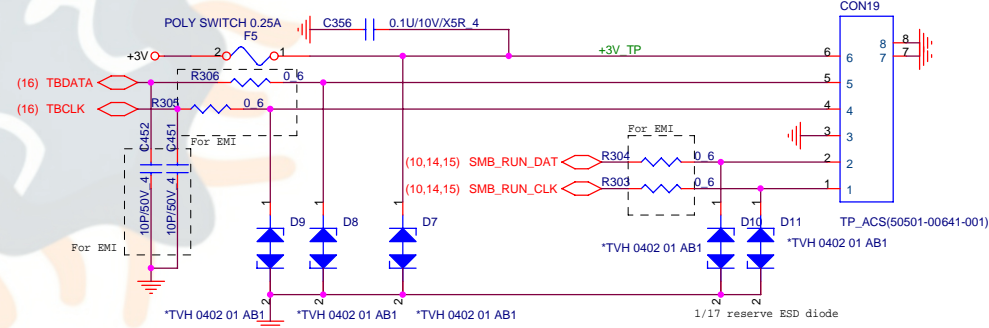
HDD CONNECTOR



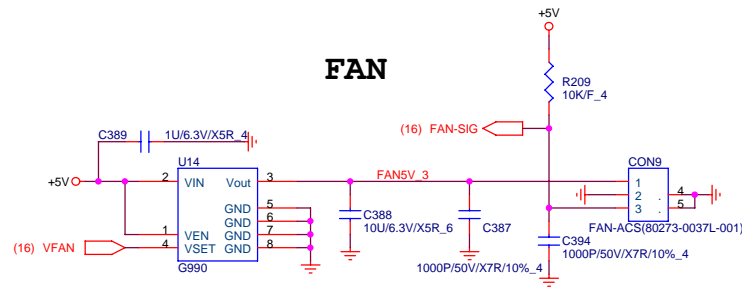
HDD PROTECT SPI INTERFACE



T/P Board to T/P

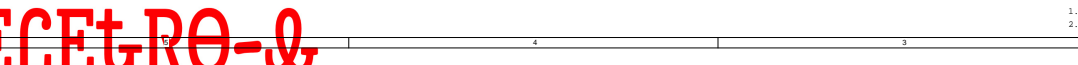
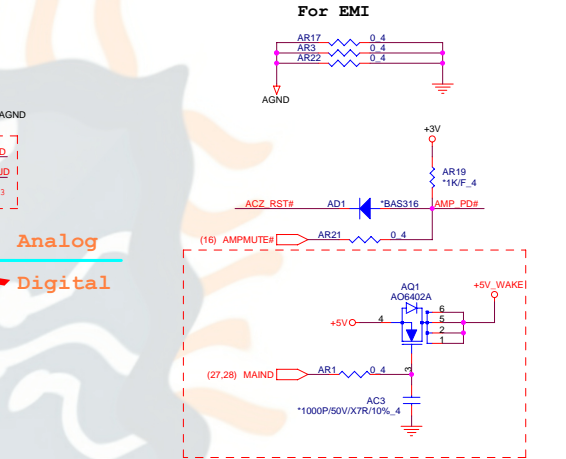
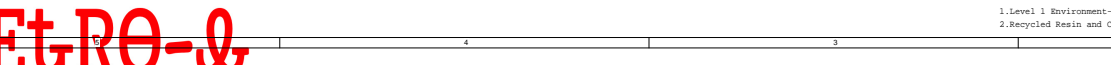


FAN

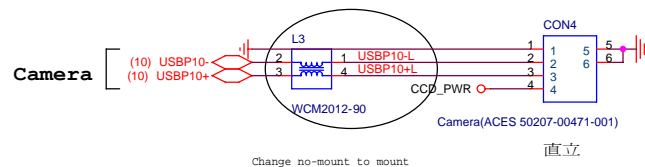
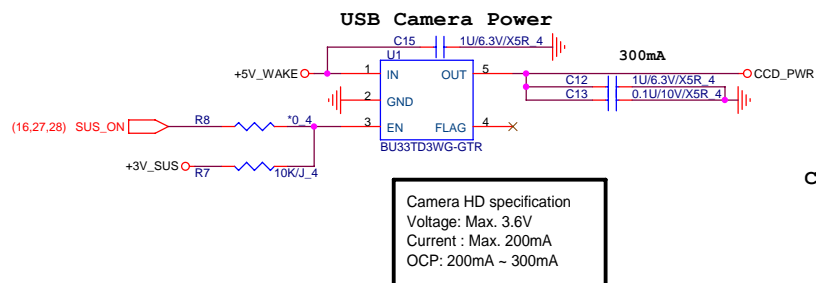


Quanta Computer Inc.
PROJECT :Chief River
HDD/ODD/TP/FAN

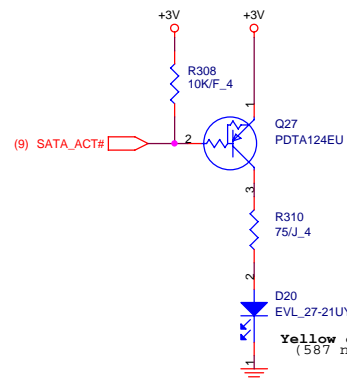
Size: Document Number: Thursday, January 17, 2013 Sheet 23 of 24



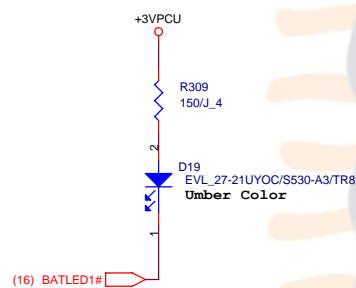
Camera



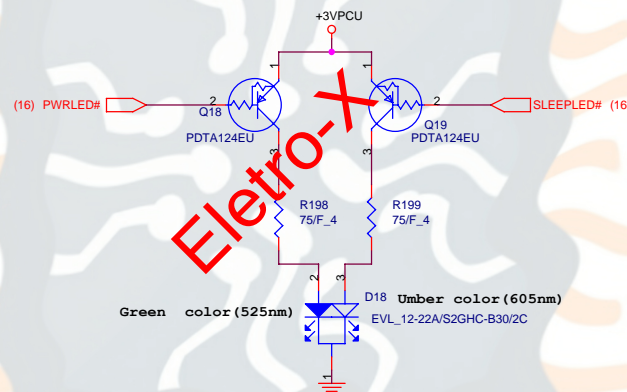
SATA LED



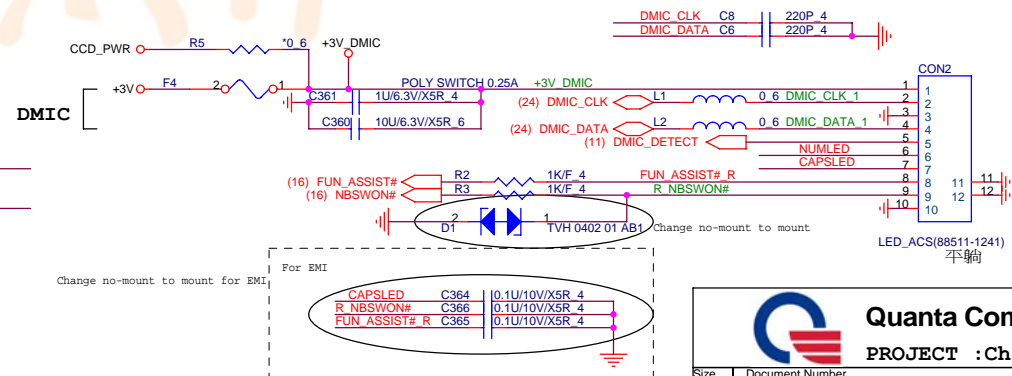
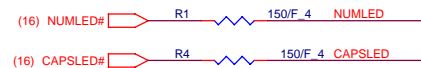
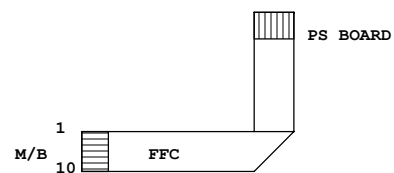
BATTERY LED



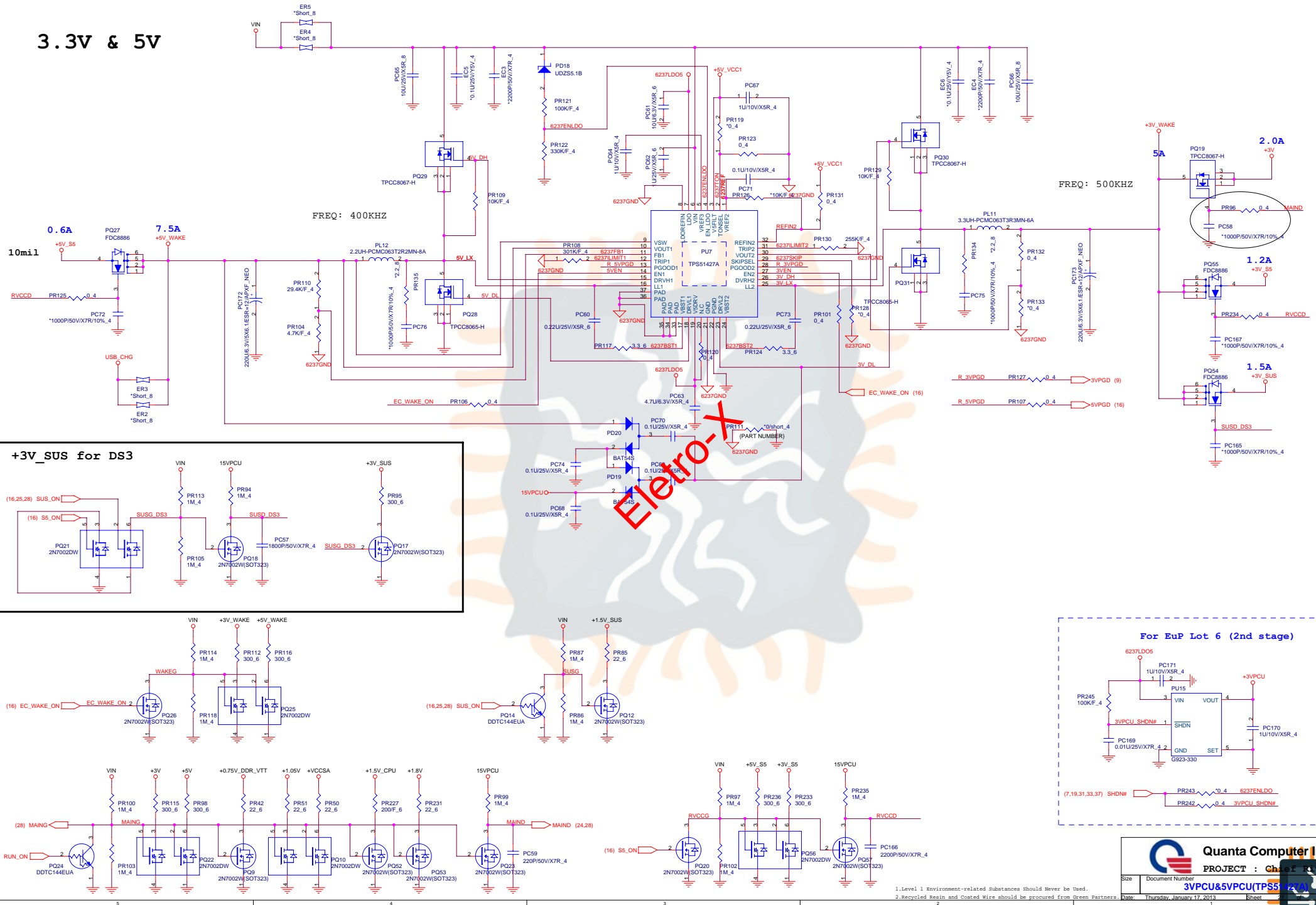
Power/Sleep LED



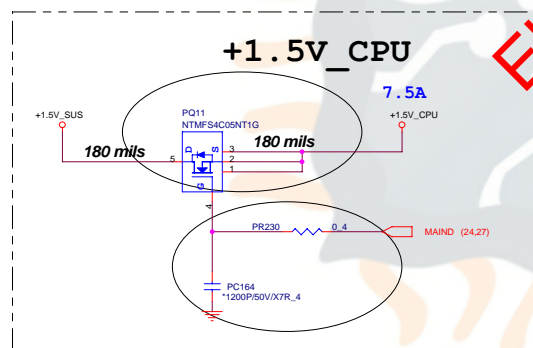
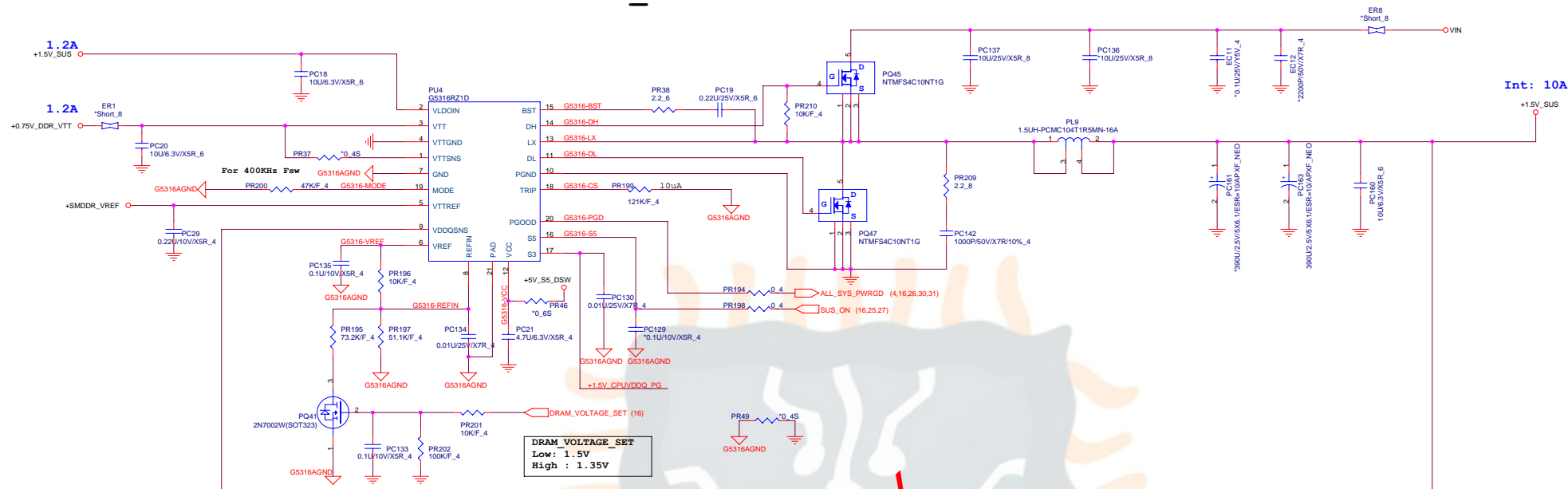
Power SW Board Connector



3.3V & 5V

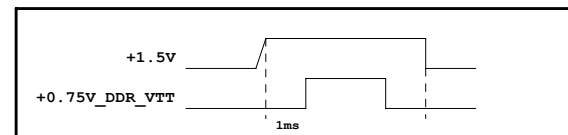
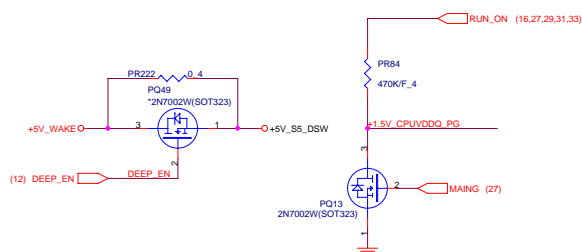


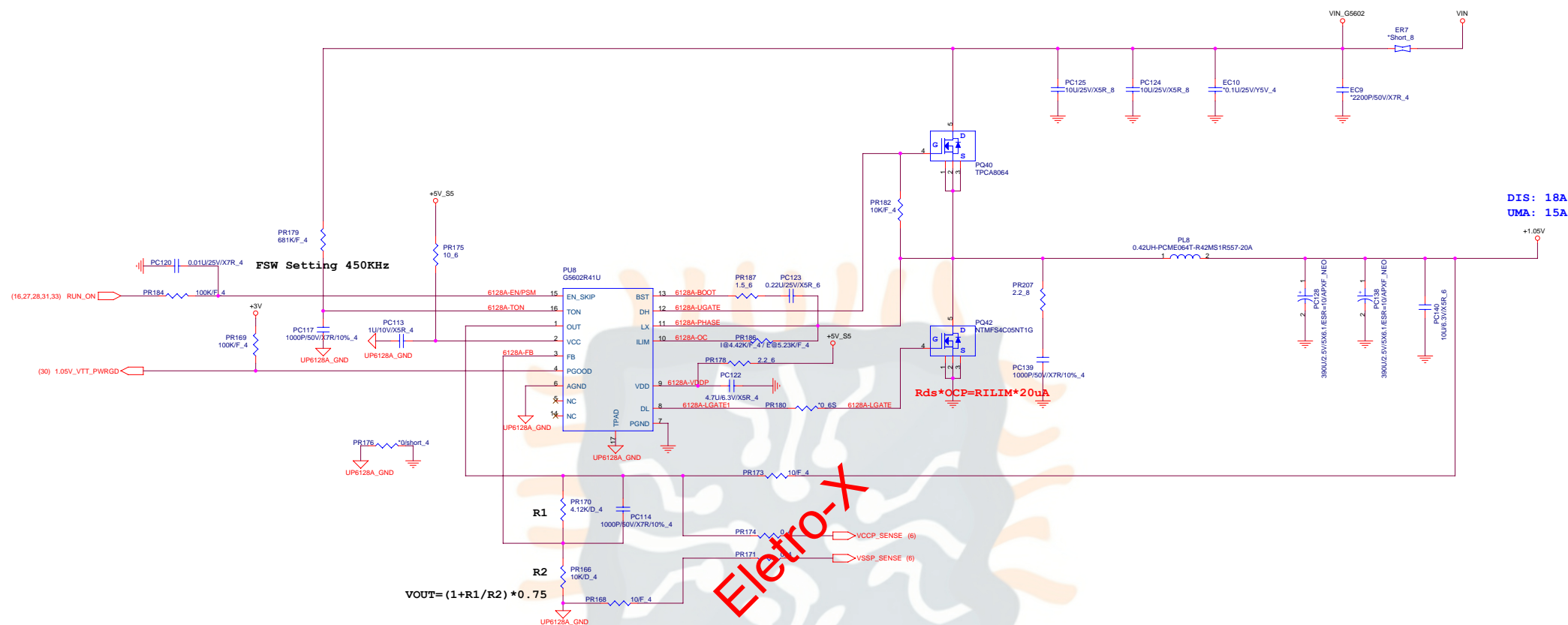
1.5VSUS & VTT MEM

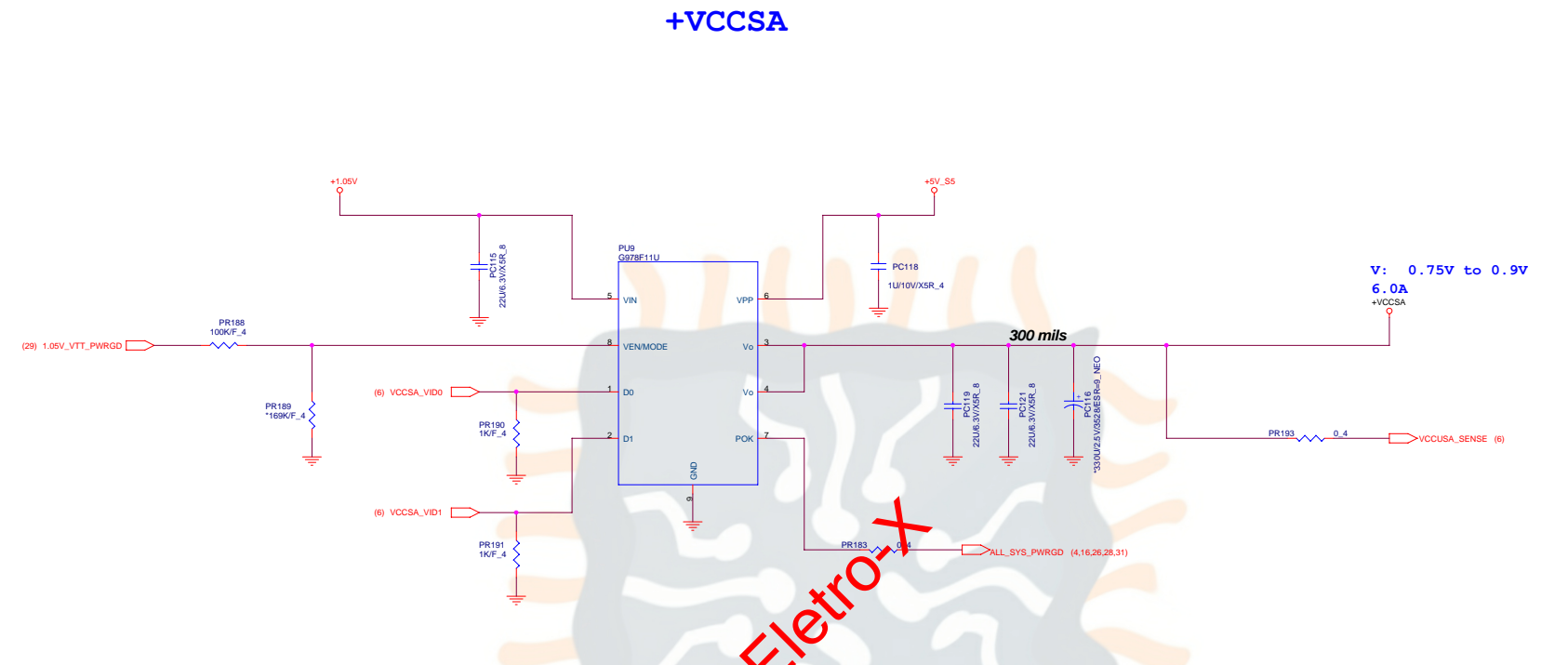


MODE	Resistor on Mode	Fsw	Discharge Mode
3	200Kohm	400KHz	Tracking discharge
2	100Kohm	300KHz	
1	68Kohm	300KHz	Non-tracking discharge
0	47Kohm	400KHz	

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



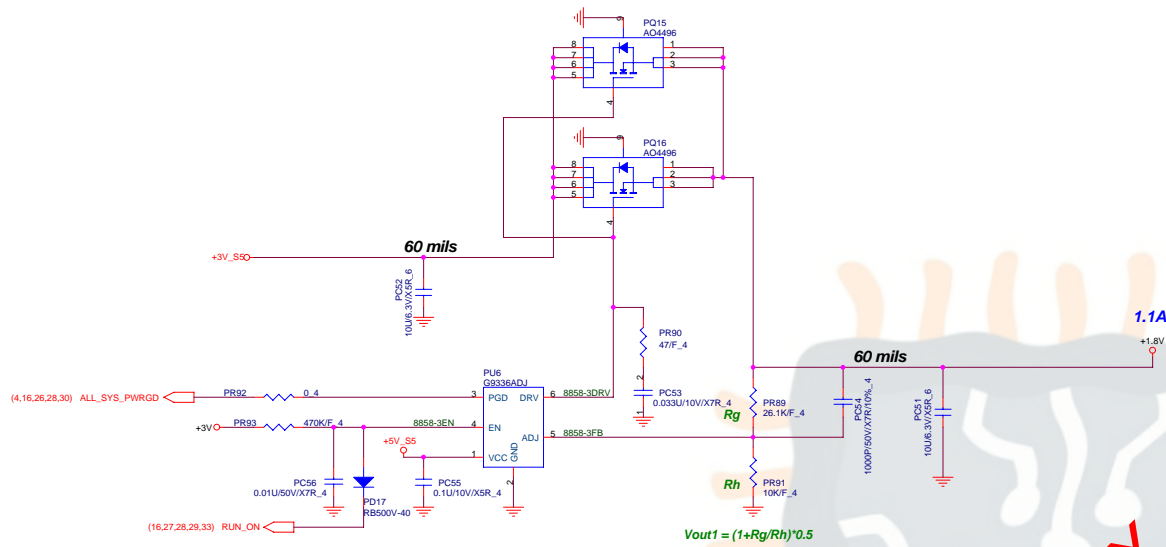




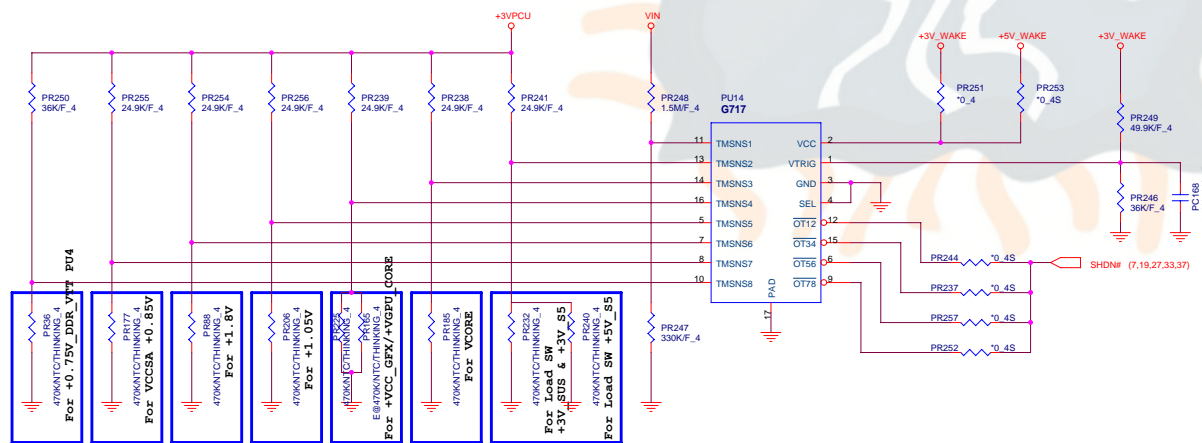
For Chief River ULV

VCCSA_VID0	VCCSA_VID1	+VCCSA
0	0	0.9V
0	1	0.85V
1	0	0.775V
1	1	0.75V

VCC1.8



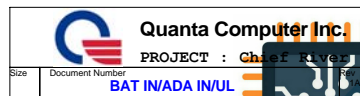
Thermal Protection and Battery UVP for VEDS

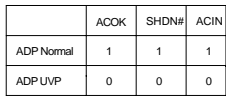


Quanta Computer Inc.
PROJECT : Chief River

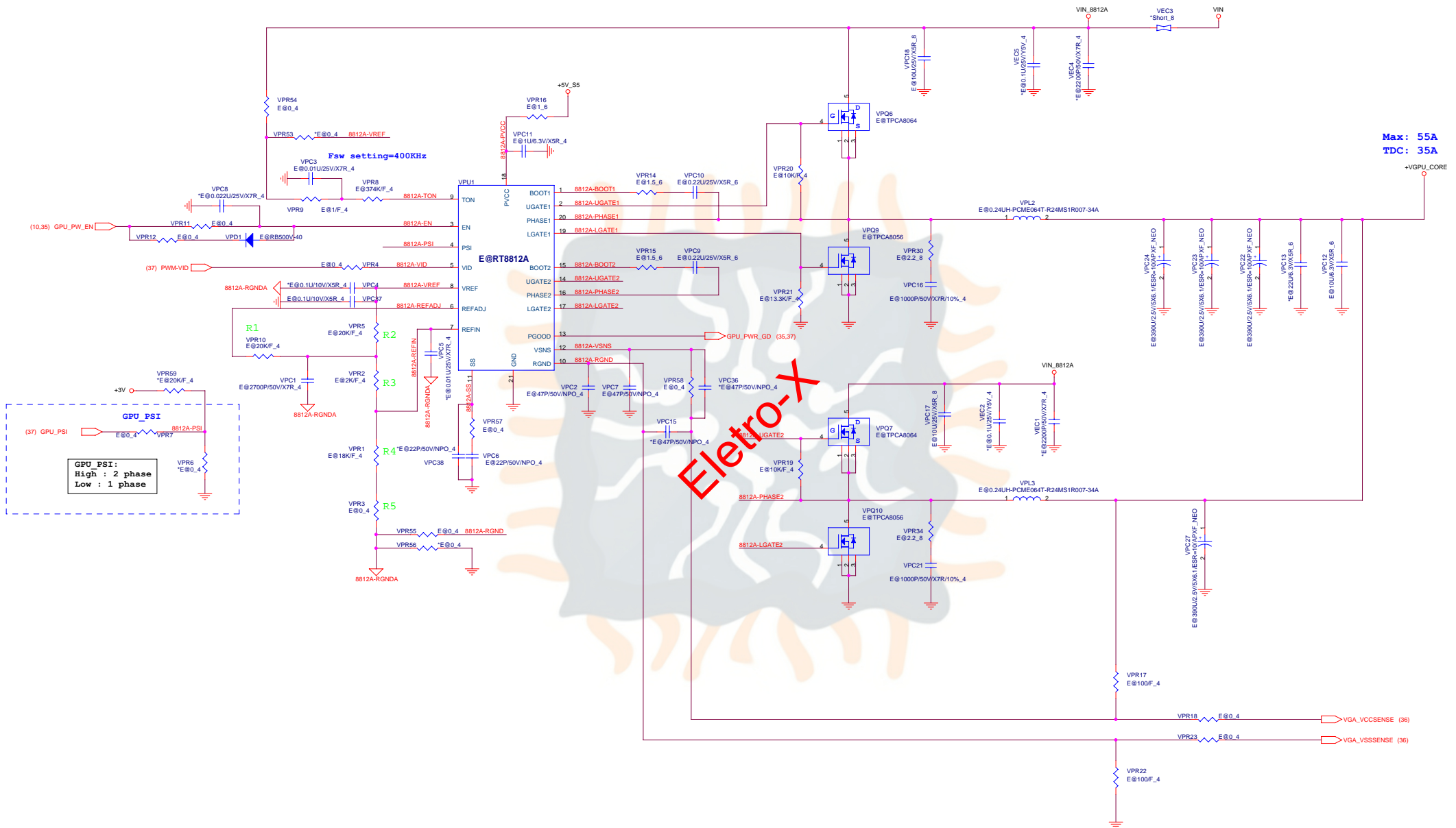
Size Document Number
VCC1.8

1. Level 1 Environment-related Substances Should Never be Used.
2. Recycled Resin and Coated Wire should be procured from Green Partners. Date: Thursday, January 17, 2013 Sheet





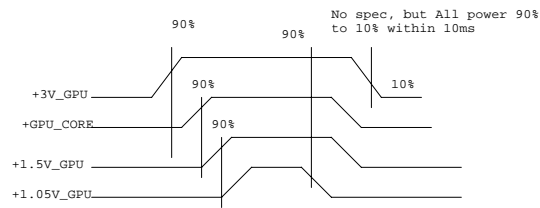
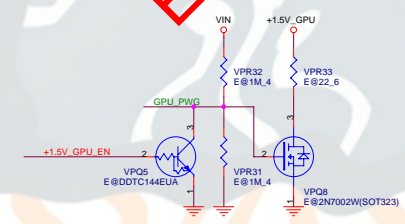
VGA-CORE

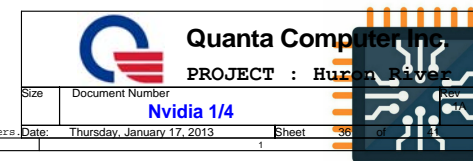


Quanta Computer Inc.
PROJECT : Chief River

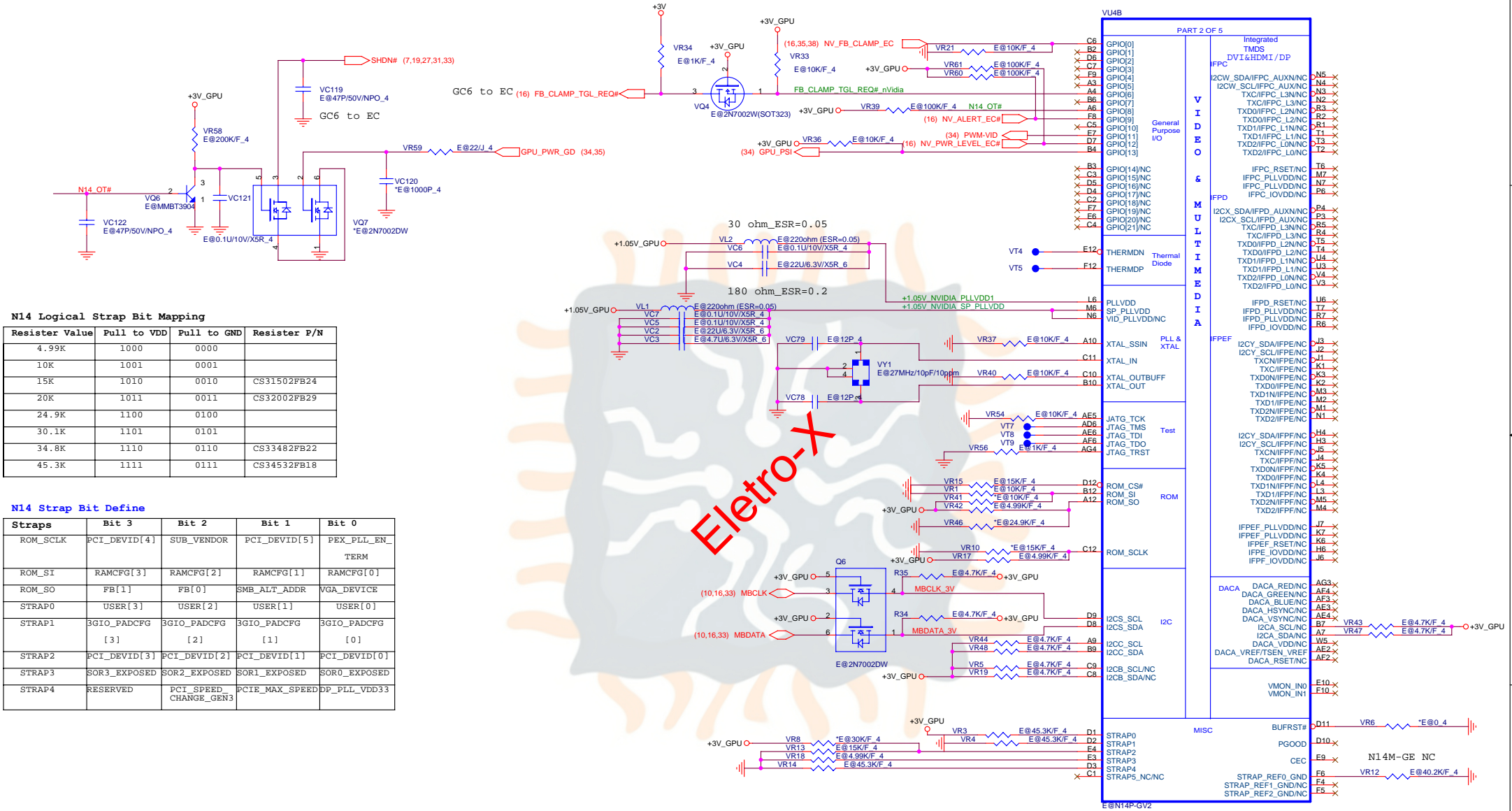
Size Document Number
VGA_CORE (RT8812A)

1. Level 1 Environment-related Substances Should Never be Used.
2. Recycled Resin and Coated Wire should be procured from Green Partners.
Date: Thursday, January 17, 2013 Sheet: 34





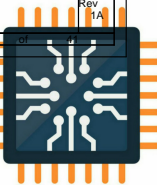
For GC6 GPU Monitor
Status(FB_CLAMP_MON)

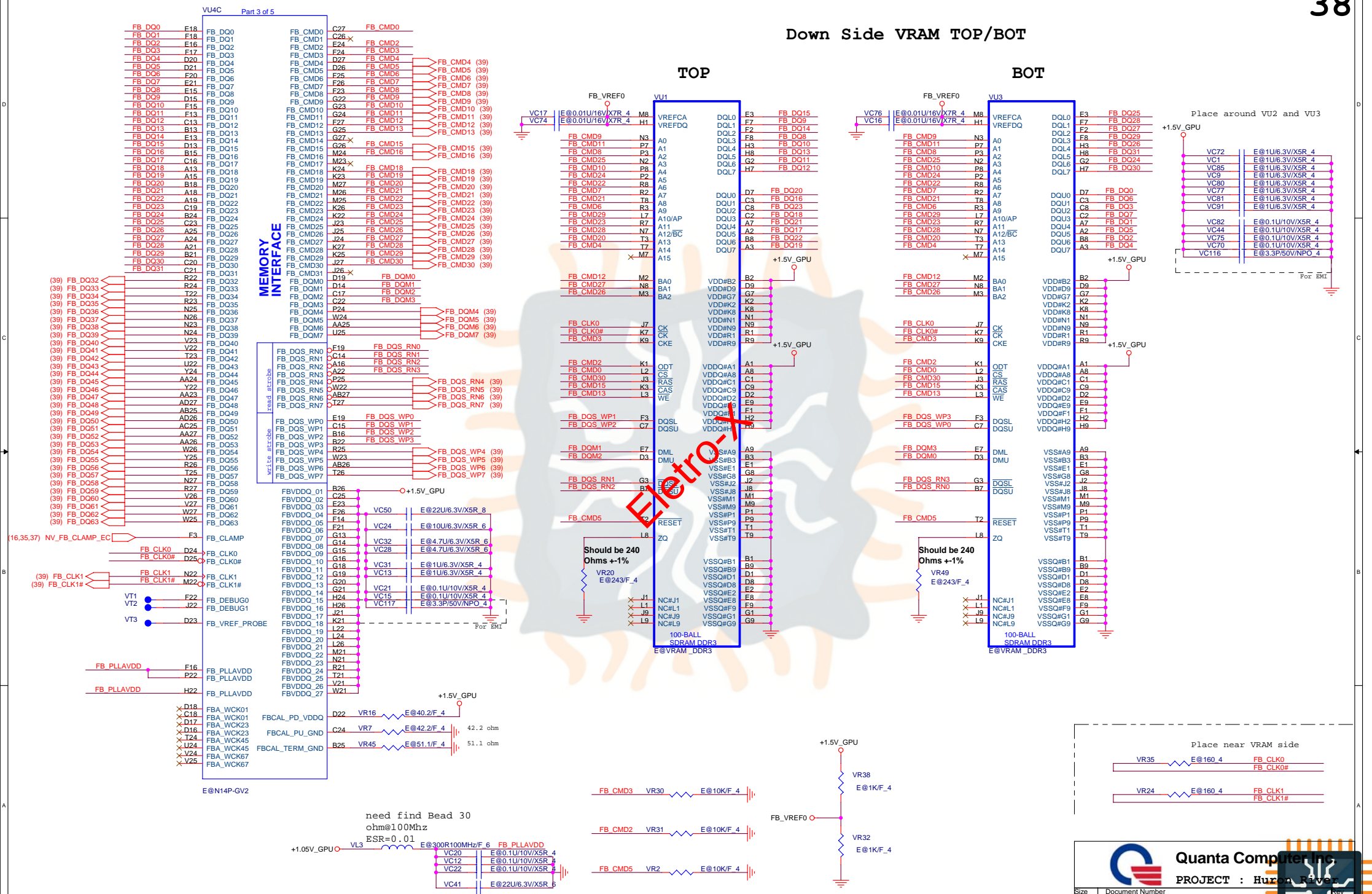


	VRAM Capacity	VRAM Vender	ID	VR1	Mfr P/N	Quanta P/N
N14M-LP	128Mx16 DDR3	Samsung	0111	PD45.3K	K4W2G1646E-BC11	AKD5MGGT525
		Hynix	0110	PD34.8K	H5TQ2G63DPR-11C	AKD5MGWTW15
N14P-GV2	256Mx16 DDR3	Samsung	0011	PD20K	K4W4G1646B-HC11	AKD5MGWT525
		Hynix	0010(TBD)	PD15K	H5TC4G63APR-11C	AKD5PGWTW10

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

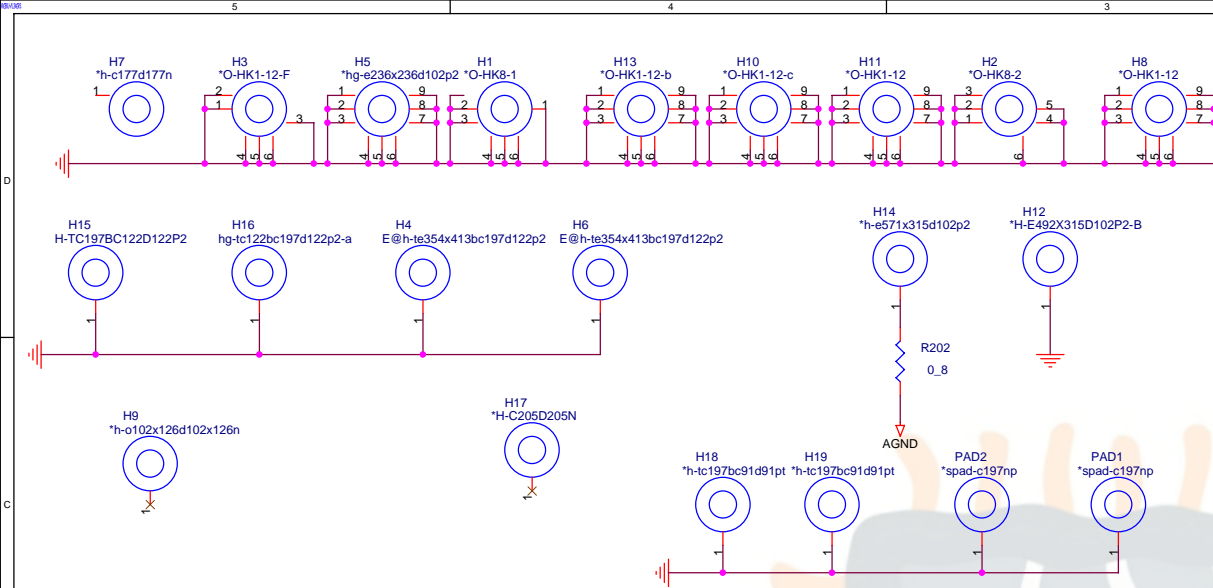
		Quanta Computer Inc. PROJECT : Huron River	
Size	Document Number	Nvidia 2/4	
Date:	Thursday, January 17, 2013	Sheet	37



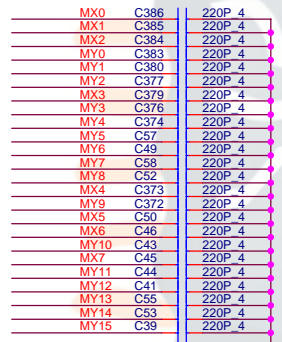
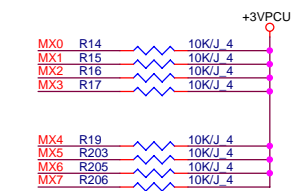
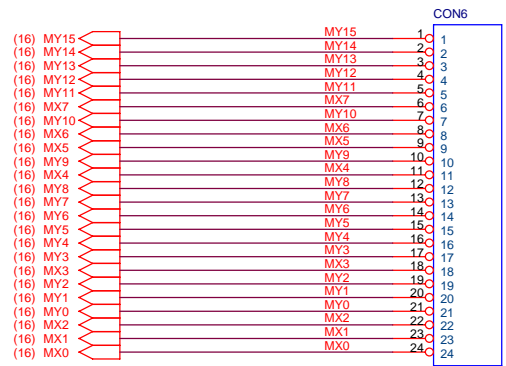


BOT

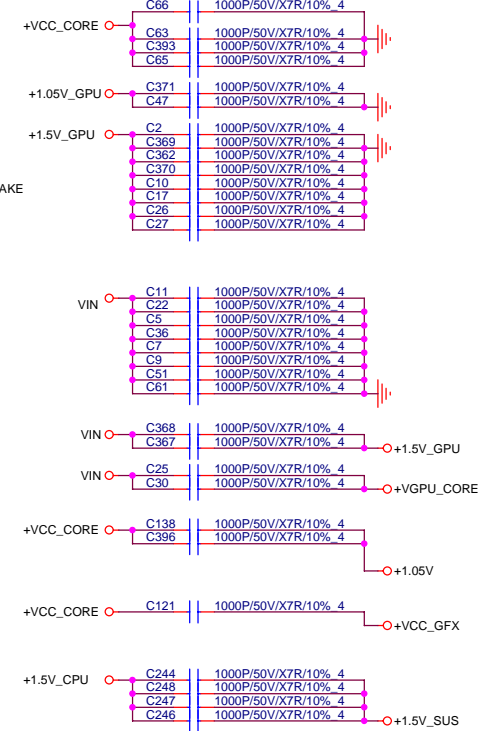
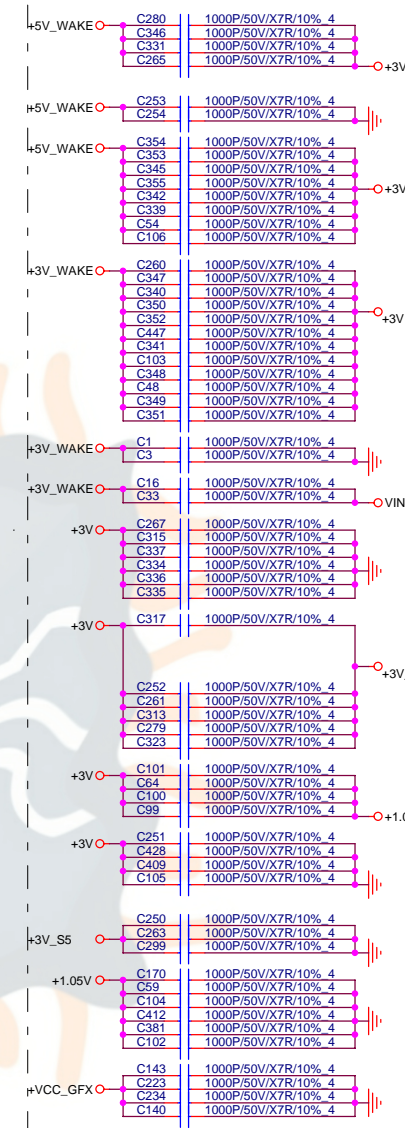





KEY BOARD Connector



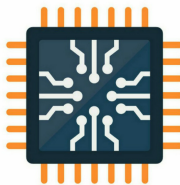
EleTRO-X



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 : HK5

Size	Document Number	Rev
	HOLE/EMI/KB	1A
Date:	Thursday, January 17, 2013	Sheet 40 of 41



USB PORT Architecture	
PORT 0	USB3.0
PORT 1	USN3.0
PORT 2	USN2.0
PORT 3	USB2.0
PORT 4	NFC
PORT 5	N/A
PORT 6	N/A
PORT 7	N/A
PORT 8	N/A
PORT 9	WiMax/BT
PORT 10	Camera
PORT 11	Card Reader
PORT 12	Touch Screen
PORT 13	N/A

PCIE BUS	
PORT 1	WLAN Port
PORT 2	CARD READER
PORT 3	GLAN (RTL8111G)
PORT 4	N/A
PORT 5	N/A
PORT 6	N/A
PORT 7	N/A
PORT 8	N/A

SATA BUS	
PORT 0	HDD
PORT 1	N/A
PORT 2	N/A
PORT 3	N/A
PORT 4	ODD
PORT 5	N/A

SM BUS	MBCLK/MBDATA	WRITE	READ	Function
ISL88731CHRTZ	0001 001X	0001 0010	0001 0011	Charger
Nvidia	1001 1110	-	1001 1110	Graphice
LIS331DL	0011 101X	0011 1010	0011 1011	G Sensor

SM BUS	MBCLK_BAT/MBDATA_BAT	WRITE	READ	Function
VGP-BPS35A	0001 011X	0001 0110	0001 0111	Battery

SM BUS	SMB_PCH_CLK/SMB_PCH_DAT	WRITE	READ	Function
DIMM Module0	1010 000X	1010 0000	1010 0001	DDRIII
DIMM Module 1	1010 010X	1010 0100	1010 0101	DDRIII
Synaptics	0010 110X	0010 1100	0010 1101	Click PAD

	0	1
Board ID0	CaspiCRA1-CaspiCRB1 HK8-HK9	SuperiorCRA1-SuperiorCRB1 GD5-GD6
Board ID1	HK8/GD5 14"	HK9/GD6 15"

PCBA SKU	Discrete	UMA
R280(Pull High)	Stuff	No Stuff
R279(Pull Low)	No Stuff	Stuff

	S0	S3	DS3	S4	S5 (Charger Enable)	S5 (Charger Disable)	S5 (Soft OFF) (WoL Disable)	S5 (Soft OFF) (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
+0.75V_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
+1.8V	H	L	L	L	L	L	L	L
+1.8V_GPU	H	L	L	L	L	L	L	L
+1.0V_GPU	H	L	L	L	L	L	L	L
+VGPU_CORE	H	L	L	L	L	L	L	L
+VCC_GFX	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
+1.5V_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	H	L	L	H
+3V_WAKE	H	H	H	H	H	L	L	H
+5V_WAKE	H	H	H	H	H	L	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

