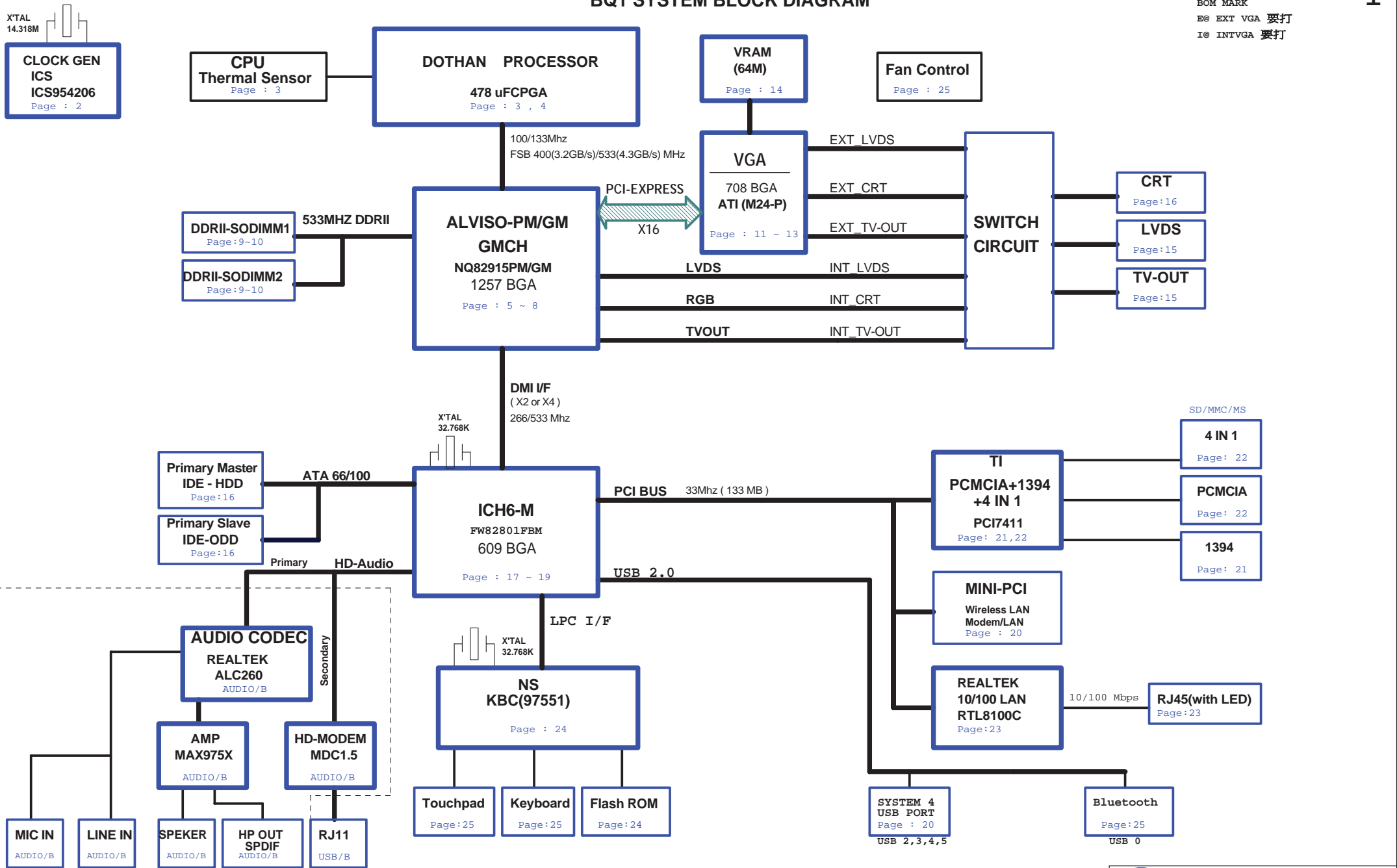


BQ1 SYSTEM BLOCK DIAGRAM

BOM MARK
 E@ EXT VGA 要打
 I@ INTVGA 要打

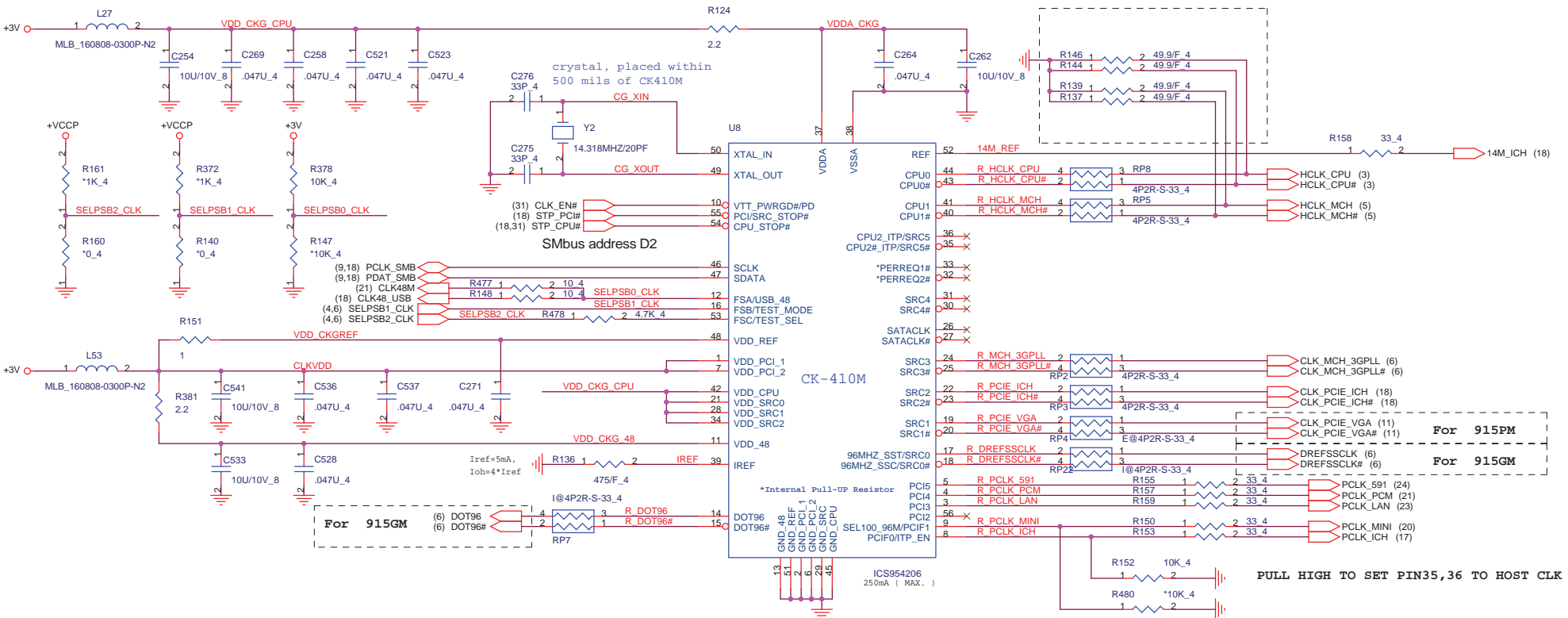


PCI ROUTING TABLE	IDSEL	INTERUPT	DEVICE
REQ0# / GNT0#	AD24	INTA#	REALTEK LAN
REQ2# / GNT2#	AD19	INTB# , INTD#	MINI-PCI
REQ1# / GNT1#	AD17	INTC#, INTD#, INTA#	TI 7411

PROJECT : BQ1
Quanta Computer Inc.

Size	Document Number	Rev
	BLOCK DIAGRAM	1A
Date:	Thursday, August 18, 2005	Sheet 1 of 32

Place these termination to close CK410M.



DOTHAN-A 400
DOTHAN-A 533

	FSC	FSB	FSA	CPU	SRC	PCI
DOTHAN-A 400	1	0	1	100	100	33
DOTHAN-A 533	0	0	1	133	100	33
	0	1	1	166	100	33
	0	1	0	200	100	33
	0	0	0	266	100	33
	1	0	0	333	100	33
	1	1	0	400	100	33
	1	1	1	RSVD	100	33

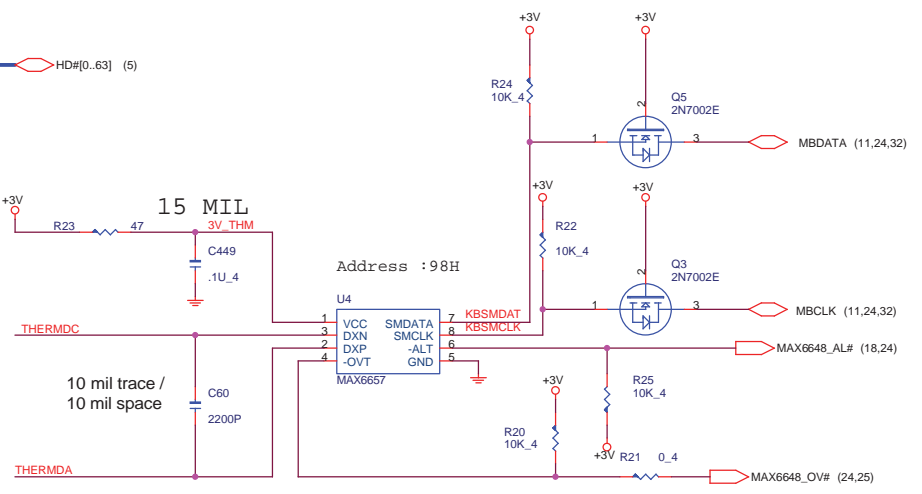
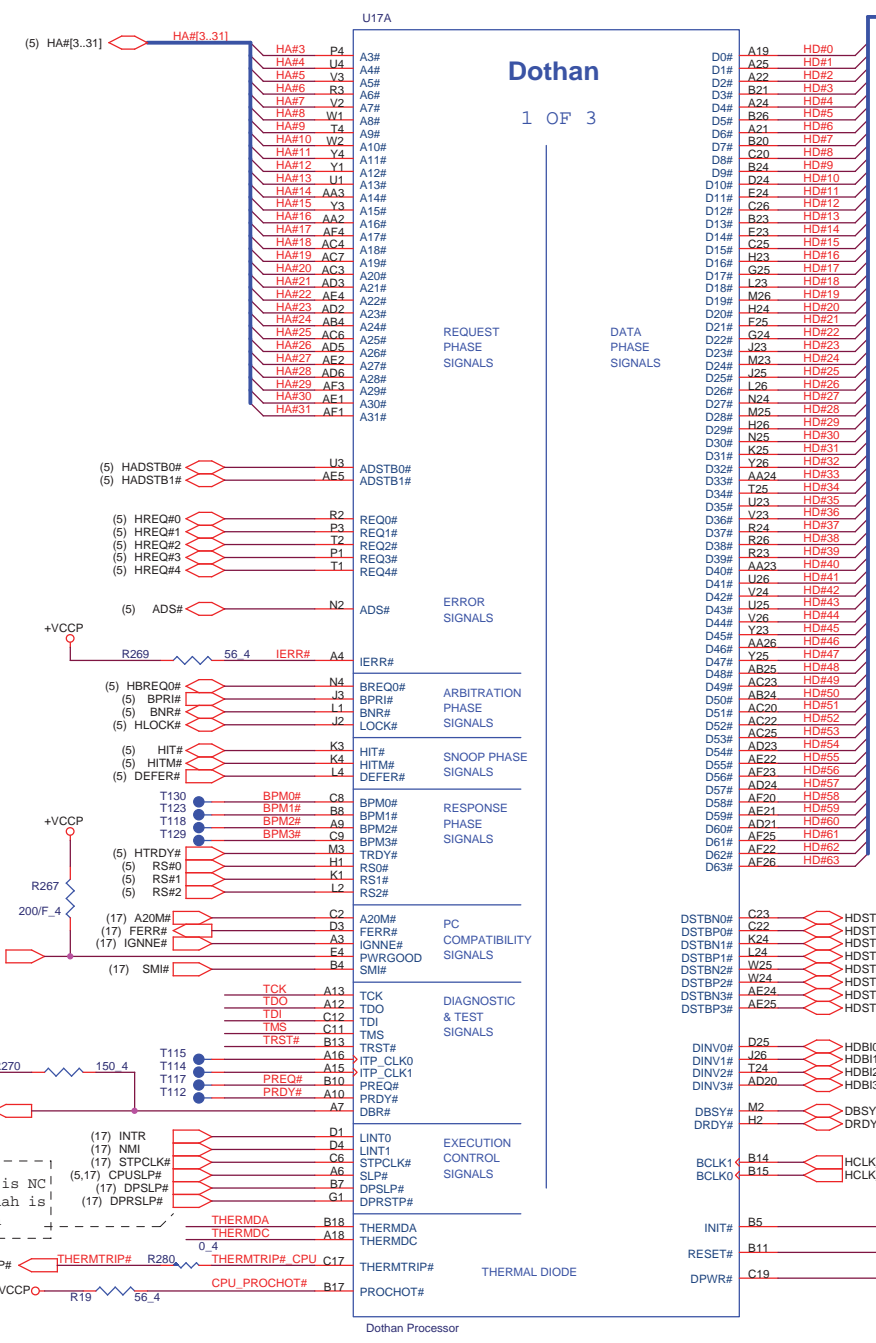
Place these termination to close CK410M.

QUANTA COMPUTER

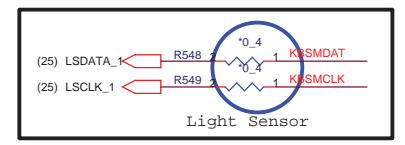
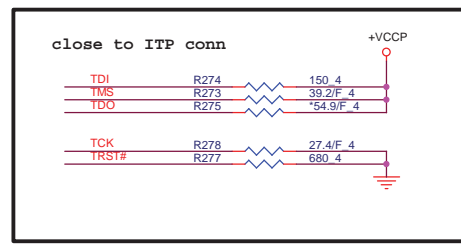
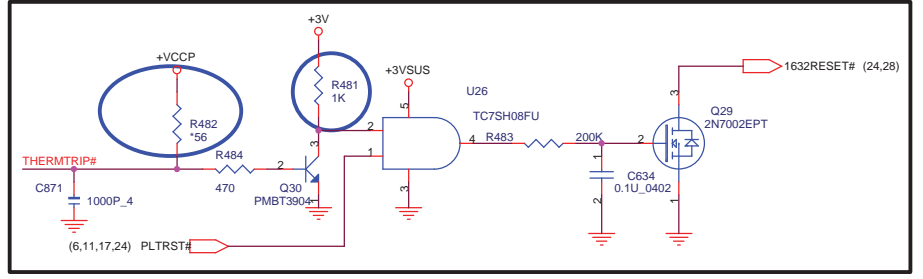
Title: CLOCK GENERATOR

Size: Document Number BQ1 Rev 1A

Date: Thursday, August 18, 2005 Sheet 2 of 32



Signal	Resistor Value	Connect To	Resistor Placement
TDI	150 ohm +/- 5%	VTT	Within 2.0" of the CPU
TMS	39 ohm +/- 5%	VTT	Within 2.0" of the CPU
TRST#	680 ohm +/- 5%	GND	Within 2.0" of the CPU
TCK	27 ohm +/- 5%	GND	Within 2.0" of the CPU
TDO	Open	VTT	Within 2.0" of the CPU



G1: Dothan is NC pin and Yonah is DPRSTP# pin

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Title: Dothan Processor (HOST)

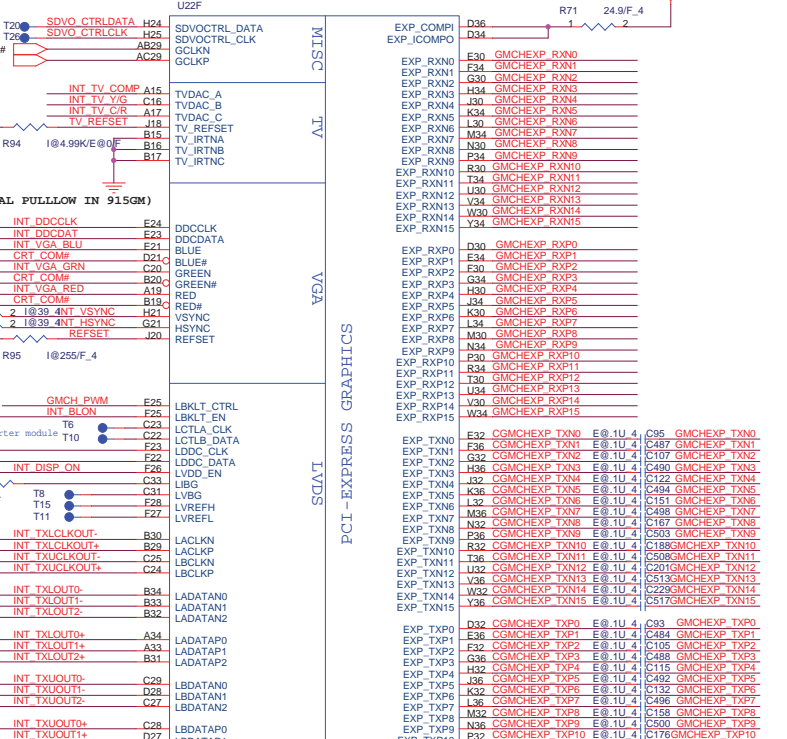
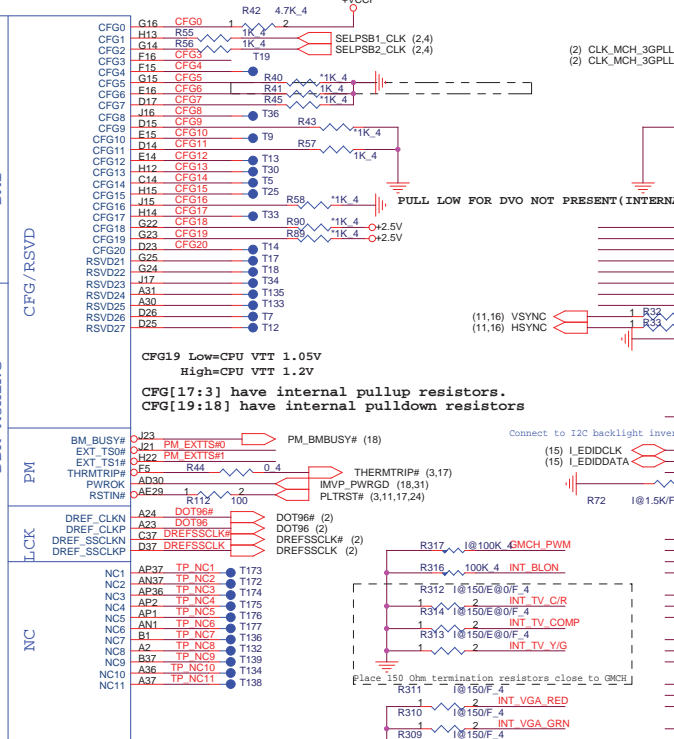
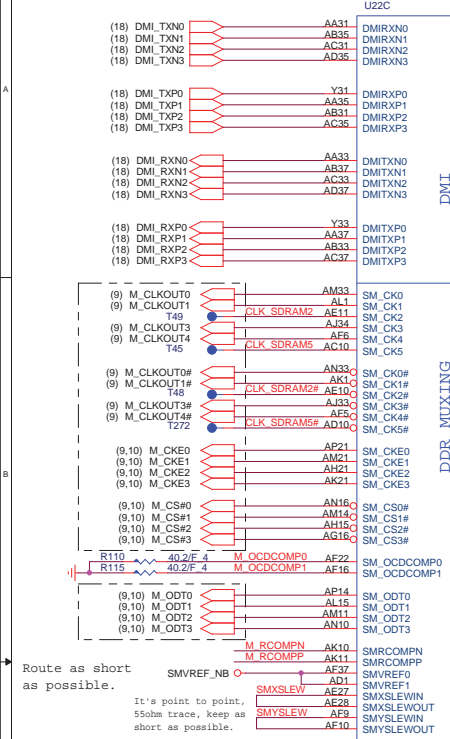
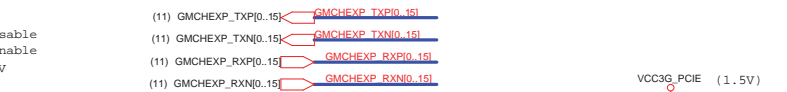
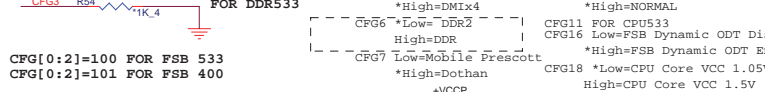
Size: Document Number BQ1

Date: Thursday, August 18, 2005

Sheet: 3 of 32

Rev: 1A

I@ is only for Internal VGA;
E@ is only for External VGA;

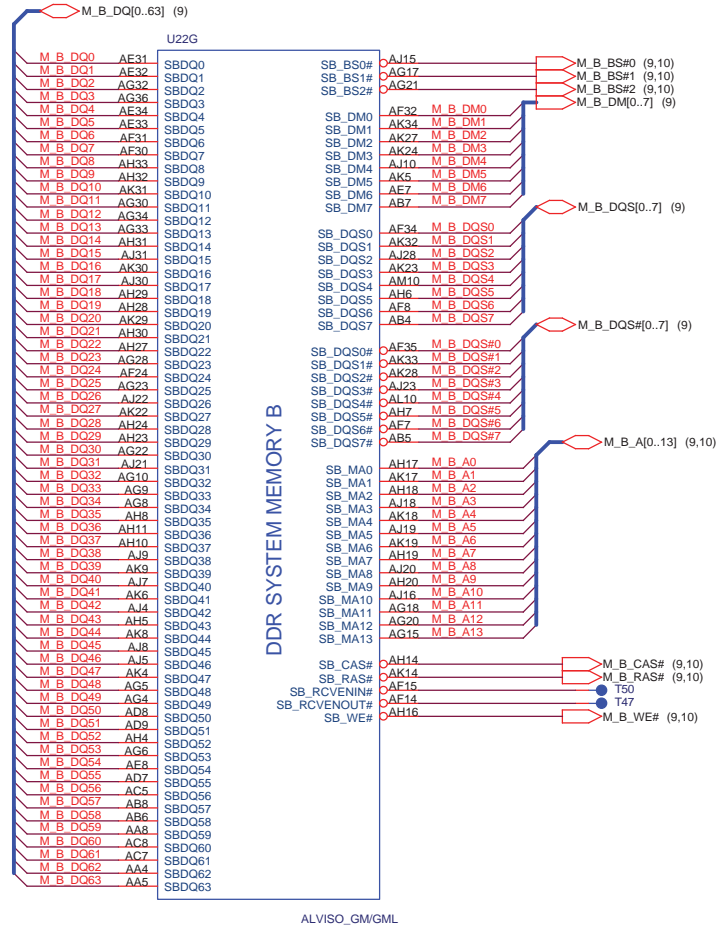
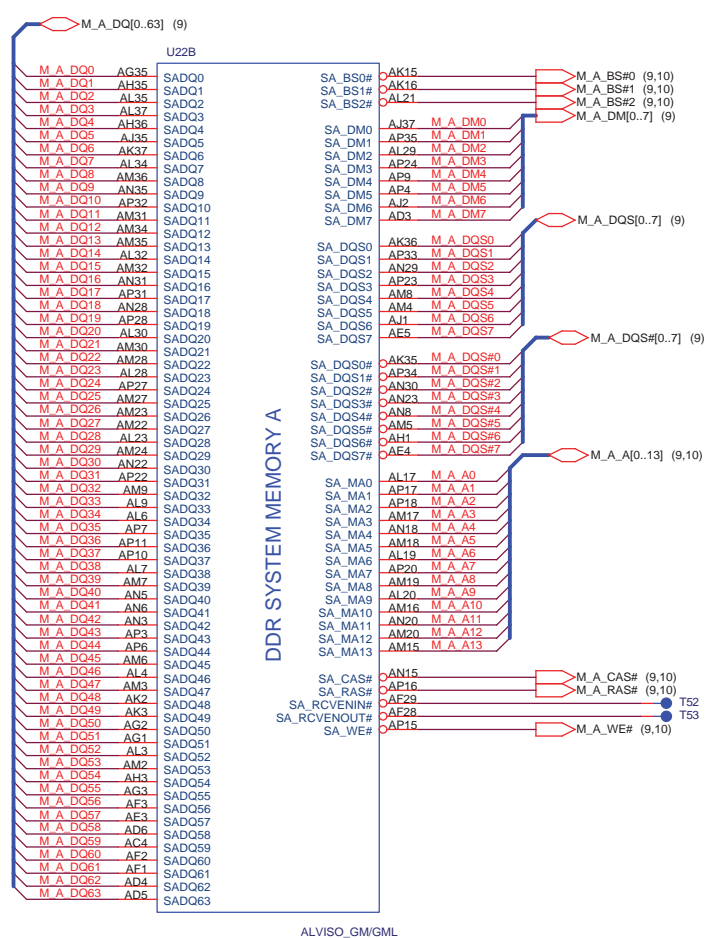


Signal		915GM	915PM
TV_RSET	R94	4.99K/F	0_0603
TV_COMP	R26	0_0402	NI
TV_Y/G	R27	0_0402	NI
TV_C/R	R28	0_0402	NI
	R32	150/F	0_0402
	R33	150/F	0_0402
	R34	150/F	0_0402
VSYNC	R32	39	NI
HSYNC	R33	39	NI
	R579	NI	0_0402
_BKLT_CTRL	R317	100K	NI
_LBKLT_EN	R315	0_0402	NI
LVDL_EN	R83	0_0402	NI
LVBG	R12	1.5K	NI
INT_VGA_RED	R289	0_0402	NI
	R311	150/F	0_0402
	R310	NI	0_0402
INT_VGA_GRN	R290	0_0402	NI
	R310	150/F	NI
	R581	NI	0_0402
INT_VGA_BLU	R291	0_0402	NI
	R309	150/F	NI
	R582	NI	0_0402
	R584	0_0402	NI
	R583	NI	0_0402
REFSET	R95	255/F 0402	NI
	R585	NI	0_0402
DDCLK/DAT	RN109	NI	NI
	RN5	0_0402	NI
	RN9	0_0402	NI
	RN10	0_0402	NI
	RN4	0_0402	NI
	RN6	0_0402	NI
	RN7	0_0402	NI
	RN8	0_0402	NI
	R574	NI	0_0402
	R575	NI	0_0402
	R576	NI	0_0402
	R577	NI	0_0402



QUANTA COMPUTER

File: Alviso (VGA,DMI)
Schematic Document Number: B01
Date: August 18, 2005
Sheet: 6 of 32
Rev: 1A



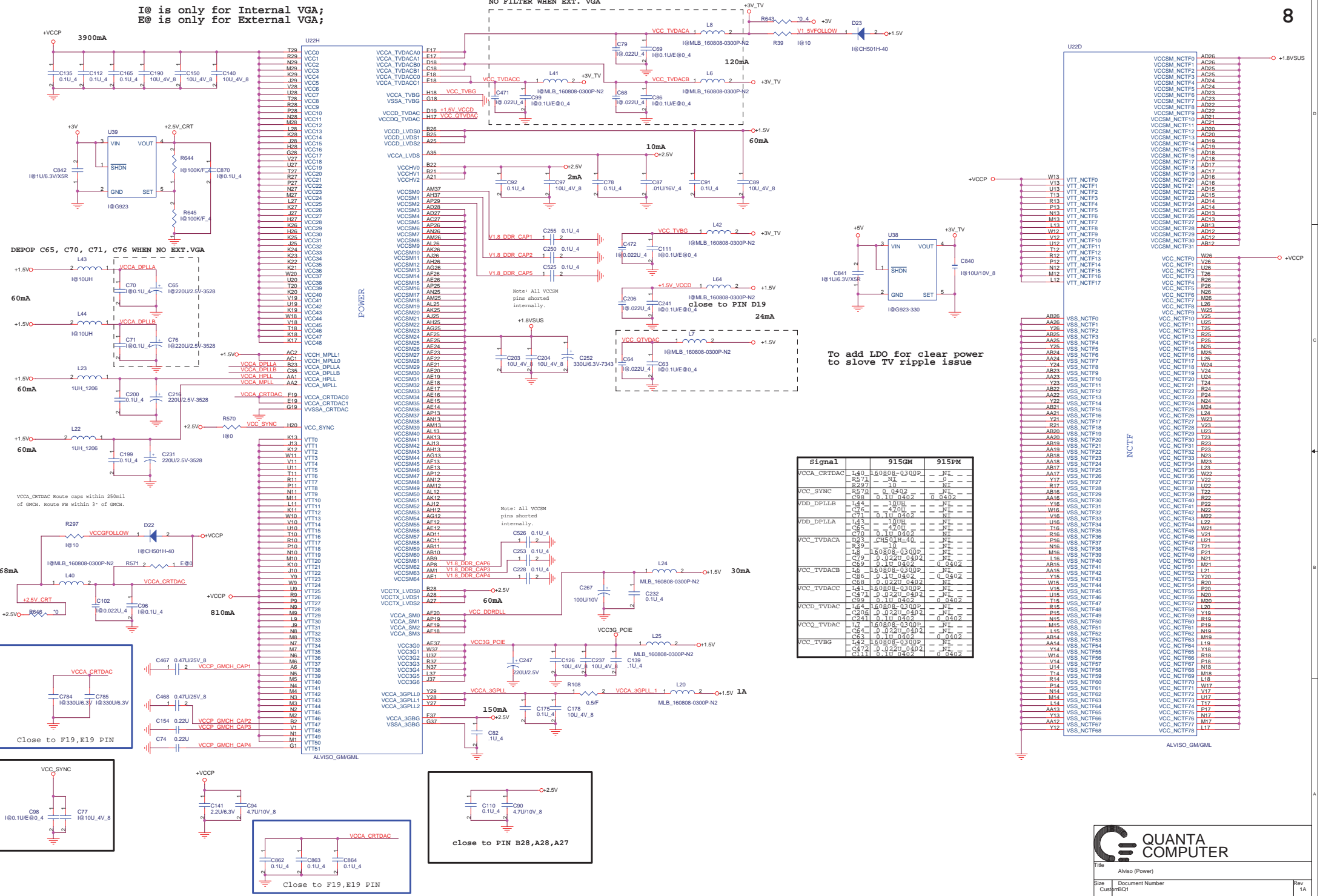
QUANTA COMPUTER

Title: Alviso (DDRII)

Size	Document Number	Rev
	BQ1	1A

Date: Thursday, August 18, 2005 Sheet 7 of 32

@ is only for Internal VGA;
E@ is only for External VGA;



Signal	915GM	915PM
VCCA_CRTDAC	L40 1.60808-0.300P	NI
VCC_SYNC	R571 0	NI
VDD_DPLL	R297 0	NI
VDD_DPLLB	R570 0.0402	NI
VDD_DPLLA	C98 0.10 0.402	NI
VDD_DPLLB	L44 1.00L	NI
VDD_DPLLA	C65 2.20U/2.5V-3528	NI
VCC_TVDACA	C70 0.10 0.402	NI
VCC_TVDACB	C79 0.22U/0.4	NI
VCC_TVDACC	C68 0.22U/0.4	NI
VCC_TVDACB	C86 0.10 0.402	NI
VCC_TVDACC	C87 0.10 0.402	NI
VCC_TVDACB	C88 0.10 0.402	NI
VCC_TVDACC	C89 0.10 0.402	NI
VCC_TVDACB	C90 0.10 0.402	NI
VCC_TVDACC	C91 0.10 0.402	NI
VCC_TVDACB	C92 0.10 0.402	NI
VCC_TVDACC	C93 0.10 0.402	NI
VCC_TVDACB	C94 0.10 0.402	NI
VCC_TVDACC	C95 0.10 0.402	NI
VCC_TVDACB	C96 0.10 0.402	NI
VCC_TVDACC	C97 0.10 0.402	NI
VCC_TVDACB	C98 0.10 0.402	NI
VCC_TVDACC	C99 0.10 0.402	NI
VCC_TVDACB	C100 0.10 0.402	NI

Note: All VCCSM pins shorted internally.

To add LDO for clear power to solve TV ripple issue

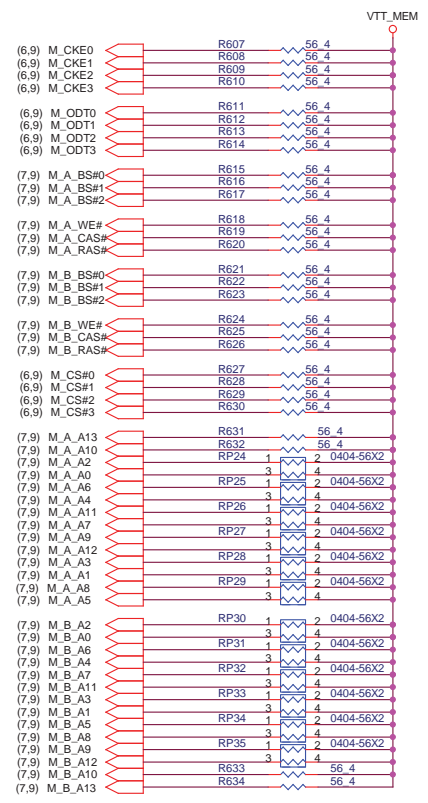
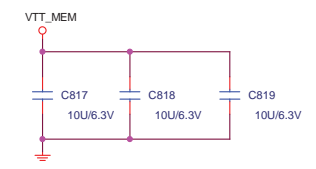
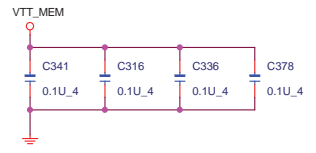
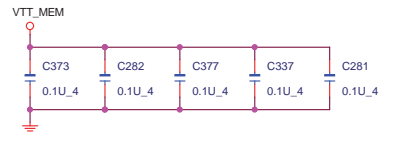
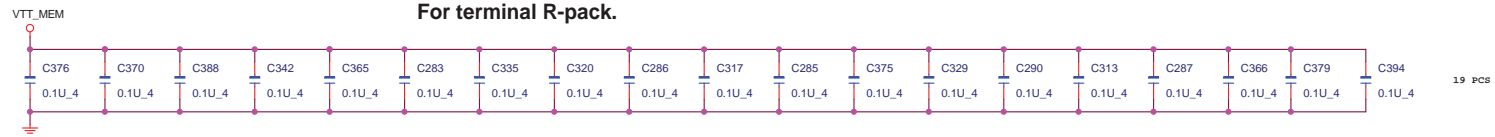
close to PIN B28,A28,A27

close to F19,E19 PIN



Title	Alviso (Power)		
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Date	Thursday, August 18, 2006	Sheet	8 of 32

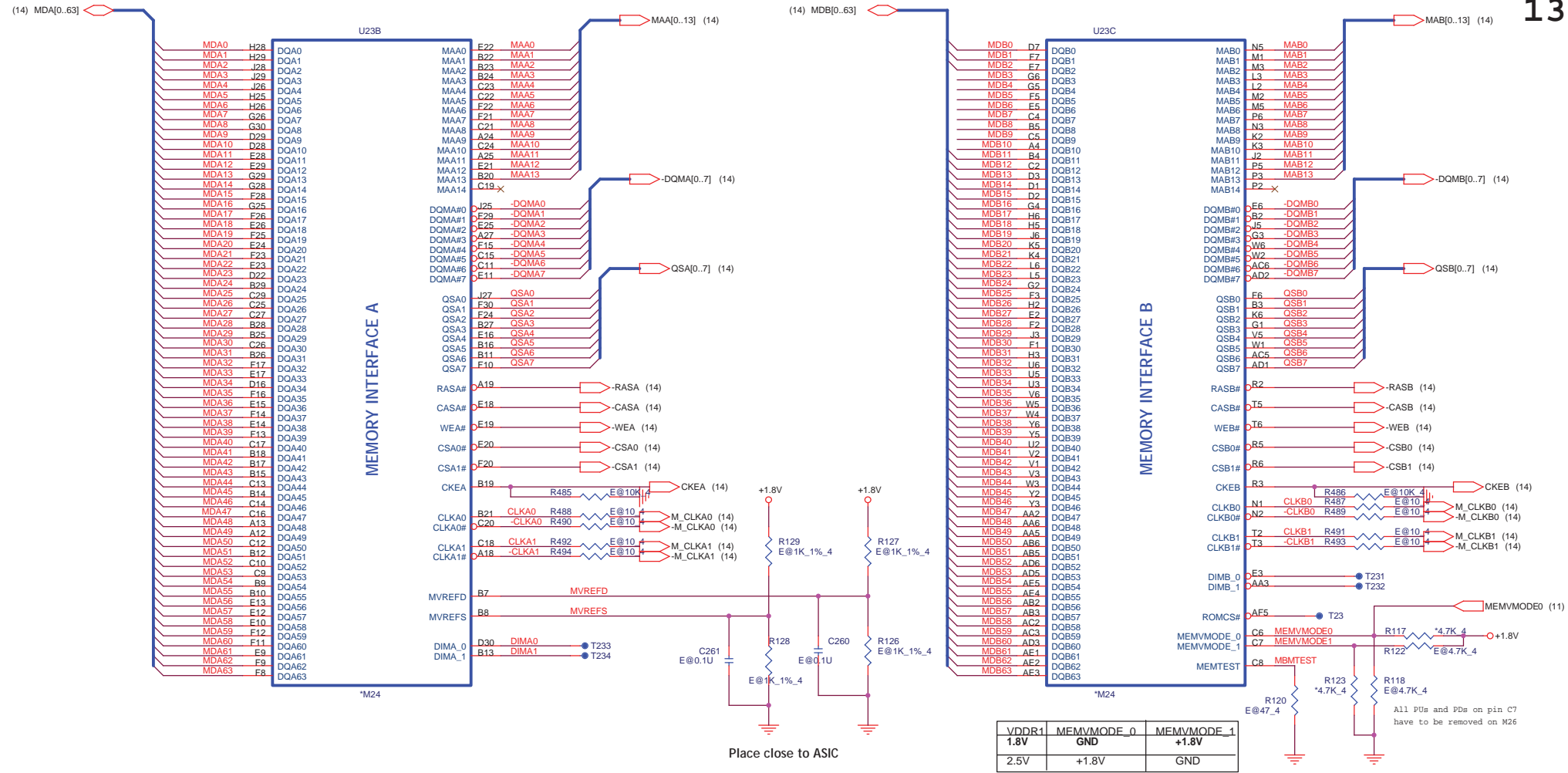
For terminal R-pack.



QUANTA COMPUTER

Title: DDRII TERMINATION

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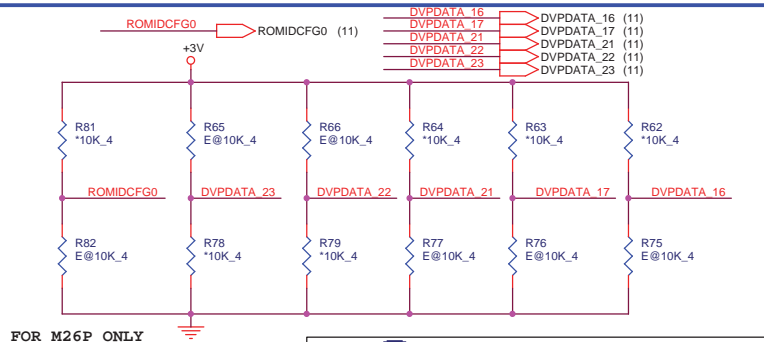
Place close to ASIC

All PUs and PDs on pin C7 have to be removed on M26

STRAPS PIN

GPIO_0	PCI-Express Current Calibration Bandgap Backup 0: use reference voltage from Bandgap 1: use reference voltage from resistor divider
GPIO_1	PCI-Express PLL Calibration force enable 0: Disable PLL force calibration 1: Enable PLL force calibration
GPIO_(3,2)	00: PCI Express 1.0 mode 01: RESERVED 10: PCI Express 1.0 mode 11: RESERVED
GPIO_4	Turn off PCI-Express impedance / strength calibration 0: enable 1: disable
GPIO_5	Bypass PCI-Express PLL

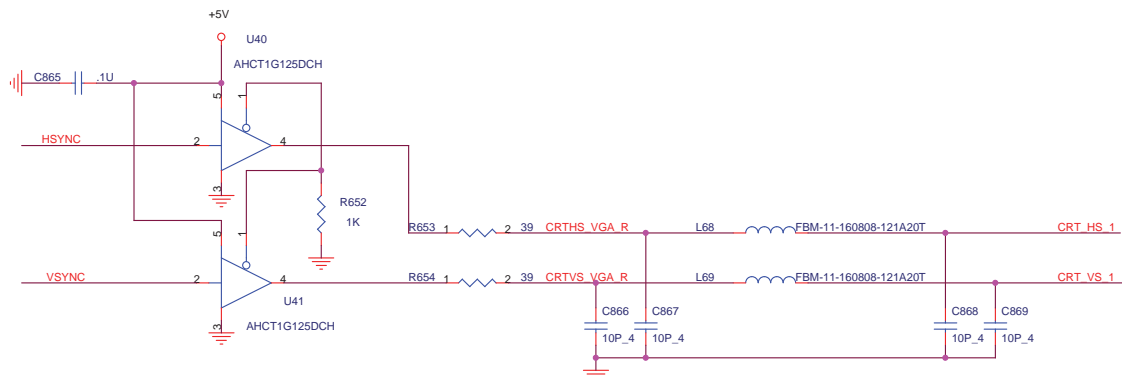
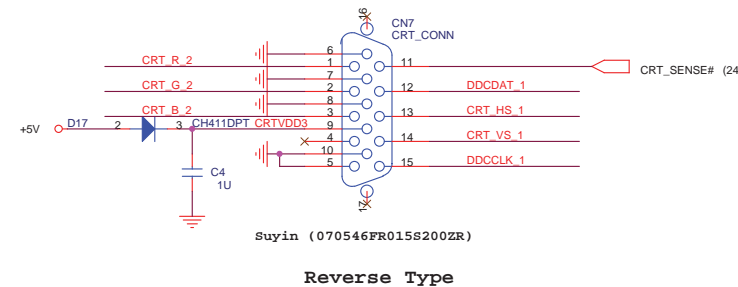
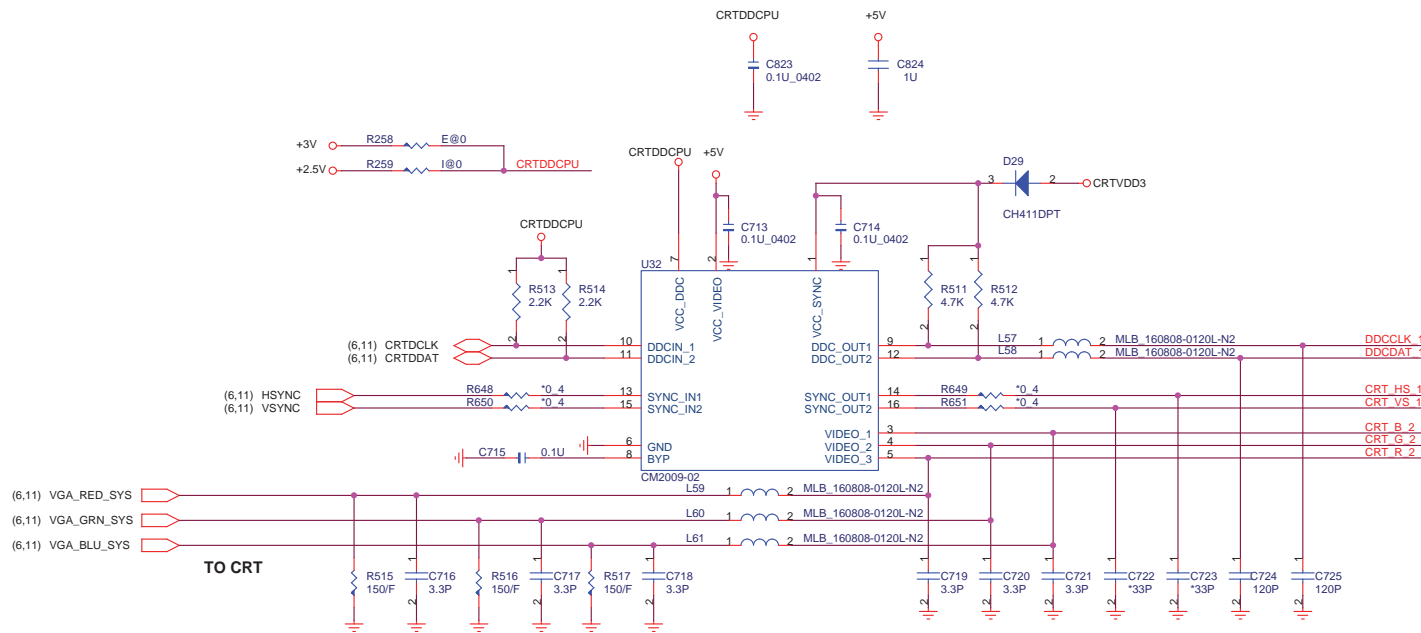
GPIO_6	PCI-Express transmitter current compensation 0: Normal 1: Inject extra current for output buffer switching
GPIO_8	Strap to set the debug muxes to bring out DEBUG signals even if registers are inaccessible
ROMIDCFG	ROMIDCFG
GPIO(9,13:11)	0x0x: No ROM, CHG_ID=0 0x1x: No Rom, CHG_ID=1 1000: Parallel ROM, Chip ID'S from ROM 1000: Parallel ROM, Chip ID'S from ROM
INT P/D	
DVPDATA_21-23	DVPDATA_21: 0=4Mx32 1=8Mx32 DVPDATA_22: 0=128M 1=64M DVPDATA_23: 0=Hynix 1=Samsung
MEM TYPE	



FOR M26P ONLY
0: 128M
1: 256M

PROJECT :BQ1
Quanta Computer Inc.

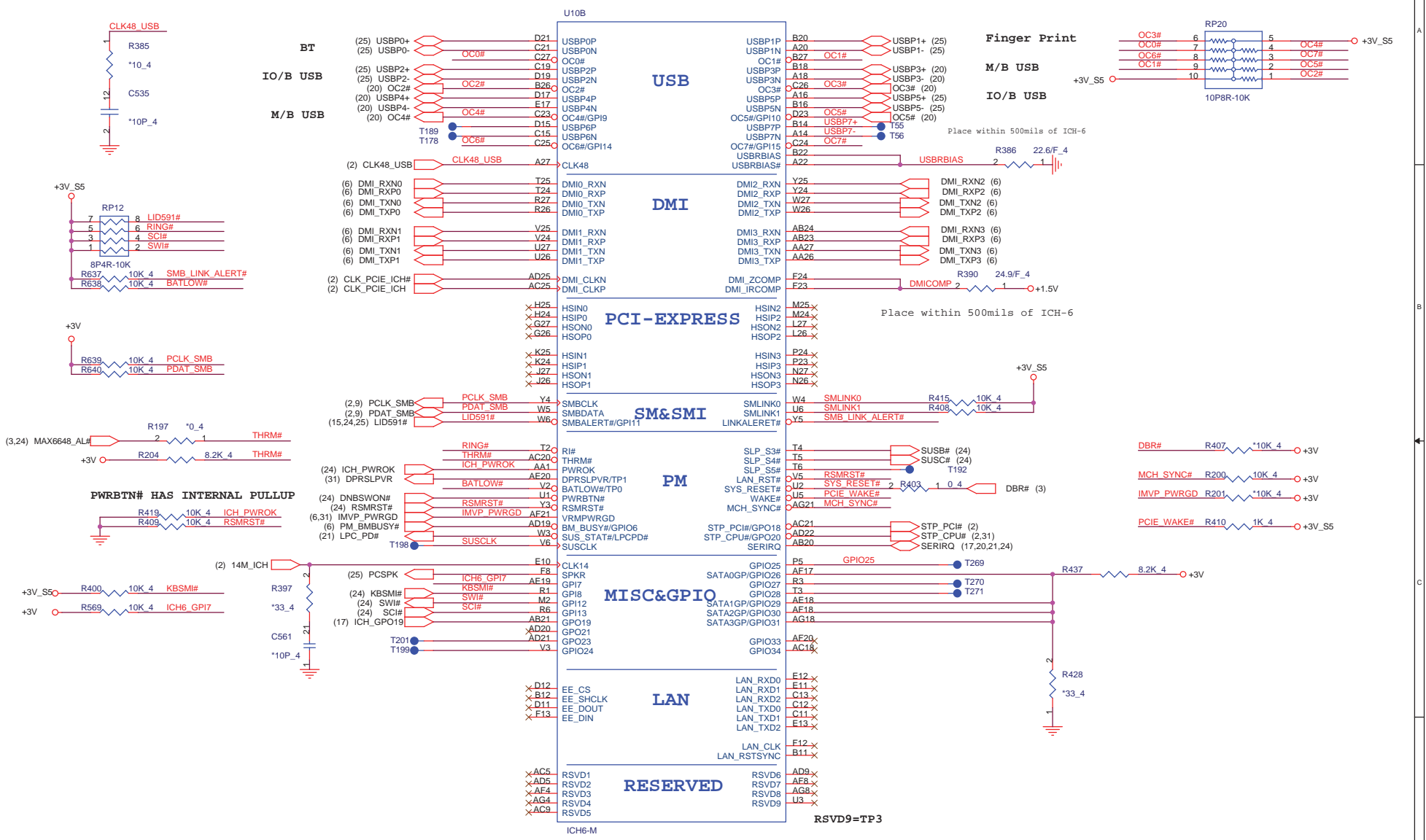
Size Custom | Document Number
ATI M24-P MEM/STRAPS
Date: Thursday, August 18, 2005 | Sheet 13 of 32 | Rev 1A



33BQ1AB0002
43BQ1SS0007

PROJECT : BQ1
Quanta Computer Inc.

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	CRT	1A
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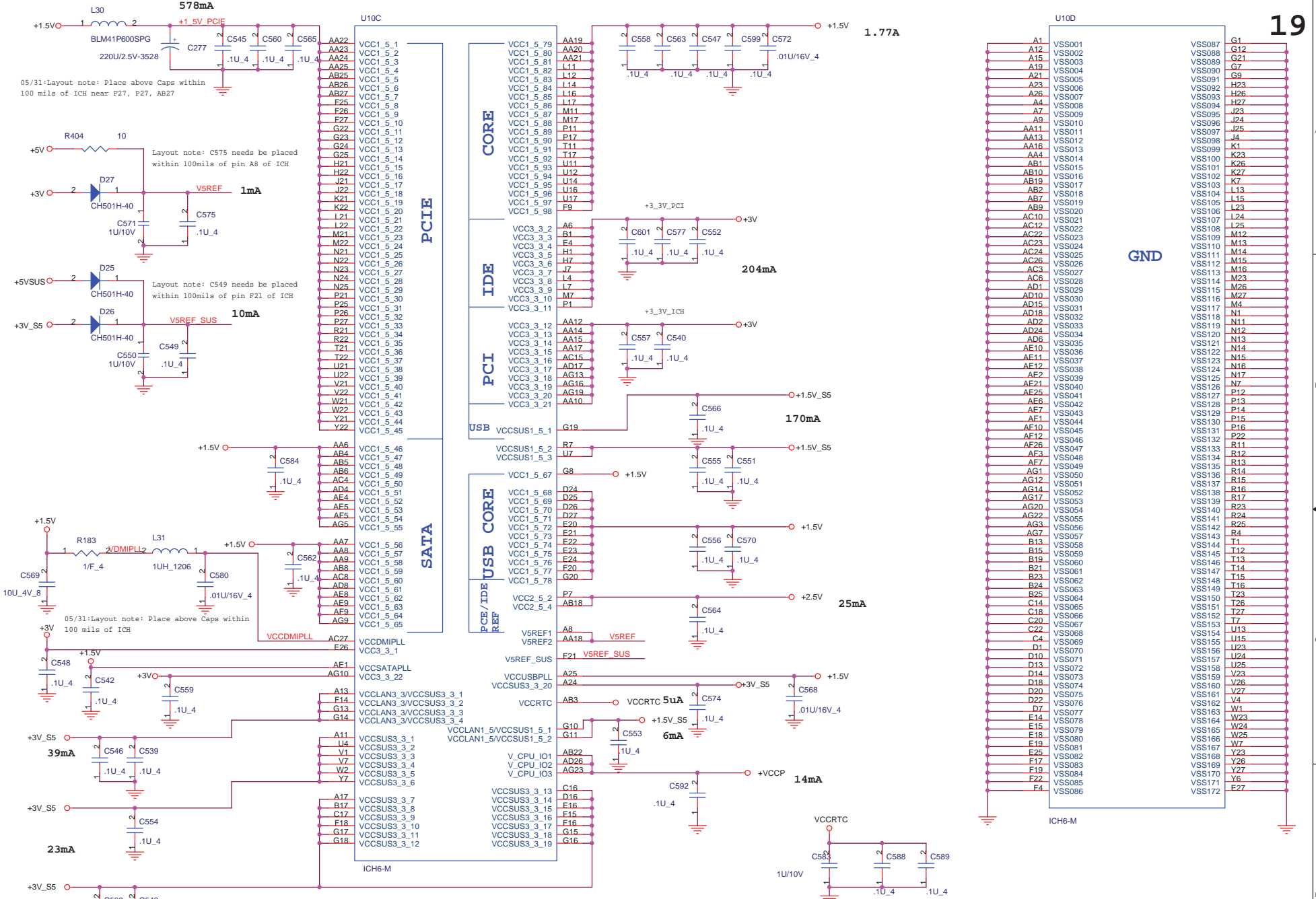


QUANTA COMPUTER

Title: ICH6-M (USB,DMI,LPC)

Size: Document Number BQ1 Rev 1A

Date: Thursday, August 18, 2005 Sheet 18 of 32



A1	VSS001	G1
A12	VSS008	G12
A15	VSS003	G21
A19	VSS004	G7
A21	VSS005	G9
A23	VSS006	H23
A26	VSS007	H26
A4	VSS008	H23
A7	VSS009	J23
A9	VSS010	J24
AA11	VSS011	J25
AA13	VSS012	J4
AA16	VSS013	K1
AA4	VSS014	K23
AB1	VSS015	K26
AB10	VSS016	K27
AB19	VSS017	K7
AB2	VSS018	L13
AB7	VSS019	L15
AB9	VSS020	L23
AC10	VSS021	L24
AC12	VSS022	L25
AC22	VSS023	M12
AC23	VSS024	M13
AC24	VSS025	M14
AC26	VSS026	M15
AC3	VSS027	M16
AC6	VSS028	M2
AD1	VSS029	M26
AD10	VSS030	M27
AD15	VSS031	M4
AD18	VSS032	M7
AD2	VSS033	M11
AD24	VSS034	M12
AD6	VSS035	M13
AE10	VSS036	M14
AE11	VSS037	M15
AE12	VSS038	M16
AE21	VSS039	M2
AE25	VSS040	M23
AE6	VSS042	M27
AE7	VSS043	M4
AE1	VSS044	M7
AE10	VSS045	M11
AE12	VSS046	M12
AF26	VSS047	M13
AF3	VSS048	M14
AF7	VSS049	M15
AG1	VSS050	M16
AG12	VSS051	M2
AG14	VSS052	M23
AG17	VSS053	M27
AG20	VSS054	M4
AG22	VSS055	M7
AG7	VSS056	M11
B1	VSS057	M12
B13	VSS058	M13
B15	VSS059	M14
B19	VSS060	M15
B21	VSS061	M16
B23	VSS062	M2
B24	VSS063	M23
B25	VSS064	M27
C14	VSS065	M4
C18	VSS066	M7
C20	VSS067	M11
C22	VSS068	M12
C4	VSS069	M13
D1	VSS070	M14
D10	VSS071	M15
D13	VSS072	M16
D14	VSS073	M2
D18	VSS074	M23
D20	VSS075	M27
D22	VSS076	M4
D7	VSS077	M7
E14	VSS078	M11
E15	VSS079	M12
E18	VSS080	M13
E19	VSS081	M14
E25	VSS082	M15
F17	VSS083	M16
F19	VSS084	M2
F22	VSS085	M23
F4	VSS086	M27
A1	VSS087	G1
A12	VSS088	G12
A15	VSS089	G21
A19	VSS090	G7
A21	VSS091	G9
A23	VSS092	H23
A26	VSS093	H26
A4	VSS094	H23
A7	VSS095	J23
A9	VSS096	J24
AA11	VSS097	J25
AA13	VSS098	J4
AA16	VSS099	K1
AA4	VSS100	K23
AB1	VSS101	K26
AB10	VSS102	K27
AB19	VSS103	K7
AB2	VSS104	L13
AB7	VSS105	L15
AB9	VSS106	L23
AC10	VSS107	L24
AC12	VSS108	L25
AC22	VSS109	M12
AC23	VSS110	M13
AC24	VSS111	M14
AC26	VSS112	M15
AC3	VSS113	M16
AC6	VSS114	M2
AD1	VSS115	M26
AD10	VSS116	M27
AD15	VSS117	M4
AD18	VSS118	M7
AD2	VSS119	M11
AD24	VSS120	M12
AD6	VSS121	M13
AE10	VSS122	M14
AE11	VSS123	M15
AE12	VSS124	M16
AE21	VSS125	M2
AE25	VSS126	M23
AE6	VSS127	M27
AE7	VSS128	M4
AE1	VSS129	M7
AE10	VSS130	M11
AE12	VSS131	M12
AF26	VSS132	M13
AF3	VSS133	M14
AF7	VSS134	M15
AG1	VSS135	M16
AG12	VSS136	M2
AG14	VSS137	M23
AG17	VSS138	M27
AG20	VSS139	M4
AG22	VSS140	M7
AG7	VSS141	M11
B1	VSS142	M12
B13	VSS143	M13
B15	VSS144	M14
B19	VSS145	M15
B21	VSS146	M16
B23	VSS147	M2
B24	VSS148	M23
B25	VSS149	M27
C14	VSS150	M4
C18	VSS151	M7
C20	VSS152	M11
C22	VSS153	M12
C4	VSS154	M13
D1	VSS155	M14
D10	VSS156	M15
D13	VSS157	M16
D14	VSS158	M2
D18	VSS159	M23
D20	VSS160	M27
D22	VSS161	M4
D7	VSS162	M7
E14	VSS163	M11
E15	VSS164	M12
E18	VSS165	M13
E19	VSS166	M14
E25	VSS167	M15
F17	VSS168	M16
F19	VSS169	M2
F22	VSS170	M23
F4	VSS171	M27
F4	VSS086	E27

QUANTA COMPUTER

Title: ICH6-M (POWER&GND)

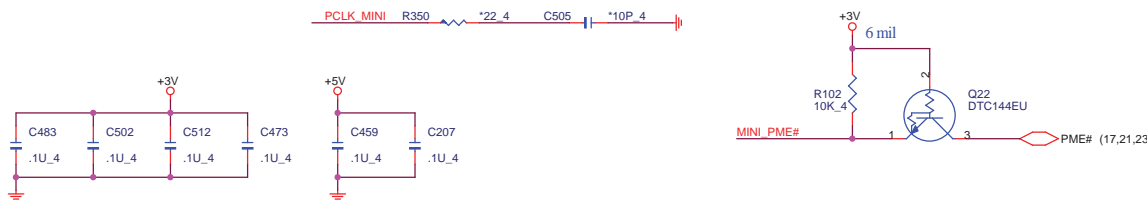
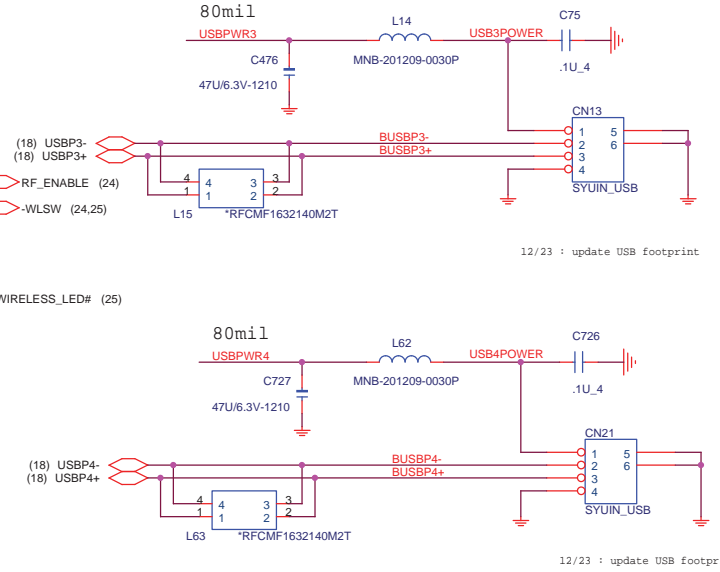
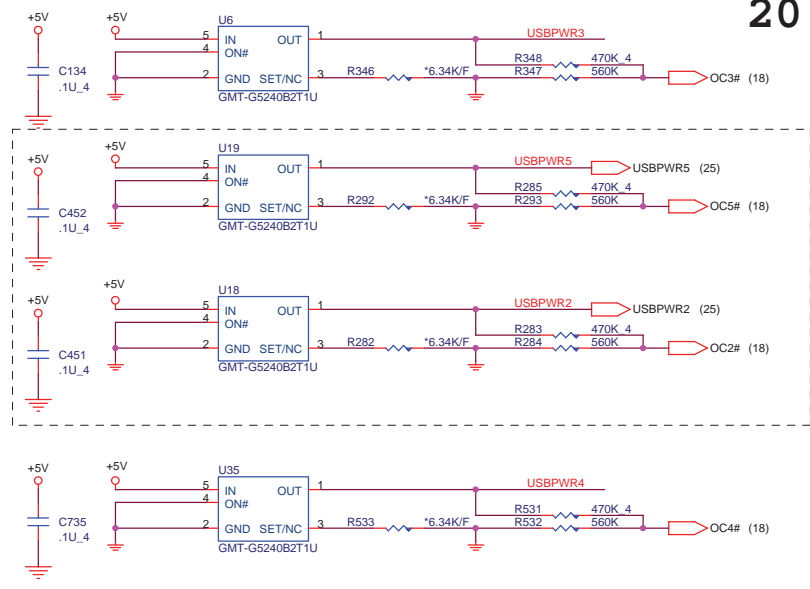
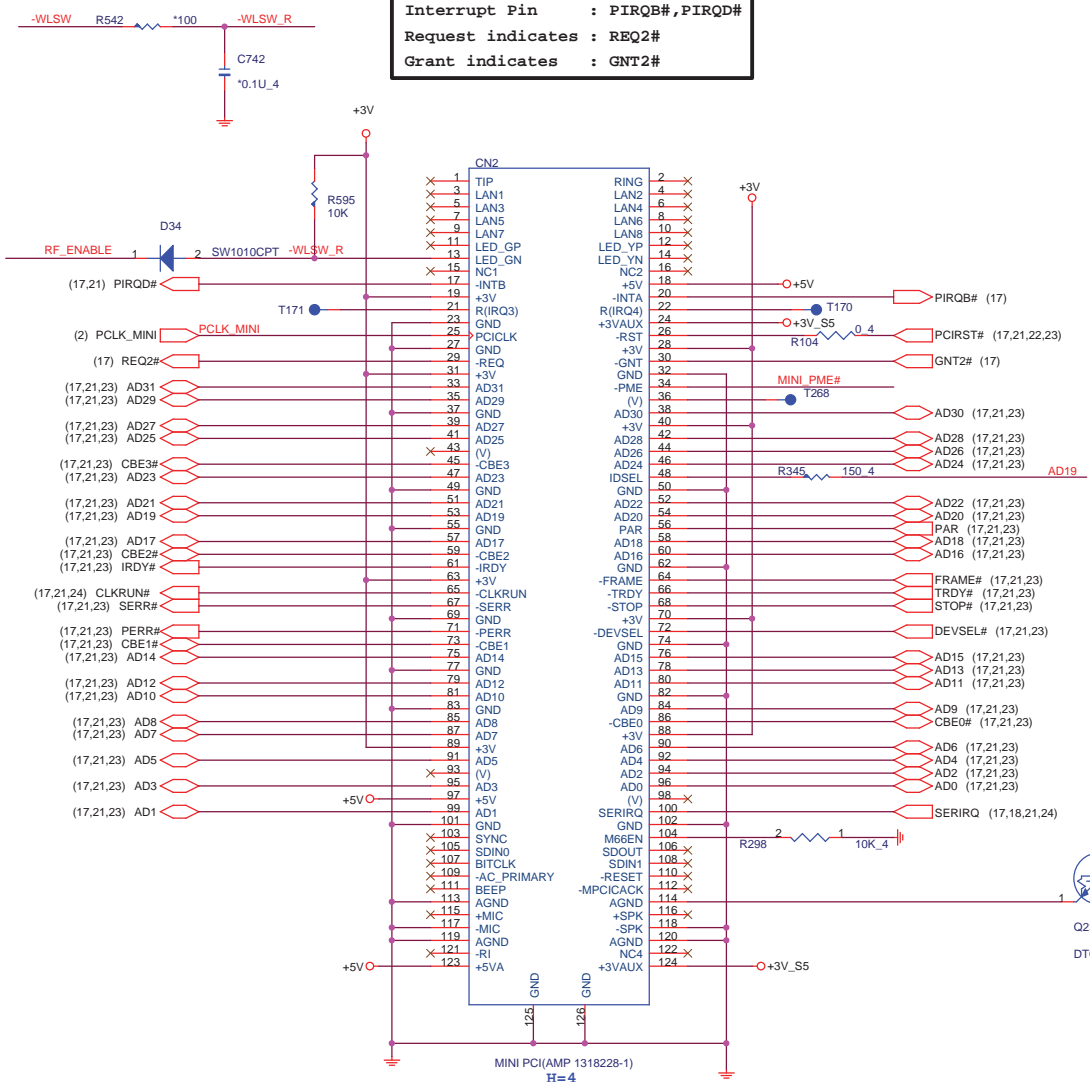
Size	Document Number	Rev
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MINI PCI SOCKET

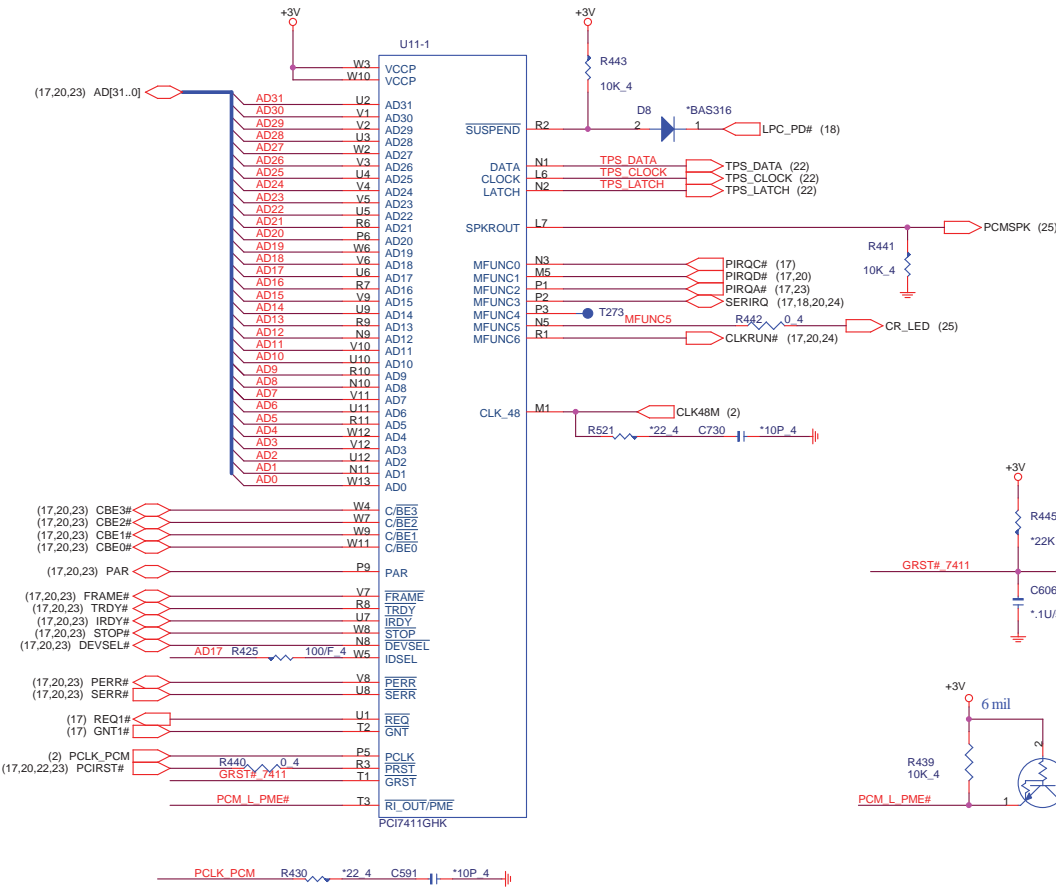
ID Select : AD19
Interrupt Pin : PIRQB#,PIRQD#
Request indicates : REQ2#
Grant indicates : GNT2#

MINI-PCI



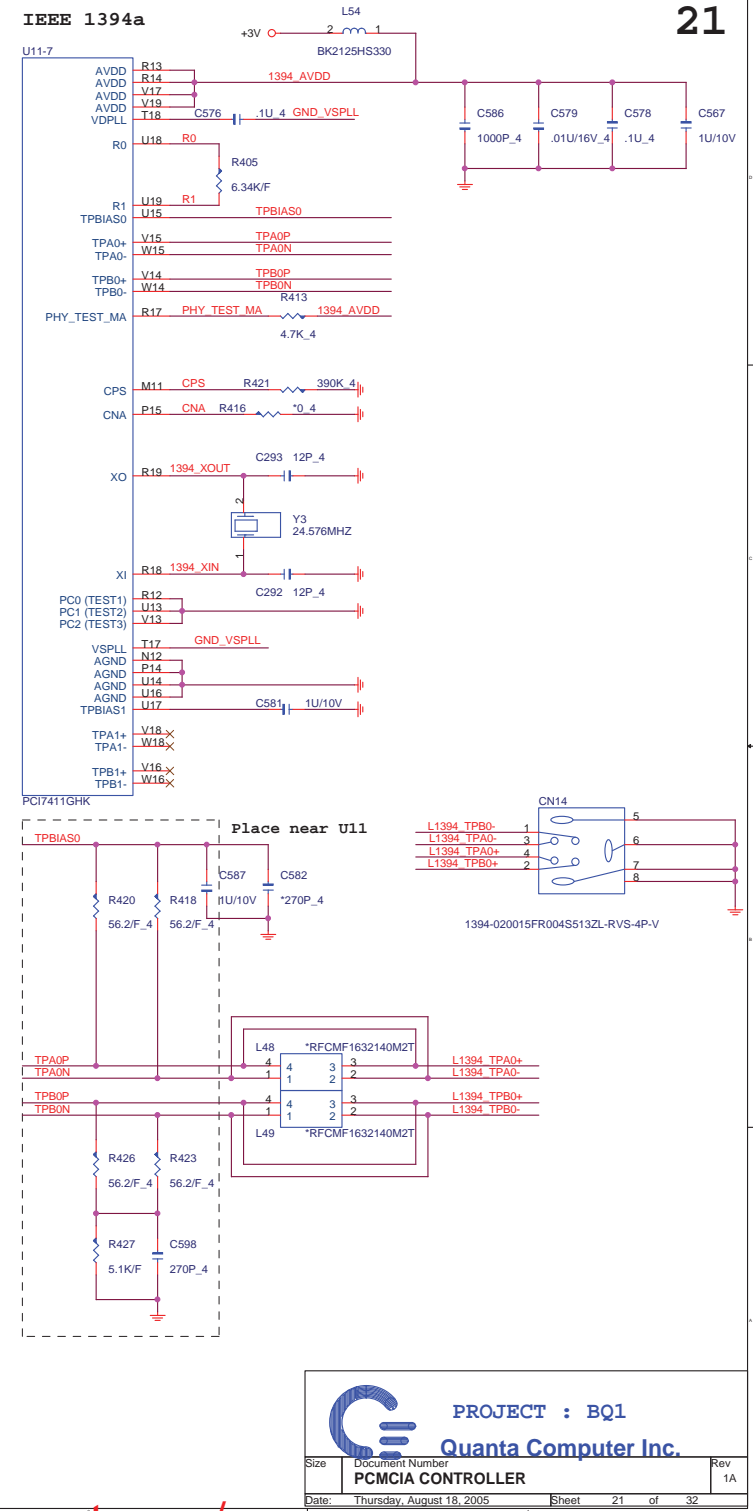
PROJECT : BQ1
Quanta Computer Inc.

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	MINI PCI,USB	1A
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6/09 : To Solve CardBus no sound .

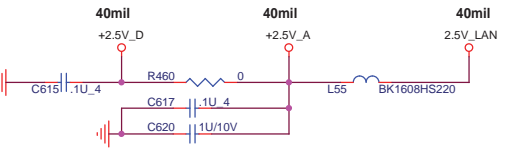
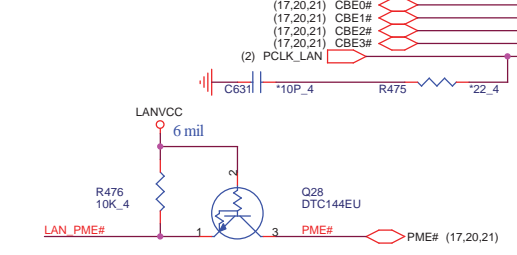
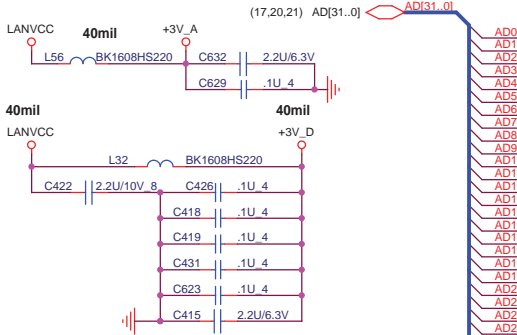
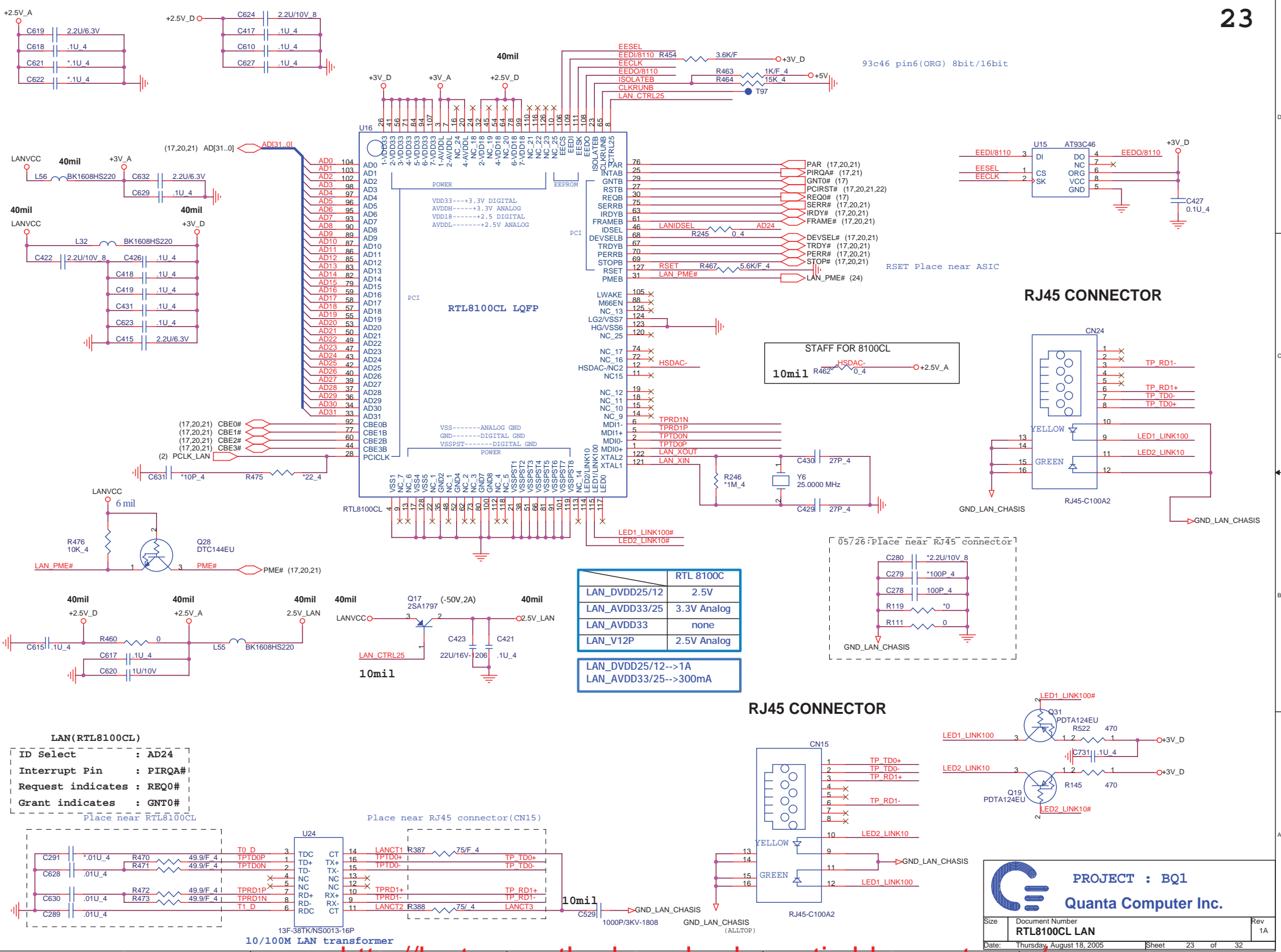
6/09 : Del D30 , change 0 ohm



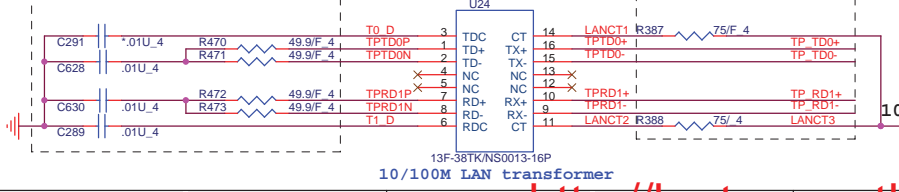
PROJECT : BQ1

Quanta Computer Inc.

Size	Document Number	Rev
	PCMCIA CONTROLLER	1A
Date:	Thursday, August 18, 2005	Sheet 21 of 32

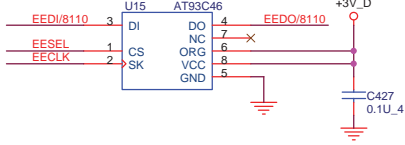
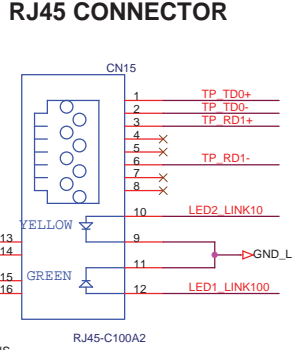


LAN (RTL8100CL)
 ID Select : AD24
 Interrupt Pin : PIRQA#
 Request indicates : REQ0#
 Grant indicates : GNT0#
 Place near RTL8100CL

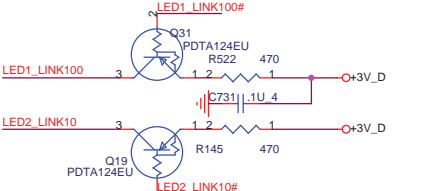
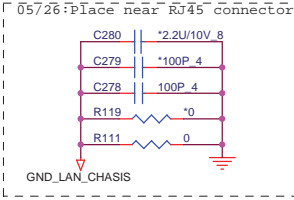
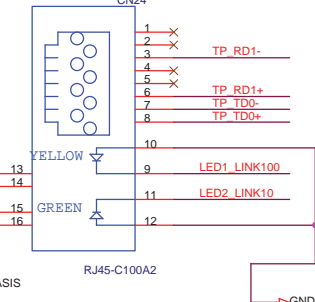


	RTL 8100C
LAN_DVDD25/12	2.5V
LAN_AVDD33/25	3.3V Analog
LAN_AVDD33	none
LAN_V12P	2.5V Analog

LAN_DVDD25/12-->1A
 LAN_AVDD33/25-->300mA

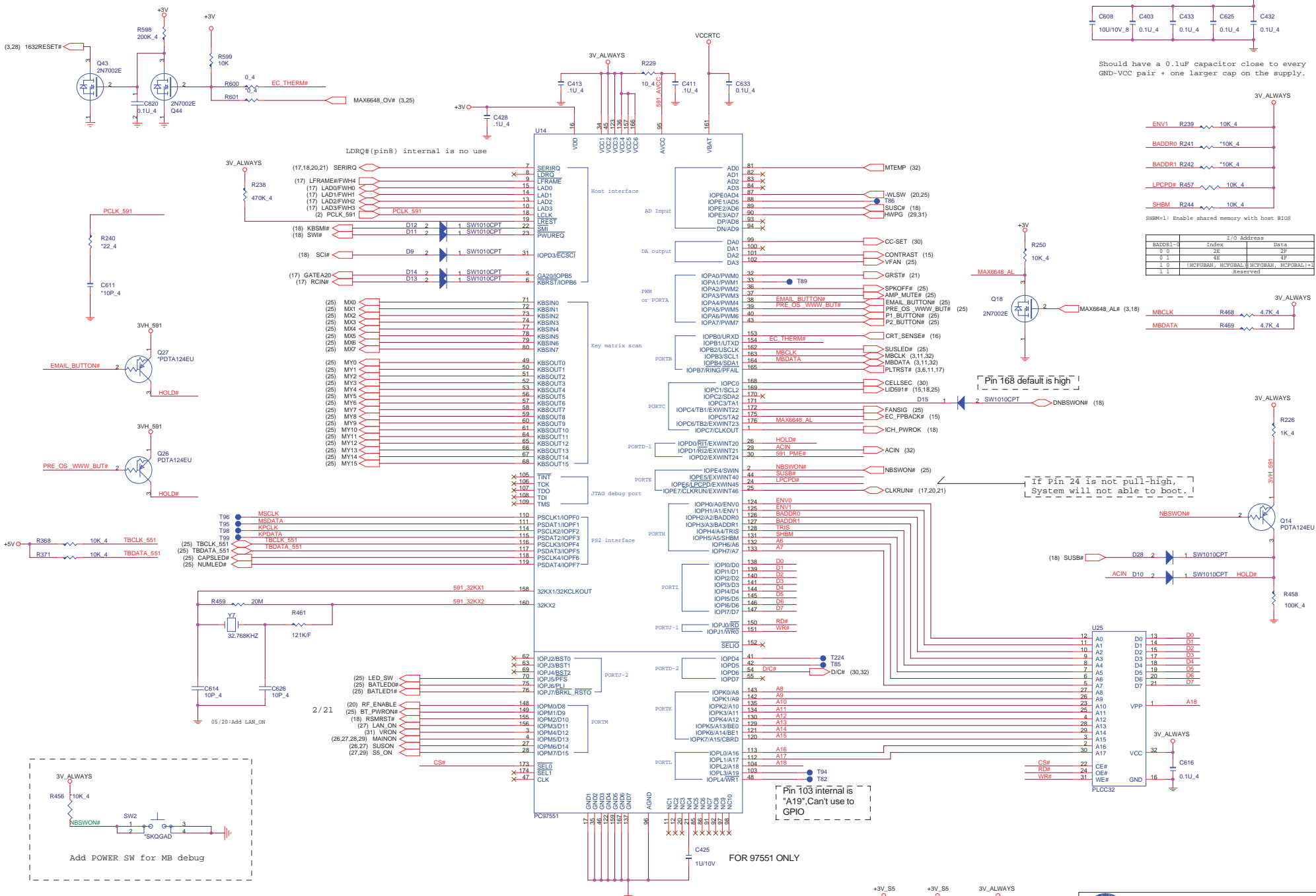


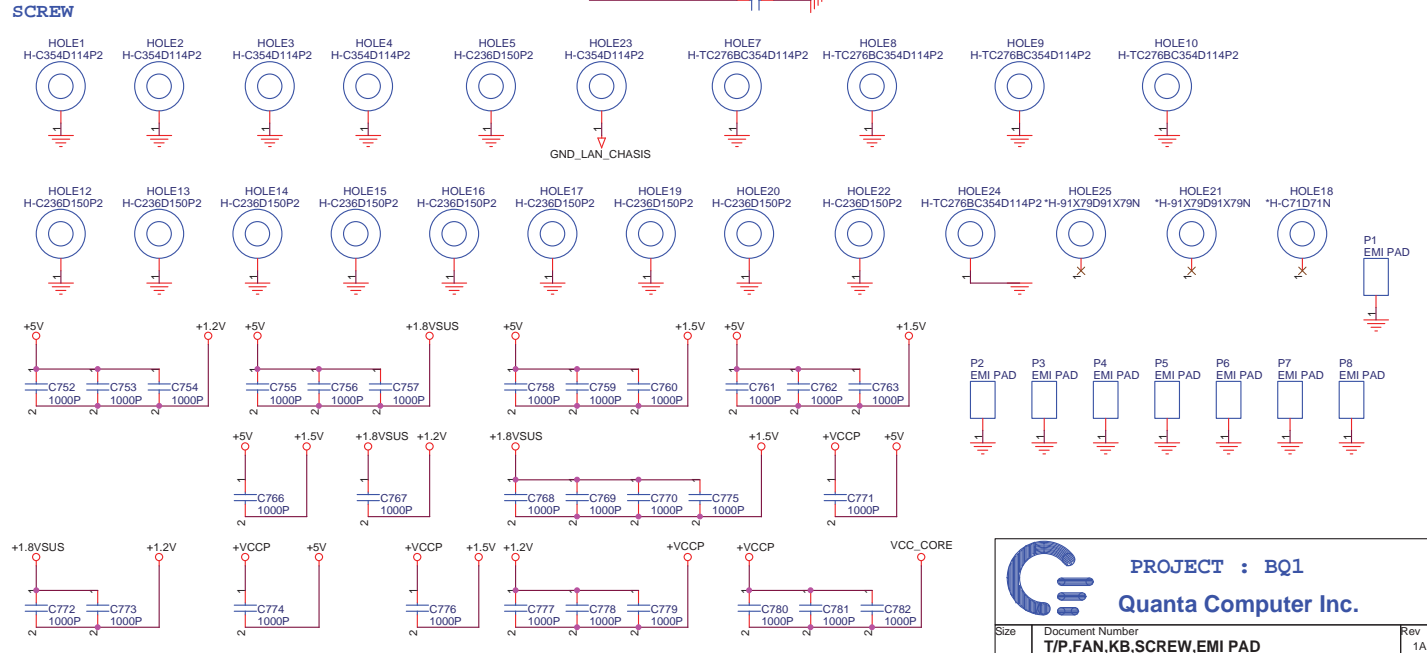
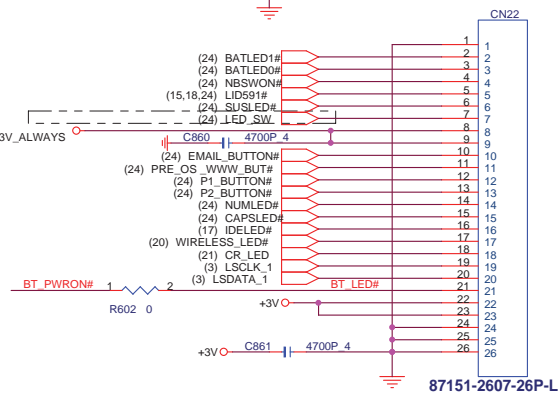
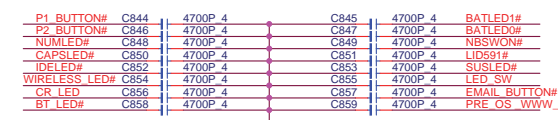
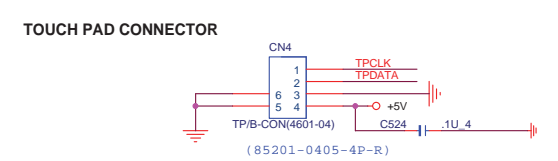
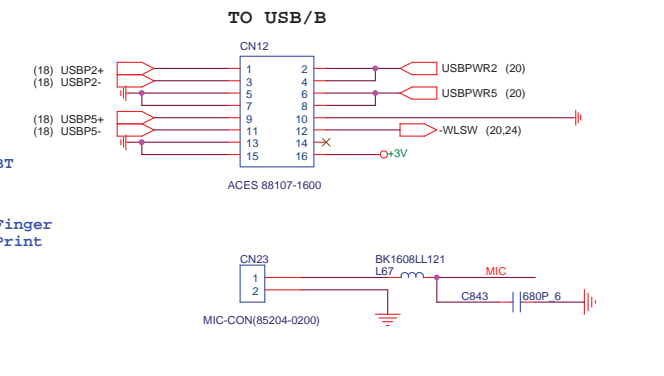
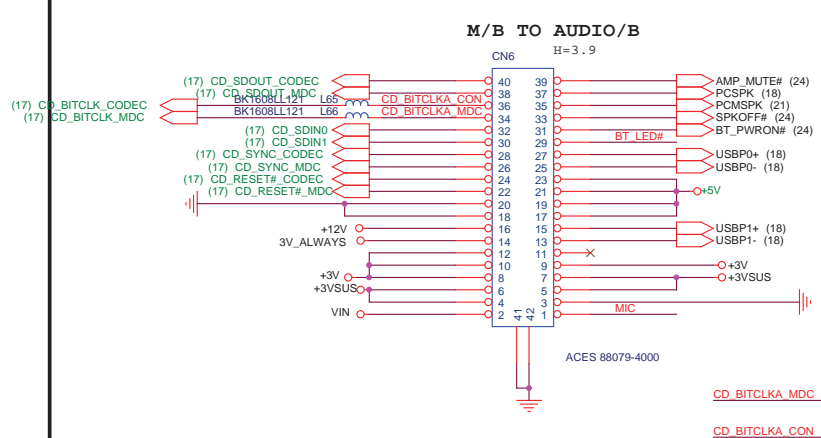
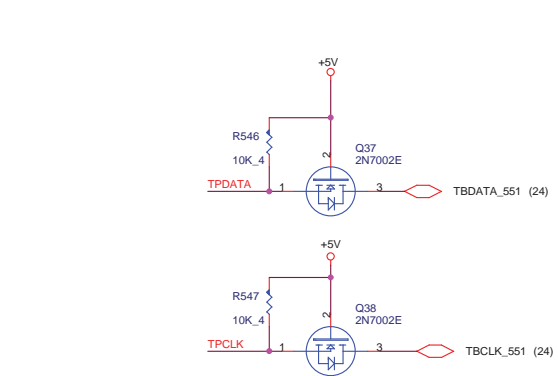
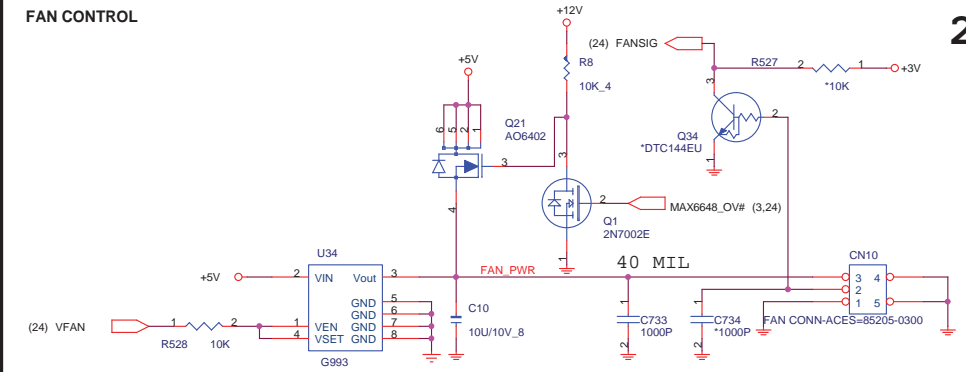
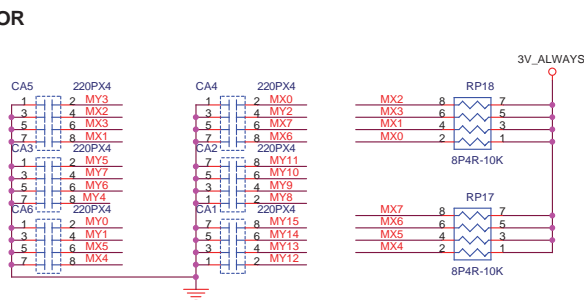
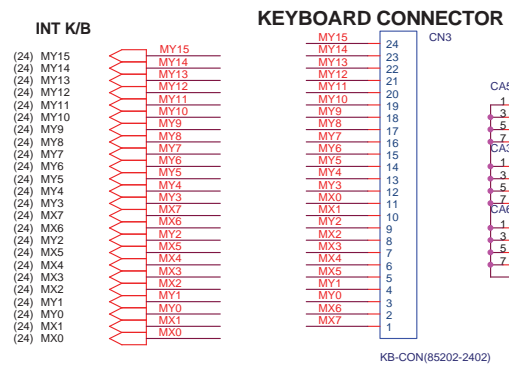
RJ45 CONNECTOR



PROJECT : BQ1
Quanta Computer Inc.

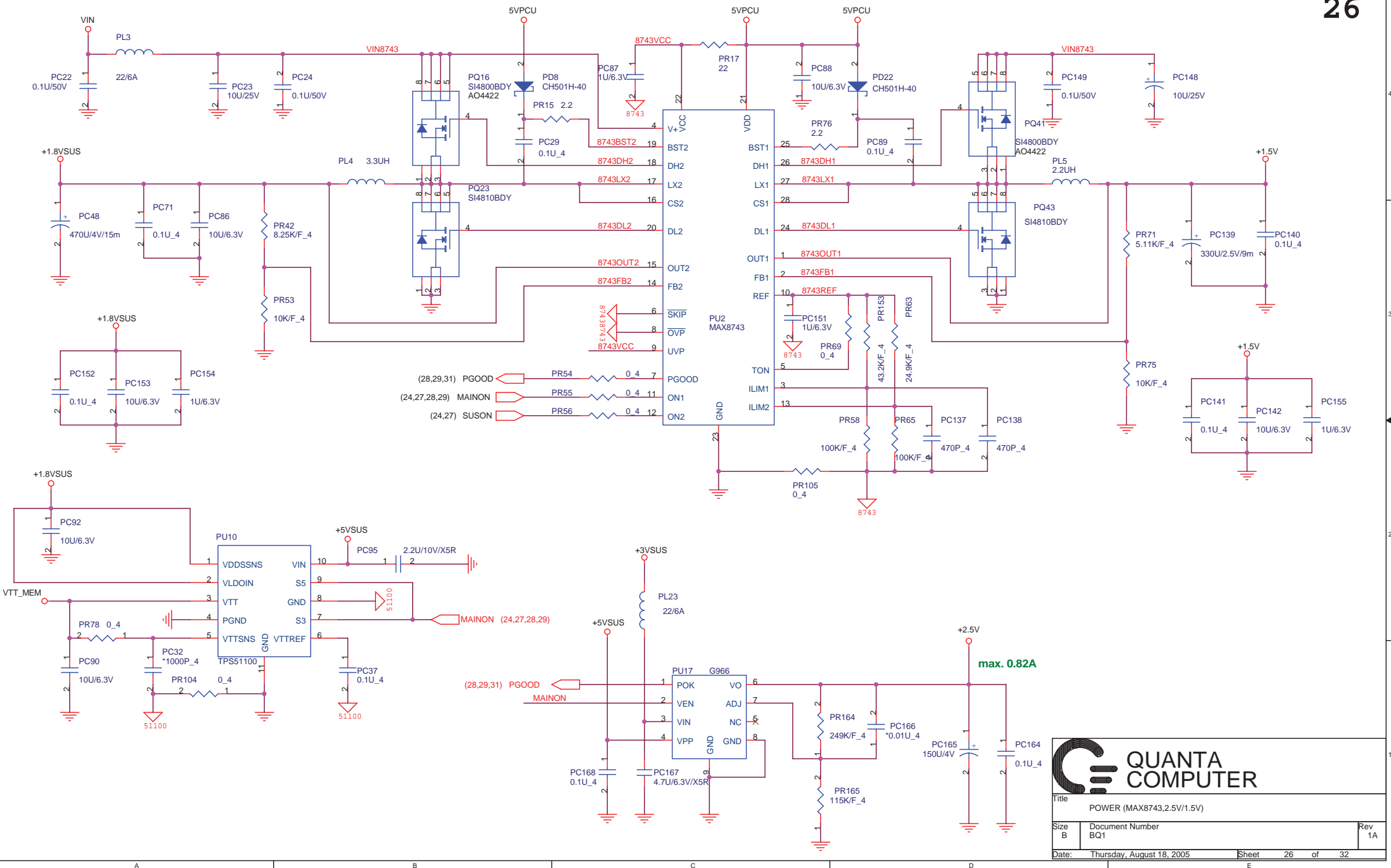
Size	Document Number	Rev
	RTL8100CL LAN	1A
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PROJECT : BQ1
Quanta Computer Inc.

Size: Document Number: T/P,FAN,KB,SCREW,EMI PAD Rev 1A
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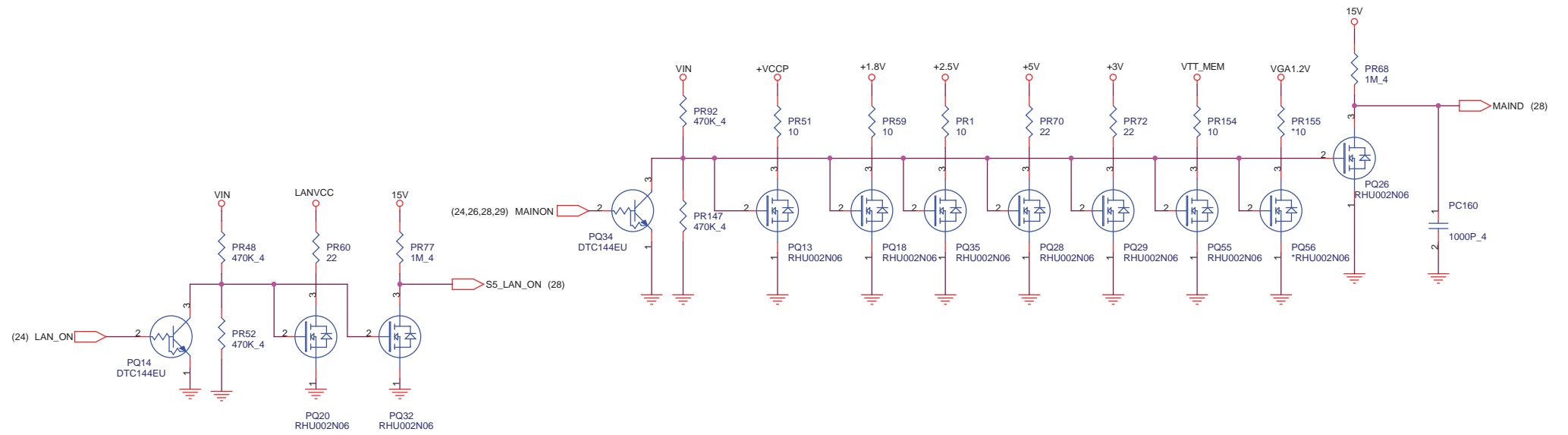
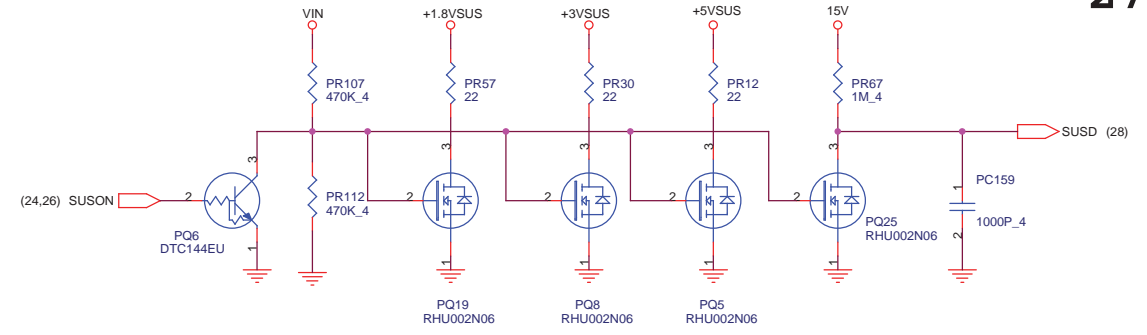
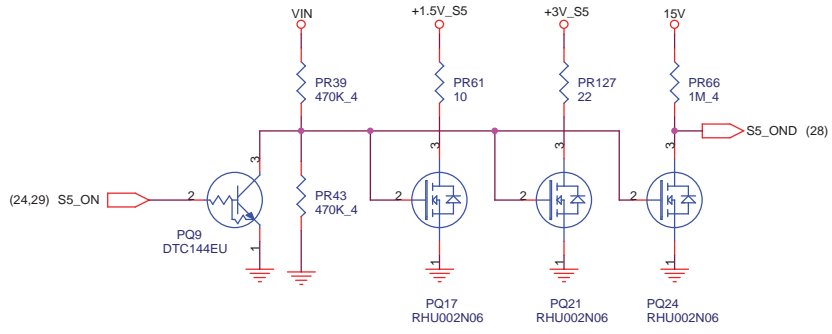


QUANTA COMPUTER

Title: POWER (MAX8743,2.5V/1.5V)

Size	Document Number	Rev
B	BQ1	1A

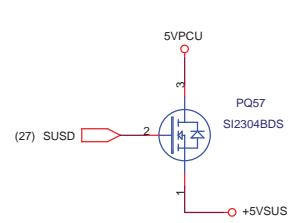
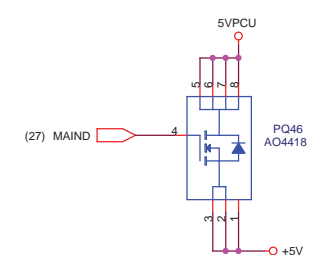
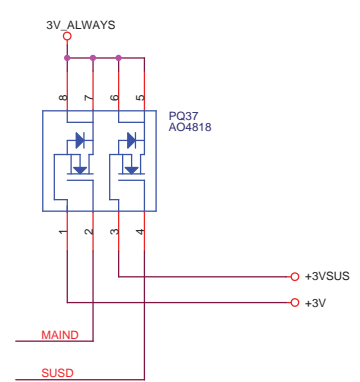
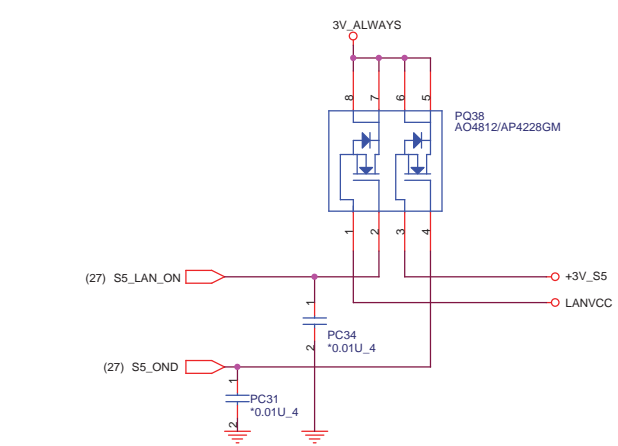
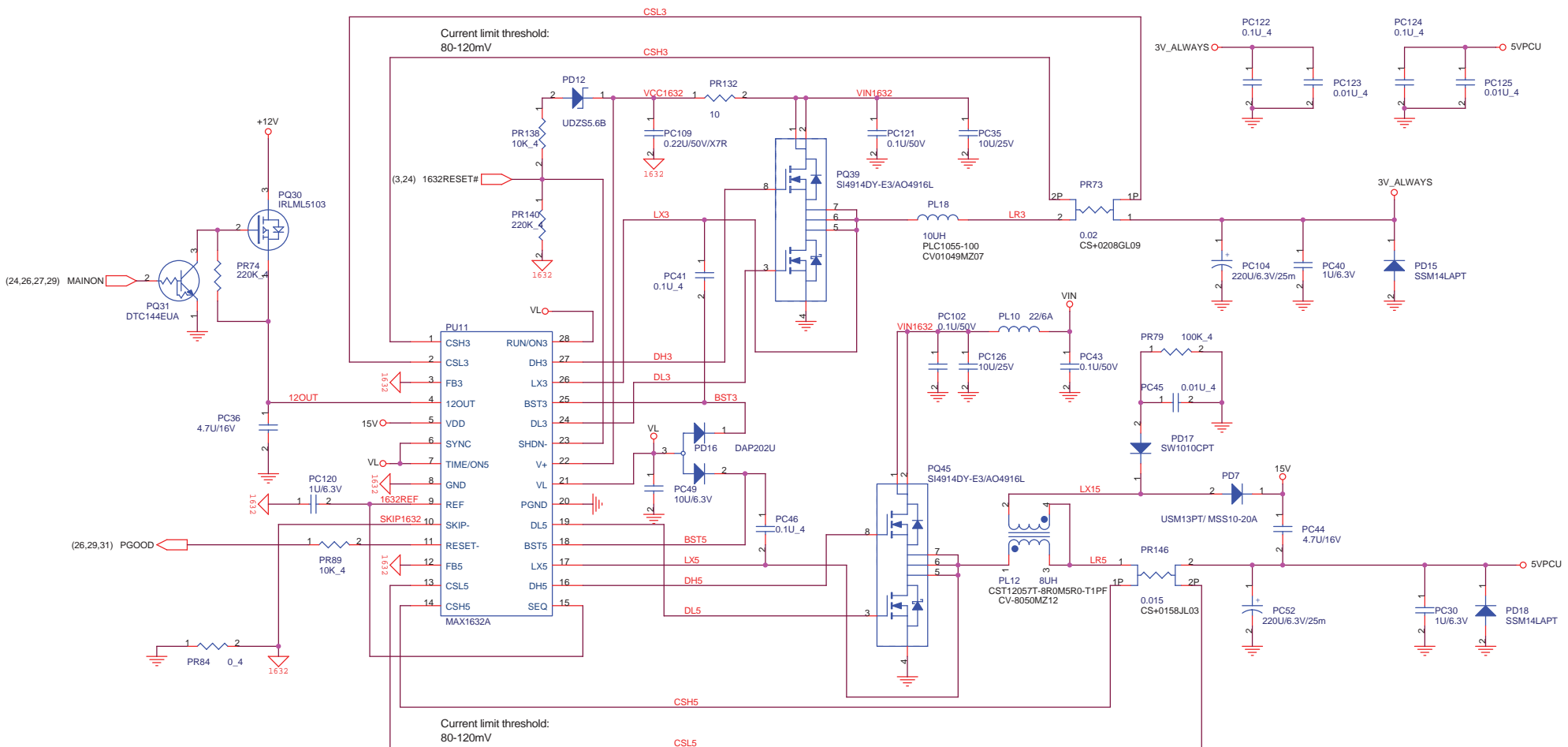
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QUANTA COMPUTER

Title: POWER (DISCHARGE)

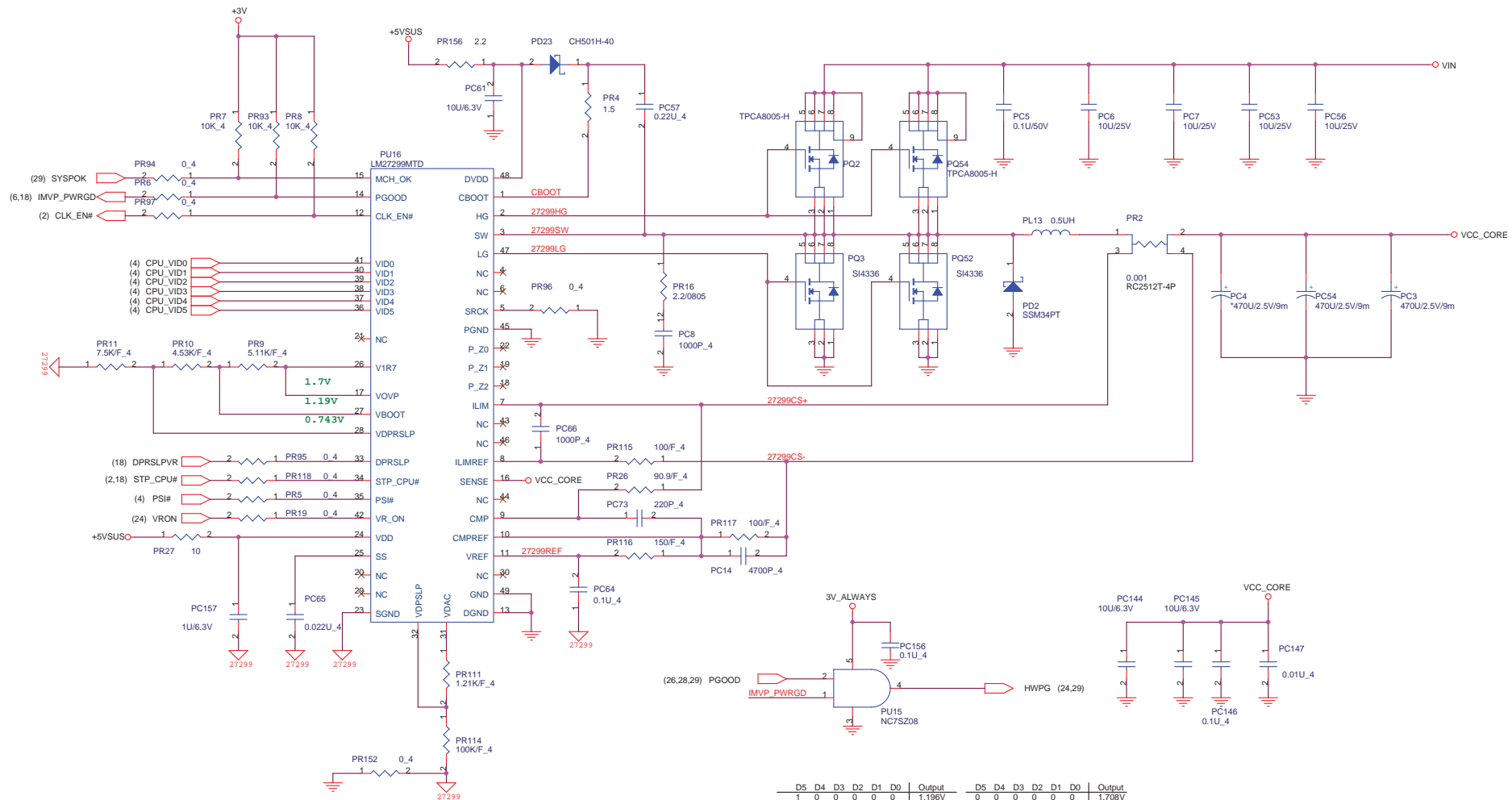
Size: BQ1	Document Number: BQ1	Rev: 1A
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QUANTA COMPUTER

Title: POWER (MAX1632/5V/3.3V)

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D5	D4	D3	D2	D1	D0	Output	D5	D4	D3	D2	D1	D0	Output
1	0	0	0	0	0	1.196V	0	0	0	0	0	0	1.708V
1	0	0	0	0	1	1.180V	0	0	0	0	0	1	1.692V
1	0	0	1	0	0	1.164V	0	0	0	0	1	0	1.676V
1	0	0	0	1	1	1.148V	0	0	0	0	1	1	1.660V
1	0	0	1	0	0	1.132V	0	0	0	1	0	0	1.644V
1	0	0	1	0	1	1.116V	0	0	0	1	0	1	1.628V
1	0	0	1	1	0	1.100V	0	0	0	1	1	0	1.612V
1	0	0	1	1	1	1.084V	0	0	0	1	1	1	1.596V
1	0	1	0	0	0	1.068V	0	0	1	0	0	0	1.580V
1	0	1	0	0	1	1.052V	0	0	1	0	0	1	1.564V
1	0	1	0	1	0	1.036V	0	0	1	0	1	0	1.548V
1	0	1	0	1	1	1.020V	0	0	1	0	1	1	1.532V
1	0	1	1	0	0	1.004V	0	0	1	1	0	0	1.516V
1	0	1	1	0	1	0.988V	0	0	1	1	0	1	1.500V
1	0	1	1	1	0	0.972V	0	0	1	1	1	0	1.484V
1	0	1	1	1	1	0.956V	0	0	1	1	1	1	1.468V
1	1	0	0	0	0	0.940V	0	1	0	0	0	0	1.452V
1	1	0	0	0	1	0.924V	0	1	0	0	0	1	1.436V
1	1	0	0	1	0	0.908V	0	1	0	0	1	0	1.420V
1	1	0	0	1	1	0.892V	0	1	0	0	1	1	1.404V
1	1	0	1	0	0	0.876V	0	1	0	1	0	0	1.388V
1	1	0	1	0	1	0.860V	0	1	0	1	0	1	1.372V
1	1	0	1	1	0	0.844V	0	1	0	1	1	0	1.356V
1	1	0	1	1	1	0.828V	0	1	0	1	1	1	1.340V
1	1	1	0	0	0	0.812V	0	1	1	0	0	0	1.324V
1	1	1	0	0	1	0.796V	0	1	1	0	0	1	1.308V
1	1	1	0	1	0	0.780V	0	1	1	0	1	0	1.292V
1	1	1	0	1	1	0.764V	0	1	1	0	1	1	1.276V
1	1	1	1	0	0	0.748V	0	1	1	1	0	0	1.260V
1	1	1	1	0	1	0.732V	0	1	1	1	0	1	1.244V
1	1	1	1	1	0	0.716V	0	1	1	1	1	0	1.228V
1	1	1	1	1	1	0.700V	0	1	1	1	1	1	1.212V



Title: POWER (LM27299/VCORE)		
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