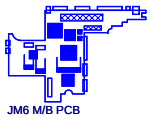

BREWSTER-DISCRETE GFX

PWA XD617, PWB FF094,
SCHEM YD536. (256MB)
VER : 2A

RUN POWER SW PG 49

VGA DC/DC PG 50

SYSTEM RESET CIRCUIT PG 42

BATT SELECTOR PG 43

BATT CHARGER PG 44

Yonah
(478 Micro-FCPGA)
PG 3,4

533/667 MHz FSB

DC/DC
+3V_SRC
+5VSUS
PG 48

REGULATOR PG 45 PG 46

CPU VR PG 47

AC/BATT CONNECTOR PG 51

CLOCKS
ICS954305B
PG 17

nVIDIA G72M
PCI EXPRESS GFX
PG 18,19,20,21

PCIEx16

LVDS

DVI

TVOUT

VGA

Panel Connector PG 22

CRT CONN. PG 23

DDR2-SODIMM1 PG 15,16

DDR2-SODIMM2 PG 15,16

533/667 MHZ DDR II

533/667 MHZ DDR II

Calistoga
1466 uFCBGA
PG 5,6,7,8,9,10

SATA - HDD PG 24

SATA

DMI interface

USB2.0 (P3,P4) (EXT SIDE)
USB2.0 (P5,P6) (EXT BACK)
USB2.0 (P7)

POSWER USB & USB PG 31

SMART CARD
OZ77C6L
PG 26

USB2.0 (P2)

AC97/Azalia

ICH7-M
652 BGA
PG 11,12,13,14

PCIEx1

BroadCom Lan(5752) PG 38

E-Switch
PI3L500
PG 39

RJ45/Magnetics PG 39

33MHz PCI

PCIEx3

USB2.0 (P0)

Q-SWITCH PG 40

CARDBUS/1394
OZ711EZ1TN
PG 25

DOCKING CONNECTOR
PG 41

IDE

Internal Media Bay
CD-ROM PG 24

AUDIO PG 36,37

MDC PG 28

SPI

LPC

USB2.0
ICH (P1)

USB2.0
(P4)

USB2.0 (P1,P2)

MINI-CARD x2
WLAN & WWAN
EXPRESS-CARD
PG 27

S/PDIF to DOCK PG 41

Audio Jacks PG 37

RJ11 to DOCK PG 41

Tip Ring PG 28

SIO MEC5004
128KB Flash
TMKBC
128 Pins VTQFP
PG 29

BC

SIO ECE5018
Expander
USB 2.0 Hub(4)
128 Pins VTQFP
PG 30

USB2.0 (P3)

Bluetooth PG 33

DOCK LPC

SPI

PS/2

USER INTERFACE PG 34

Flash PG 32

Keyboard PG 29

Touchpad/ Stick point PG 33

Serial Port PG 31

IrDA PG 33

FAN & THERMAL
EMC4000
PG 35

QUANTA COMPUTER

Title	Schematic Block Diagram	
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INDEX

Pg#	Description	DNI LIST
1	Schematic Block Diagram	
2	Front Page	
3-4	Yonah	
5-10	Calistoga	
11-14	ICH7	
15-16	DDRII SO-DIMM(200P)	
17	Clock Generator	
18-21	VGA	
22	LCD Conn. & SSP	
23	CRT Conn	
24	SATA & IDE Conn	
25	PCCARD/Conn & 1394	
26	Express Card & Smart Card	
27	Mini Card	
28	MDC Conn.	
29	SIO (MEC5004)	
30	SIO (MEC5018)	
31	SERIAL PORT & USB	
32	Flash ROM & RTC Circuit	
33	TP,BT & FIR	
34	Switch,Keyboard & LED	
35	FAN & Thermal	
36-37	Audio CODEC(STAC9200)/Phone Jack	
38-39	LOM (BCM5752)/Switch	
40-41	Docking Conn/Q-Switch	
42	System Reset Circuit	
43-44	Battery Selector & Charger	
45	DDR2_1.8VSUS, 0.9V	
46	1.5VSUS,1.05V(VTT)	
47	CPU Power	
48	D/D Power	
49	RUN Power Switch	
50	VGA DC/DC	
51	DCIN/Batt Conn.	
52	PAD& SCREW	
53	SMBUS BlOCK	

Power & Ground

Label	Pg#	Description	Control Signal
DC_IN+		AC ADAPTER (20V)	
PBATT+		MAIN BATTERY + (10~17V)	
PWR_SRC		MAIN POWER (10~20V)	
RTC_PWR3_3V		RTC & PCL POWER (3_3V)	
+12V		+12V	DRUNPWROK
VHCORE		CPU CORE POWER (1.25/1.15V)	RUNPWROK
V1_2RUN		AGTL+ POWER (1.2V)	RUNPWROK
+3VRUN		SLP_S3# CTRLD POWER	RUN_ON
+3VSUS		SLP_S5# CTRLD POWER	SUS_ON
+5VALW		8051 POWER (5V)	
+5VRUN		SLP_S3# CTRLD POWER	RUN_ON
+5VSUS		SLP_S5# CTRLD POWER	SUS_ON
+5VHDD		HDD POWER (5V)	HDDC_EN#
+5VMOD		MODULE POWER (5V)	MODC_EN#
STRB#/5V		EXTERNAL FDD POWER (5V)	FDD/LPT#
+5VFAN1, +5VFAN2		FAN POWER (5V)	FAN_OFF/ON#
VDDA		AUDIO ANALOG POWER (5V)	RUN_ON
1_8VSUS		RESUME WELL IN ICH	
1_8VRUN		SLP_S3# CTRLD POWER	
+3VALW		8051 POWER (3V)	
V1_5RUN		AGP I/O POWER	
GND	ALL PAGES	DIGITAL GROUND	
GNDP		CPU POWER GND	
CGNDP		CHARGER GND	
DGNDP		DC/DC POWER GND	
LANGND		COMBO CONN GND	

QUANTA COMPUTER

Title	Index, DNI, Power & Ground	
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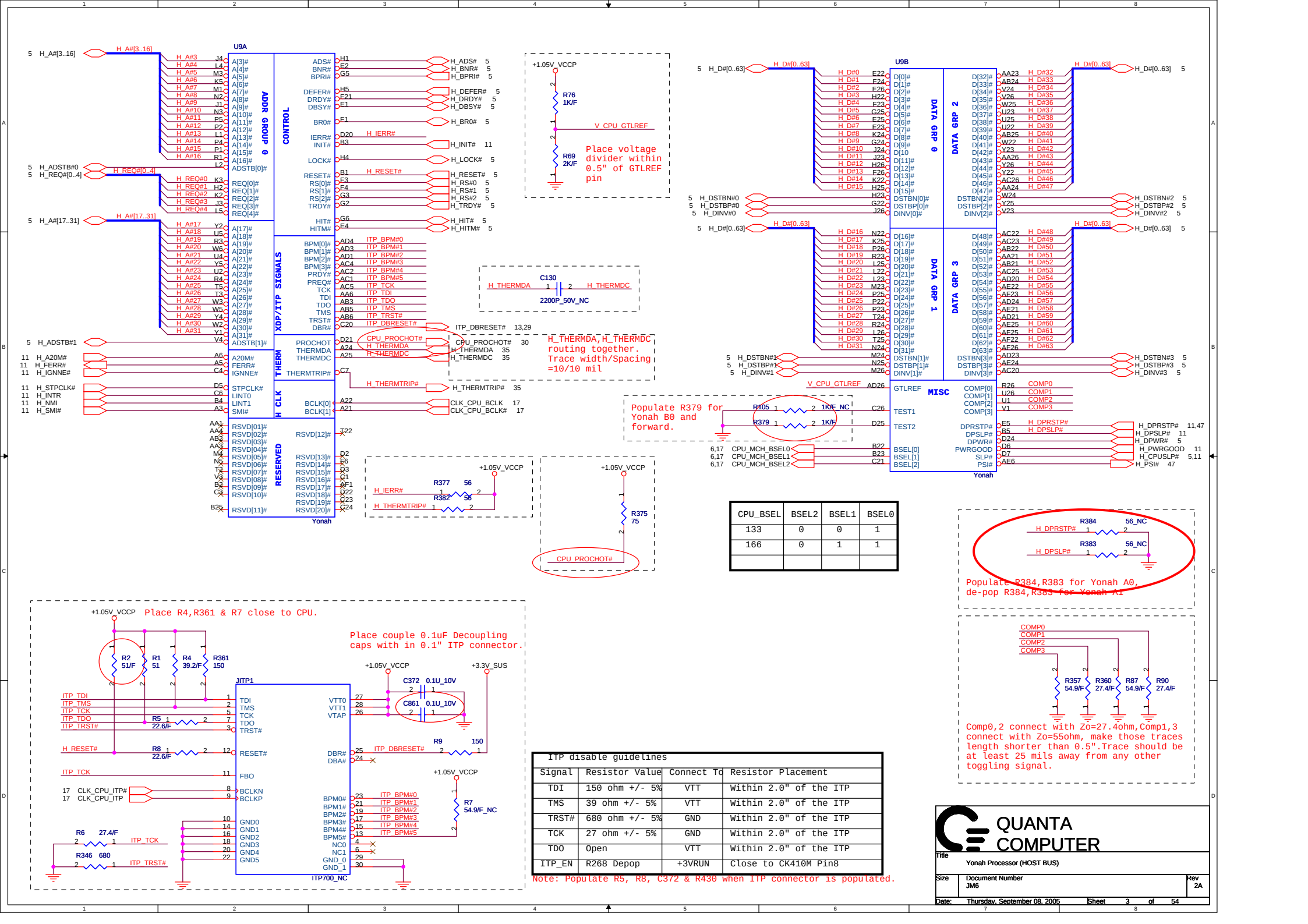

CPU_BSEL	BSEL2	BSEL1	BSEL0
133	0	0	1
166	0	1	1

ITP disable guidelines

Signal	Resistor Value	Connect To	Resistor Placement
TDI	150 ohm +/- 5%	VTT	Within 2.0" of the ITP
TMS	39 ohm +/- 5%	VTT	Within 2.0" of the ITP
TRST#	680 ohm +/- 5%	GND	Within 2.0" of the ITP
TCK	27 ohm +/- 5%	GND	Within 2.0" of the ITP
TDO	Open	VTT	Within 2.0" of the ITP
ITP_EN	R268 Depop	+3VRUN	Close to CK410M Pin8

Note: Populate R5, R8, C372 & R430 when ITP connector is populated.

QUANTA COMPUTER

Title	Yonah Processor (HOST BUS)	
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All use 22U 4V(+-20%,X6S,0805)Pb-Free.

+VCC_CORE
C423 22U_4V
C84 22U_4V
C83 22U_4V
C82 22U_4V
C81 22U_4V

+VCC_CORE
C459 22U_4V
C460 22U_4V
C80 22U_4V
C79 22U_4V
C424 22U_4V

+VCC_CORE
C464 22U_4V
C465 22U_4V
C461 22U_4V
C462 22U_4V
C463 22U_4V

+VCC_CORE
C554 22U_4V
C555 22U_4V
C466 22U_4V
C552 22U_4V
C553 22U_4V

+VCC_CORE
C559 22U_4V
C598 22U_4V
C556 22U_4V
C557 22U_4V
C558 22U_4V

+VCC_CORE
C97 22U_4V
C96 22U_4V
C599 22U_4V
C99 22U_4V
C98 22U_4V

+VCC_CORE
C95 22U_4V
C94 22U_4V

8 inside cavity, north side, secondary layer.
8 inside cavity, south side, secondary layer.
6 inside cavity, north side, primary layer.
6 inside cavity, south side, primary layer.

+1.05V_VCCP
C480 0.1U_10V
C533 0.1U_10V
C481 0.1U_10V
C534 0.1U_10V
C482 0.1U_10V
C535 0.1U_10V

Total caps = 2633 uF.
ESR = 15m ohm/5 // 5m ohm/25 // 5m ohm/15.
Place these inside socket cavity on North side secondary.

+VCC_CORE

U9C

A7	VCC[001]	VCC[068]	AB20		
A9	VCC[002]	VCC[069]	AB7		
A10	VCC[003]	VCC[070]	AC7		
A12	VCC[004]	VCC[071]	AC9		
A13	VCC[005]	VCC[072]	AC12		
A15	VCC[006]	VCC[073]	AC13		
A17	VCC[007]	VCC[074]	AC15		
A18	VCC[008]	VCC[075]	AC17		
A20	VCC[009]	VCC[076]	AC18		
B7	VCC[010]	VCC[077]	AD7		
B9	VCC[011]	VCC[078]	AD9		
B10	VCC[012]	VCC[079]	AD10		
B12	VCC[013]	VCC[080]	AD12		
B14	VCC[014]	VCC[081]	AD14		
B15	VCC[015]	VCC[082]	AD15		
B17	VCC[016]	VCC[083]	AD17		
B18	VCC[017]	VCC[084]	AD18		
B20	VCC[018]	VCC[085]	AE9		
C9	VCC[019]	VCC[086]	AE10		
C10	VCC[020]	VCC[087]	AE12		
C12	VCC[021]	VCC[088]	AE13		
C13	VCC[022]	VCC[089]	AE15		
C15	VCC[023]	VCC[090]	AE17		
C17	VCC[024]	VCC[091]	AE18		
C18	VCC[025]	VCC[092]	AE20		
D9	VCC[026]	VCC[093]	AE9		
D10	VCC[027]	VCC[094]	AE10		
D12	VCC[028]	VCC[095]	AE12		
D14	VCC[029]	VCC[096]	AE14		
D15	VCC[030]	VCC[097]	AE15		
D17	VCC[031]	VCC[098]	AE17		
D18	VCC[032]	VCC[099]	AE18		
E7	VCC[033]	VCC[100]	AE20		
E9	VCC[034]				
E10	VCC[035]	VCCP[01]	V6		
E12	VCC[036]	VCCP[02]	G21		
E13	VCC[037]	VCCP[03]	J6		
E15	VCC[038]	VCCP[04]	K6		
E17	VCC[039]	VCCP[05]	M6		
E18	VCC[040]	VCCP[06]	J21		
E20	VCC[041]	VCCP[07]	K21		
F7	VCC[042]	VCCP[08]	M21		
F9	VCC[043]	VCCP[09]	N21		
F10	VCC[044]	VCCP[10]	N6		
F12	VCC[045]	VCCP[11]	R21		
F14	VCC[046]	VCCP[12]	R6		
F15	VCC[047]	VCCP[13]	T21		
F17	VCC[048]	VCCP[14]	T6		
F18	VCC[049]	VCCP[15]	V21		
F20	VCC[050]	VCCP[16]	W21		
AA7	VCC[051]				
AA9	VCC[052]	VCCA	B26		
AA10	VCC[053]				
AA12	VCC[054]				
AA13	VCC[055]	VID[0]	AD6	VID0	47
AA15	VCC[056]	VID[1]	AE5	VID1	47
AA17	VCC[057]	VID[2]	AE5	VID2	47
AA18	VCC[058]	VID[3]	AF4	VID3	47
AA20	VCC[059]	VID[4]	AE3	VID4	47
AB9	VCC[060]	VID[5]	AF2	VID5	47
AC10	VCC[061]	VID[6]	AE2	VID6	47
AB10	VCC[062]				
AB12	VCC[063]				
AB14	VCC[064]				
AB15	VCC[065]	VCCSENSE	AF7	VCCSENSE	47
AB17	VCC[066]				
AB18	VCC[067]	VSSSENSE	AF7	VSSSENSE	47

Yonah

+1.05V_VCCP
C858 330U_2.5V

+PWR_SRC
C856 100U_25V_NC
C871 100U_25V_NC

Layout Note:
Need to add 220uF cap on PWR_SRC for cap singing.
Place on PWR_SRC near +VCC_CORE.

+1.5V_RUN
C105 0.01U_25V
C115 10U_6.3V

Place C105 near PIN B26

+VCC_CORE
R345 100/F
VCCSENSE
VSSSENSE
R344 100/F

Route VCCSENSE and VSSSENSE traces at 27.4ohms with 10mil spacing and 25mil away from any other signals. Place PU and PD within 2 inch of CPU.

U9D

A4	VSS[001]	VSS[082]	P6
A8	VSS[002]	VSS[083]	P21
A11	VSS[003]	VSS[084]	P24
A14	VSS[004]	VSS[085]	R2
A16	VSS[005]	VSS[086]	R5
A19	VSS[006]	VSS[087]	R22
A23	VSS[007]	VSS[088]	R25
A26	VSS[008]	VSS[089]	T1
B6	VSS[009]	VSS[090]	T4
B8	VSS[010]	VSS[091]	T23
B11	VSS[011]	VSS[092]	T26
B13	VSS[012]	VSS[093]	U3
B16	VSS[013]	VSS[094]	U6
B19	VSS[014]	VSS[095]	U21
B21	VSS[015]	VSS[096]	U24
B24	VSS[016]	VSS[097]	V2
C5	VSS[017]	VSS[098]	V5
C8	VSS[018]	VSS[099]	V22
C11	VSS[019]	VSS[100]	V25
C14	VSS[020]	VSS[101]	W1
C16	VSS[021]	VSS[102]	W4
C19	VSS[022]	VSS[103]	W23
C2	VSS[023]	VSS[104]	W26
C22	VSS[024]	VSS[105]	Y3
C25	VSS[025]	VSS[106]	Y6
D1	VSS[026]	VSS[107]	Y21
D4	VSS[027]	VSS[108]	Y24
D8	VSS[028]	VSS[109]	AA2
D11	VSS[029]	VSS[110]	AA5
D13	VSS[030]	VSS[111]	AA8
D16	VSS[031]	VSS[112]	AA11
D19	VSS[032]	VSS[113]	AA14
D23	VSS[033]	VSS[114]	AA16
D26	VSS[034]	VSS[115]	AA19
E3	VSS[035]	VSS[116]	AA22
E6	VSS[036]	VSS[117]	AA25
E8	VSS[037]	VSS[118]	AB1
E11	VSS[038]	VSS[119]	AB4
E14	VSS[039]	VSS[120]	AB8
E16	VSS[040]	VSS[121]	AB11
E19	VSS[041]	VSS[122]	AB13
E21	VSS[042]	VSS[123]	AB16
E24	VSS[043]	VSS[124]	AB19
F5	VSS[044]	VSS[125]	AB23
F8	VSS[045]	VSS[126]	AB26
F11	VSS[046]	VSS[127]	AC3
F13	VSS[047]	VSS[128]	AC6
F16	VSS[048]	VSS[129]	AC8
F19	VSS[049]	VSS[130]	AC11
F2	VSS[050]	VSS[131]	AC14
F22	VSS[051]	VSS[132]	AC16
F25	VSS[052]	VSS[133]	AC19
G4	VSS[053]	VSS[134]	AC21
G1	VSS[054]	VSS[135]	AC24
G23	VSS[055]	VSS[136]	AD2
G26	VSS[056]	VSS[137]	AD5
H3	VSS[057]	VSS[138]	AD8
H6	VSS[058]	VSS[139]	AD11
H21	VSS[059]	VSS[140]	AD13
H24	VSS[060]	VSS[141]	AD16
J2	VSS[061]	VSS[142]	AD19
J5	VSS[062]	VSS[143]	AD22
J22	VSS[063]	VSS[144]	AD25
J25	VSS[064]	VSS[145]	AE1
K1	VSS[065]	VSS[146]	AE4
K4	VSS[066]	VSS[147]	AE8
K23	VSS[067]	VSS[148]	AE11
K26	VSS[068]	VSS[149]	AE14
L3	VSS[069]	VSS[150]	AE16
L6	VSS[070]	VSS[151]	AE19
L21	VSS[071]	VSS[152]	AE23
L24	VSS[072]	VSS[153]	AE26
M2	VSS[073]	VSS[154]	AF3
M5	VSS[074]	VSS[155]	AF6
M22	VSS[075]	VSS[156]	AF8
M25	VSS[076]	VSS[157]	AF11
N1	VSS[077]	VSS[158]	AF13
N4	VSS[078]	VSS[159]	AF16
N23	VSS[079]	VSS[160]	AF19
N26	VSS[080]	VSS[161]	AF21
P3	VSS[081]	VSS[162]	AF24

Yonah

QUANTA COMPUTER

Title	Yonah Processor (POWER)	
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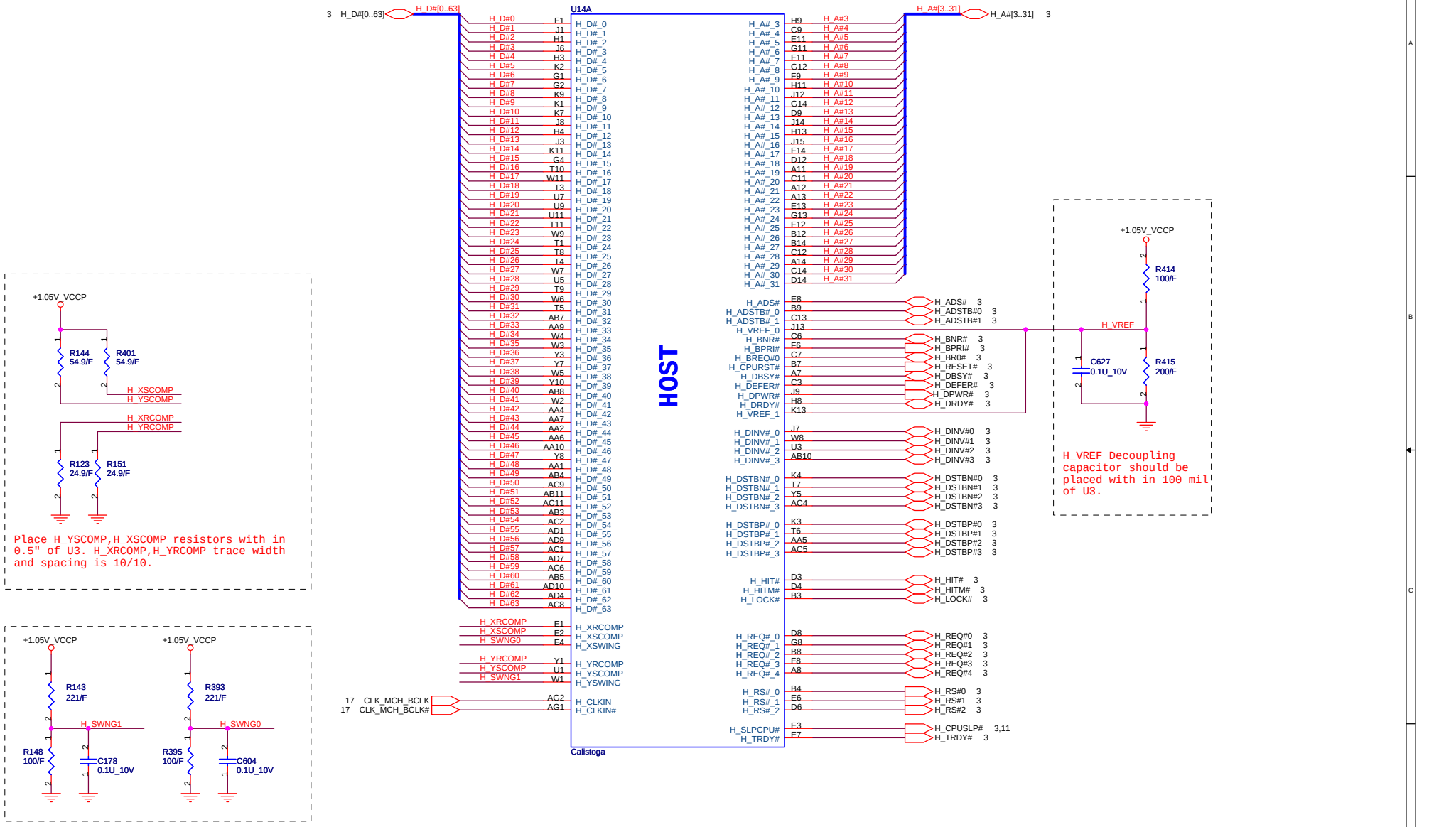

Title	Calistoga (HOST)		
Size	Document Number JM6		Rev 2A
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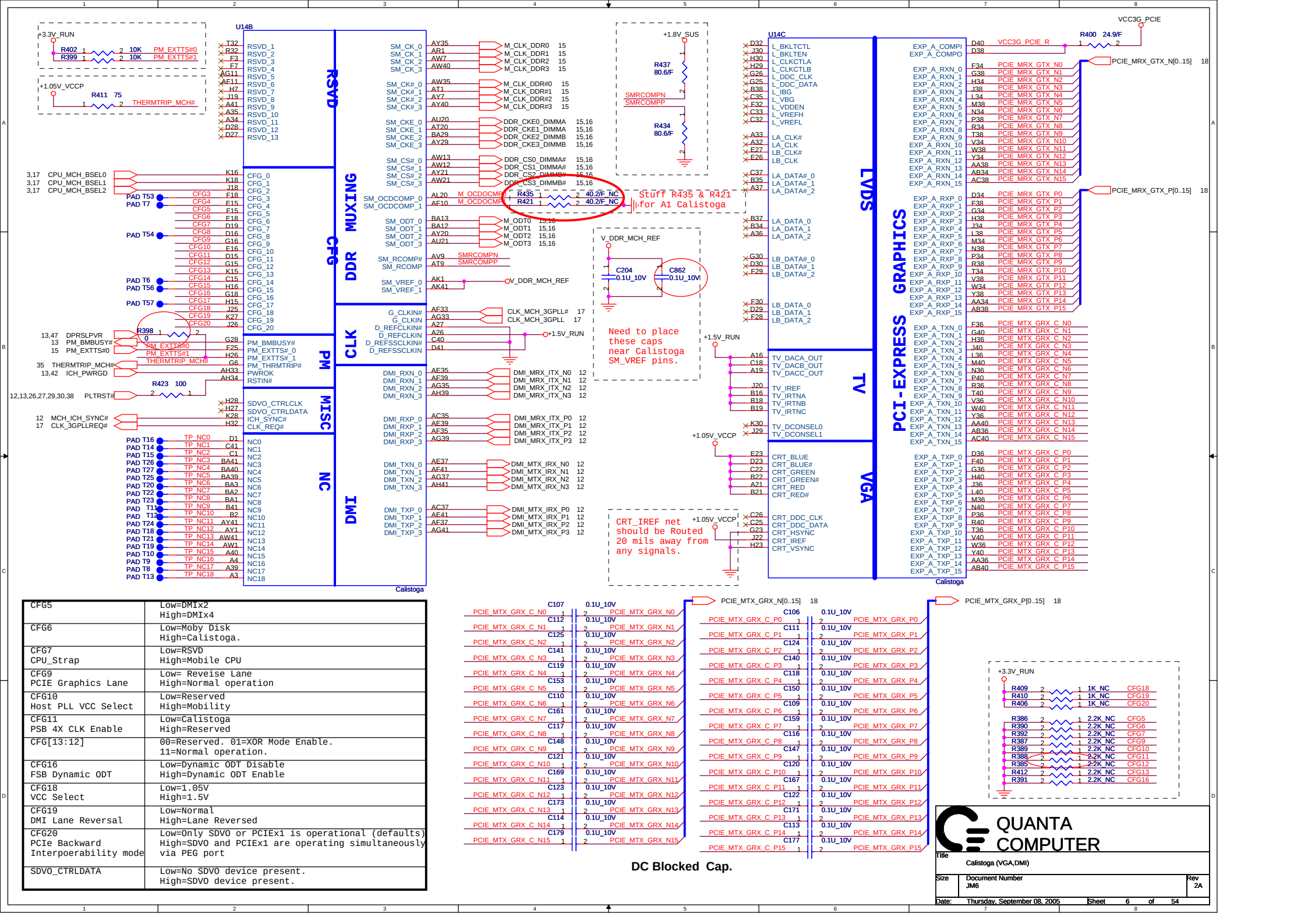
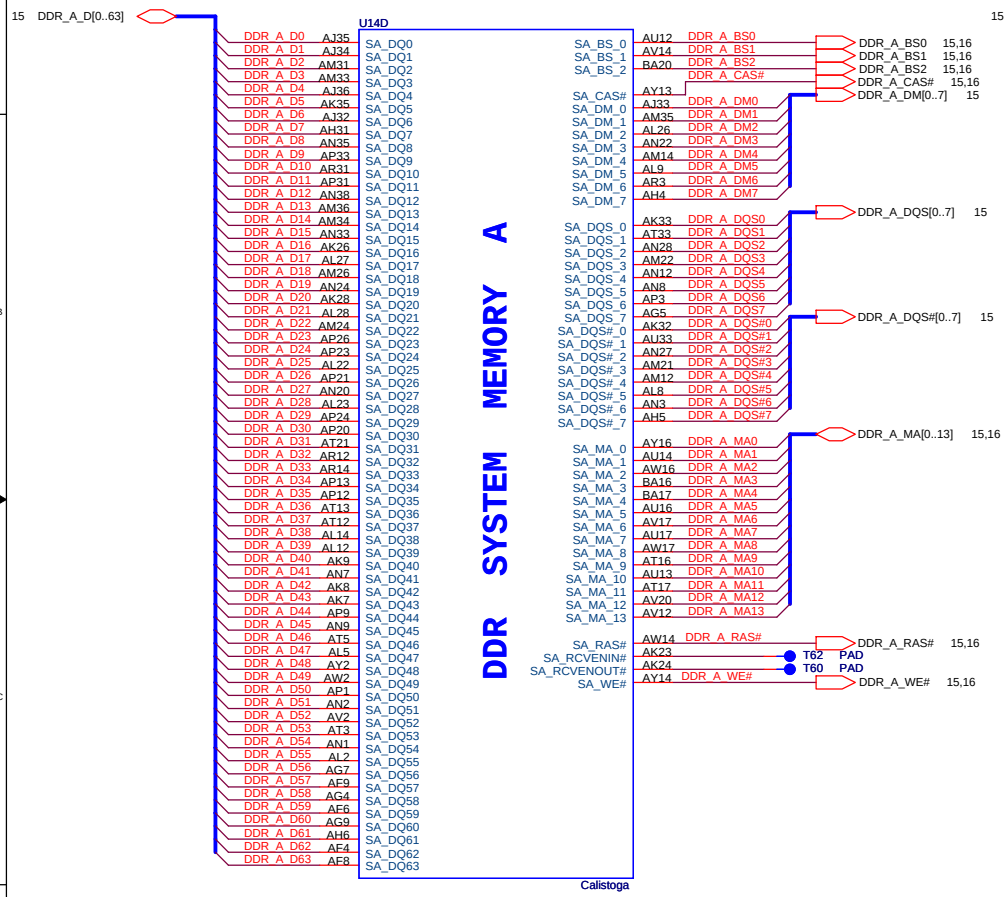
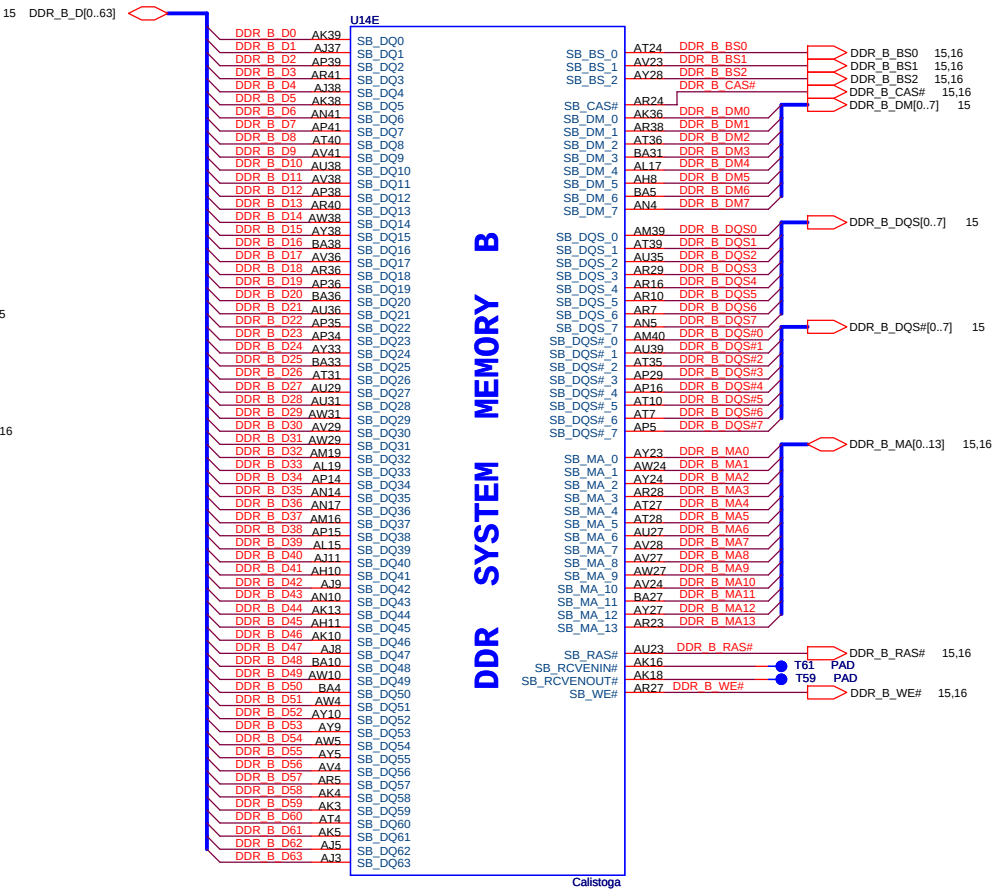


CFG5	Low=DMIx2 High=DMIx4
CFG6	Low=Moby Disk High=Calistoga.
CFG7 CPU_Strap	Low=RSVD High=Mobile CPU
CFG9 PCIE Graphics Lane	Low= Reveise Lane High=Normal operation
CFG10 Host PLL VCC Select	Low=Reserved High=Mobility
CFG11 PSB 4X CLK Enable	Low=Calistoga High=Reserved
CFG[13:12]	00=Reserved. 01=XOR Mode Enable. 11=Normal operation.
CFG16 FSB Dynamic ODT	Low=Dynamic ODT Disable High=Dynamic ODT Enable
CFG18 VCC Select	Low=1.05V High=1.5V
CFG19 DMI Lane Reversal	Low=Normal High=Lane Reversed
CFG20 PCIe Backward Interpoerability mode	Low=Only SDVO or PCIEx1 is operational (defaults) High=SDVO and PCIEx1 are operating simultaneously via PEG port
SDVO_CTRLDATA	Low=No SDVO device present. High=SDVO device present.





QUANTA COMPUTER

Title	Calistoga (DDR2)	
Size	Document Number JM6	Rev 2A
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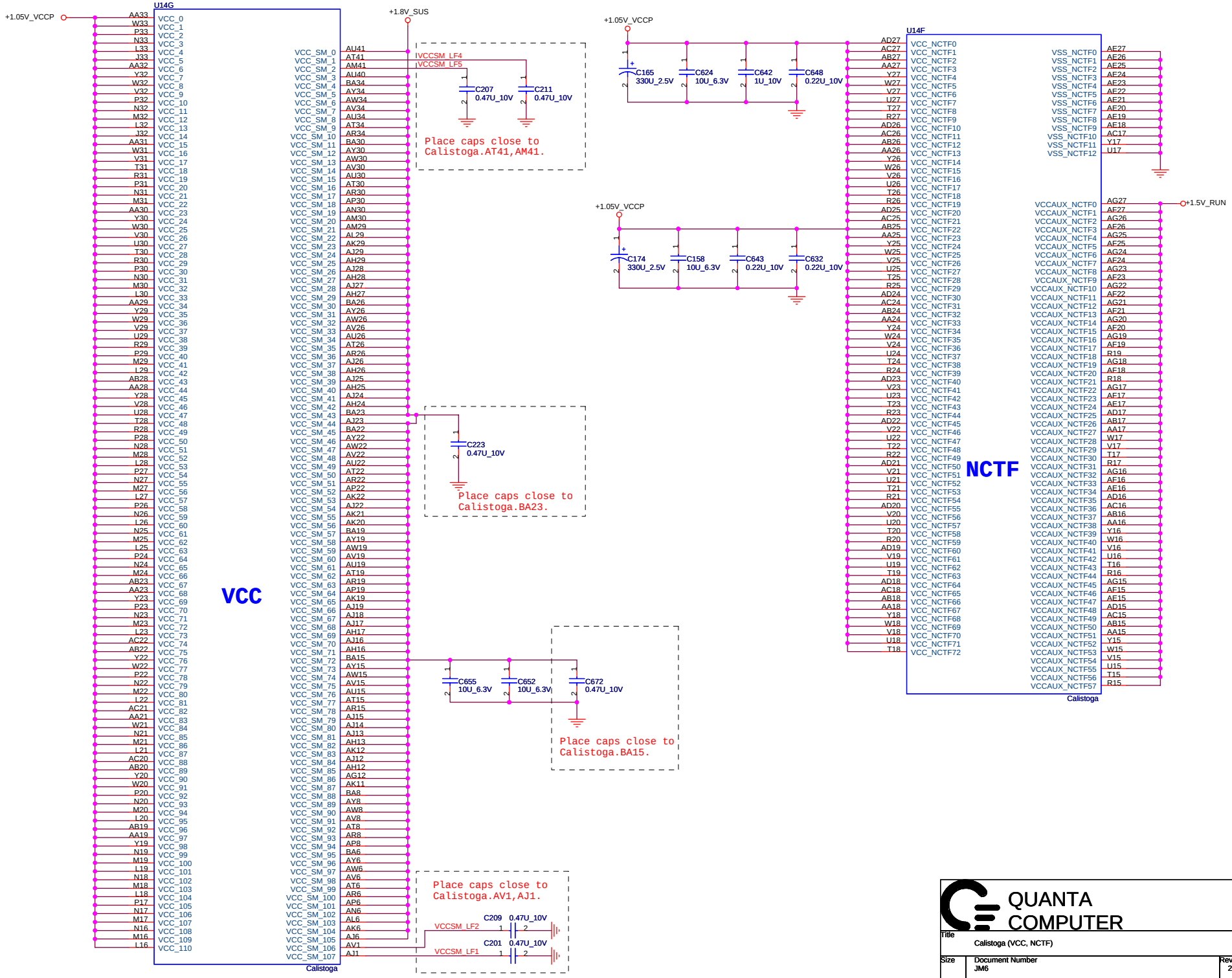

Title	Calistoga (VCC, NCTF)		
Size	Document Number JM6		Rev 2A
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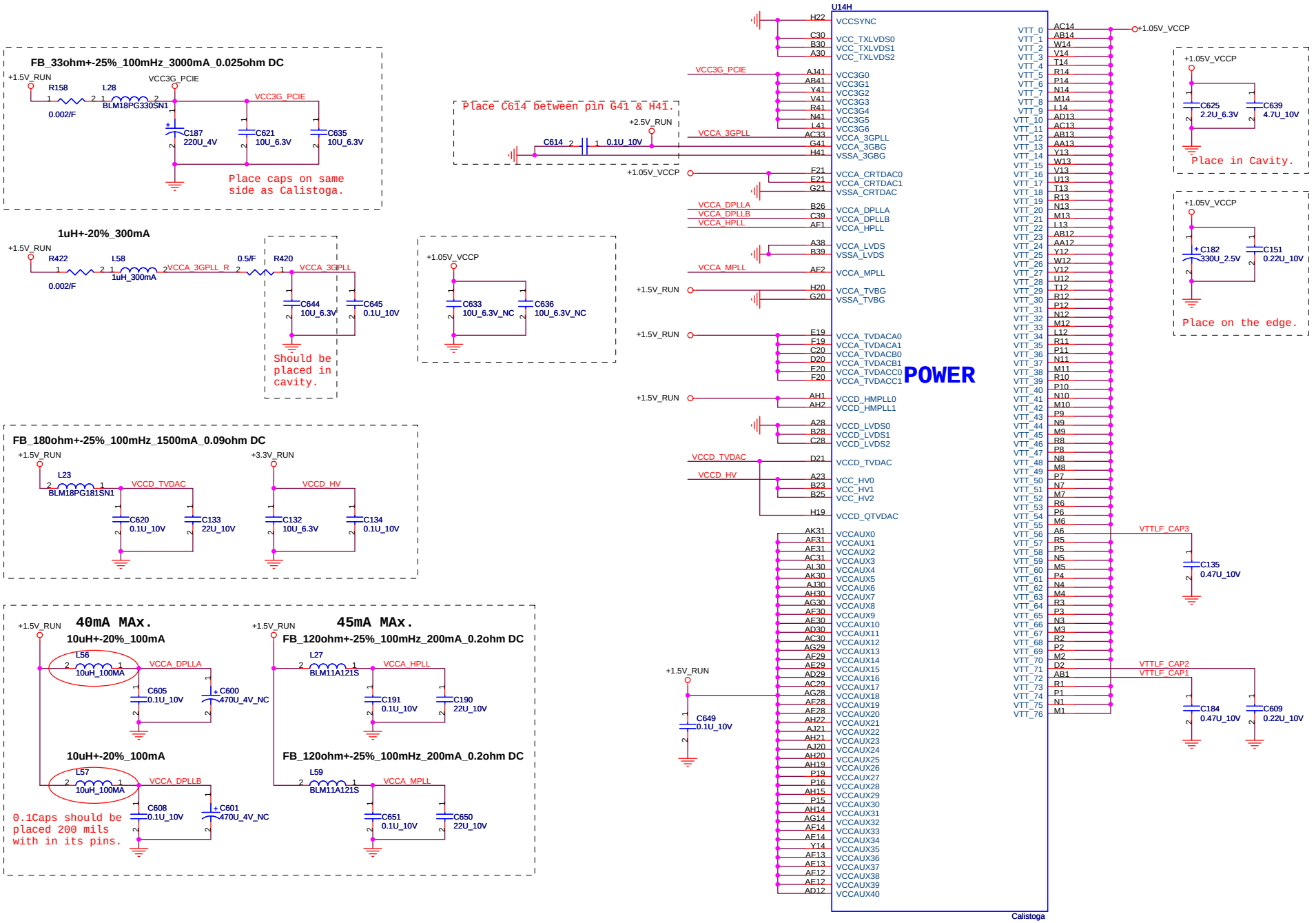
FB_33ohm+-25%_100mHz_3000mA_0.025ohm DC
+1.5V_RUN
R158
0.002/F
L28
BLM18PG330SN1
VCC3G_PCIE
C187
220U_4V
C621
10U_6.3V
C635
10U_6.3V
Place caps on same side as Calistoga.
1uH+-20%_300mA
R422
0.002/F
L58
1uH_300mA
VCCA_3GPLL_R
0.5/F
R420
VCCA_3GPLL
C644
10U_6.3V
C645
0.1U_10V
Should be placed in cavity.
+1.05V_VCCP
C633
10U_6.3V_NC
C636
10U_6.3V_NC
Place C614 between pin G41 & H41.
+2.5V_RUN
C614
0.1U_10V
VCCA_3GPLL
FB_180ohm+-25%_100mHz_1500mA_0.09ohm DC
+1.5V_RUN
L23
BLM18PG181SN1
VCCD_TVDAC
C620
0.1U_10V
C133
22U_10V
+3.3V_RUN
VCCD_HV
C132
10U_6.3V
C134
0.1U_10V
40mA MAx.
10uH+-20%_100mA
L56
10uH_100MA
VCCA_DPLLA
C605
0.1U_10V
C600
470U_4V_NC
10uH+-20%_100mA
L57
10uH_100MA
VCCA_DPLLB
C608
0.1U_10V
C601
470U_4V_NC
0.1Caps should be placed 200 mils with in its pins.
45mA MAx.
FB_120ohm+-25%_100mHz_200mA_0.2ohm DC
L27
BLM11A121S
VCCA_HPLL
C191
0.1U_10V
C190
22U_10V
FB_120ohm+-25%_100mHz_200mA_0.2ohm DC
L59
BLM11A121S
VCCA_MPLL
C651
0.1U_10V
C650
22U_10V
U14H
H22 VCCSYNC
C30 VCC_TXLVDS0
B30 VCC_TXLVDS1
A30 VCC_TXLVDS2
VCC3G_PCIE
AJ41 VCC3G0
AB41 VCC3G1
Y41 VCC3G2
V41 VCC3G3
R41 VCC3G4
N41 VCC3G5
L41 VCC3G6
VCCA_3GPLL
AC33 VCCA_3GPLL
G41 VCCA_3GBG
H41 VSSA_3GBG
+1.05V_VCCP
F21 VCCA_CRTDAC0
E21 VCCA_CRTDAC1
G21 VSSA_CRTDAC
VCCA_DPLLA
VCCA_DPLLB
VCCA_HPLL
B26 VCCA_DPLLA
C39 VCCA_DPLLB
AF1 VCCA_HPLL
A38 VCCA_LVDS
B39 VSSA_LVDS
VCCA_MPLL
AF2 VCCA_MPLL
+1.5V_RUN
H20 VCCA_TVBG
G20 VSSA_TVBG
+1.5V_RUN
E19 VCCA_TVDACA0
F19 VCCA_TVDACA1
C20 VCCA_TVDACB0
D20 VCCA_TVDACB1
E20 VCCA_TVDACC0
F20 VCCA_TVDACC1
POWER
+1.5V_RUN
AH1 VCCD_HMPLL0
AH2 VCCD_HMPLL1
A28 VCCD_LVDS0
B28 VCCD_LVDS1
C28 VCCD_LVDS2
VCCD_TVDAC
D21 VCCD_TVDAC
VCCD_HV
A23 VCC_HV0
B23 VCC_HV1
B25 VCC_HV2
H19 VCCD_QTVDAC
AK31 VCCAUX0
AF31 VCCAUX1
AE31 VCCAUX2
AC31 VCCAUX3
AL30 VCCAUX4
AK30 VCCAUX5
AJ30 VCCAUX6
AH30 VCCAUX7
AG30 VCCAUX8
AF30 VCCAUX9
AE30 VCCAUX10
AD30 VCCAUX11
AC30 VCCAUX12
AG29 VCCAUX13
AF29 VCCAUX14
AE29 VCCAUX15
AD29 VCCAUX16
AC29 VCCAUX17
AG28 VCCAUX18
AF28 VCCAUX19
AE28 VCCAUX20
AH22 VCCAUX21
AJ21 VCCAUX22
AH21 VCCAUX23
AJ20 VCCAUX24
AH20 VCCAUX25
AH19 VCCAUX26
P19 VCCAUX27
P16 VCCAUX28
AH15 VCCAUX29
P15 VCCAUX30
AH14 VCCAUX31
AG14 VCCAUX32
AF14 VCCAUX33
AE14 VCCAUX34
Y14 VCCAUX35
AF13 VCCAUX36
AE13 VCCAUX37
AE12 VCCAUX38
AF12 VCCAUX39
AD12 VCCAUX40
Calistoga
VTT_0 AC14
VTT_1 AB14
VTT_2 W14
VTT_3 V14
VTT_4 T14
VTT_5 R14
VTT_6 P14
VTT_7 N14
VTT_8 M14
VTT_9 L14
VTT_10 AD13
VTT_11 AC13
VTT_12 AB13
VTT_13 AA13
VTT_14 Y13
VTT_15 W13
VTT_16 V13
VTT_17 U13
VTT_18 T13
VTT_19 R13
VTT_20 N13
VTT_21 M13
VTT_22 L13
VTT_23 AB12
VTT_24 AA12
VTT_25 Y12
VTT_26 W12
VTT_27 V12
VTT_28 U12
VTT_29 T12
VTT_30 R12
VTT_31 P12
VTT_32 N12
VTT_33 M12
VTT_34 L12
VTT_35 R11
VTT_36 P11
VTT_37 N11
VTT_38 M11
VTT_39 R10
VTT_40 P10
VTT_41 N10
VTT_42 M10
VTT_43 P9
VTT_44 N9
VTT_45 M9
VTT_46 R8
VTT_47 P8
VTT_48 N8
VTT_49 M8
VTT_50 P7
VTT_51 N7
VTT_52 M7
VTT_53 R6
VTT_54 P6
VTT_55 M6
VTT_56 A6
VTT_57 R5
VTT_58 P5
VTT_59 N5
VTT_60 M5
VTT_61 P4
VTT_62 N4
VTT_63 M4
VTT_64 R3
VTT_65 P3
VTT_66 N3
VTT_67 M3
VTT_68 R2
VTT_69 P2
VTT_70 M2
VTT_71 D2
VTT_72 AB1
VTT_73 R1
VTT_74 P1
VTT_75 N1
VTT_76 M1
+1.05V_VCCP
VTTLF_CAP3
C135
0.47U_10V
VTTLF_CAP2
VTTLF_CAP1
C184
0.47U_10V
C609
0.22U_10V
+1.05V_RUN
C649
0.1U_10V
+1.05V_VCCP
C625
2.2U_6.3V
C639
4.7U_10V
Place in Cavity.
+1.05V_VCCP
C182
330U_2.5V
C151
0.22U_10V
Place on the edge.
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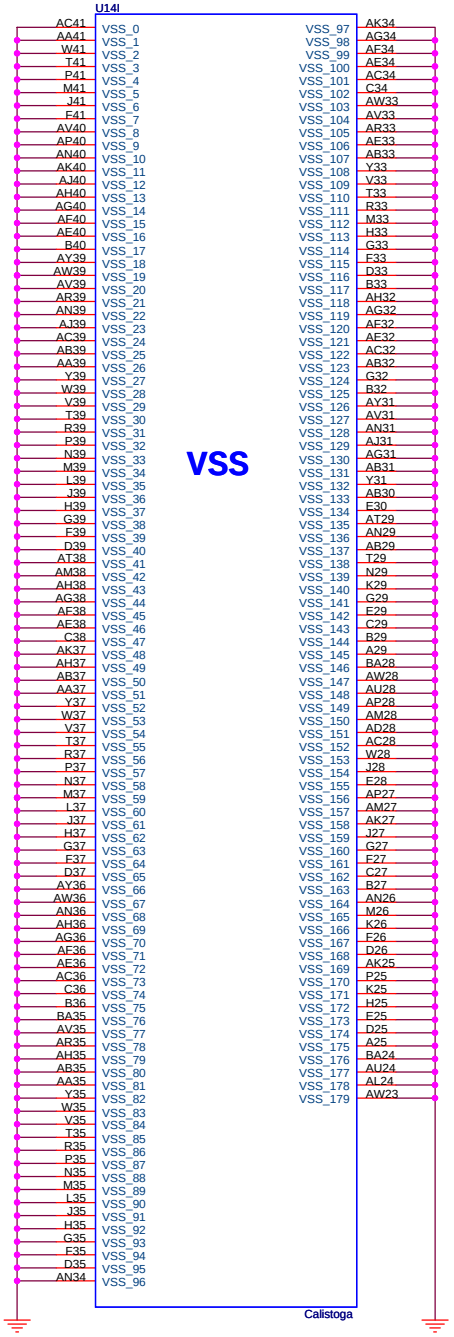

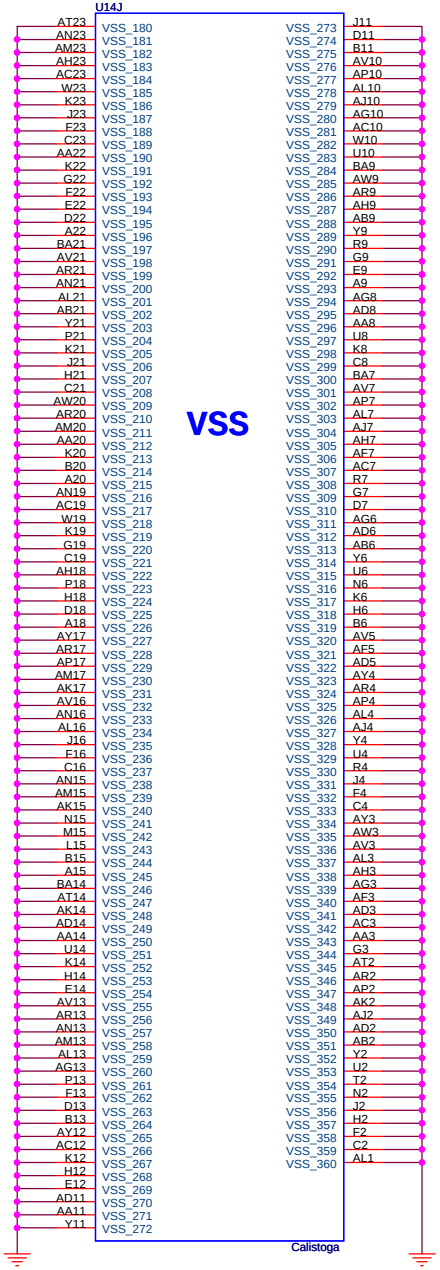

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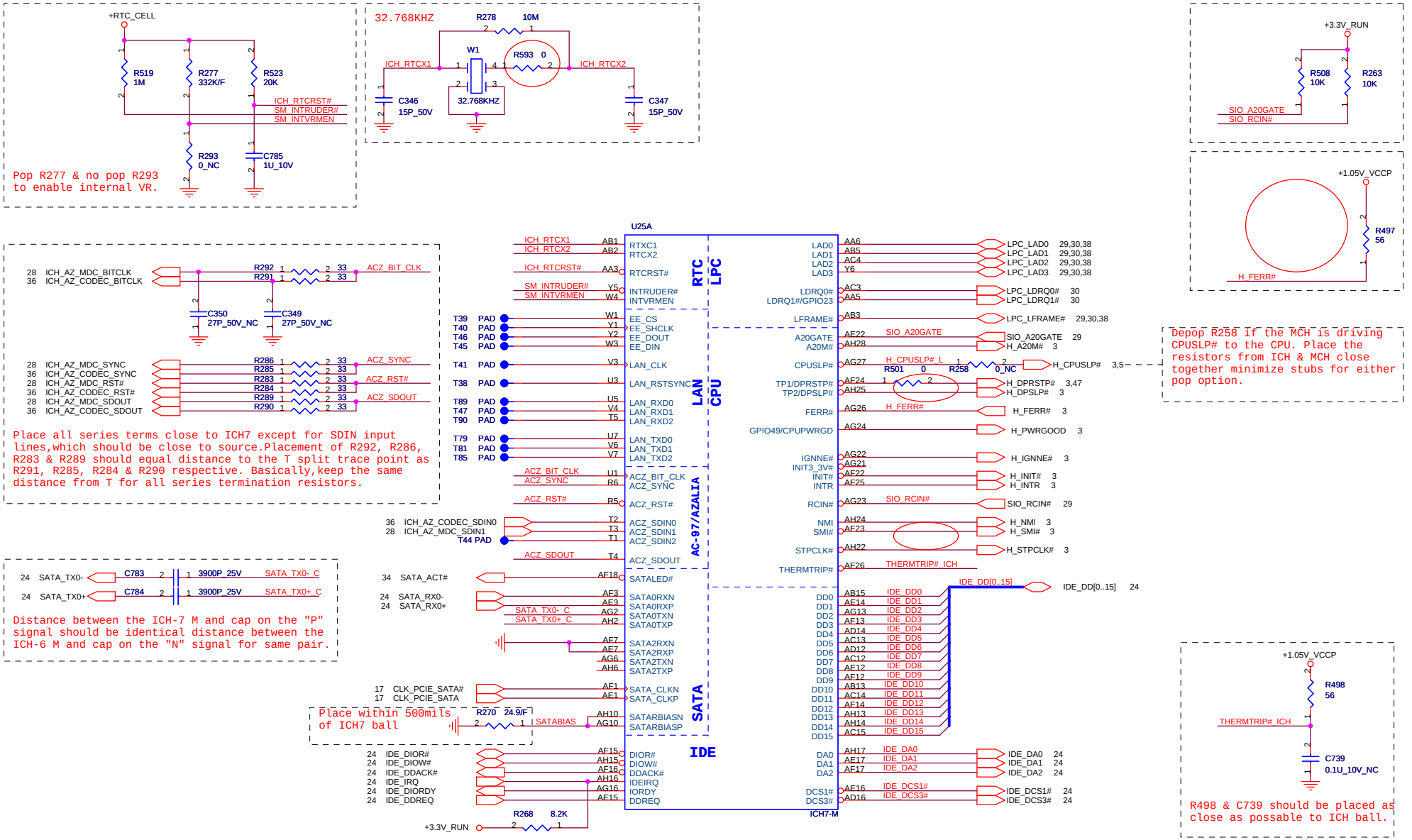

Title	ICH7-M (CPU,IDE,SATA,LPC,AC97)		
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Place TX DC blocking caps close ICH7.

27	PCIE_TX1-	C729	0.1U_10V	PCIE_TXN1_C
27	PCIE_TX1+	C730	0.1U_10V	PCIE_TXP1_C
27	PCIE_TX2-	C731	0.1U_10V	PCIE_TXN2_C
27	PCIE_TX2+	C732	0.1U_10V	PCIE_TXP2_C
38	PCIE_TX3-	C733	0.1U_10V	PCIE_TXN3_C
38	PCIE_TX3+	C734	0.1U_10V	PCIE_TXP3_C
26	PCIE_TX4-	C735	0.1U_10V	PCIE_TXN4_C
26	PCIE_TX4+	C736	0.1U_10V	PCIE_TXP4_C

MiniWWAN / MiniWLAN / Giga Bit LOM / Express Card

U25D — PCI-Express Direct Media Interface

27 PCIE_RX1-	F26 PERn1	PCIE_TXN1_C	
27 PCIE_RX1+	F25 PERp1	PCIE_TXP1_C	
	E28 PETn1		
	E27 PETp1		
27 PCIE_RX2-	H26 PERn2	PCIE_TXN2_C	
27 PCIE_RX2+	H25 PERp2	PCIE_TXP2_C	
	G28 PETn2		
	G27 PETp2		
38 PCIE_RX3-	K26 PERn3	PCIE_TXN3_C	
38 PCIE_RX3+	K25 PERp3	PCIE_TXP3_C	
	J28 PETn3		
	J27 PETp3		
26 PCIE_RX4-	M26 PERn4	PCIE_TXN4_C	
26 PCIE_RX4+	M25 PERp4	PCIE_TXP4_C	
	L28 PETn4		
	L27 PETp4		

DMI0RXN	V26	DMI_MTX_IRX_N0 6
DMI0RXP	V25	DMI_MTX_IRX_P0 6
DMI0TXN	U28	DMI_MRX_ITX_N0 6
DMI0TXP	U27	DMI_MRX_ITX_P0 6
DMI1RXN	Y26	DMI_MTX_IRX_N1 6
DMI1RXP	Y25	DMI_MTX_IRX_P1 6
DMI1TXN	W28	DMI_MRX_ITX_N1 6
DMI1TXP	W27	DMI_MRX_ITX_P1 6
DMI2RXN	AB26	DMI_MTX_IRX_N2 6
DMI2RXP	AB25	DMI_MTX_IRX_P2 6
DMI2TXN	AA28	DMI_MRX_ITX_N2 6
DMI2TXP	AA27	DMI_MRX_ITX_P2 6
DMI3RXN	AD25	DMI_MTX_IRX_N3 6
DMI3RXP	AD24	DMI_MTX_IRX_P3 6
DMI3TXN	AC28	DMI_MRX_ITX_N3 6
DMI3TXP	AC27	DMI_MRX_ITX_P3 6
DMI_CLKN	AE28	CLK_PCIE_ICH# 17
DMI_CLKP	AE27	CLK_PCIE_ICH 17
DMI_ZCOMP	C25	
DMI_IRCOMP	D25	DMI_COMP

R500 24.9/F — +1.5V_RUN — Place within 500mils of ICH7

Place series terms close to source.

+3.3V_SUS — R515 10K, R281 10K, R287 10K

29 ICH_EC_SPI_CLK	R288 47	R2	SPI_CLK
29,32 SPI_CS#		P6	SPI_CS#
		P1	SPI_ARB
29 ICH_EC_SPI_DO	R282 47	P5	SPI_MOSI
29 ICH_EC_SPI_DIN		P2	SPI_MISO

SPI

USB

F1	USBP0N	USBP0-	26
F2	USBP0P	USBP0+	26
G4	USBP1N	USBP1-	30
G3	USBP1P	USBP1+	30
H1	USBP2N	USBP2-	26
H2	USBP2P	USBP2+	26
J4	USBP3N	USBP3-	31
J3	USBP3P	USBP3+	31
K1	USBP4N	USBP4-	31
K2	USBP4P	USBP4+	31
L4	USBP5N	USBP5-	31
L5	USBP5P	USBP5+	31
M1	USBP6N	USBP6-	31
M2	USBP6P	USBP6+	31
N4	USBP7N	USBP7-	41
N3	USBP7P	USBP7+	41

Express Card
ECE_USB[0]
SmartCard
Ext Side Top
Ext Side Bottom
Power USB
Ext Back Bottom
Dock

31 USB_OC3_4#	D3	OC0#	
	C4	OC1#	
	D5	OC2#	
USB_OC3_4#	D4	OC3#	
	E5	OC4#	
31 USB_OC5_6#	C3	OC5#/GPIO29	
	A2	OC6#/GPIO30	
OC7#	B3	OC7#/GPIO31	

USBRBIAS# D2 — USBRBIAS D1 — R280 22.6/F

Short D2 and D1 at the package and keep length to less than 500mils. Trace Impedance should be 60ohms +/- 15%.

ICH7-M

RP22 — 10P8R-10K — +3.3V_SUS — USB_OC3_4# OC0# OC2# OC1# — USB_OC5_6# OC7#

PCI Pullups

RP21 — 10P8R-8.2K — +3.3V_RUN — PCI_PLOCK# PCI_REQ5# — PCI_REQ4# PCI_DEVSEL# PCI_SERR# PCI_PERR#

RP52 — 10P8R-8.2K — +3.3V_RUN — ICH_GPIO2_PIRQE# ICH_GPIO4_PIRQG# ICH_GPIO5_PIRQH# ICH_GPIO3_PIRQF# — PCI_FRAME# PCI_TRDY# PCI_STOP# PCI_REQ3#

RP20 — 10P8R-8.2K — +3.3V_RUN — PCI_PIRQD# PCI_REQ0# PCI_IRDY# PCI_REQ2# — PCI_PIRQC# PCI_PIRQB# PCI_PIRQA# PCI_REQ1#

U25B — PCI

PCI_AD0	E18 AD0	REQ0#	D7 PCI_REQ0# — PCI_REQ0# 41
PCI_AD1	C18 AD1	GNT0#	E7 PCI_GNT0# — PCI_GNT0# 40
PCI_AD2	A16 AD2	REQ1#	C16 PCI_REQ1# — PCI_REQ1# 25
PCI_AD3	F18 AD3	GNT1#	D16 PCI_GNT1# — PCI_GNT1# 25
PCI_AD4	E16 AD4	REQ2#	C17 PCI_REQ2#
PCI_AD5	A18 AD5	GNT2#	D17 PCI_GNT2# — PAD T77
PCI_AD6	E17 AD6	REQ3#	E13 PCI_REQ3#
PCI_AD7	A17 AD7	GNT3#	F13 PCI_GNT3# — PAD T78
PCI_AD8	A15 AD8	REQ4#/GPIO22	A13 PCI_REQ4#
PCI_AD9	C14 AD9	GNT4#/GPIO48	A14 PCI_GNT4# — PCI_GNT4#
PCI_AD10	E14 AD10	GPIO1/REQ5#	C8 PCI_REQ5#
PCI_AD11	D14 AD11	GPIO17/GNT5#	D8 PCI_GNT5# — PCI_GNT5#
PCI_AD12	B12 AD12		
PCI_AD13	C13 AD13	C/BE0#	B15 PCI_C_BE0# — PCI_C_BE0# 25,40
PCI_AD14	G15 AD14	C/BE1#	C12 PCI_C_BE1# — PCI_C_BE1# 25,40
PCI_AD15	G13 AD15	C/BE2#	D12 PCI_C_BE2# — PCI_C_BE2# 25,40
PCI_AD16	E12 AD16	C/BE3#	C15 PCI_C_BE3# — PCI_C_BE3# 25,40
PCI_AD17	C11 AD17		
PCI_AD18	D11 AD18	IRDY#	A7 PCI_IRDY# — PCI_IRDY# 25,40
PCI_AD19	A11 AD19	PAR	E10 PCI_PAR — PCI_PAR 25,40
PCI_AD20	A10 AD20	PCIRST#	B18 PCI_RST# G
PCI_AD21	F11 AD21	DEVSEL#	A12 PCI_DEVSEL# — PCI_DEVSEL# 25,40
PCI_AD22	F10 AD22	PERR#	C9 PCI_PERR# — PCI_PERR# 25,40
PCI_AD23	E9 AD23	PLOCK#	E11 PCI_PLOCK# — PCI_PLOCK# 40
PCI_AD24	D9 AD24	SERR#	B10 PCI_SERR# — PCI_SERR# 25,40
PCI_AD25	B9 AD25	STOP#	F15 PCI_STOP# — PCI_STOP# 25,40
PCI_AD26	A8 AD26	TRDY#	F14 PCI_TRDY# — PCI_TRDY# 25,40
PCI_AD27	A6 AD27	FRAME#	E16 PCI_FRAME# — PCI_FRAME# 25,40
PCI_AD28	C7 AD28		
PCI_AD29	B6 AD29	PLTRST#	C26 PCI_PLTRST#
PCI_AD30	E6 AD30	PCICLK	A9 CLK_PCI_ICH — CLK_PCI_ICH 17
PCI_AD31	D6 AD31	PME#	B19 ICH_PME# — ICH_PME# 30

25,40 PCI_AD[0..31]

R513 1K — R269 1K_NC

		GNT5#	GNT4#
LPC	11	No stuff	No stuff
PCI	10	No stuff	Stuff
SPI	01	Stuff	No stuff

Interrupt I/F

40 PCI_PIRQA# — T34 PAD	PCI_PIRQA# A3	PIRQA#	GPIO2/PIRQE# — ICH_GPIO2_PIRQE# G8
T35 PAD	PCI_PIRQB# B4	PIRQB#	GPIO3/PIRQF# — ICH_GPIO3_PIRQF# F7
25 PCI_PIRQD#	PCI_PIRQC# C5	PIRQC#	GPIO4/PIRQG# — ICH_GPIO4_PIRQG# F8
	PCI_PIRQD# B5	PIRQD#	GPIO5/PIRQH# — ICH_GPIO5_PIRQH# G7

MISC

T88 PAD	AE5 RSVD[1]	RSVD[6]	AE9 — PAD T80
T87 PAD	AD5 RSVD[2]	RSVD[7]	AG8 — PAD T84
T37 PAD	AG4 RSVD[3]	RSVD[8]	AH8
T36 PAD	AH4 RSVD[4]	RSVD[9]	F21
T83 PAD	AD9 RSVD[5]	MCH_SYNC#	AH20 — MCH_ICH_SYNC# 6

ICH7-M

DOCK	REQ0	GNT0	PIRQA
Cardbus or Cardbus/1394	REQ1	GNT1	PIRQD
1394/MediaCard	REQ2	GNT2	PIRQC PIRQD
LOM(4401)	REQ3	GNT3	PIRQB

CLK_PCI_ICH — R512 10_NC — C761 8.2P_16V_NC

Reserved for EMI. Place resister and cap close to ICH.

Add Buffers as needed for Loading and fanout concerns.

+3.3V_SUS — C337 0.047U_10V — U24 7SH32 — PCI_RST# G — PCI_RST# 25,26,40

+3.3V_SUS — C336 0.047U_10V — U23 7SH32 — PCI_PLTRST# — PLTRST# 6,13,26,27,29,30,38

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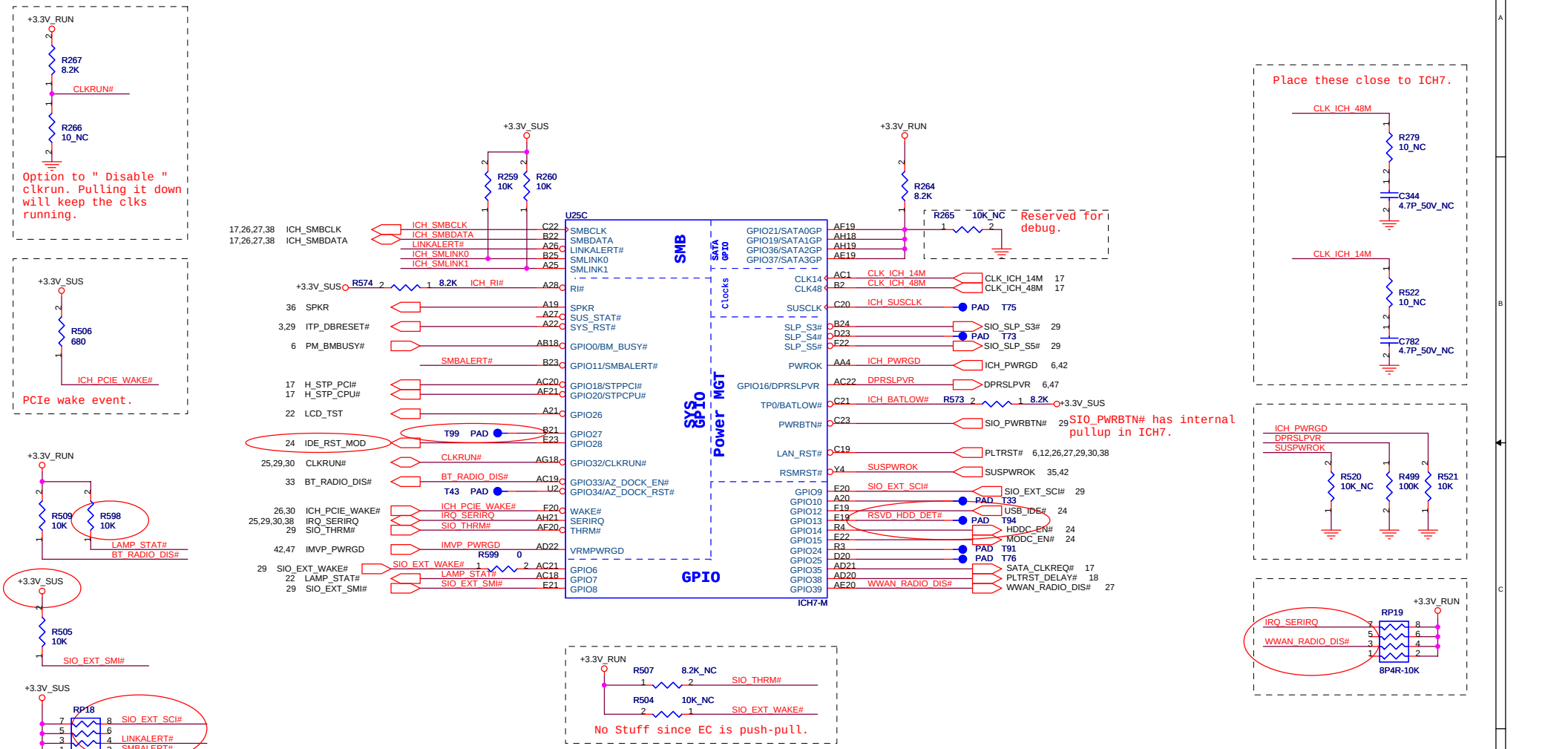

QUANTA COMPUTER

Title	ICH7-M (PM,GPIO,SMB)	
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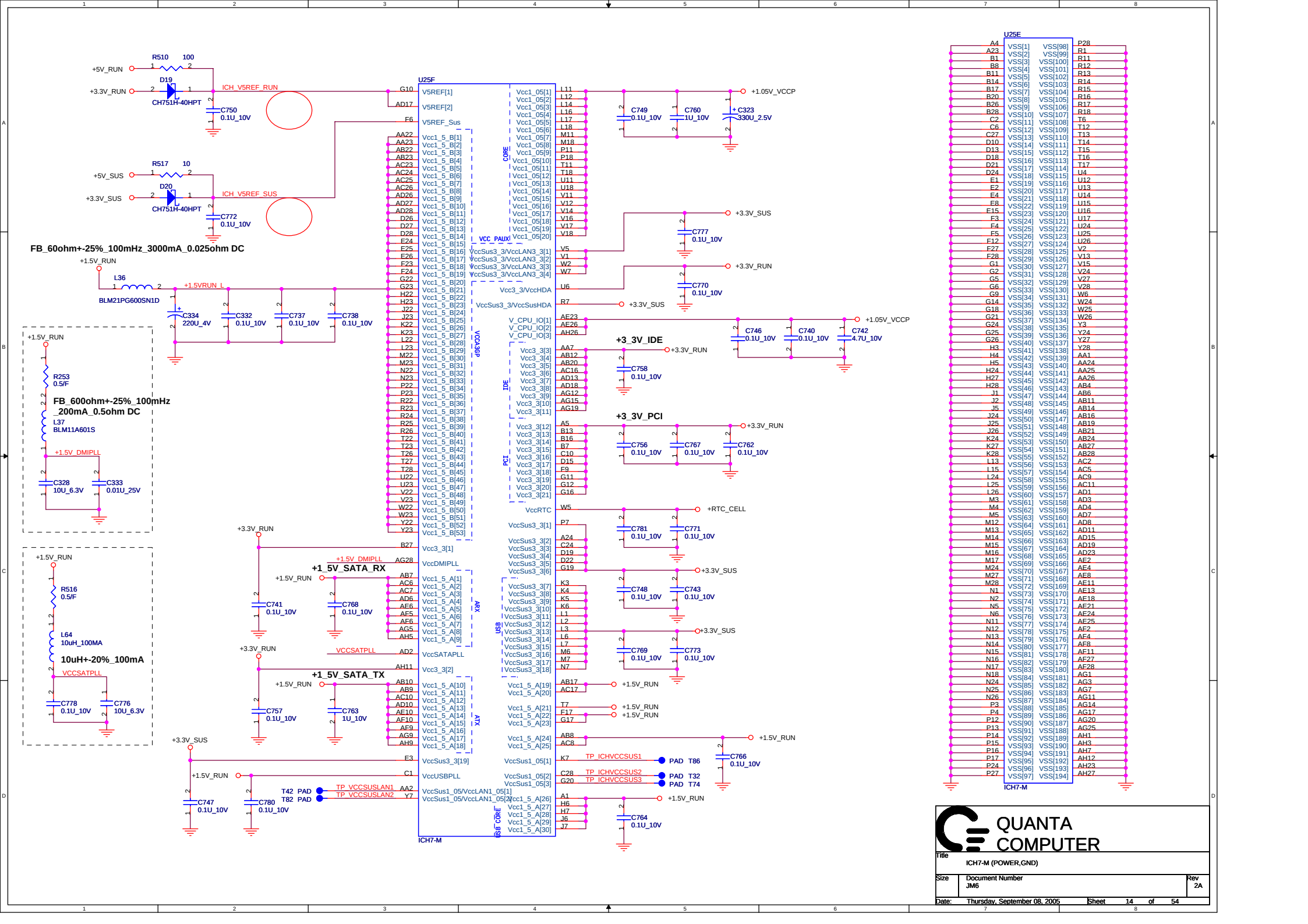
R510 100
+5V_RUN
+3.3V_RUN
D19
CH751H-40HPT
ICH_V5REF_RUN
C750 0.1U_10V
R517 10
+5V_SUS
+3.3V_SUS
D20
CH751H-40HPT
ICH_V5REF_SUS
C772 0.1U_10V
FB_60ohm+-25%_100mHz_3000mA_0.025ohm DC
+1.5V_RUN
L36
BLM21PG600SN1D
+1.5VRUN_L
C334 220U_4V
C332 0.1U_10V
C737 0.1U_10V
C738 0.1U_10V
R253 0.5/F
FB_600ohm+-25%_100mHz _200mA_0.5ohm DC
L37
BLM11A601S
+1.5V_DMIPLL
C328 10U_6.3V
C333 0.01U_25V
R516 0.5/F
L64
10uH_100MA
10uH+-20%_100mA
VCCSATPLL
C778 0.1U_10V
C776 10U_6.3V
U25F
ICH7-M
V5REF[1]
V5REF[2]
V5REF_Sus
VccSus3_3/VccLAN3_1]
VccSus3_3/VccLAN3_2]
VccSus3_3/VccLAN3_3]
VccSus3_3/VccLAN3_4]
Vcc3_3/VccHDA
VccSus3_3/VccSusHDA
VccRTC
VccDMIPLL
VccSATAPLL
VccUSBPLL
VccSus3_3[19]
VccSus1_05/VccLAN1_05[1]
VccSus1_05/VccLAN1_05[2]
CORE
VCC_PAUX
VCCA3GP
IDE
PCI
USB
ARX
ATX
+3.3V_RUN
+1.5V_DMIPLL
+1_5V_SATA_RX
C741 0.1U_10V
C768 0.1U_10V
VCCSATPLL
+1_5V_SATA_TX
C757 0.1U_10V
C763 1U_10V
+3.3V_SUS
C747 0.1U_10V
C780 0.1U_10V
T42 PAD
T82 PAD
TP_VCCSUSLAN1
TP_VCCSUSLAN2
+1.05V_VCCP
C749 0.1U_10V
C760 1U_10V
C323 330U_2.5V
C777 0.1U_10V
C770 0.1U_10V
C746 0.1U_10V
C740 0.1U_10V
C742 4.7U_10V
+3_3V_IDE
C758 0.1U_10V
+3_3V_PCI
C756 0.1U_10V
C767 0.1U_10V
C762 0.1U_10V
+RTC_CELL
C781 0.1U_10V
C771 0.1U_10V
C748 0.1U_10V
C743 0.1U_10V
C769 0.1U_10V
C773 0.1U_10V
C764 0.1U_10V
C766 0.1U_10V
TP_ICHVCCSUS1
TP_ICHVCCSUS2
TP_ICHVCCSUS3
PAD T86
PAD T32
PAD T74
U25E
ICH7-M
VSS[1] VSS[2] VSS[3] VSS[4] VSS[5] VSS[6] VSS[7] VSS[8] VSS[9] VSS[10] VSS[11] VSS[12] VSS[13] VSS[14] VSS[15] VSS[16] VSS[17] VSS[18] VSS[19] VSS[20] VSS[21] VSS[22] VSS[23] VSS[24] VSS[25] VSS[26] VSS[27] VSS[28] VSS[29] VSS[30] VSS[31] VSS[32] VSS[33] VSS[34] VSS[35] VSS[36] VSS[37] VSS[38] VSS[39] VSS[40] VSS[41] VSS[42] VSS[43] VSS[44] VSS[45] VSS[46] VSS[47] VSS[48] VSS[49] VSS[50] VSS[51] VSS[52] VSS[53] VSS[54] VSS[55] VSS[56] VSS[57] VSS[58] VSS[59] VSS[60] VSS[61] VSS[62] VSS[63] VSS[64] VSS[65] VSS[66] VSS[67] VSS[68] VSS[69] VSS[70] VSS[71] VSS[72] VSS[73] VSS[74] VSS[75] VSS[76] VSS[77] VSS[78] VSS[79] VSS[80] VSS[81] VSS[82] VSS[83] VSS[84] VSS[85] VSS[86] VSS[87] VSS[88] VSS[89] VSS[90] VSS[91] VSS[92] VSS[93] VSS[94] VSS[95] VSS[96] VSS[97] VSS[98] VSS[99] VSS[100] VSS[101] VSS[102] VSS[103] VSS[104] VSS[105] VSS[106] VSS[107] VSS[108] VSS[109] VSS[110] VSS[111] VSS[112] VSS[113] VSS[114] VSS[115] VSS[116] VSS[117] VSS[118] VSS[119] VSS[120] VSS[121] VSS[122] VSS[123] VSS[124] VSS[125] VSS[126] VSS[127] VSS[128] VSS[129] VSS[130] VSS[131] VSS[132] VSS[133] VSS[134] VSS[135] VSS[136] VSS[137] VSS[138] VSS[139] VSS[140] VSS[141] VSS[142] VSS[143] VSS[144] VSS[145] VSS[146] VSS[147] VSS[148] VSS[149] VSS[150] VSS[151] VSS[152] VSS[153] VSS[154] VSS[155] VSS[156] VSS[157] VSS[158] VSS[159] VSS[160] VSS[161] VSS[162] VSS[163] VSS[164] VSS[165] VSS[166] VSS[167] VSS[168] VSS[169] VSS[170] VSS[171] VSS[172] VSS[173] VSS[174] VSS[175] VSS[176] VSS[177] VSS[178] VSS[179] VSS[180] VSS[181] VSS[182] VSS[183] VSS[184] VSS[185] VSS[186] VSS[187] VSS[188] VSS[189] VSS[190] VSS[191] VSS[192] VSS[193] VSS[194]
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BOT

JDIM2

PC4800 DDR2 SDRAM SO-DIMM (200P)

FOX_AS0A426-M2SN-7F

SMbus address A0

CLOCK 0,1
CKE 0,1

TOP

JDIM1

PC4800 DDR2 SDRAM SO-DIMM (200P)

TYC_1775804-2

SMbus address A4

CLOCK 2,3
CKE 2,3

Place these Caps near So-Dimm1.

Place these Caps near So-Dimm2.

Place these Caps near So-Dimm1.

Place these Caps near So-Dimm2.

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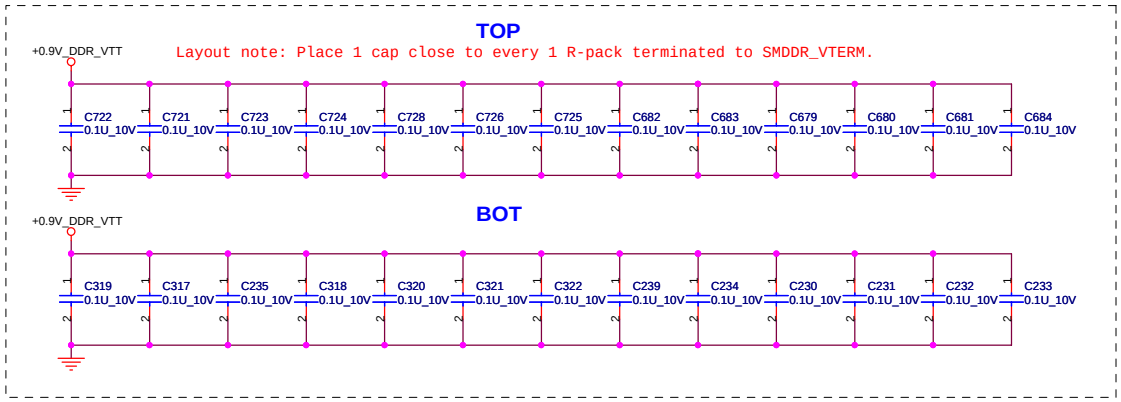
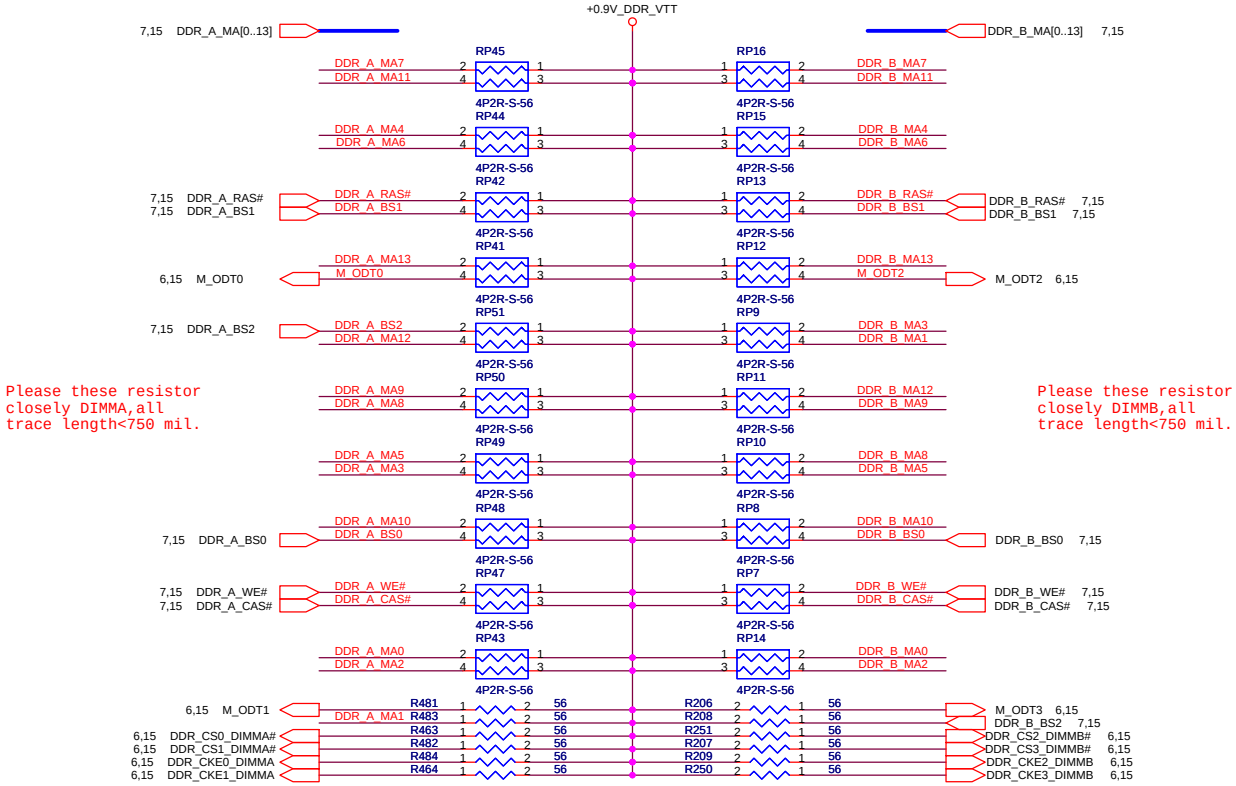
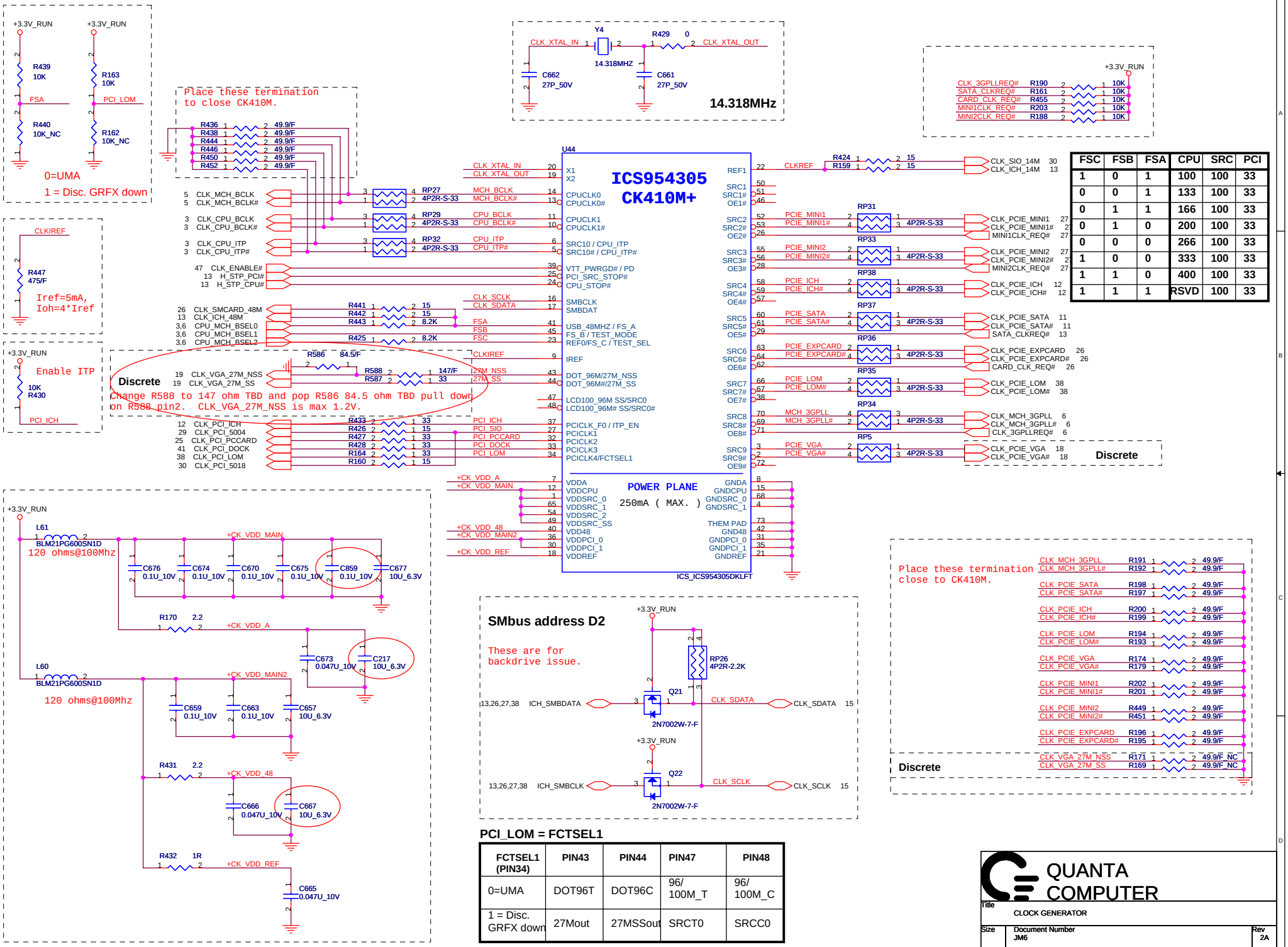




QUANTA COMPUTER

Title	DDR2 RES.ARRAY	
Size	Document Number JM6	Rev 2A
Date: Thursday, September 08, 2005	Sheet 16 of 54	



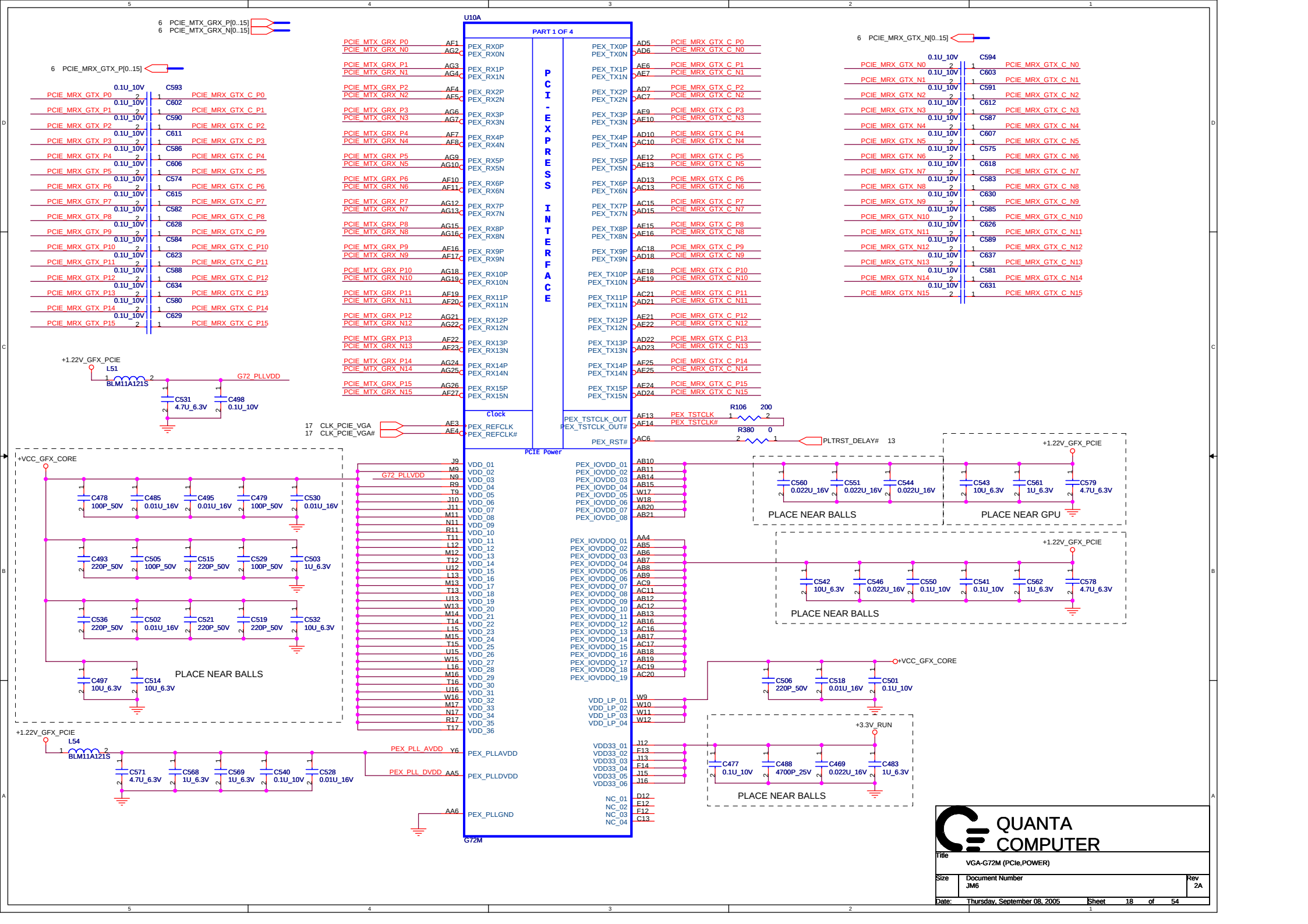
FSC	FSB	FSA	CPU	SRC	PCI
1	0	1	100	100	33
0	0	1	133	100	33
0	1	1	166	100	33
0	1	0	200	100	33
0	0	0	266	100	33
1	0	0	333	100	33
1	1	0	400	100	33
1	1	1	RSVD	100	33

PCI_LOM = FCTSEL1

FCTSEL1 (PIN34)	PIN43	PIN44	PIN47	PIN48
0=UMA	DOT96T	DOT96C	96/ 100M_T	96/ 100M_C
1 = Disc. GRFX down	27Mout	27MSSout	SRCT0	SRCC0

QUANTA COMPUTER

Title	CLOCK GENERATOR	
Size	Document Number JM6	Rev 2A
Date: Thursday, September 08, 2005	Sheet 17 of 54	


U10A
PART 1 OF 4
PCI-EXPRESS INTERFACE
PEX_RX0P
PEX_RX0N
PEX_RX1P
PEX_RX1N
PEX_RX2P
PEX_RX2N
PEX_RX3P
PEX_RX3N
PEX_RX4P
PEX_RX4N
PEX_RX5P
PEX_RX5N
PEX_RX6P
PEX_RX6N
PEX_RX7P
PEX_RX7N
PEX_RX8P
PEX_RX8N
PEX_RX9P
PEX_RX9N
PEX_RX10P
PEX_RX10N
PEX_RX11P
PEX_RX11N
PEX_RX12P
PEX_RX12N
PEX_RX13P
PEX_RX13N
PEX_RX14P
PEX_RX14N
PEX_RX15P
PEX_RX15N
PEX_TX0P
PEX_TX0N
PEX_TX1P
PEX_TX1N
PEX_TX2P
PEX_TX2N
PEX_TX3P
PEX_TX3N
PEX_TX4P
PEX_TX4N
PEX_TX5P
PEX_TX5N
PEX_TX6P
PEX_TX6N
PEX_TX7P
PEX_TX7N
PEX_TX8P
PEX_TX8N
PEX_TX9P
PEX_TX9N
PEX_TX10P
PEX_TX10N
PEX_TX11P
PEX_TX11N
PEX_TX12P
PEX_TX12N
PEX_TX13P
PEX_TX13N
PEX_TX14P
PEX_TX14N
PEX_TX15P
PEX_TX15N
Clock
PEX_REFCLK
PEX_REFCLK#
PEX_TSTCLK_OUT
PEX_TSTCLK_OUT#
PEX_RST#
PEX_TSTCLK
PEX_TSTCLK#
PCIE Power
PEX_IOVDD_01
PEX_IOVDD_02
PEX_IOVDD_03
PEX_IOVDD_04
PEX_IOVDD_05
PEX_IOVDD_06
PEX_IOVDD_07
PEX_IOVDD_08
PEX_IOVDDQ_01
PEX_IOVDDQ_02
PEX_IOVDDQ_03
PEX_IOVDDQ_04
PEX_IOVDDQ_05
PEX_IOVDDQ_06
PEX_IOVDDQ_07
PEX_IOVDDQ_08
PEX_IOVDDQ_09
PEX_IOVDDQ_10
PEX_IOVDDQ_11
PEX_IOVDDQ_12
PEX_IOVDDQ_13
PEX_IOVDDQ_14
PEX_IOVDDQ_15
PEX_IOVDDQ_16
PEX_IOVDDQ_17
PEX_IOVDDQ_18
PEX_IOVDDQ_19
VDD_LP_01
VDD_LP_02
VDD_LP_03
VDD_LP_04
VDD33_01
VDD33_02
VDD33_03
VDD33_04
VDD33_05
VDD33_06
NC_01
NC_02
NC_03
NC_04
VDD_01
VDD_02
VDD_03
VDD_04
VDD_05
VDD_06
VDD_07
VDD_08
VDD_09
VDD_10
VDD_11
VDD_12
VDD_13
VDD_14
VDD_15
VDD_16
VDD_17
VDD_18
VDD_19
VDD_20
VDD_21
VDD_22
VDD_23
VDD_24
VDD_25
VDD_26
VDD_27
VDD_28
VDD_29
VDD_30
VDD_31
VDD_32
VDD_33
VDD_34
VDD_35
VDD_36
PEX_PLLAVDD
PEX_PLLDVDD
PEX_PLLGND
G72M
6 PCIE_MTX_GRX_P[0..15]
6 PCIE_MTX_GRX_N[0..15]
6 PCIE_MRX_GTX_P[0..15]
6 PCIE_MRX_GTX_N[0..15]
17 CLK_PCIE_VGA
17 CLK_PCIE_VGA#
PLTRST_DELAY# 13
+1.22V_GFX_PCIE
+VCC_GFX_CORE
+3.3V_RUN
L51 BLM11A121S
L54 BLM11A121S
G72_PLLVDD
PEX_PLL_AVDD
PEX_PLL_DVDD
R106 200
R380 0
PLACE NEAR BALLS
PLACE NEAR GPU
QUANTA COMPUTER
Title
VGA-G72M (PCIe,POWER)
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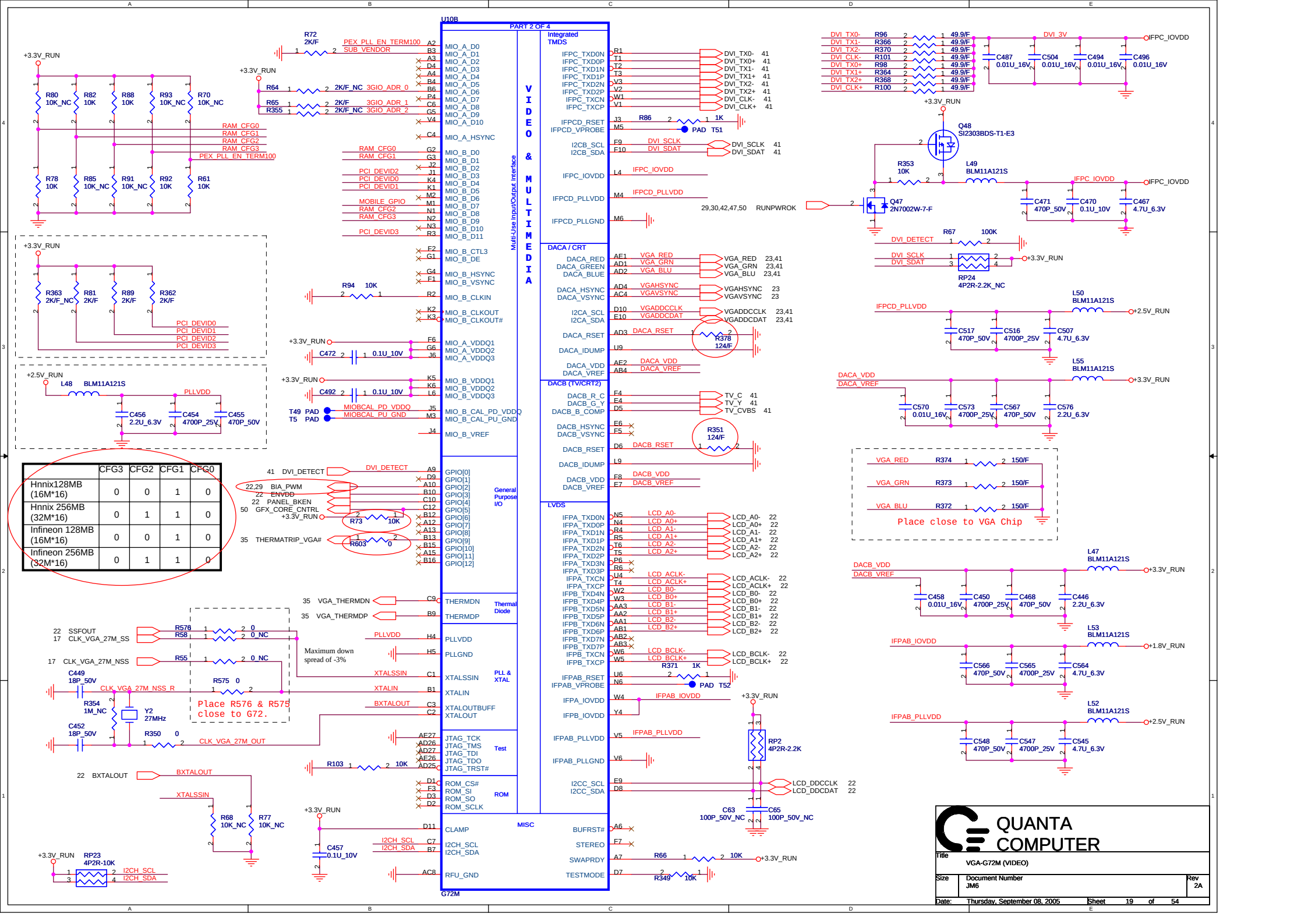

	CFG3	CFG2	CFG1	CFG0
Hnnix128MB (16M*16)	0	0	1	0
Hnnix 256MB (32M*16)	0	1	1	0
Infineon 128MB (16M*16)	0	0	1	0
Infineon 256MB (32M*16)	0	1	1	0

FB_CMD[0..26] 21
FBD[0..63] 21
FBDQM[0..7] 21
FBDQS[0..7] 21
FBDQS#[0..7] 21

U10C

Part 3 of 4

MEMORY INTERFACE

G72M

FBD0	A26	FB_DQ0	FB_CMD0	G27	FB_CMD0
FBD1	C24	FB_DQ1	FB_CMD1	D25	FB_CMD1
FBD2	B24	FB_DQ2	FB_CMD2	F26	FB_CMD2
FBD3	A24	FB_DQ3	FB_CMD3	E25	FB_CMD3
FBD4	C22	FB_DQ4	FB_CMD4	G25	FB_CMD4
FBD5	A25	FB_DQ5	FB_CMD5	J25	FB_CMD5
FBD6	B25	FB_DQ6	FB_CMD6	J27	FB_CMD6
FBD7	D23	FB_DQ7	FB_CMD7	M26	FB_CMD7
FBD8	G22	FB_DQ8	FB_CMD8	C27	FB_CMD8
FBD9	J23	FB_DQ9	FB_CMD9	C25	FB_CMD9
FBD10	E24	FB_DQ10	FB_CMD10	D24	FB_CMD10
FBD11	F23	FB_DQ11	FB_CMD11	N27	FB_CMD11
FBD12	J24	FB_DQ12	FB_CMD12	G24	FB_CMD12
FBD13	F24	FB_DQ13	FB_CMD13	J26	FB_CMD13
FBD14	G23	FB_DQ14	FB_CMD14	M27	FB_CMD14
FBD15	H24	FB_DQ15	FB_CMD15	C26	FB_CMD15
FBD16	D16	FB_DQ16	FB_CMD16	M25	FB_CMD16
FBD17	E16	FB_DQ17	FB_CMD17	D26	FB_CMD17
FBD18	D17	FB_DQ18	FB_CMD18	D27	FB_CMD18
FBD19	F18	FB_DQ19	FB_CMD19	K26	FB_CMD19
FBD20	E19	FB_DQ20	FB_CMD20	K25	FB_CMD20
FBD21	E18	FB_DQ21	FB_CMD21	K24	FB_CMD21
FBD22	D20	FB_DQ22	FB_CMD22	F27	FB_CMD22
FBD23	D19	FB_DQ23	FB_CMD23	K27	FB_CMD23
FBD24	A18	FB_DQ24	FB_CMD24	G26	FB_CMD24
FBD25	B18	FB_DQ25	FB_CMD25	B27	FB_CMD25
FBD26	A19	FB_DQ26	FB_CMD26	N24	FB_CMD26
FBD27	B19	FB_DQ27			
FBD28	D18	FB_DQ28	FB_DQM0	D21	FBDQM0
FBD29	C19	FB_DQ29	FB_DQM1	F22	FBDQM1
FBD30	C16	FB_DQ30	FB_DQM2	E20	FBDQM2
FBD31	C18	FB_DQ31	FB_DQM3	A21	FBDQM3
FBD32	N26	FB_DQ32	FB_DQM4	V27	FBDQM4
FBD33	N25	FB_DQ33	FB_DQM5	W22	FBDQM5
FBD34	R25	FB_DQ34	FB_DQM6	V22	FBDQM6
FBD35	R26	FB_DQ35	FB_DQM7	V24	FBDQM7
FBD36	R27	FB_DQ36			
FBD37	T25	FB_DQ37	FB_DQS_RN0	A22	FBDQS#0
FBD38	T27	FB_DQ38	FB_DQS_RN1	E22	FBDQS#1
FBD39	T26	FB_DQ39	FB_DQS_RN2	F21	FBDQS#2
FBD40	AB23	FB_DQ40	FB_DQS_RN3	B21	FBDQS#3
FBD41	Y24	FB_DQ41	FB_DQS_RN4	V26	FBDQS#4
FBD42	AB24	FB_DQ42	FB_DQS_RN5	W23	FBDQS#5
FBD43	AB22	FB_DQ43	FB_DQS_RN6	V23	FBDQS#6
FBD44	AC24	FB_DQ44	FB_DQS_RN7	W27	FBDQS#7
FBD45	AC22	FB_DQ45			
FBD46	AA23	FB_DQ46	FB_DQS_WP0	B22	FBDQS0
FBD47	AA22	FB_DQ47	FB_DQS_WP1	D22	FBDQS1
FBD48	T24	FB_DQ48	FB_DQS_WP2	E21	FBDQS2
FBD49	T23	FB_DQ49	FB_DQS_WP3	C21	FBDQS3
FBD50	R24	FB_DQ50	FB_DQS_WP4	V25	FBDQS4
FBD51	R23	FB_DQ51	FB_DQS_WP5	W24	FBDQS5
FBD52	R22	FB_DQ52	FB_DQS_WP6	U24	FBDQS6
FBD53	T22	FB_DQ53	FB_DQS_WP7	W26	FBDQS7
FBD54	N23	FB_DQ54			
FBD55	P24	FB_DQ55			
FBD56	AA24	FB_DQ56			
FBD57	AA27	FB_DQ57			
FBD58	AA26	FB_DQ58			
FBD59	AB25	FB_DQ59			
FBD60	AB26	FB_DQ60			
FBD61	AB27	FB_DQ61			
FBD62	AA25	FB_DQ62			
FBD63	W25	FB_DQ63			

read strobe

write strobe

21 FB_CLK0 → L24 FB_CLK0
21 FB_CLK0# → K23 FB_CLK0#
21 FB_CLK1 → M22 FB_CLK1
21 FB_CLK1# → N22 FB_CLK1#
M23 FB_REFCLK
M24 FB_REFCLK#
T50 PAD — FB_DEBUG K22 FB_DEBUG
FBVREF A16 FB_VREF

FBVTT_01	E15	FBVDDQ_01	F17		
FBVTT_02	F15	FBVDDQ_02	E19		
FBVTT_03	E16	FBVDDQ_03	J19		
FBVTT_04	J17	FBVDDQ_04	M19		
FBVTT_05	J18	FBVDDQ_05	T19		
FBVTT_06	L19	FBVDDQ_06	J22		
FBVTT_07	N19	FBVDDQ_07	L22		
FBVTT_08	R19	FBVDDQ_08	P22		
FBVTT_09	U19	FBVDDQ_09	U22		
FBVTT_10	W19	FBVDDQ_10	Y22		
FBCAL_PD_VDDQ	D15	FBCAL_PD_VDDQ			
FBCAL_PU_GND	E13	FBCAL_PU_GND			
FBCAL_TERM_GND	H22	FBCAL_TERM_GND			

+3.3V_RUN — L45 BLM11A121S_NC — FBA_PLLVDD D14 FB_PLLVDD
+1.22V_GFX_PCIE — L46 BLM11A121S — FB_PLLAVDD D13 FB_PLLAVDD
C448 4.7U_6.3V, C451 1U_6.3V, C453 0.01U_16V
C15 FB_PLLAGND

+1.8V_RUN — R359 40.2/F
R358 0_NC
R356 30/F

U10D

Part 4 of 4

GND

G72M

B2	GND_01	GND_48	P14
E2	GND_02	GND_49	R14
H2	GND_03	GND_50	U14
L2	GND_04	GND_51	W14
P2	GND_05	GND_52	AC14
U2	GND_06	GND_53	AD14
Y2	GND_07	GND_54	N15
AC2	GND_08	GND_55	P15
AF2	GND_09	GND_56	R15
AF3	GND_10	GND_57	AF15
B5	GND_11	GND_58	N16
E5	GND_12	GND_59	P16
L5	GND_13	GND_60	R16
P5	GND_14	GND_61	AD16
U5	GND_15	GND_62	B17
Y5	GND_16	GND_63	E17
AC5	GND_17	GND_64	L17
H6	GND_18	GND_65	P17
AF6	GND_19	GND_66	U17
B8	GND_20	GND_67	AD17
E8	GND_21	GND_68	AF18
AD8	GND_22	GND_69	K19
K9	GND_23	GND_70	P19
P9	GND_24	GND_71	V19
V9	GND_25	GND_72	AD19
AD9	GND_26	GND_73	B20
AF9	GND_27	GND_74	E20
B11	GND_28	GND_75	AD20
E11	GND_29	GND_76	AF21
F11	GND_30	GND_77	B23
L11	GND_31	GND_78	E23
P11	GND_32	GND_79	H23
U11	GND_33	GND_80	L23
AD11	GND_34	GND_81	P23
N12	GND_35	GND_82	U23
P12	GND_36	GND_83	Y23
R12	GND_37	GND_84	AC23
AD12	GND_38	GND_85	AF24
AF12	GND_39	GND_86	B26
N13	GND_40	GND_87	E26
P13	GND_41	GND_88	H26
R13	GND_42	GND_89	L26
B14	GND_43	GND_90	P26
E14	GND_44	GND_91	U26
J14	GND_45	GND_92	Y26
L14	GND_46	GND_93	AC26
N14	GND_47	GND_94	AF26

+1.8V_RUN
R59 1K/F
FBVREF
R62 1K/F
C64 0.1U_10V

FBVREF = FBVDDQ * Rb/(Rt + Rb).
VREF = 0.5 * FBVDDQ.
DDR: 0.9V = 1.8V * 1K/(1K + 1K).

PLACE BELOW GPU

+1.8V_RUN

C539 4700P_25V	C538 0.022U_16V	C76 0.1U_10V	C476 4700P_25V	C103 0.1U_10V	C85 4.7U_6.3V	C572 1U_6.3V
C489 4700P_25V	C490 0.022U_16V	C500 0.1U_10V	C499 4700P_25V	C508 0.022U_16V	C509 0.1U_10V	C522 4.7U_6.3V
C484 4700P_25V	C473 0.022U_16V	C474 0.1U_10V	C491 0.022U_16V	C475 0.1U_10V	C537 1U_6.3V

QUANTA COMPUTER

Title	VGA-G72M (MEMORY,GUD)	
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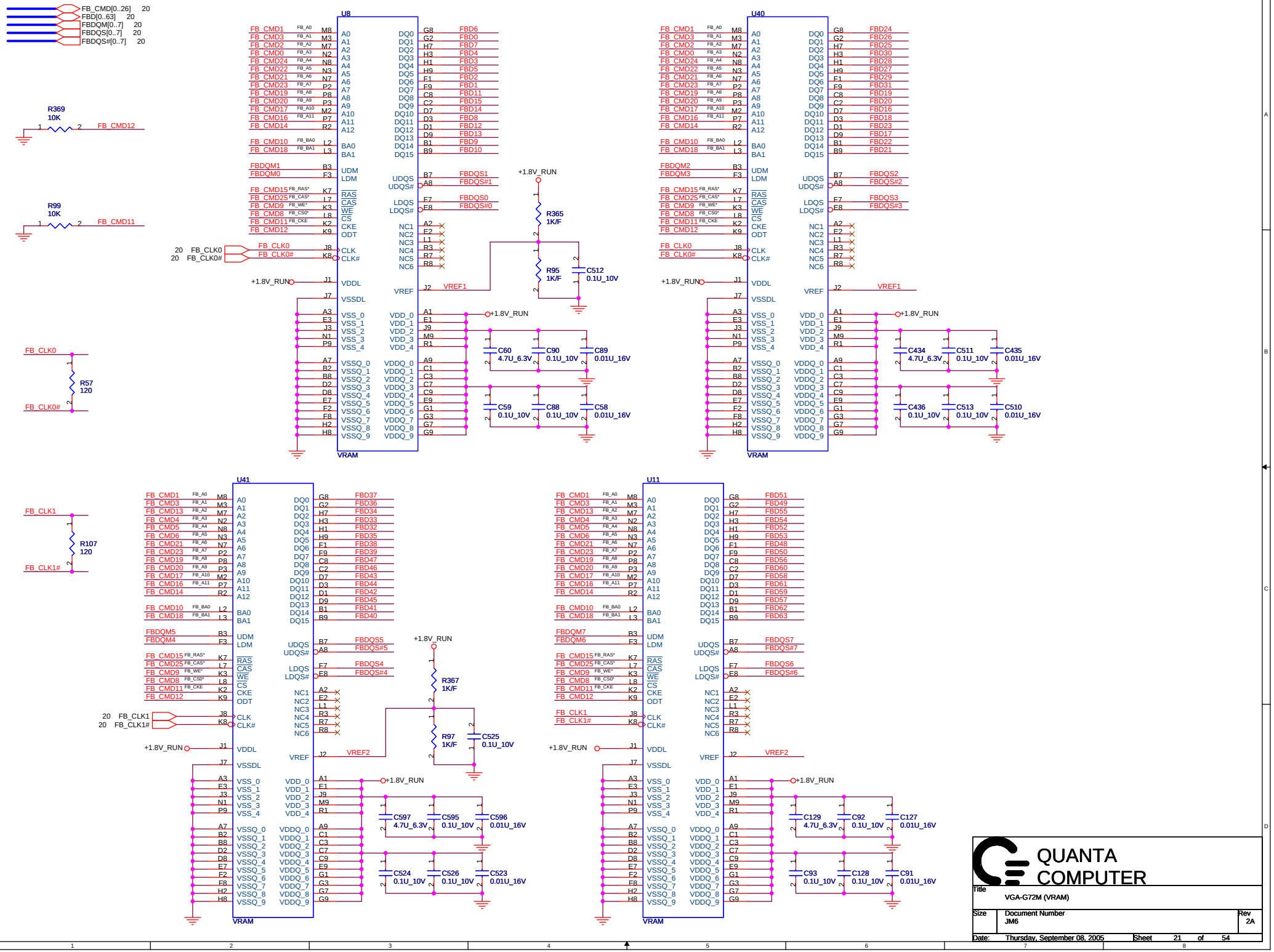
FB_CMD[0..26] 20
FBD[0..63] 20
FBDQM[0..7] 20
FBDQS[0..7] 20
FBDQS#[0..7] 20
R369 10K
FB_CMD12
R99 10K
FB_CMD11
FB_CLK0
FB_CLK0#
R57 120
FB_CLK1
FB_CLK1#
R107 120
U8
U40
U41
U11
VRAM
+1.8V_RUN
R365 1K/F
R95 1K/F
R367 1K/F
R97 1K/F
VREF1
VREF2
C512 0.1U_10V
C60 4.7U_6.3V
C90 0.1U_10V
C89 0.01U_16V
C59 0.1U_10V
C88 0.1U_10V
C58 0.01U_16V
C434 4.7U_6.3V
C511 0.1U_10V
C435 0.01U_16V
C436 0.1U_10V
C513 0.1U_10V
C510 0.01U_16V
C597 4.7U_6.3V
C595 0.1U_10V
C596 0.01U_16V
C524 0.1U_10V
C526 0.1U_10V
C523 0.01U_16V
C525 0.1U_10V
C129 4.7U_6.3V
C92 0.1U_10V
C127 0.01U_16V
C93 0.1U_10V
C128 0.1U_10V
C91 0.01U_16V
QUANTA COMPUTER
Title
VGA-G72M (VRAM)
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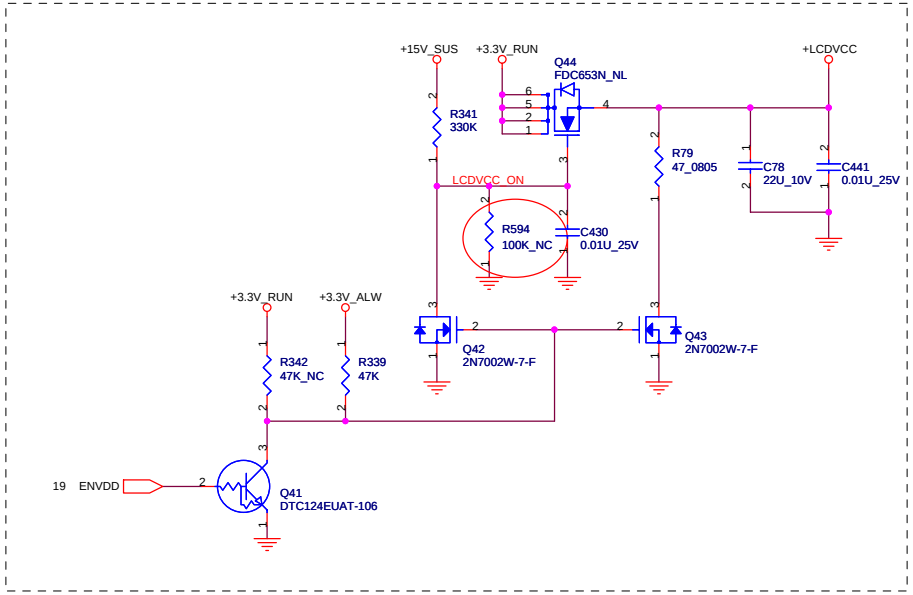

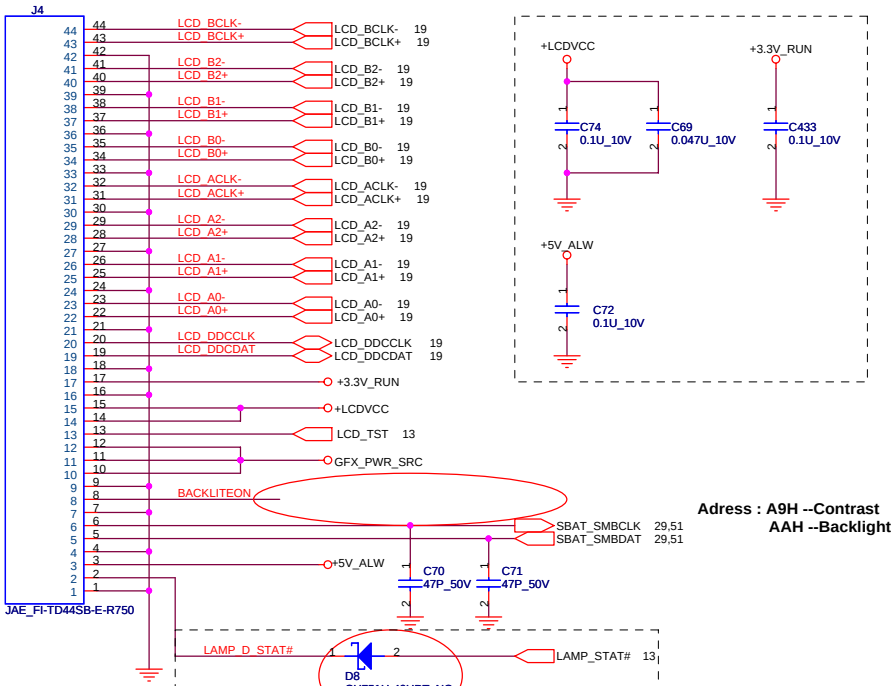

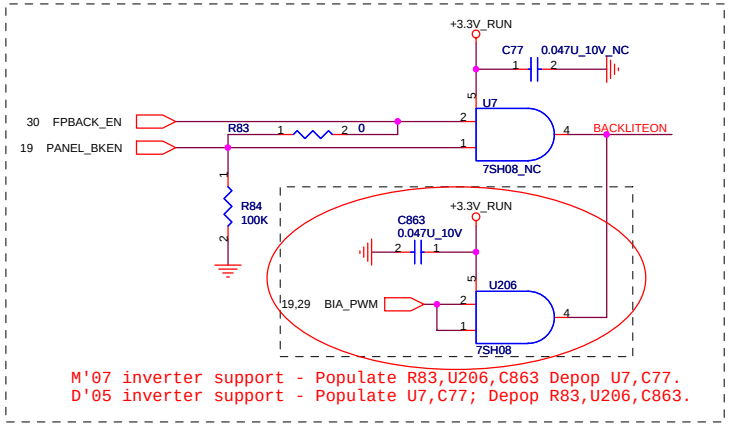

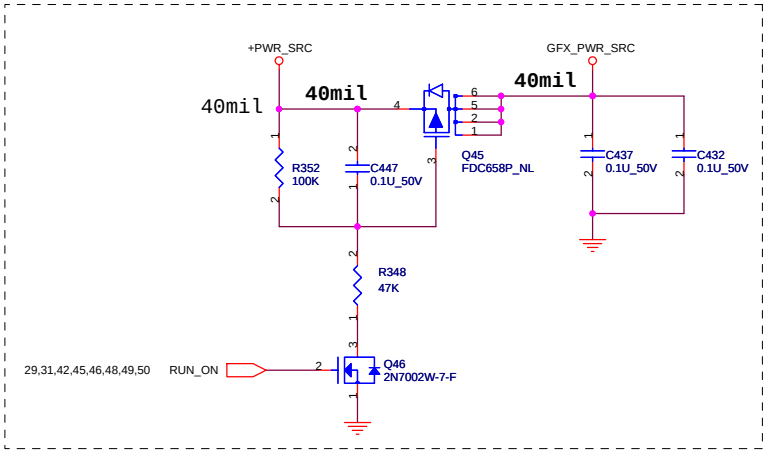

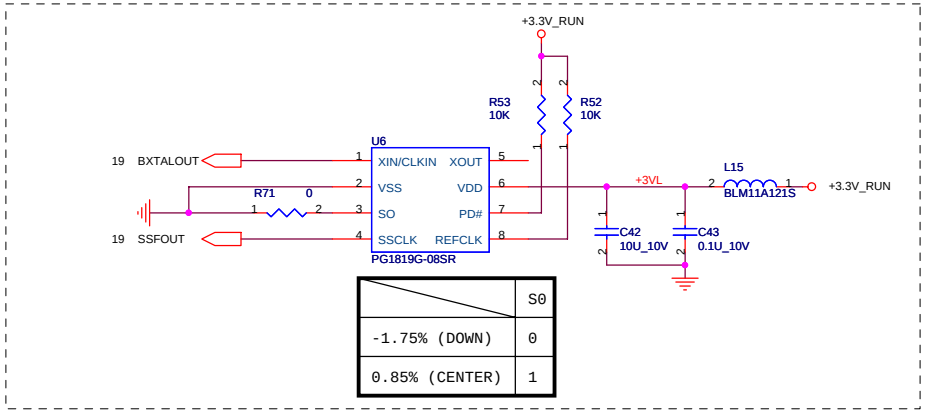

	S0
-1.75% (DOWN)	0
0.85% (CENTER)	1

QUANTA COMPUTER

Title	LCD CONN&CK-SSCD	
Size	Document Number JM6	Rev 2A
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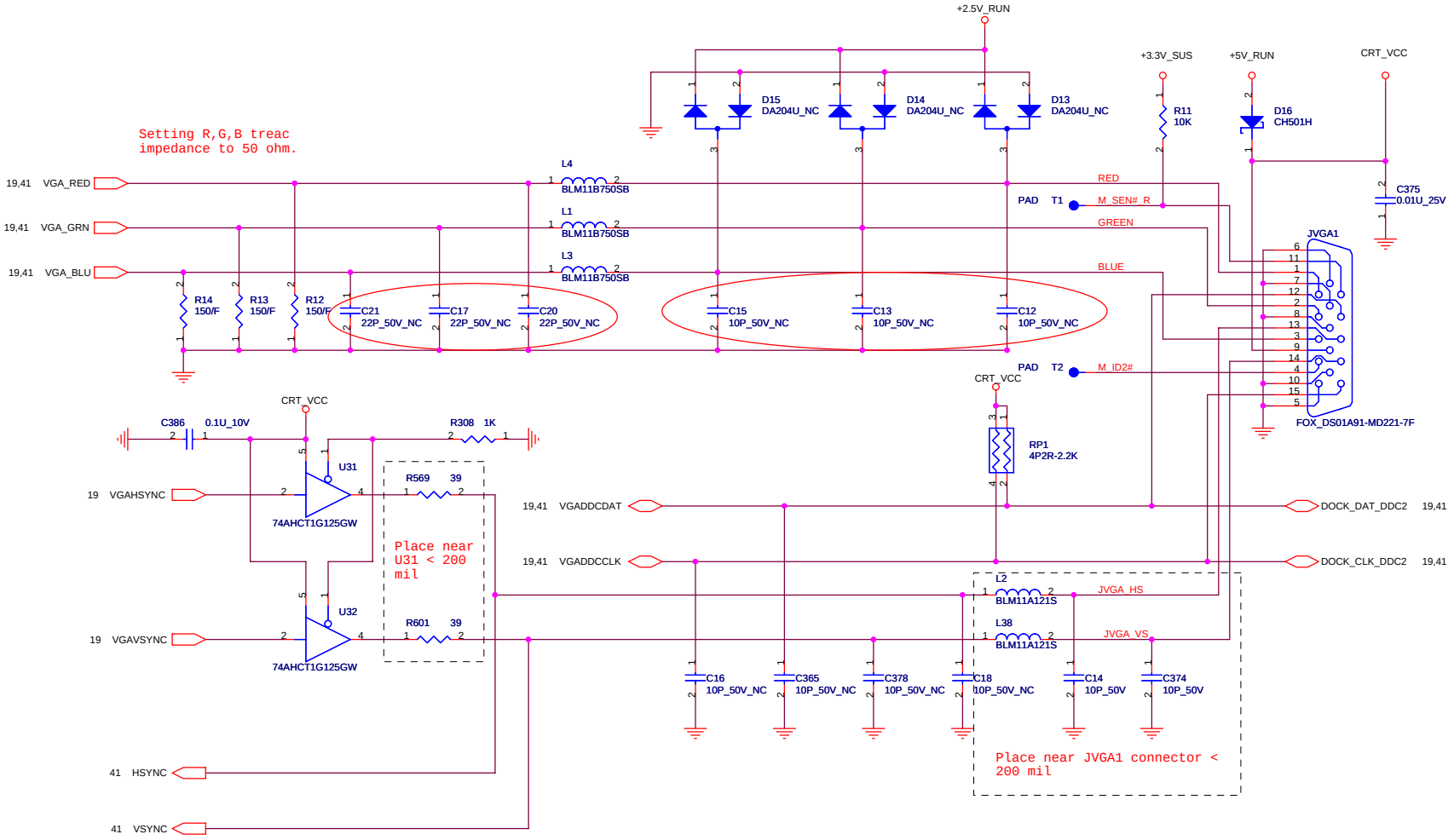

QUANTA COMPUTER

Title	CRT&TV CONN	
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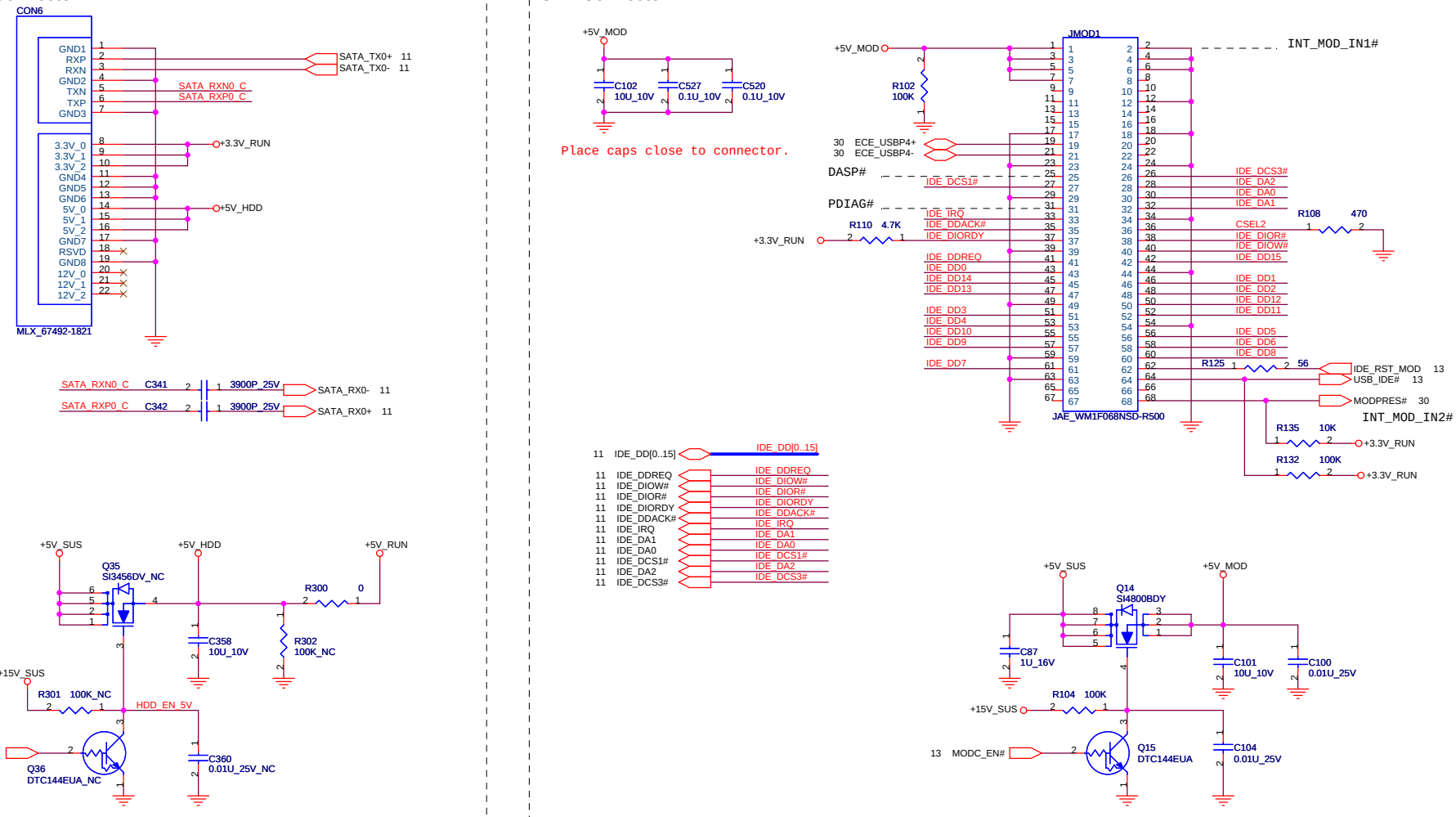
SATA Connector.



ODD Connector.

QUANTA COMPUTER		
Title: IDE (HDD&CD_ROM		
Size	Document Number: JM6	Rev: 2A
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OZ711EZ1
128 PIN LQFP

U47

OZ711EZ1TN

PCI HOST BUS (46)

IEEE 1394 (8)

PC CARD SOCKET (32)

PC CARD INTERFACE (27)

MISCELLANEOUS (4)

POWER PLANE (11)

Please these parts near OZ711EZ1.

these 1394 signals are high speed differential pairs and must be kept equal length with a differential impedance (Zo) of 110 ohms.

Close to OZ711EZ1

1394A PORT

NCM900E-TR_NC

TYC_1-1734607-1

FOX_QT8P080A-1820C-F

OZ2532L

Reserved for EMI. Placce the parts near pin 45.

Place these caps near connector.

Place these parts near connector.

Place these caps near OZ711EZ1.

Place these caps near OZ2532.

Place these parts near OZ711EZ1.

Place these parts near connector.

QUANTA COMPUTER

Title	PCCARD	
Size	Document Number JM6	Rev 2A
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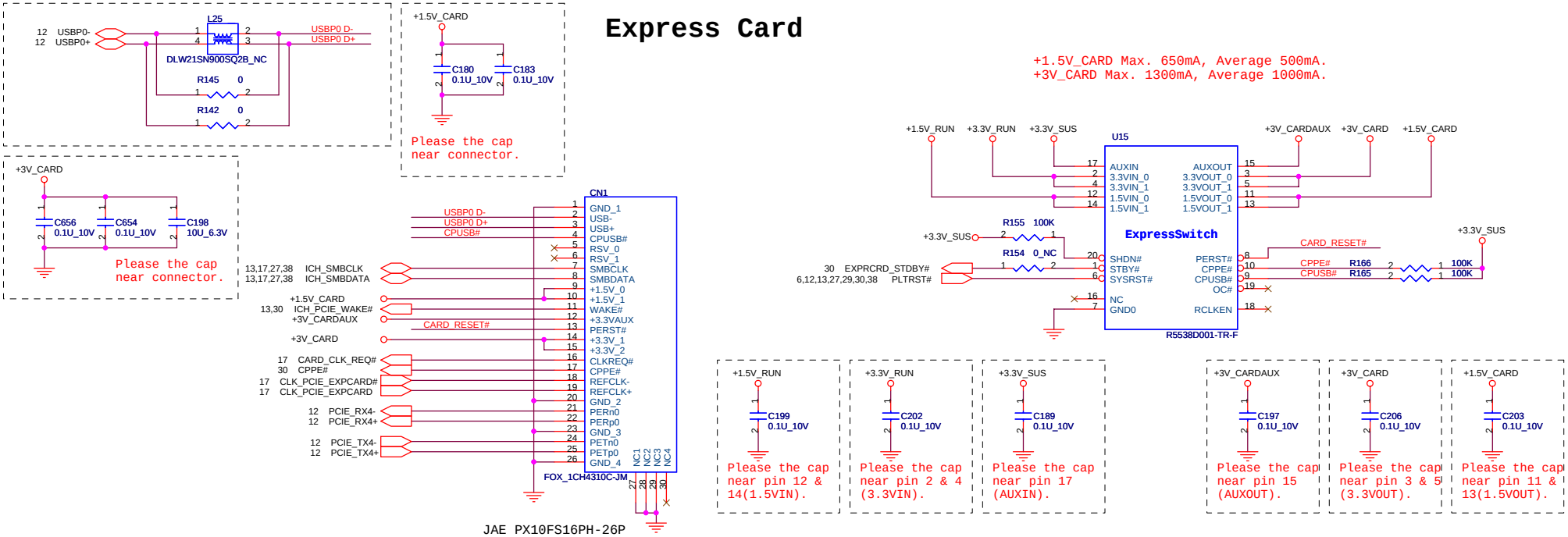
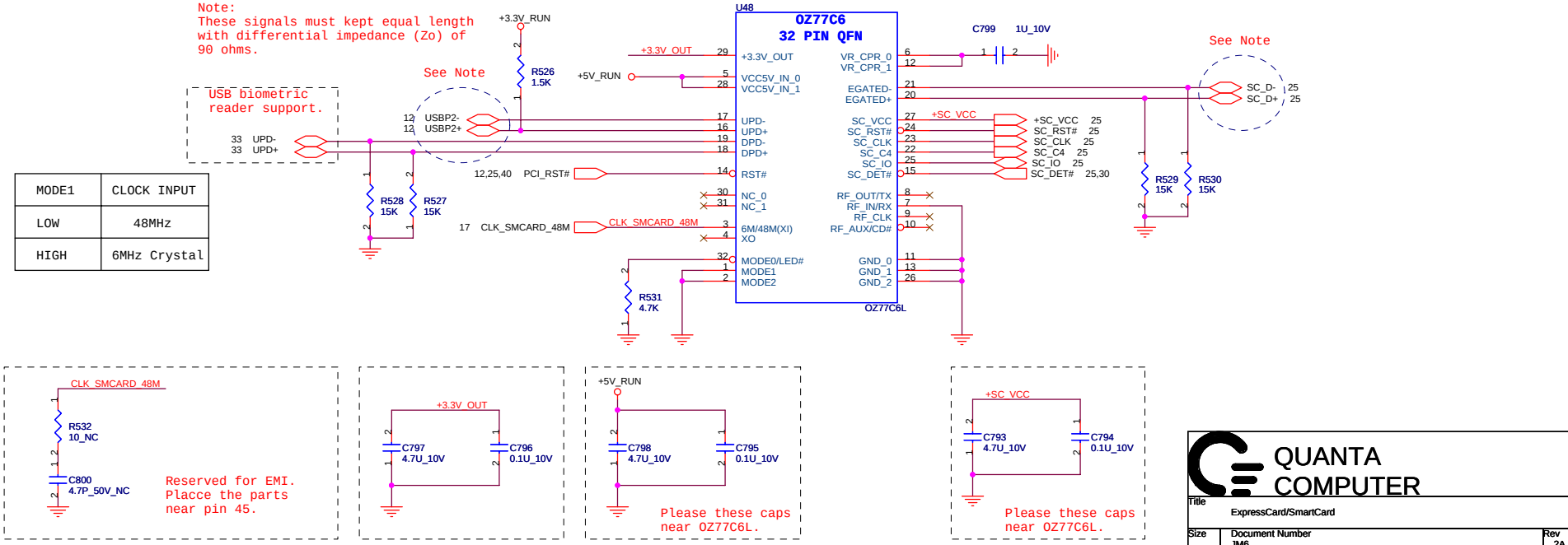
Express Card



Smart Card



Title	ExpressCard/SmartCard
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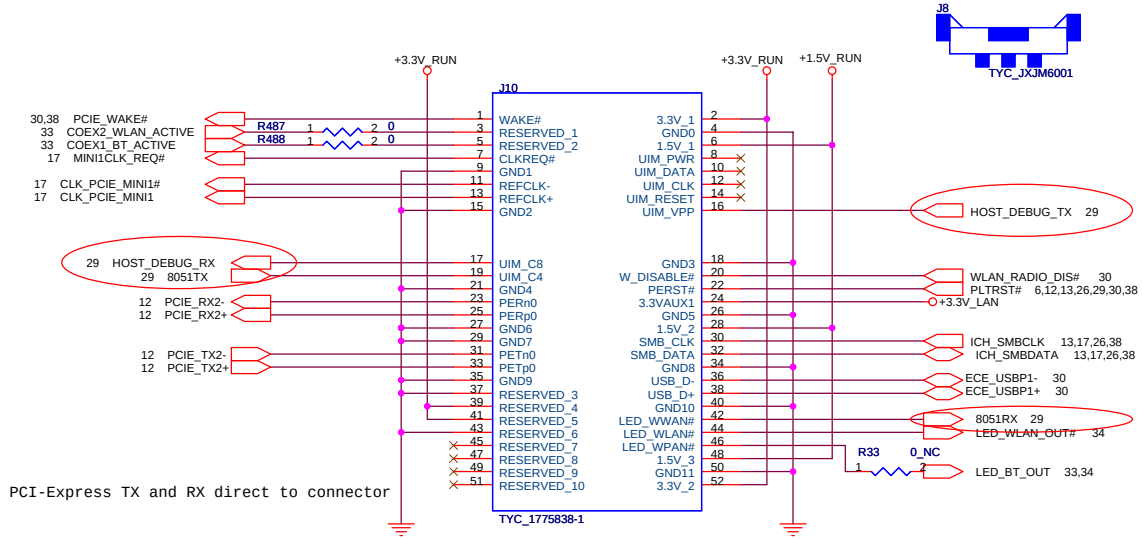
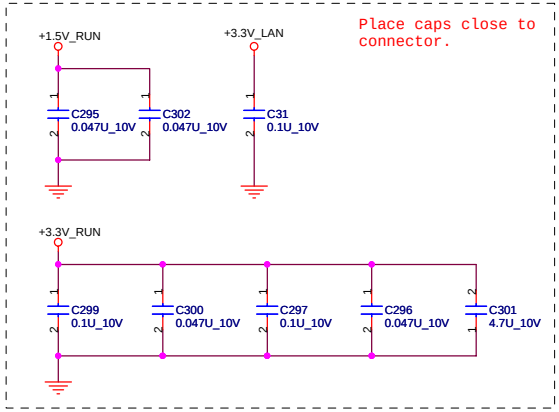
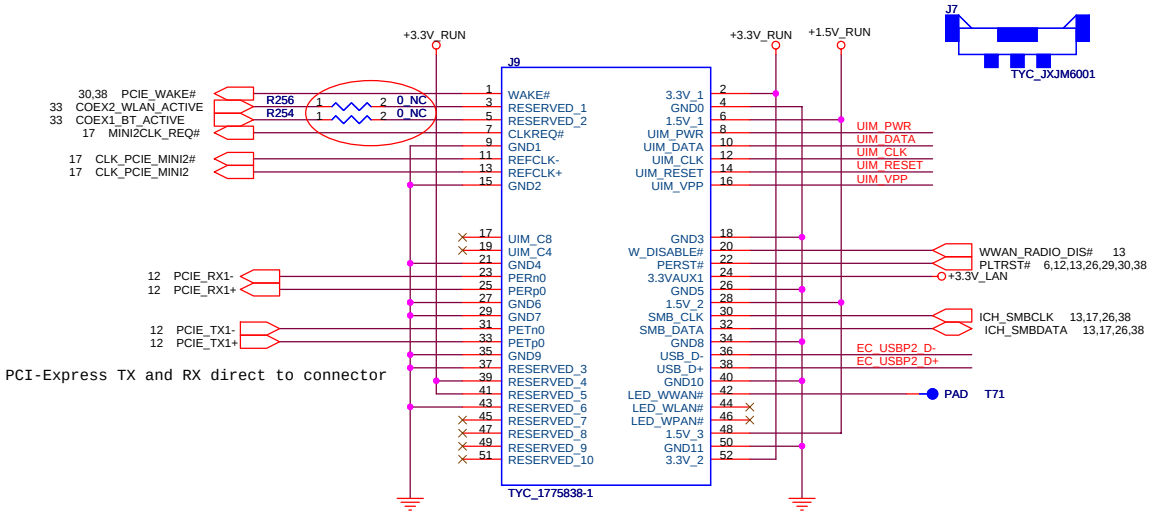
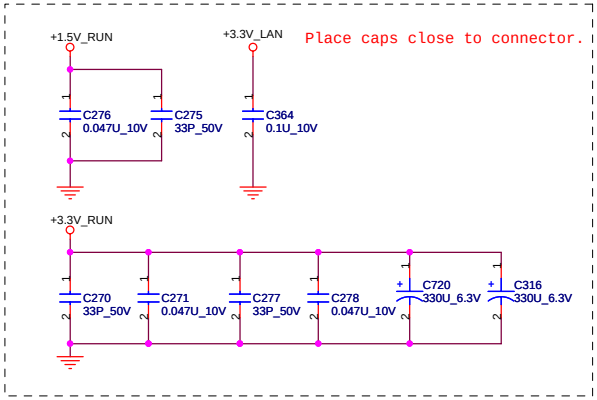
MiniCard WLAN connector

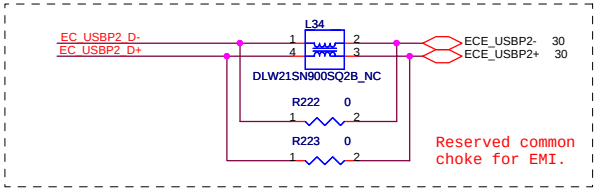


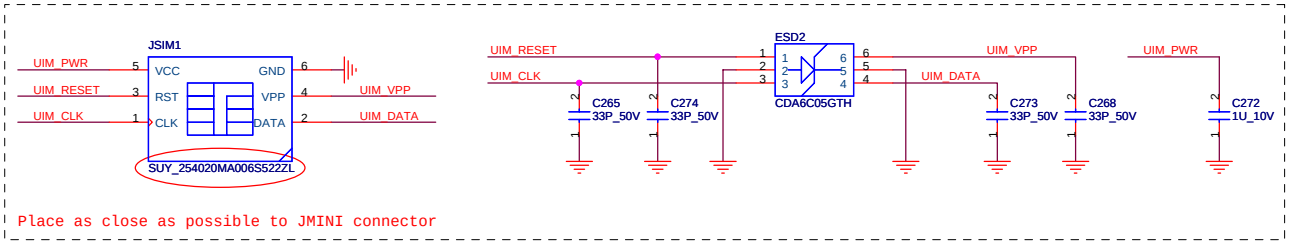


MiniCard WWAN connector









QUANTA COMPUTER

Title	MINI-PCI	
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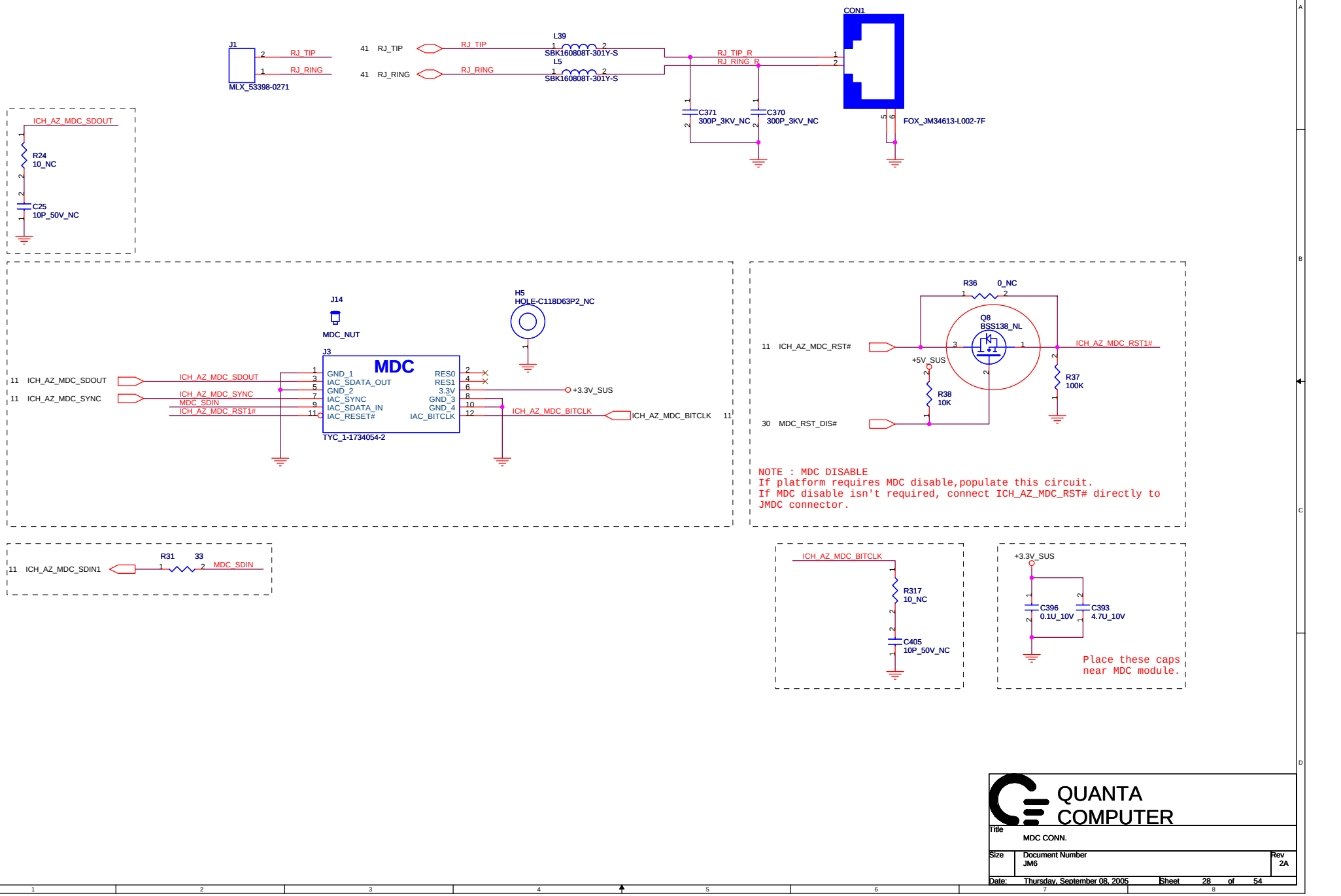

QUANTA COMPUTER

Title	MDC CONN.	
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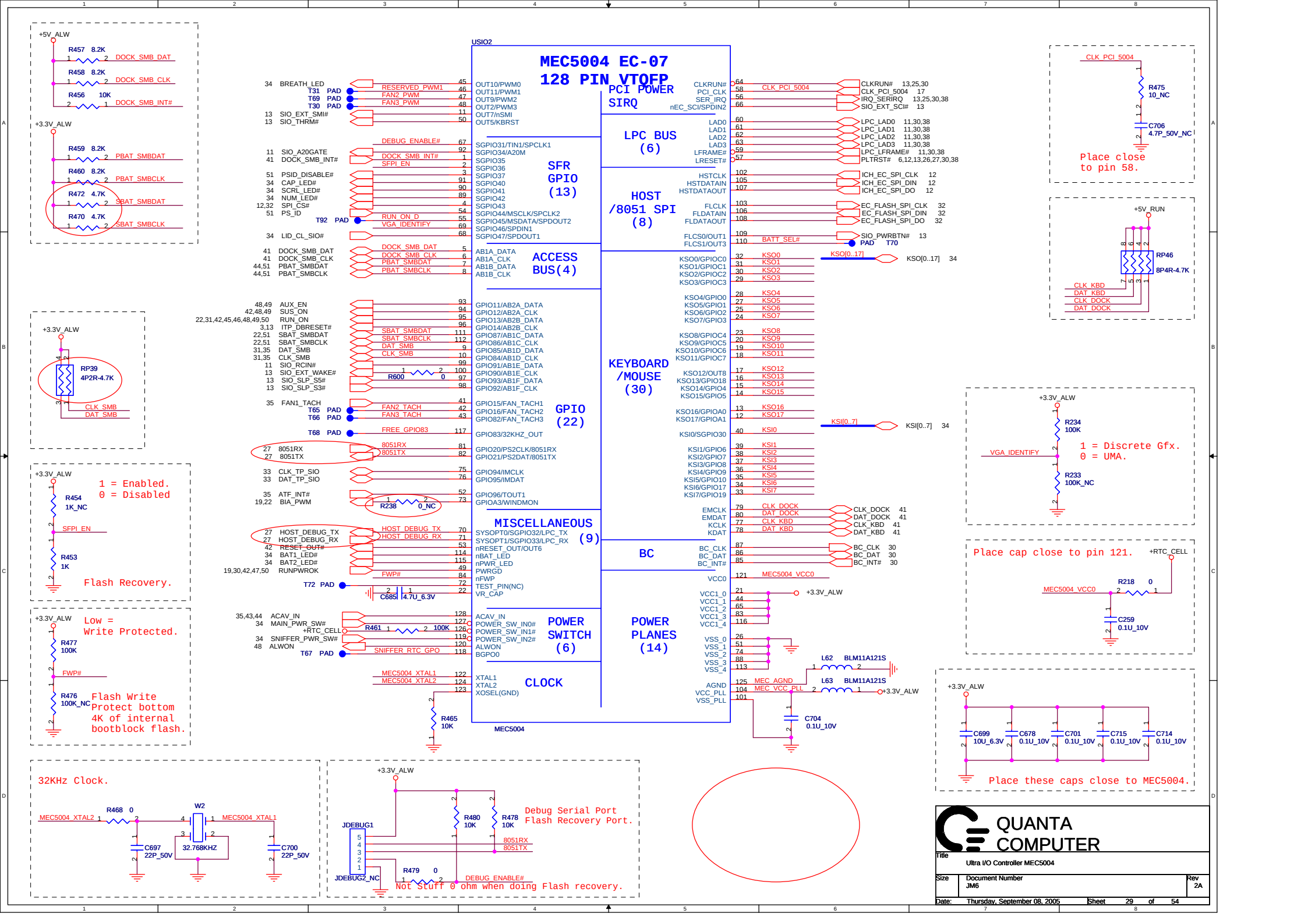
USIO2
MEC5004 EC-07
128 PIN VTQFP
MEC5004
PCI POWER SIRQ
LPC BUS (6)
HOST /8051 SPI (8)
SFR GPIO (13)
ACCESS BUS(4)
GPIO (22)
KEYBOARD /MOUSE (30)
MISCELLANEOUS (9)
BC
POWER SWITCH (6)
POWER PLANES (14)
CLOCK
+5V_ALW
R457 8.2K
R458 8.2K
R456 10K
DOCK_SMB_DAT
DOCK_SMB_CLK
DOCK_SMB_INT#
+3.3V_ALW
R459 8.2K
R460 8.2K
R472 4.7K
R470 4.7K
PBAT_SMBDAT
PBAT_SMBCLK
SBAT_SMBDAT
SBAT_SMBCLK
RP39 4P2R-4.7K
CLK_SMB
DAT_SMB
1 = Enabled.
0 = Disabled
R454 1K_NC
SFPI_EN
R453 1K
Flash Recovery.
Low = Write Protected.
R477 100K
FWP#
R476 100K_NC
Flash Write Protect bottom 4K of internal bootblock flash.
32KHz Clock.
R468 0
W2
32.768KHZ
C697 22P_50V
C700 22P_50V
MEC5004_XTAL1
MEC5004_XTAL2
JDEBUG1
JDEBUG2_NC
R480 10K
R478 10K
R479 0
Debug Serial Port
Flash Recovery Port.
Not Stuff 0 ohm when doing Flash recovery.
CLK_PCI_5004
R475 10_NC
C706 4.7P_50V_NC
Place close to pin 58.
+5V_RUN
RP46 8P4R-4.7K
CLK_KBD
DAT_KBD
CLK_DOCK
DAT_DOCK
R234 100K
R233 100K_NC
VGA_IDENTIFY
1 = Discrete Gfx.
0 = UMA.
Place cap close to pin 121.
+RTC_CELL
R218 0
C259 0.1U_10V
L62 BLM11A121S
L63 BLM11A121S
C704 0.1U_10V
C699 10U_6.3V
C678 0.1U_10V
C701 0.1U_10V
C715 0.1U_10V
C714 0.1U_10V
Place these caps close to MEC5004.
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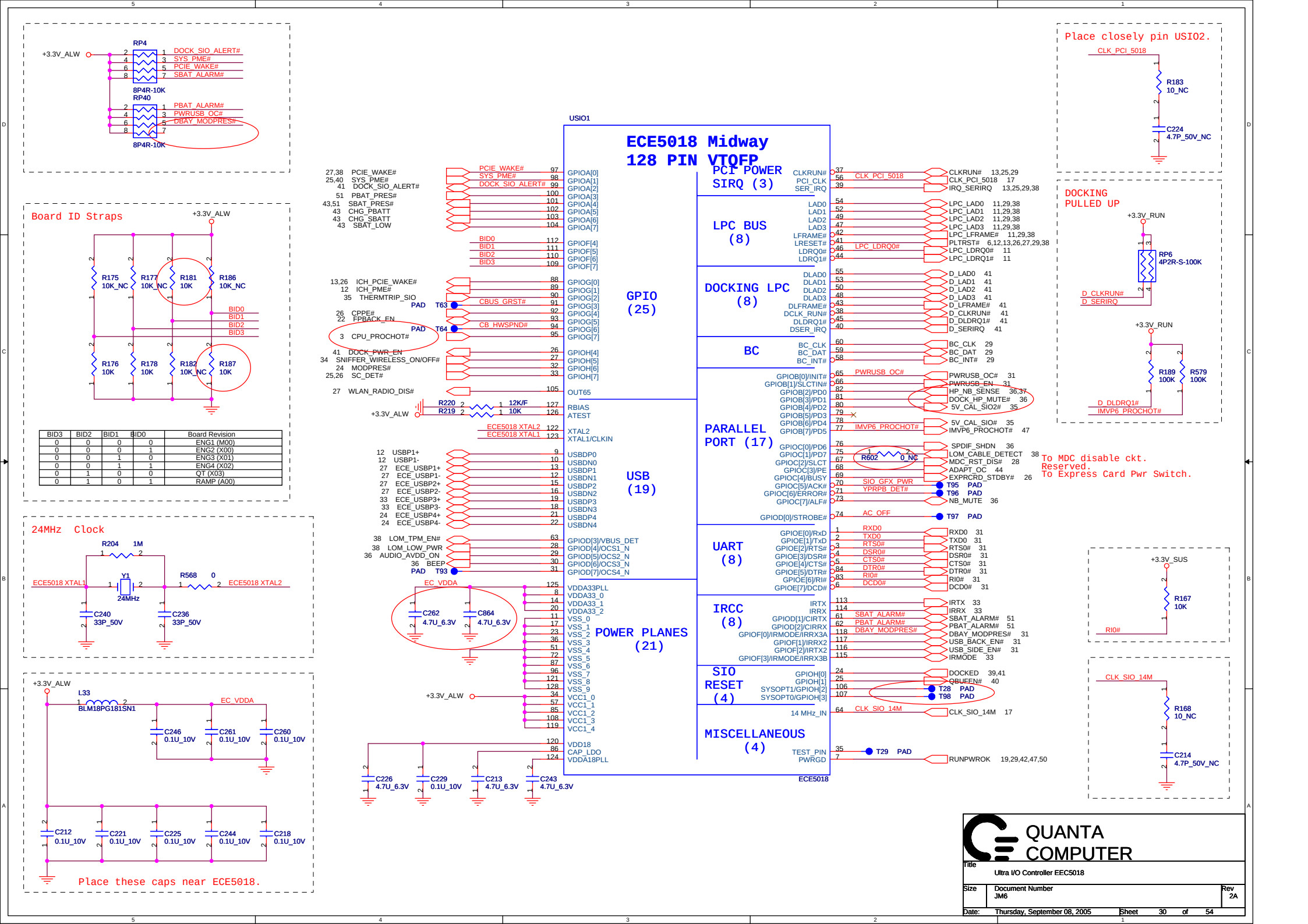
RP4
+3.3V_ALW
DOCK_SIO_ALERT#
SYS_PME#
PCIE_WAKE#
SBAT_ALARM#
8P4R-10K
RP40
PBAT_ALARM#
PWRUSB_OC#
DBAY_MODPRES#
8P4R-10K
Board ID Straps
+3.3V_ALW
R175 10K_NC
R177 10K_NC
R181 10K
R186 10K_NC
R176 10K
R178 10K
R182 10K_NC
R187 10K
BID0
BID1
BID2
BID3
BID3 BID2 BID1 BID0 Board Revision
0 0 0 0 ENG1 (M00)
0 0 0 1 ENG2 (X00)
0 0 1 0 ENG3 (X01)
0 0 1 1 ENG4 (X02)
0 1 0 0 QT (X03)
0 1 0 1 RAMP (A00)
24MHz Clock
R204 1M
ECE5018 XTAL1
Y1
24MHz
R568 0
ECE5018 XTAL2
C240 33P_50V
C236 33P_50V
+3.3V_ALW
L33
BLM18PG181SN1
EC_VDDA
C246 0.1U_10V
C261 0.1U_10V
C260 0.1U_10V
C212 0.1U_10V
C221 0.1U_10V
C225 0.1U_10V
C244 0.1U_10V
C218 0.1U_10V
Place these caps near ECE5018.
USIO1
ECE5018 Midway
128 PIN VTQFP
PCI POWER
SIRQ (3)
LPC BUS
(8)
DOCKING LPC
(8)
BC
GPIO
(25)
PARALLEL
PORT (17)
USB
(19)
UART
(8)
IRCC
(8)
POWER PLANES
(21)
SIO
RESET
(4)
MISCELLANEOUS
(4)
ECE5018
PCIE_WAKE#
SYS_PME#
DOCK_SIO_ALERT#
PBAT_PRES#
SBAT_PRES#
CHG_PBATT
CHG_SBATT
SBAT_LOW
BID0
BID1
BID2
BID3
ICH_PCIE_WAKE#
ICH_PME#
THERMTRIP_SIO
CBUS_GRST#
CPPE#
FPBACK_EN
CB_HWSPND#
CPU_PROCHOT#
DOCK_PWR_EN
SNIFFER_WIRELESS_ON/OFF#
MODPRES#
SC_DET#
WLAN_RADIO_DIS#
R220 12K/F
R219 10K
ECE5018 XTAL2
ECE5018 XTAL1
USBP1+
USBP1-
ECE_USBP1+
ECE_USBP1-
ECE_USBP2+
ECE_USBP2-
ECE_USBP3+
ECE_USBP3-
ECE_USBP4+
ECE_USBP4-
LOM_TPM_EN#
LOM_LOW_PWR
AUDIO_AVDD_ON
BEEP
EC_VDDA
C262 4.7U_6.3V
C864 4.7U_6.3V
C226 4.7U_6.3V
C229 0.1U_10V
C213 4.7U_6.3V
C243 4.7U_6.3V
CLKRUN#
PCI_CLK
SER_IRQ
LAD0
LAD1
LAD2
LAD3
LFRAME#
LRESET#
LDRQ0#
LDRQ1#
DLAD0
DLAD1
DLAD2
DLAD3
DLFRAME#
DCLK_RUN#
DLDRQ1#
DSER_IRQ
BC_CLK
BC_DAT
BC_INT#
GPIOB[0]/INIT#
GPIOB[1]/SLCTIN#
GPIOB[2]/PD0
GPIOB[3]/PD1
GPIOB[4]/PD2
GPIOB[5]/PD3
GPIOB[6]/PD4
GPIOB[7]/PD5
GPIOC[0]/PD6
GPIOC[1]/PD7
GPIOC[2]/SLCT
GPIOC[3]/PE
GPIOC[4]/BUSY
GPIOC[5]/ACK#
GPIOC[6]/ERROR#
GPIOC[7]/ALF#
GPIOD[0]/STROBE#
GPIOE[0]/RxD
GPIOE[1]/TxD
GPIOE[2]/RTS#
GPIOE[3]/DSR#
GPIOE[4]/CTS#
GPIOE[5]/DTR#
GPIOE[6]/RI#
GPIOE[7]/DCD#
IRTX
IRRX
GPIOD[1]/CIRTX
GPIOD[2]/CIRRX
GPIOF[0]/IRMODE/IRRX3A
GPIOF[1]/IRRX2
GPIOF[2]/IRTX2
GPIOF[3]/IRMODE/IRRX3B
GPIOH[0]
GPIOH[1]
SYSOPT1/GPIOH[2]
SYSOPT0/GPIOH[3]
14 MHz_IN
TEST_PIN
PWRGD
CLK_PCI_5018
CLKRUN# 13,25,29
CLK_PCI_5018 17
IRQ_SERIRQ 13,25,29,38
LPC_LAD0 11,29,38
LPC_LAD1 11,29,38
LPC_LAD2 11,29,38
LPC_LAD3 11,29,38
LPC_LFRAME# 11,29,38
PLTRST# 6,12,13,26,27,29,38
LPC_LDRQ0# 11
LPC_LDRQ1# 11
D_LAD0 41
D_LAD1 41
D_LAD2 41
D_LAD3 41
D_LFRAME# 41
D_CLKRUN# 41
D_DLDRQ1# 41
D_SERIRQ 41
BC_CLK 29
BC_DAT 29
BC_INT# 29
PWRUSB_OC# 31
PWRUSB_EN 31
HP_NB_SENSE 36,37
DOCK_HP_MUTE# 36
5V_CAL_SIO# 35
IMVP6_PROCHOT# 47
SPDIF_SHDN 36
LOM_CABLE_DETECT 38
MDC_RST_DIS# 28
ADAPT_OC 44
EXPRCRD_STDBY# 26
NB_MUTE 36
RXD0 31
TXD0 31
RTS0# 31
DSR0# 31
CTS0# 31
DTR0# 31
RI0# 31
DCD0# 31
IRTX 33
IRRX 33
SBAT_ALARM# 51
PBAT_ALARM# 51
DBAY_MODPRES# 31
USB_BACK_EN# 31
USB_SIDE_EN# 31
IRMODE 33
DOCKED 39,41
QBUFEN# 40
CLK_SIO_14M 17
RUNPWROK 19,29,42,47,50
R602 0_NC
To MDC disable ckt.
Reserved.
To Express Card Pwr Switch.
SIO_GFX_PWR
YPRPB_DET#
T95 PAD
T96 PAD
T97 PAD
T98 PAD
T28 PAD
T29 PAD
Place closely pin USIO2.
CLK_PCI_5018
R183 10_NC
C224 4.7P_50V_NC
DOCKING
PULLED UP
+3.3V_RUN
RP6 4P2R-S-100K
D_CLKRUN#
D_SERIRQ
R189 100K
R579 100K
D_DLDRQ1#
IMVP6_PROCHOT#
+3.3V_SUS
R167 10K
RI0#
CLK_SIO_14M
R168 10_NC
C214 4.7P_50V_NC
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COMPUTER
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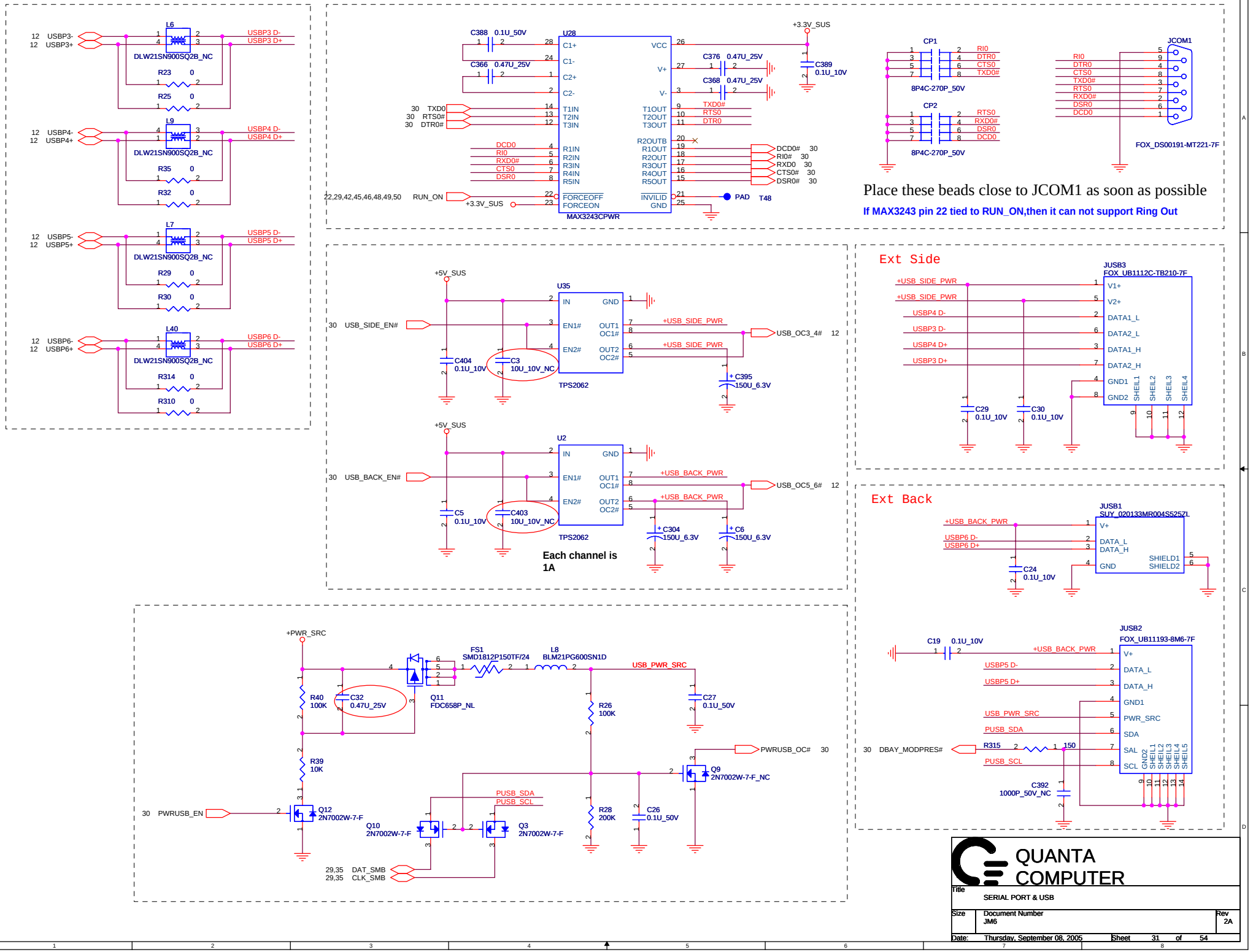
L6
DLW21SN900SQ2B_NC
R23 0
R25 0
USBP3- USBP3+
USBP3 D- USBP3 D+
L9
DLW21SN900SQ2B_NC
R35 0
R32 0
USBP4- USBP4+
USBP4 D- USBP4 D+
L7
DLW21SN900SQ2B_NC
R29 0
R30 0
USBP5- USBP5+
USBP5 D- USBP5 D+
L40
DLW21SN900SQ2B_NC
R314 0
R310 0
USBP6- USBP6+
USBP6 D- USBP6 D+
U28
MAX3243CPWR
C388 0.1U_50V
C366 0.47U_25V
C376 0.47U_25V
C368 0.47U_25V
C389 0.1U_10V
+3.3V_SUS
TXD0 RTS0# DTR0#
DCD0 RI0 RXD0# CTS0 DSR0
RUN_ON
FORCEOFF FORCEON
INVILID
PAD T48
CP1
CP2
8P4C-270P_50V
JCOM1
FOX_DS00191-MT221-7F
Place these beads close to JCOM1 as soon as possible
If MAX3243 pin 22 tied to RUN_ON,then it can not support Ring Out
U35
TPS2062
+5V_SUS
USB_SIDE_EN#
+USB_SIDE_PWR
USB_OC3_4#
C404 0.1U_10V
C3 10U_10V_NC
C395 150U_6.3V
U2
USB_BACK_EN#
+USB_BACK_PWR
USB_OC5_6#
C5 0.1U_10V
C403 10U_10V_NC
C304 150U_6.3V
C6 150U_6.3V
Each channel is 1A
Ext Side
JUSB3
FOX_UB1112C-TB210-7F
C29 0.1U_10V
C30 0.1U_10V
Ext Back
JUSB1
SUY_020133MR004S525ZL
C24 0.1U_10V
JUSB2
FOX_UB11193-8M6-7F
C19 0.1U_10V
C392 1000P_50V_NC
R315 150
DBAY_MODPRES#
+PWR_SRC
FS1 SMD1812P150TF/24
L8 BLM21PG600SN1D
USB_PWR_SRC
Q11 FDC658P_NL
R40 100K
C32 0.47U_25V
R39 10K
R26 100K
C27 0.1U_50V
PWRUSB_OC#
Q9 2N7002W-7-F_NC
Q12 2N7002W-7-F
PWRUSB_EN
Q10 2N7002W-7-F
Q3 2N7002W-7-F
PUSB_SDA
PUSB_SCL
R28 200K
C26 0.1U_50V
DAT_SMB
CLK_SMB
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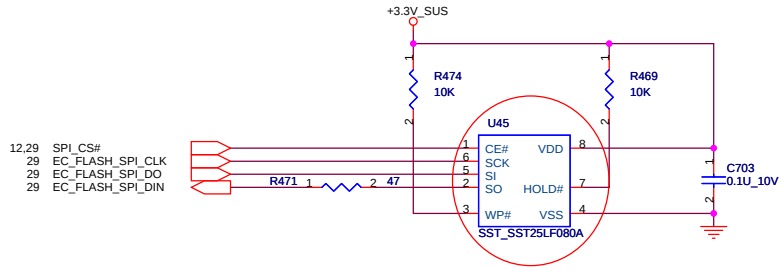
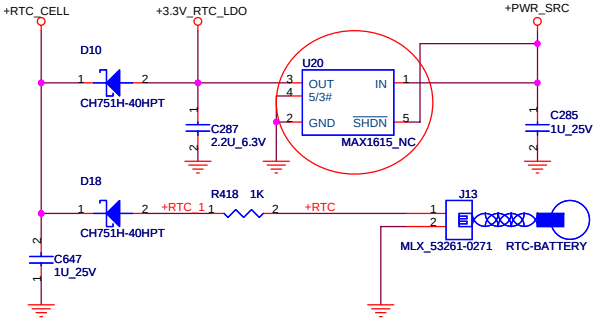
8Mbit (1M Byte), SPI



RTC BATTERY



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Title	FLASH & RTC	
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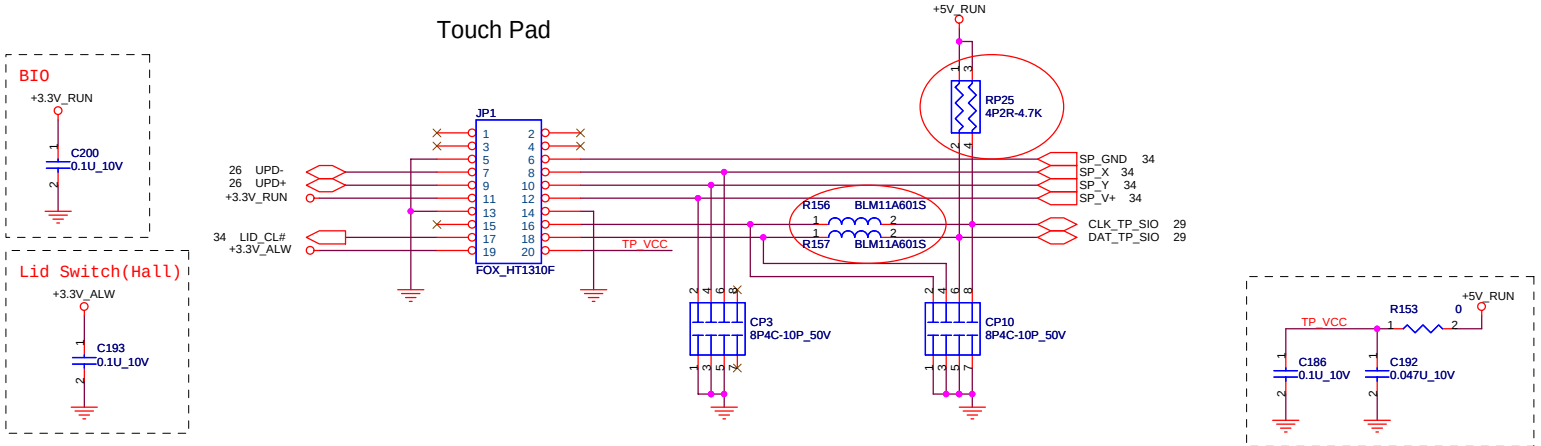
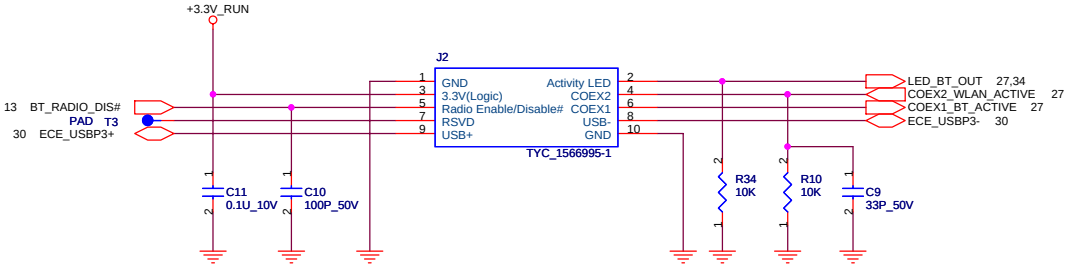
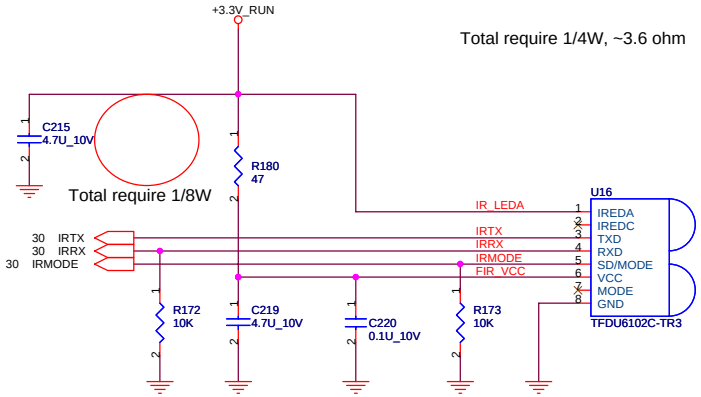
Touch Pad



Bluetooth



FIR



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Title	TOUCH PAD & BULE TOOTH & FIR	
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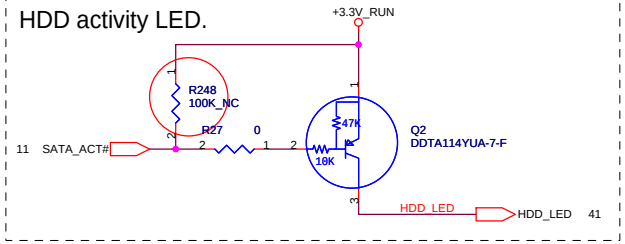
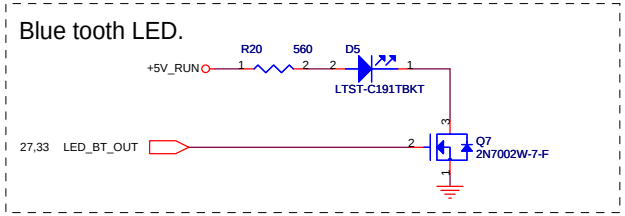
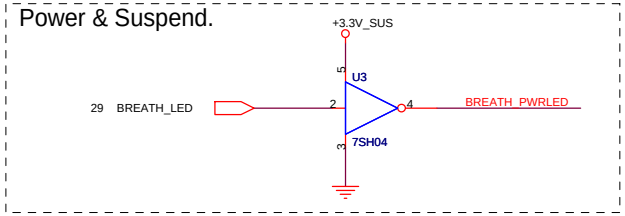
HDD activity LED.



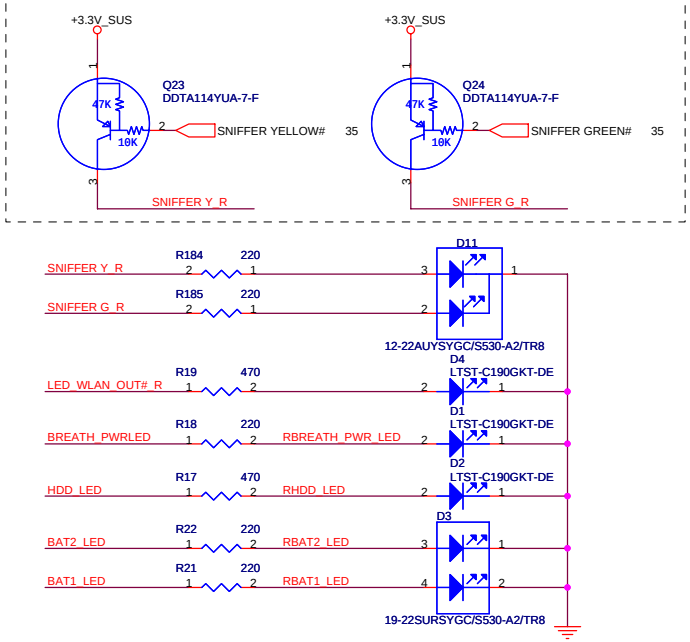
Blue tooth LED.



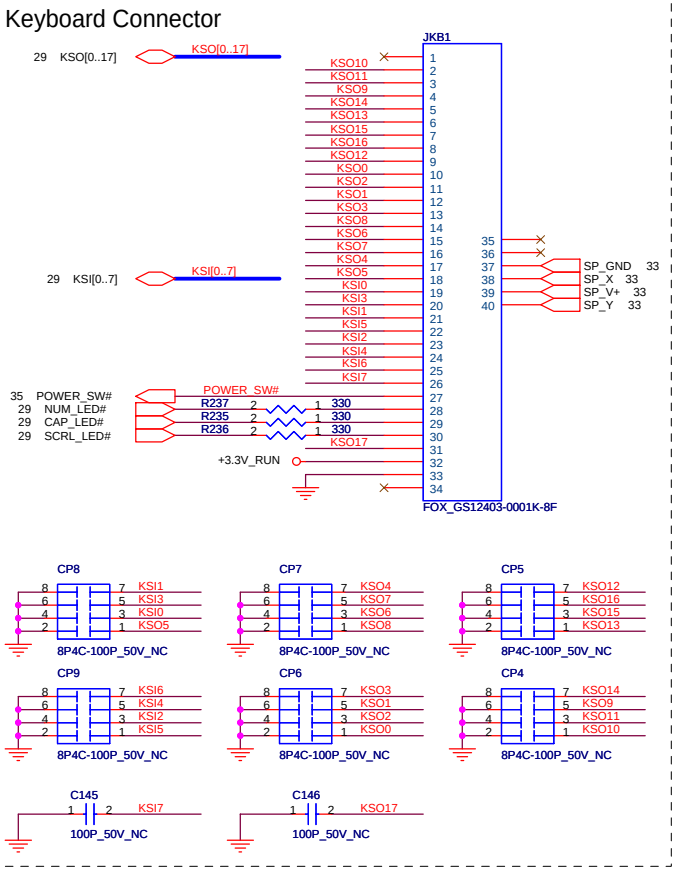
Power & Suspend.

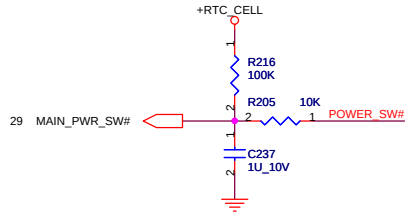


Sniffer LED

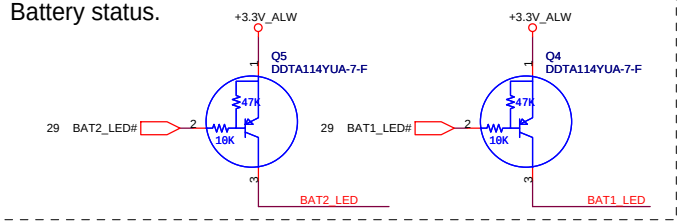


Keyboard Connector

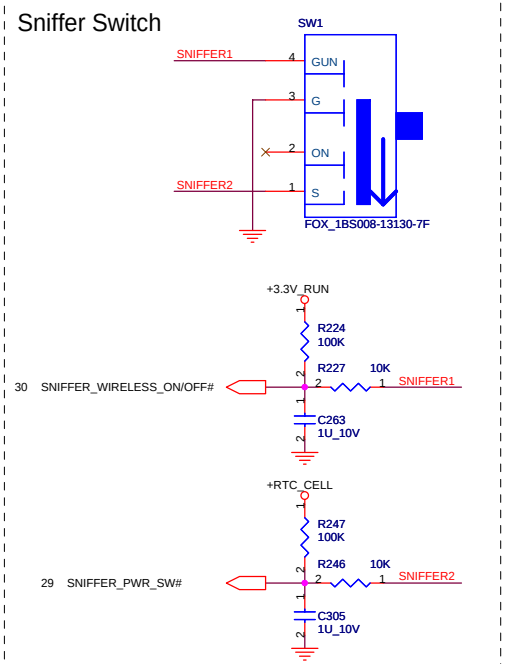




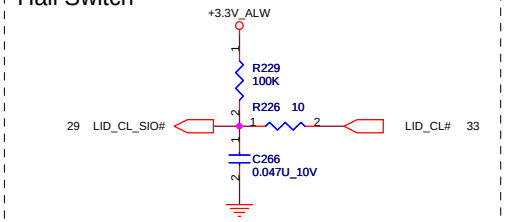
Battery status.



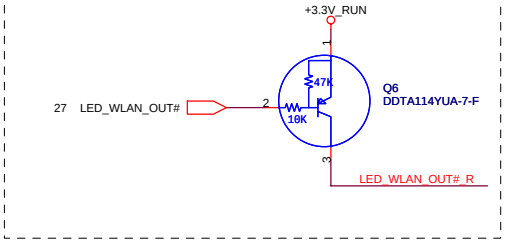
Sniffer Switch



Hall Switch



WLAN



QUANTA COMPUTER

Title	SWITCH, KEYBOARD & LED	
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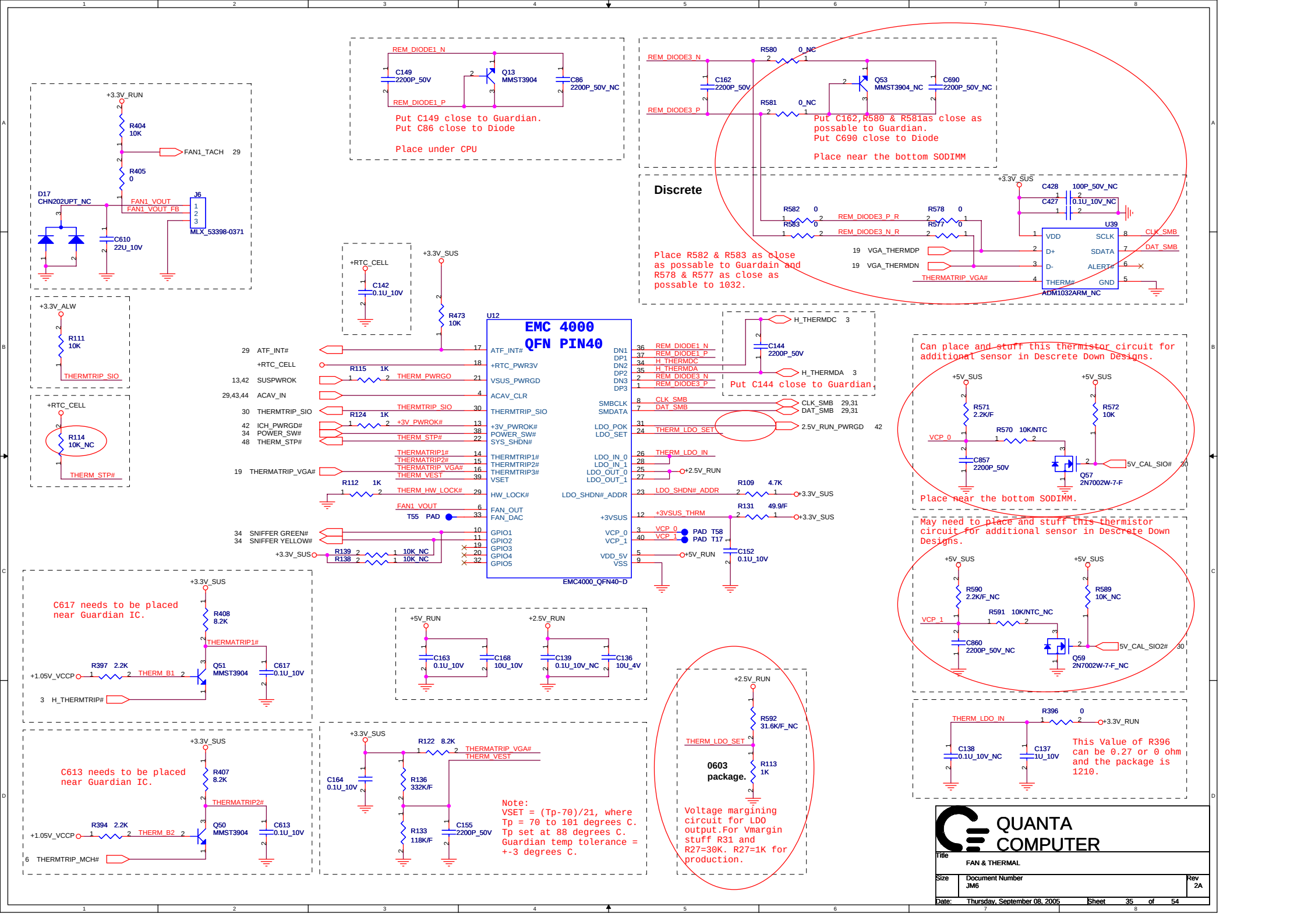
+3.3V_RUN
R404 10K
FAN1_TACH 29
R405 0
D17 CHN202UPT_NC
FAN1_VOUT
FAN1_VOUT_FB
J6
MLX_53398-0371
C610 22U_10V
+3.3V_ALW
R111 10K
THERMTRIP_SIO
+RTC_CELL
R114 10K_NC
THERM_STP#
REM_DIODE1_N
REM_DIODE1_P
C149 2200P_50V
Q13 MMST3904
C86 2200P_50V_NC
Put C149 close to Guardian.
Put C86 close to Diode
Place under CPU
REM_DIODE3_N
REM_DIODE3_P
R580 0_NC
R581 0_NC
C162 2200P_50V
Q53 MMST3904_NC
C690 2200P_50V_NC
Put C162,R580 & R581as close as possable to Guardian.
Put C690 close to Diode
Place near the bottom SODIMM
Discrete
+3.3V_SUS
C428 100P_50V_NC
C427 0.1U_10V_NC
R582 0
R583 0
R578 0
R577 0
REM_DIODE3_P_R
REM_DIODE3_N_R
U39
VDD
D+
D-
THERM#
SCLK
SDATA
ALERT#
GND
CLK_SMB
DAT_SMB
19 VGA_THERMDP
19 VGA_THERMDN
THERMATRIP_VGA#
ADM1032ARM_NC
Place R582 & R583 as close as possable to Guardain and R578 & R577 as close as possable to 1032.
+RTC_CELL
C142 0.1U_10V
+3.3V_SUS
R473 10K
U12
EMC 4000
QFN PIN40
EMC4000_QFN40-D
29 ATF_INT#
+RTC_CELL
13,42 SUSPWROK
29,43,44 ACAV_IN
30 THERMTRIP_SIO
42 ICH_PWRGD#
34 POWER_SW#
48 THERM_STP#
19 THERMATRIP_VGA#
34 SNIFFER GREEN#
34 SNIFFER YELLOW#
R115 1K
R124 1K
R112 1K
R139 10K_NC
R138 10K_NC
THERM_PWRGO
THERMTRIP_SIO
+3V_PWROK#
THERM_STP#
THERMATRIP1#
THERMATRIP2#
THERMATRIP_VGA#
THERM_VEST
THERM_HW_LOCK#
FAN1_VOUT
T55 PAD
ATF_INT#
+RTC_PWR3V
VSUS_PWRGD
ACAV_CLR
THERMTRIP_SIO
+3V_PWROK#
POWER_SW#
SYS_SHDN#
THERMTRIP1#
THERMTRIP2#
THERMTRIP3#
VSET
HW_LOCK#
FAN_OUT
FAN_DAC
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
DN1
DP1
DN2
DP2
DN3
DP3
SMBCLK
SMDATA
LDO_POK
LDO_SET
LDO_IN_0
LDO_IN_1
LDO_OUT_0
LDO_OUT_1
LDO_SHDN#_ADDR
+3VSUS
VCP_0
VCP_1
VDD_5V
VSS
REM_DIODE1_N
REM_DIODE1_P
H_THERMDC
H_THERMDA
REM_DIODE3_N
REM_DIODE3_P
CLK_SMB
DAT_SMB
THERM_LDO_SET
THERM_LDO_IN
+2.5V_RUN
LDO_SHDN# ADDR
R109 4.7K
+3.3V_SUS
+3VSUS_THRM
R131 49.9/F
PAD T58
PAD T17
+5V_RUN
C152 0.1U_10V
H_THERMDC 3
C144 2200P_50V
H_THERMDA 3
Put C144 close to Guardian
CLK_SMB 29,31
DAT_SMB 29,31
2.5V_RUN_PWRGD 42
Can place and stuff this thermistor circuit for additional sensor in Descrete Down Designs.
+5V_SUS
R571 2.2K/F
R572 10K
R570 10K/NTC
VCP_0
C857 2200P_50V
Q57 2N7002W-7-F
5V_CAL_SIO# 30
Place near the bottom SODIMM.
May need to place and stuff this thermistor circuit for additional sensor in Descrete Down Designs.
R590 2.2K/F_NC
R589 10K_NC
R591 10K/NTC_NC
VCP_1
C860 2200P_50V_NC
Q59 2N7002W-7-F_NC
5V_CAL_SIO2# 30
C617 needs to be placed near Guardian IC.
R408 8.2K
THERMATRIP1#
R397 2.2K
THERM_B1
Q51 MMST3904
C617 0.1U_10V
+1.05V_VCCP
3 H_THERMTRIP#
C613 needs to be placed near Guardian IC.
R407 8.2K
THERMATRIP2#
R394 2.2K
THERM_B2
Q50 MMST3904
C613 0.1U_10V
6 THERMTRIP_MCH#
+5V_RUN
+2.5V_RUN
C163 0.1U_10V
C168 10U_10V
C139 0.1U_10V_NC
C136 10U_4V
R122 8.2K
THERMATRIP_VGA#
THERM_VEST
C164 0.1U_10V
R136 332K/F
R133 118K/F
C155 2200P_50V
Note:
VSET = (Tp-70)/21, where Tp = 70 to 101 degrees C.
Tp set at 88 degrees C.
Guardian temp tolerance = +-3 degrees C.
R592 31.6K/F_NC
R113 1K
0603 package.
Voltage margining circuit for LDO output.For Vmargin stuff R31 and R27=30K. R27=1K for production.
R396 0
THERM_LDO_IN
C138 0.1U_10V_NC
C137 1U_10V
This Value of R396 can be 0.27 or 0 ohm and the package is 1210.
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INTERNAL SPEAKER AMP

NOTE:Speaker trace width should be minimum 10 Mils.

+5V_SUS +5V_AMP_VCC L35 BLM21PG600SN1D W=40 mils C303 10U_10V C291 0.1U_10V C292 0.1U_10V C324 1U_10V

+5V_AMP_VCC U22 TPA6017A2/FAN7031/LM4874
PVDD1 PVDD2 VDD LIN- RIN- LIN+ RIN+ BYPASS GAIN0 GAIN1 SHUTDOWN NC GND1 GND2 GND3 GND4
ROUT+ ROUT- LOUT+ LOUT-

AUD_LINE_OUT_L C326 0.047U_25V
AUD_LINE_OUT_R C290 0.047U_25V
LIN- RIN- PC_BEEP BYPASS AUD_GAIN0 AUD_GAIN1
INT_SPK_R1 INT_SPK_R2 INT_SPK_L1 INT_SPK_L2 SPK_SHUTDOWN#

C327 47P_50V_NC C289 47P_50V_NC C314 0.47U_10V

JSPK1 MLX_53398-0471
INT_SPK_R1 INT_SPK_R2 INT_SPK_L1 INT_SPK_L2
C686 100P_50V_NC C687 100P_50V_NC C688 100P_50V_NC C689 100P_50V_NC

+3.3V_RUN R232 100K SPK_SHUTDOWN#
Q58 2N7002W-7-F_NC EAPD
Q31 2N7002W-7-F NB_MUTE 30
R584 10K_NC

Close to U22.

+VDDA C282 0.1U_16V
30 BEEP 13 SPKR U19 74LVC1G86GW
R221 10K BEEP1 BEEP2 R225 2.2K C269 0.1U_10V
PC_BEEP
C330 0.047U_25V C329 0.047U_25V C854 47P_50V_NC C855 47P_50V_NC

+5V_AMP_VCC R255 1K_NC R252 1K AUD_GAIN0 AUD_GAIN1 R257 1K R249 1K_NC

GAIN0	GAIN1	AV	RIN
0	0	6dB	90K
0	1	10dB	70K
1	0	15.6dB	45K
1	1	21.6dB	25K

AZALIA (HD) CODEC

All CODEC analog audio inputs and outputs should be 5 Mil traces.

U21 STAC9200 32 PIN QFN STAC9200N

11 ICH_AZ_CODEC_SDOUT
11 ICH_AZ_CODEC_BITCLK
11 ICH_AZ_CODEC_SDIN0
11 ICH_AZ_CODEC_SYNC
11 ICH_AZ_CODEC_RST#
For tuning. R231 33 SDIN

NC1 SDATA_OUT BIT_CLK SDATA_IN SYNC RESET# — LINK
SPDIF I/O — SENSE_A GPIO0 GPIO1 GPIO2 SPDIF_IN/EAPD/GPIO3 SPDIF_OUT
CAP2 — FILTER
VREE — VREFOUT VREFIN
CD_L NC2 CD_R MONO_OUT — ANALOG I/O
UNIVERSAL JACKS — MIC_L MIC_R LINE_IN_L LINE_IN_R LINE_OUT_L LINE_OUT_R HP_OUT_L HP_OUT_R
AVDD2 DVDD AVSS1 AVSS2 DVSS2 — DC/AC POWER

SENSE_A R567 0_NC HP_NB_SENSE 30,37
DOCK_HP_MUTE# SPDIF_SHDN 30 DOCK_HP_MUTE# 30
EAPD
SPDIF_OUT R217 0 For tuning. SPDIF 41
AC97VREFI VREFOUT 37
NB_MICIN_L NB_MICIN_R INT_MIC_IN AUD_LINE_OUT_L AUD_LINE_OUT_R HP_OUT_L HP_OUT_R
NB_MICIN_L 37 NB_MICIN_R 37 INT_MIC_IN 37 HP_OUT_L 37 HP_OUT_R 37

+VDDA +3.3V_RUN

R241 5.1K/F SENSE_A Close to Pin 9.
R242 39.2K/F R243 20K
HP_NB_SENSE Q33 2N7002W-7-F Q34 2N7002W-7-F MIC_SWITCH 37

Close to pin 18. AC97VREFI C288 1U_10V

+3.3V_RUN R585 100K DOCK_HP_MUTE#

ICH_AZ_CODEC_BITCLK R230 22_NC C286 22P_50V_NC Close to pin 3.
ICH_AZ_CODEC_SDOUT R228 47_NC C284 22P_50V_NC Close to pin 2.
CAP2 C283 0.1U_10V C279 1U_10V Close to pin 20.

+3.3V_RUN W=30 mil C298 10U_10V C293 0.1U_10V C294 1U_10V
+VDDA W=20 mil C258 0.1U_16V C256 10U_10V

+5V_SUS C253 0.1U_10V C254 0.047U_25V C252 1U_10V
30 AUDIO_AVDD_ON
U18 TPS793475 Vin Vout GND EN BYP
Default pop the LDO.When U18 popped, no pop L32.
+VDDA=4.75V
C257 0.1U_10V C280 2.2U_10V C281 0.1U_10V C264 0.047U_25V
+VDDA +5V_RUN L32 BLM11A601S_NC

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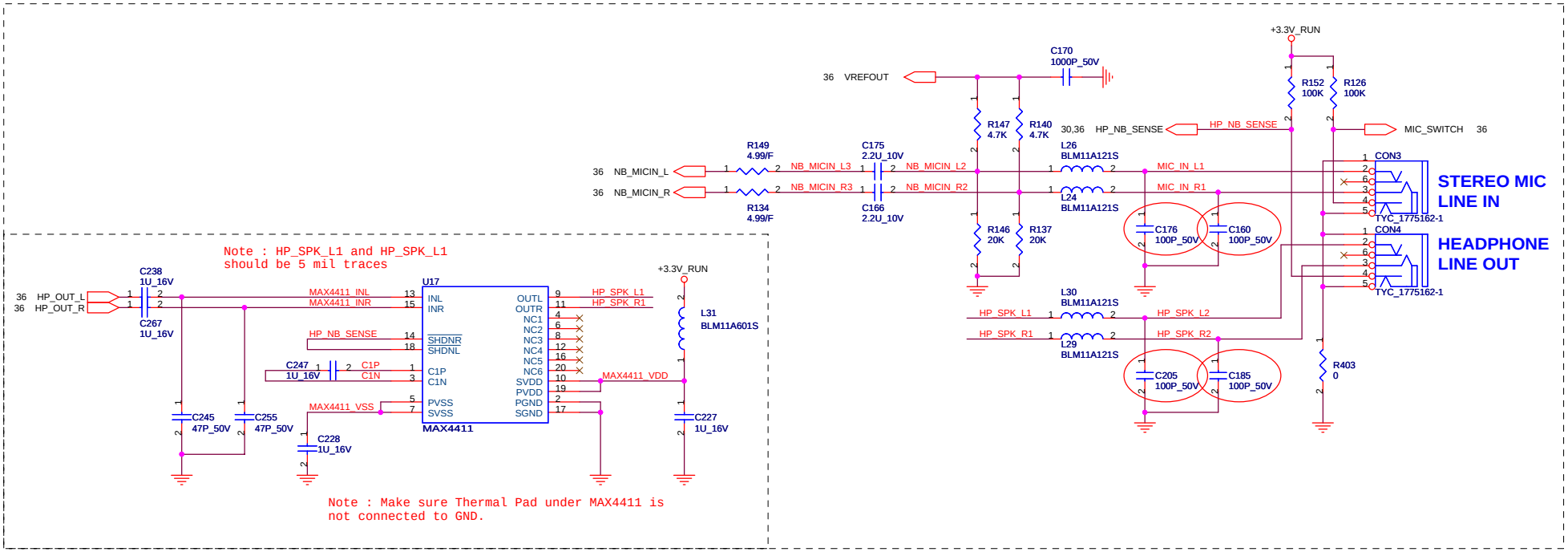

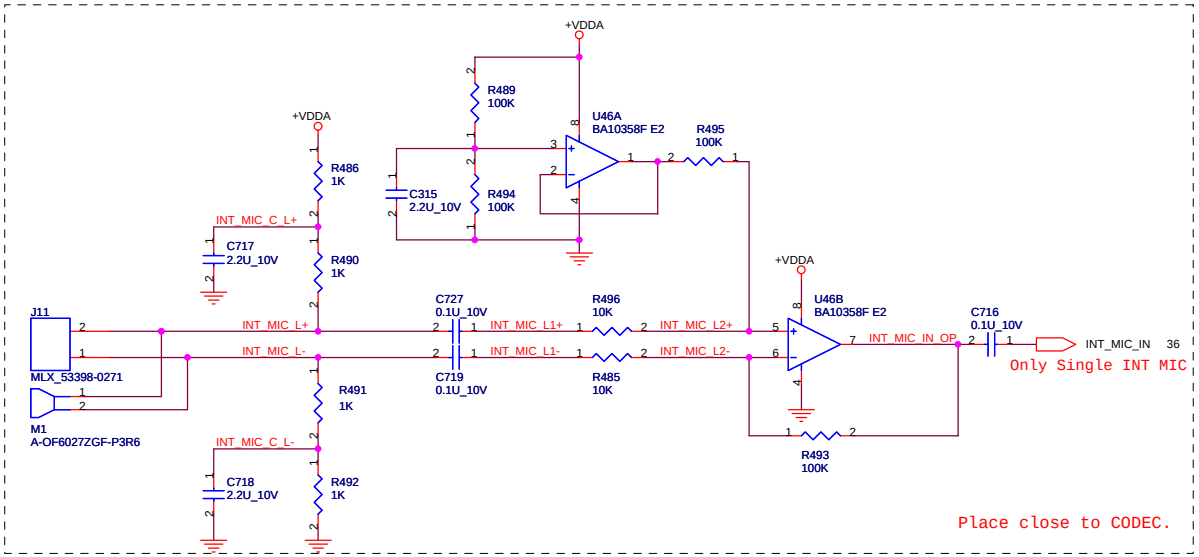

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Title: AUDIO CONN		
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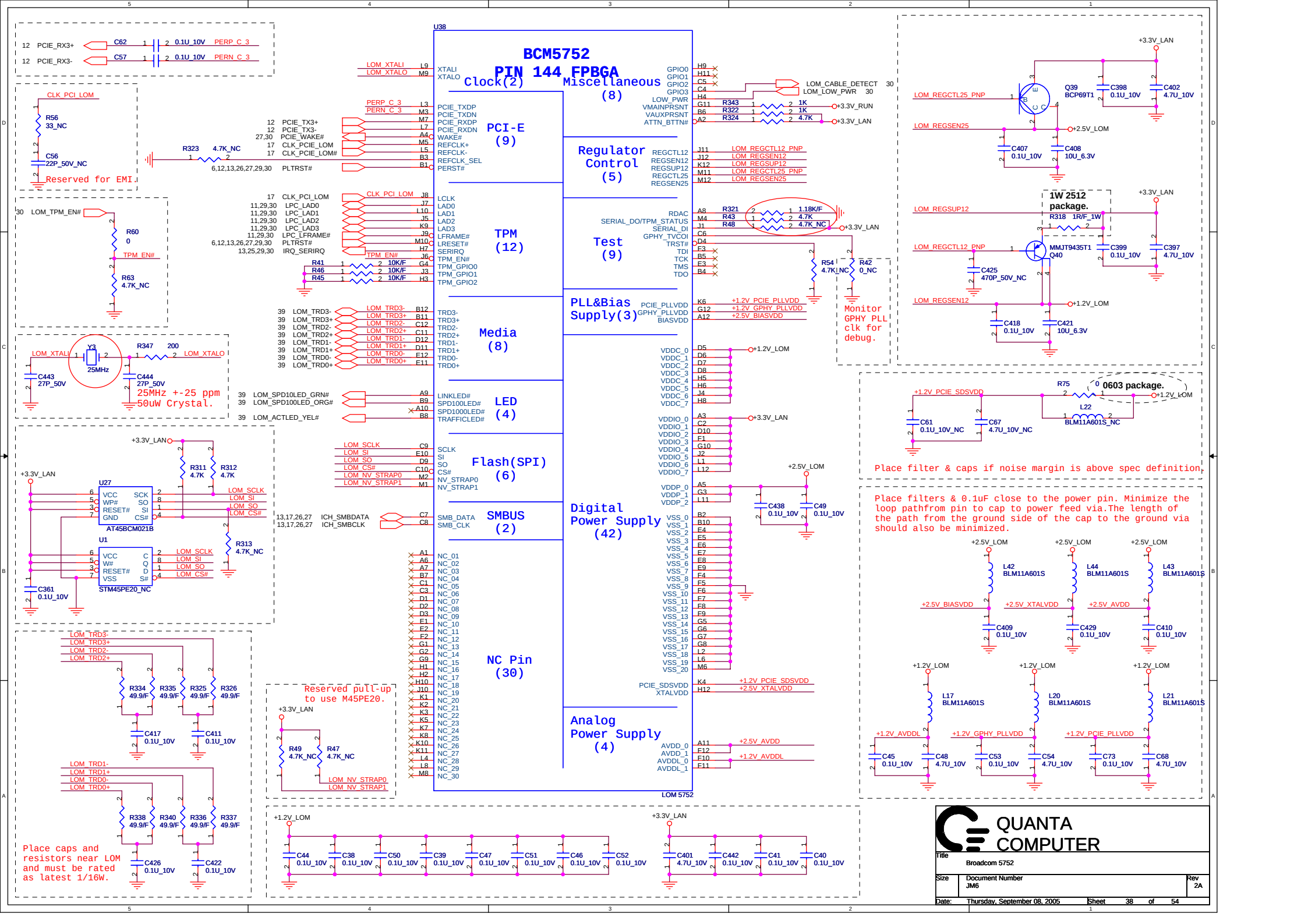
BCM5752
PIN 144 FPBGA
U38
Clock(2)
PCI-E (9)
TPM (12)
Media (8)
LED (4)
Flash(SPI) (6)
SMBUS (2)
NC Pin (30)
Miscellaneous (8)
Regulator Control (5)
Test (9)
PLL&Bias Supply(3)
Digital Power Supply (42)
Analog Power Supply (4)
LOM 5752
Reserved for EMI
25MHz +-25 ppm 50uW Crystal.
Monitor GPHY PLL clk for debug.
1W 2512 package.
0603 package.
Place filter & caps if noise margin is above spec definition.
Place filters & 0.1uF close to the power pin. Minimize the loop pathfrom pin to cap to power feed via.The length of the path from the ground side of the cap to the ground via should also be minimized.
Reserved pull-up to use M45PE20.
Place caps and resistors near LOM and must be rated as latest 1/16W.
AT45BCM021B
STM45PE20_NC
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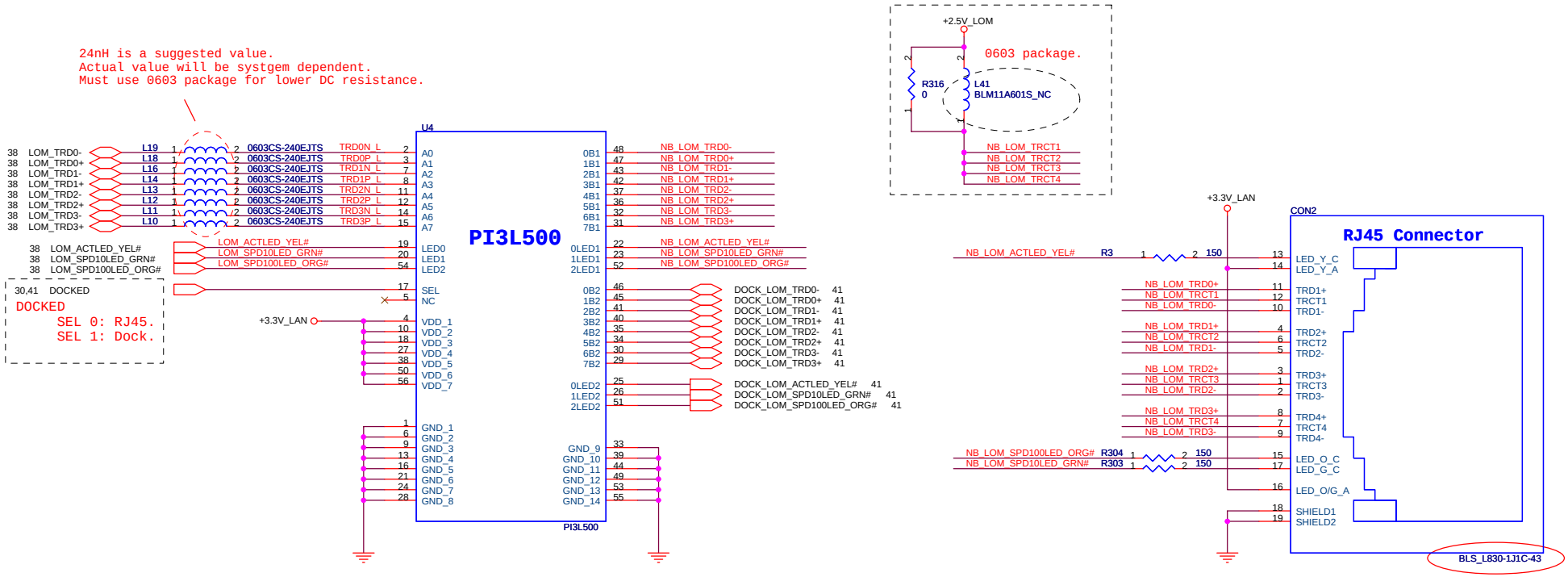
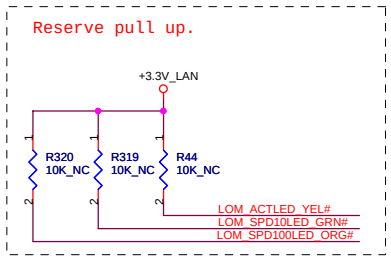
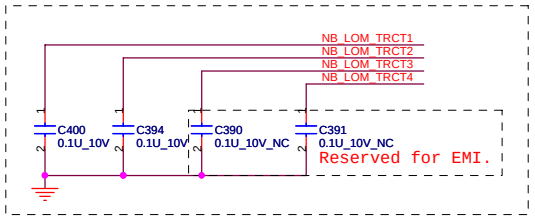
TRANSFORM+RJ45







QUANTA COMPUTER

Title	LAN SWITCH	
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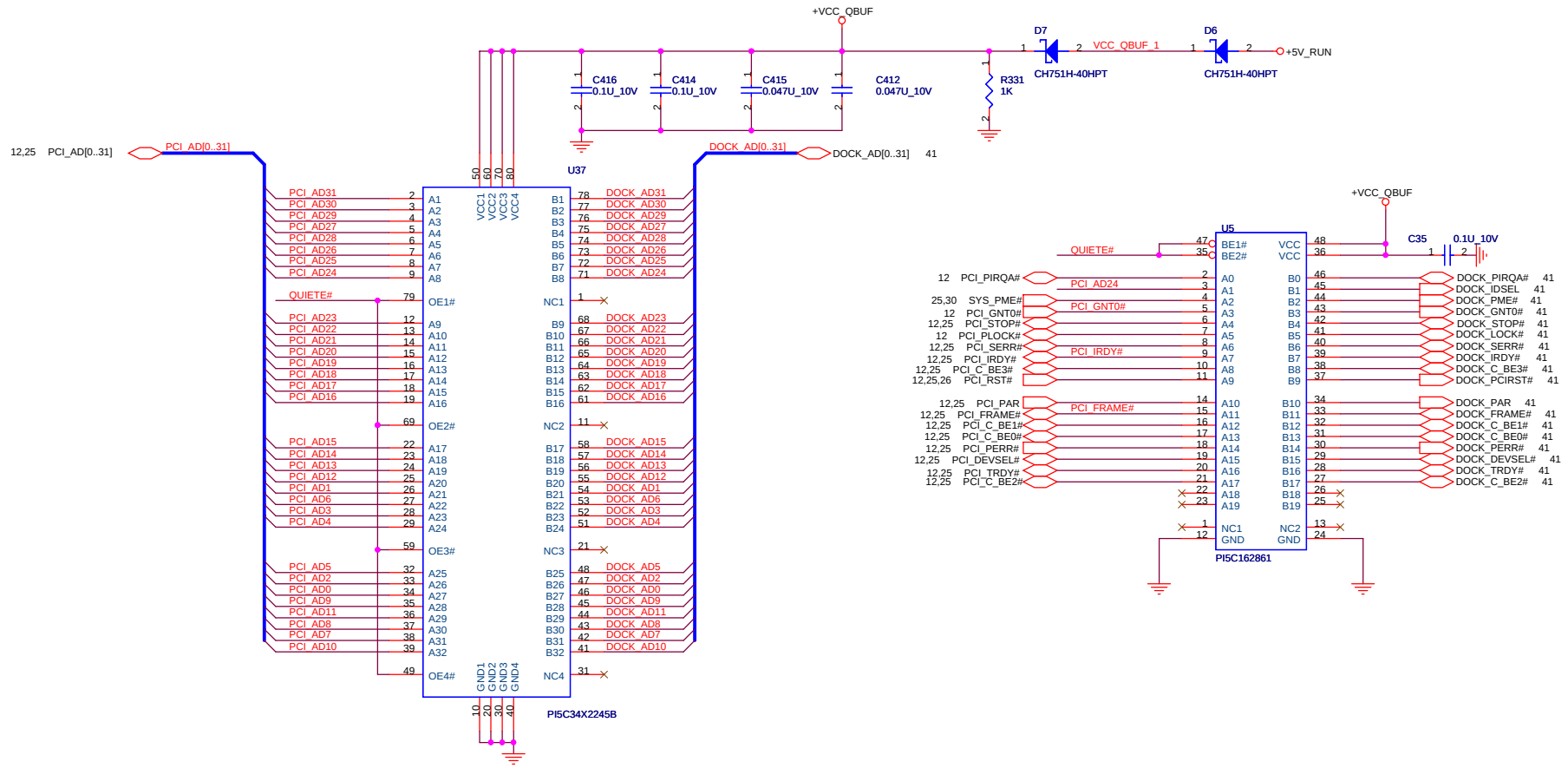

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Title	Docking Q-SWITCH	
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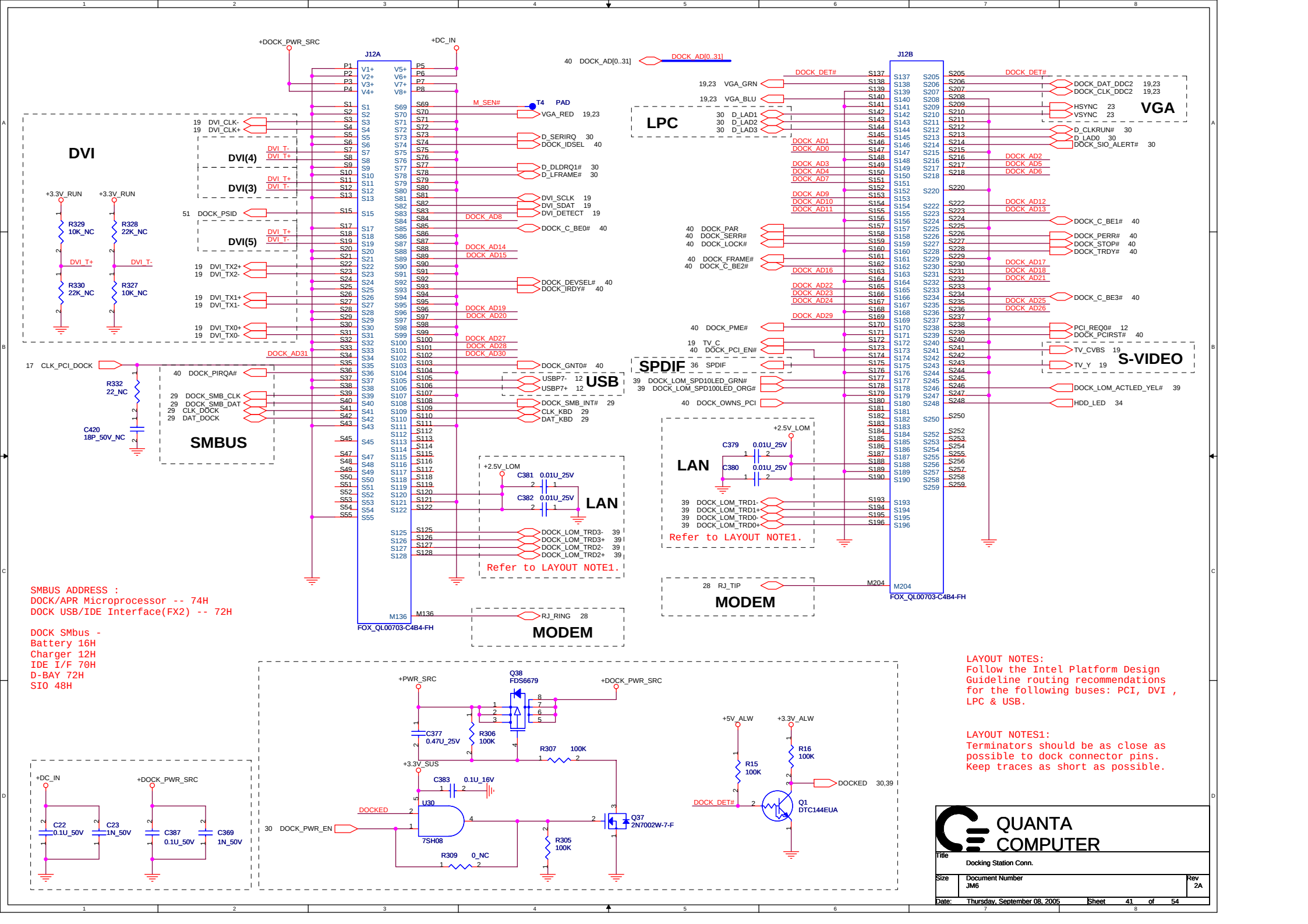
+DOCK_PWR_SRC
+DC_IN
J12A
DOCK_AD[0..31]
J12B
DVI
DVI(4)
DVI(3)
DVI(5)
+3.3V_RUN
R329 10K_NC
R328 22K_NC
R330 22K_NC
R327 10K_NC
DVI_CLK-
DVI_CLK+
DVI_T-
DVI_T+
DVI_TX2+
DVI_TX2-
DVI_TX1+
DVI_TX1-
DVI_TX0+
DVI_TX0-
DOCK_PSID
M_SEN#
T4 PAD
VGA_RED 19,23
D_SERIRQ 30
DOCK_IDSEL 40
D_DLDRQ1# 30
D_LFRAME# 30
DVI_SCLK 19
DVI_SDAT 19
DVI_DETECT 19
DOCK_C_BE0# 40
DOCK_AD8
DOCK_AD14
DOCK_AD15
DOCK_DEVSEL# 40
DOCK_IRDY# 40
DOCK_AD19
DOCK_AD20
DOCK_AD27
DOCK_AD28
DOCK_AD30
DOCK_AD31
DOCK_GNT0# 40
USB
USBP7- 12
USBP7+ 12
SMBUS
17 CLK_PCI_DOCK
R332 22_NC
C420 18P_50V_NC
40 DOCK_PIRQA#
29 DOCK_SMB_CLK
29 DOCK_SMB_DAT
29 CLK_DOCK
29 DAT_DOCK
DOCK_SMB_INT# 29
CLK_KBD 29
DAT_KBD 29
LAN
+2.5V_LOM
C381 0.01U_25V
C382 0.01U_25V
DOCK_LOM_TRD3- 39
DOCK_LOM_TRD3+ 39
DOCK_LOM_TRD2- 39
DOCK_LOM_TRD2+ 39
Refer to LAYOUT NOTE1.
MODEM
M136
RJ_RING 28
FOX_QL00703-C4B4-FH
LPC
30 D_LAD1
30 D_LAD2
30 D_LAD3
SPDIF
36 SPDIF
39 DOCK_LOM_SPD10LED_GRN#
39 DOCK_LOM_SPD100LED_ORG#
40 DOCK_OWNS_PCI
C379 0.01U_25V
C380 0.01U_25V
39 DOCK_LOM_TRD1-
39 DOCK_LOM_TRD1+
39 DOCK_LOM_TRD0-
39 DOCK_LOM_TRD0+
Refer to LAYOUT NOTE1.
28 RJ_TIP
M204
VGA
19,23 VGA_GRN
19,23 VGA_BLU
DOCK_DAT_DDC2 19,23
DOCK_CLK_DDC2 19,23
HSYNC 23
VSYNC 23
D_CLKRUN# 30
D_LAD0 30
DOCK_SIO_ALERT# 30
S-VIDEO
DOCK_C_BE1# 40
DOCK_PERR# 40
DOCK_STOP# 40
DOCK_TRDY# 40
DOCK_C_BE3# 40
PCI_REQ0# 12
DOCK_PCIRST# 40
TV_CVBS 19
TV_Y 19
DOCK_LOM_ACTLED_YEL# 39
HDD_LED 34
40 DOCK_PAR
40 DOCK_SERR#
40 DOCK_LOCK#
40 DOCK_FRAME#
40 DOCK_C_BE2#
40 DOCK_PME#
19 TV_C
40 DOCK_PCI_EN#
SMBUS ADDRESS :
DOCK/APR Microprocessor -- 74H
DOCK USB/IDE Interface(FX2) -- 72H
DOCK SMbus -
Battery 16H
Charger 12H
IDE I/F 70H
D-BAY 72H
SIO 48H
+PWR_SRC
Q38 FDS6679
C377 0.47U_25V
R306 100K
R307 100K
+3.3V_SUS
C383 0.1U_16V
U30
7SH08
DOCKED
30 DOCK_PWR_EN
R309 0_NC
R305 100K
Q37 2N7002W-7-F
+5V_ALW
+3.3V_ALW
R15 100K
R16 100K
Q1 DTC144EUA
DOCK_DET#
C22 0.1U_50V
C23 1N_50V
C387 0.1U_50V
C369 1N_50V
LAYOUT NOTES:
Follow the Intel Platform Design Guideline routing recommendations for the following buses: PCI, DVI , LPC & USB.
LAYOUT NOTES1:
Terminators should be as close as possible to dock connector pins. Keep traces as short as possible.
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Docking Station Conn.
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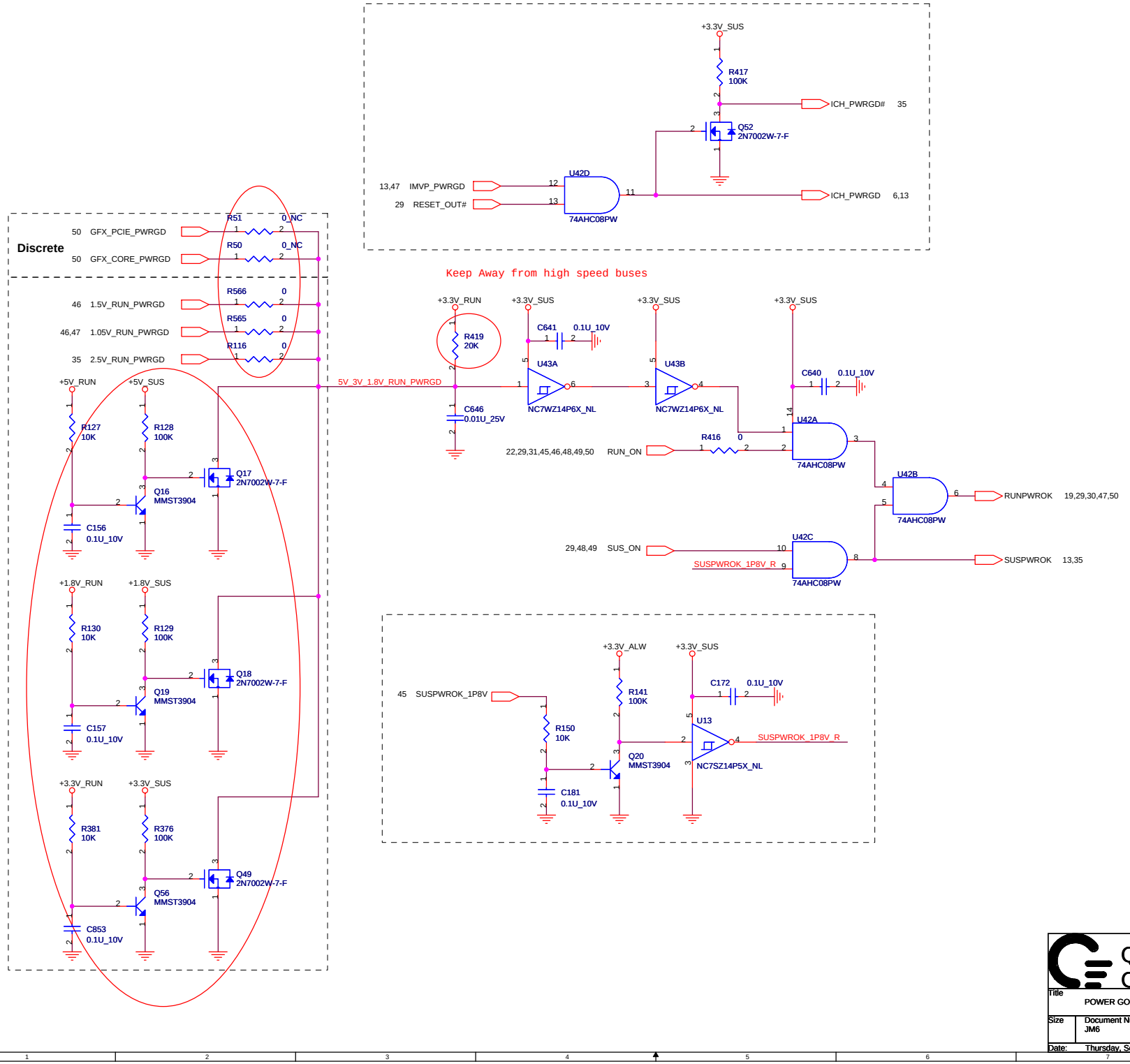

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Title	POWER GOOD	
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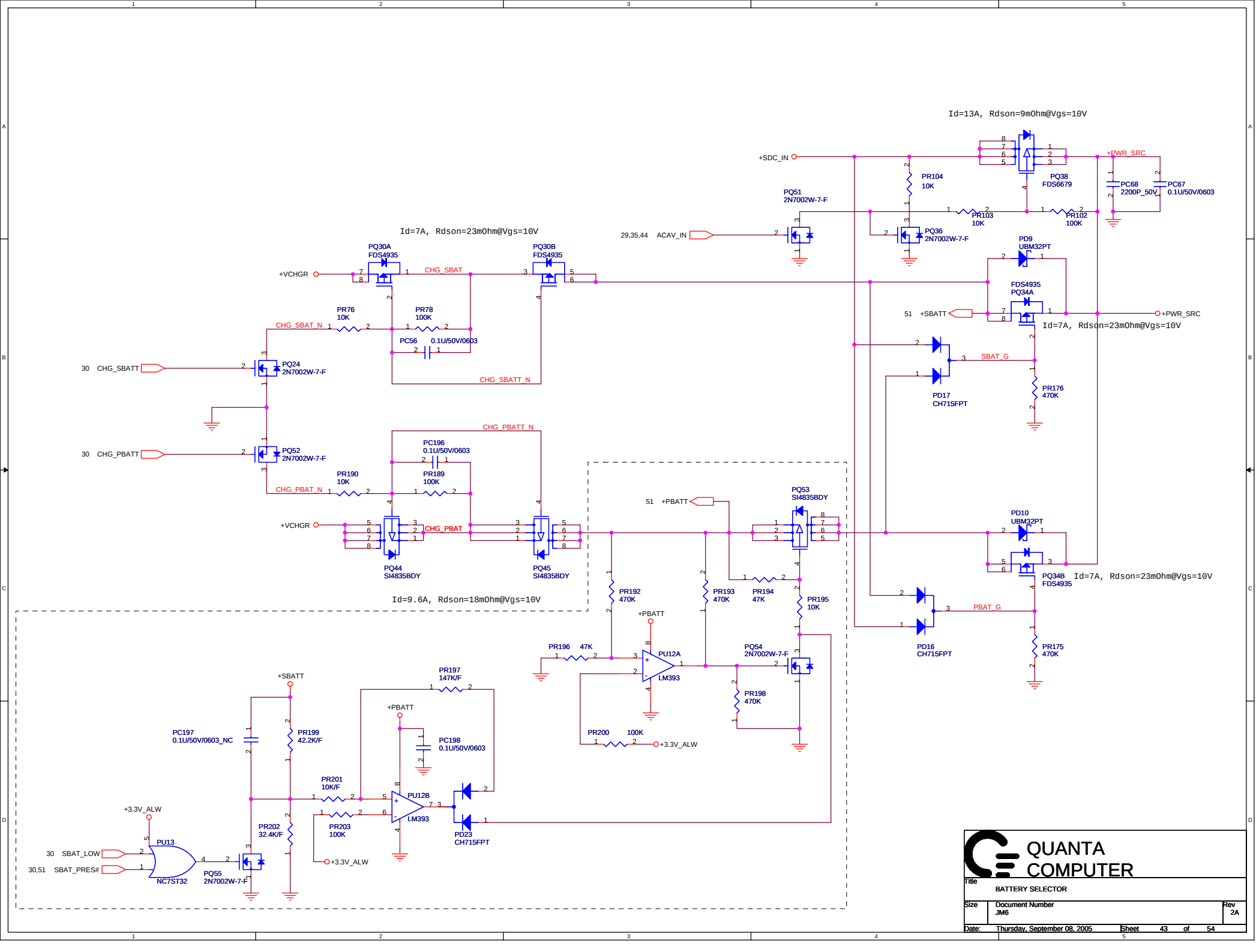
Id=13A, Rdson=9mOhm@Vgs=10V
+SDC_IN
PQ51
2N7002W-7-F
PR104
10K
PQ38
FDS6679
+PWR_SRC
PC68
2200P_50V
PC67
0.1U/50V/0603
PR103
10K
PR102
100K
PQ36
2N7002W-7-F
29,35,44 ACAV_IN
Id=7A, Rdson=23mOhm@Vgs=10V
PQ30A
FDS4935
PQ30B
FDS4935
+VCHGR
CHG_SBAT
PD9
UBM32PT
FDS4935
PQ34A
51 +SBATT
+PWR_SRC
Id=7A, Rdson=23mOhm@Vgs=10V
PR76
10K
PR78
100K
CHG_SBAT_N
PC56
0.1U/50V/0603
30 CHG_SBATT
PQ24
2N7002W-7-F
SBAT_G
PD17
CH715FPT
PR176
470K
CHG_PBATT_N
PC196
0.1U/50V/0603
30 CHG_PBATT
PQ52
2N7002W-7-F
PR190
10K
PR189
100K
CHG_PBAT_N
+VCHGR
CHG_PBAT
PQ44
SI4835BDY
PQ45
SI4835BDY
51 +PBATT
PQ53
SI4835BDY
PD10
UBM32PT
PQ34B
FDS4935
Id=7A, Rdson=23mOhm@Vgs=10V
Id=9.6A, Rdson=18mOhm@Vgs=10V
PR192
470K
PR193
470K
PR194
47K
PR195
10K
PBAT_G
PD16
CH715FPT
PR175
470K
+PBATT
PR196
47K
PU12A
LM393
PQ54
2N7002W-7-F
PR198
470K
PR200
100K
+3.3V_ALW
PR197
147K/F
+SBATT
PC197
0.1U/50V/0603_NC
PR199
42.2K/F
+PBATT
PC198
0.1U/50V/0603
PR201
10K/F
PU12B
LM393
+3.3V_ALW
PR203
100K
PD23
CH715FPT
PR202
32.4K/F
PU13
NC7ST32
30 SBAT_LOW
30,51 SBAT_PRES#
PQ55
2N7002W-7-F
QUANTA
COMPUTER
Title
BATTERY SELECTOR
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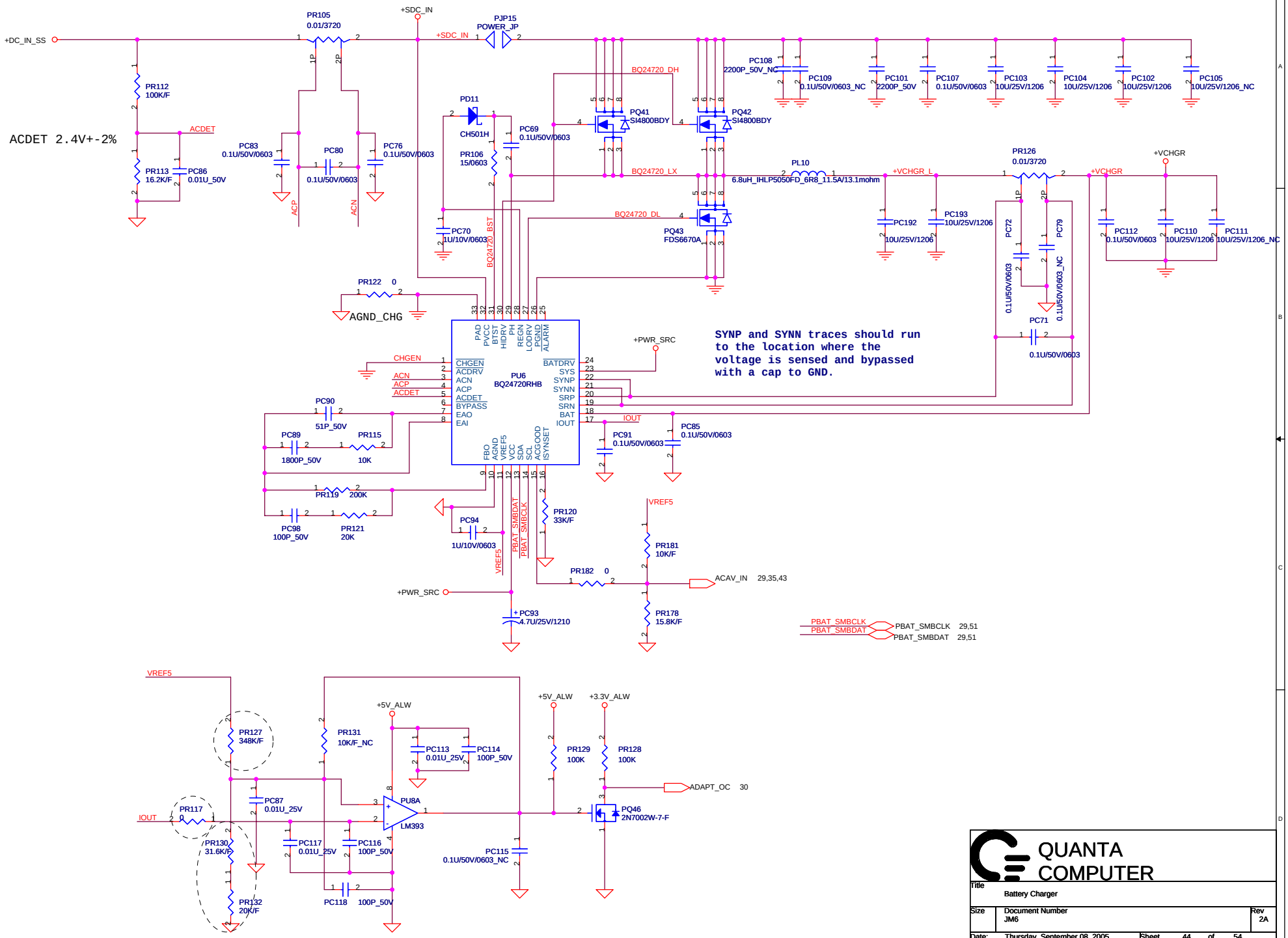
ACDET 2.4V+-2%
SYNP and SYNN traces should run to the location where the voltage is sensed and bypassed with a cap to GND.
PU6 BQ24720RHB
PU8A LM393
PQ41 SI4800BDY
PQ42 SI4800BDY
PQ43 FDS6670A
PQ46 2N7002W-7-F
PD11 CH501H
PL10 6.8uH_IHLP5050FD_6R8_11.5A/13.1mohm
+DC_IN_SS
+SDC_IN
+PWR_SRC
+VCHGR
+VCHGR_L
+5V_ALW
+3.3V_ALW
AGND_CHG
VREF5
IOUT
ACAV_IN 29,35,43
ADAPT_OC 30
PBAT_SMBCLK 29,51
PBAT_SMBDAT 29,51
QUANTA COMPUTER
Title: Battery Charger
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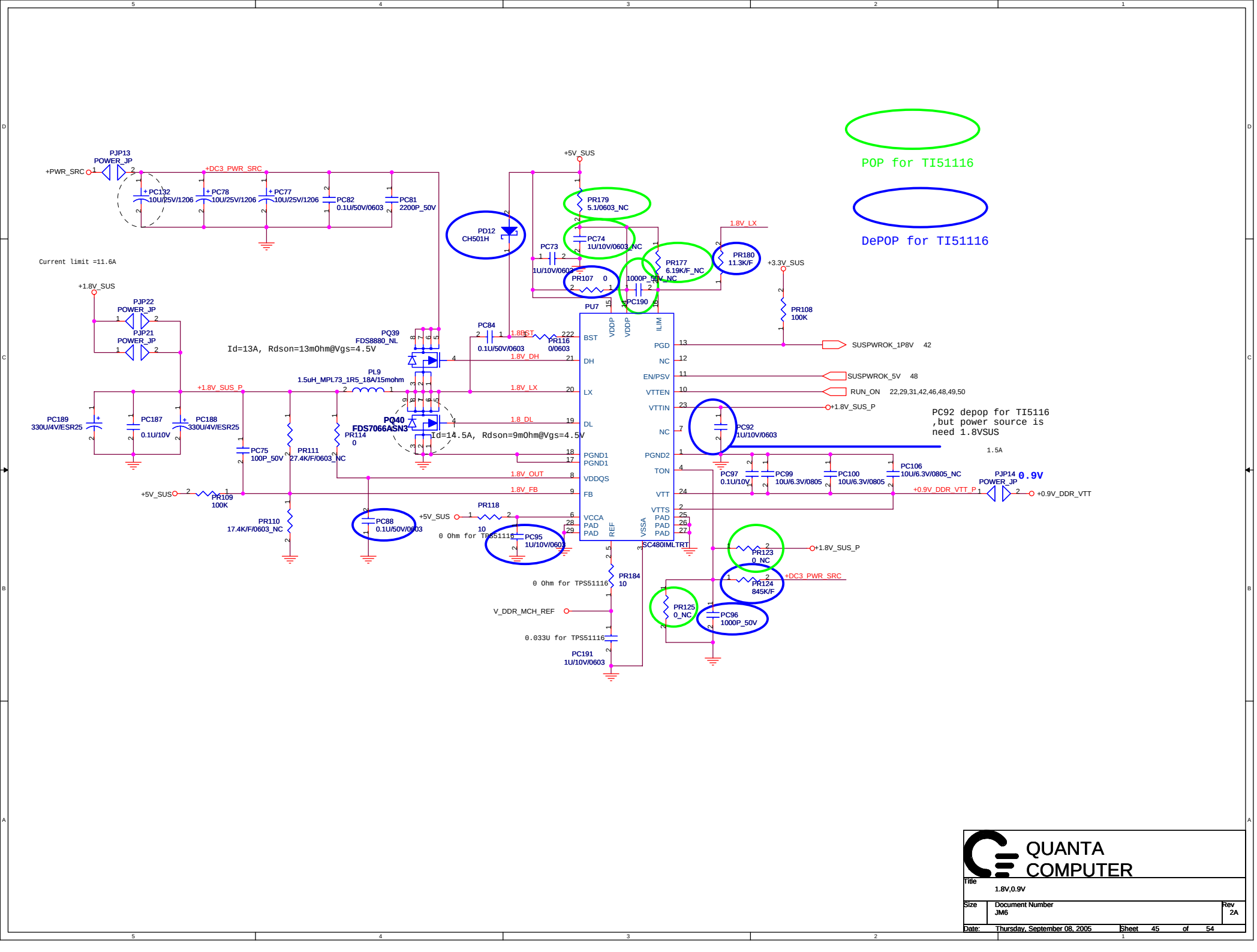

QUANTA COMPUTER

Title	1.8V,0.9V	
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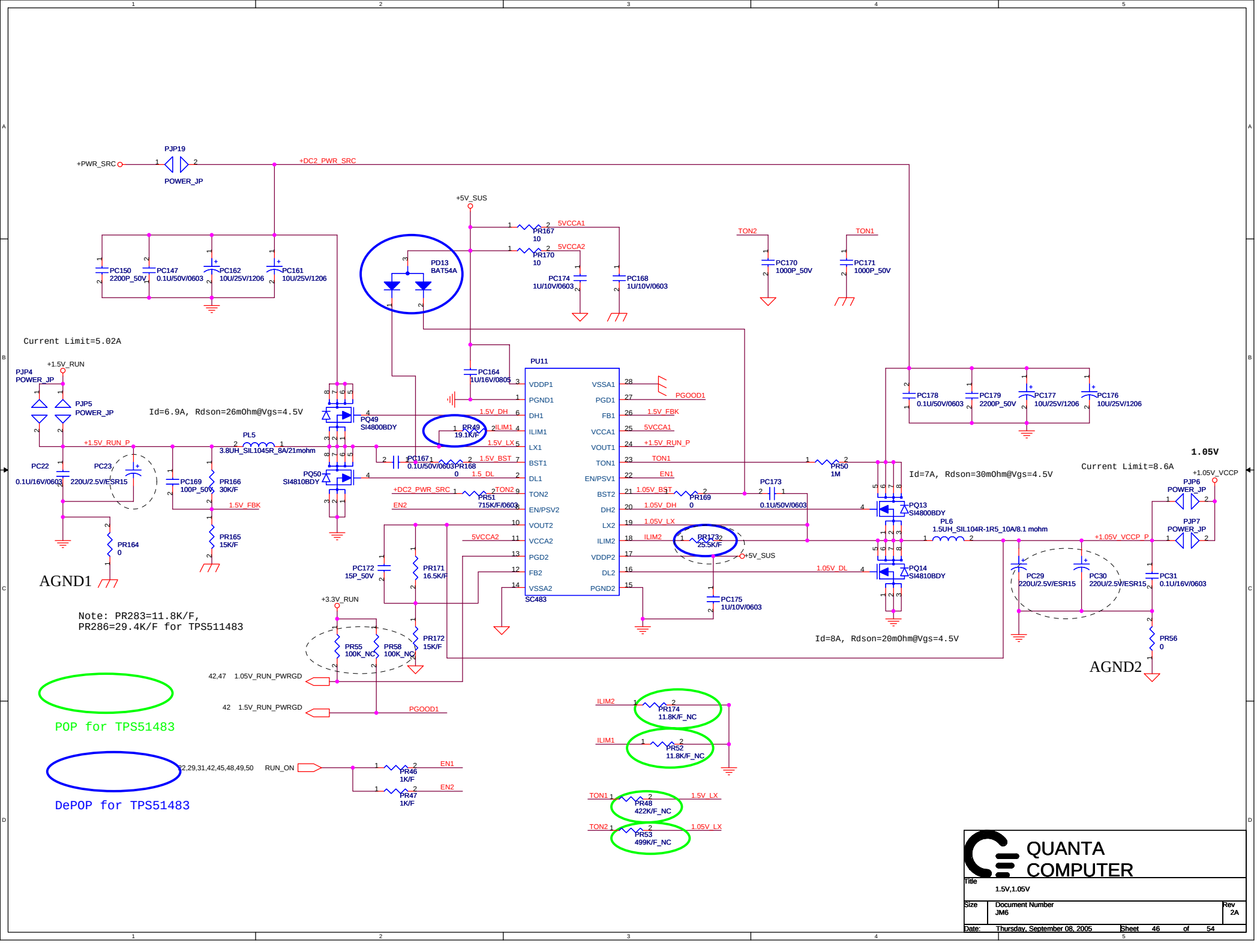

Note: PR283=11.8K/F,
PR286=29.4K/F for TPS511483

QUANTA COMPUTER		
Title: 1.5V,1.05V		
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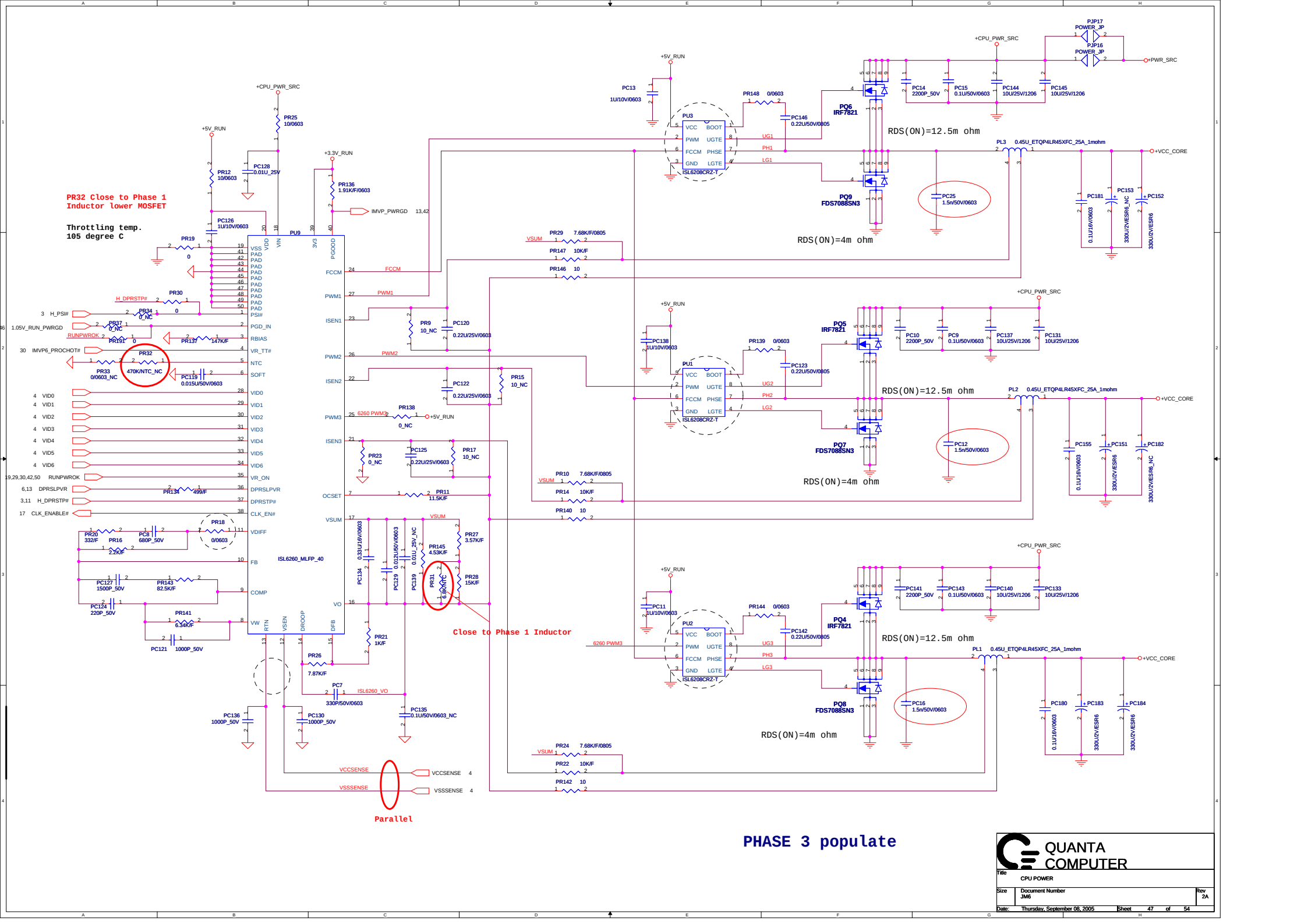
PR32 Close to Phase 1 Inductor lower MOSFET
Throttling temp. 105 degree C
Close to Phase 1 Inductor
Parallel
PHASE 3 populate
ISL6260_MLFP_40
ISL6208CRZ-T
RDS(ON)=12.5m ohm
RDS(ON)=4m ohm
PQ6 IRF7821
PQ9 FDS7088SN3
PQ5 IRF7821
PQ7 FDS7088SN3
PQ4 IRF7821
PQ8 FDS7088SN3
PL3 0.45U_ETQP4LR45XFC_25A_1mohm
PL2 0.45U_ETQP4LR45XFC_25A_1mohm
PL1 0.45U_ETQP4LR45XFC_25A_1mohm
+CPU_PWR_SRC
+PWR_SRC
+VCC_CORE
+5V_RUN
+3.3V_RUN
VCCSENSE
VSSSENSE
QUANTA COMPUTER
CPU POWER
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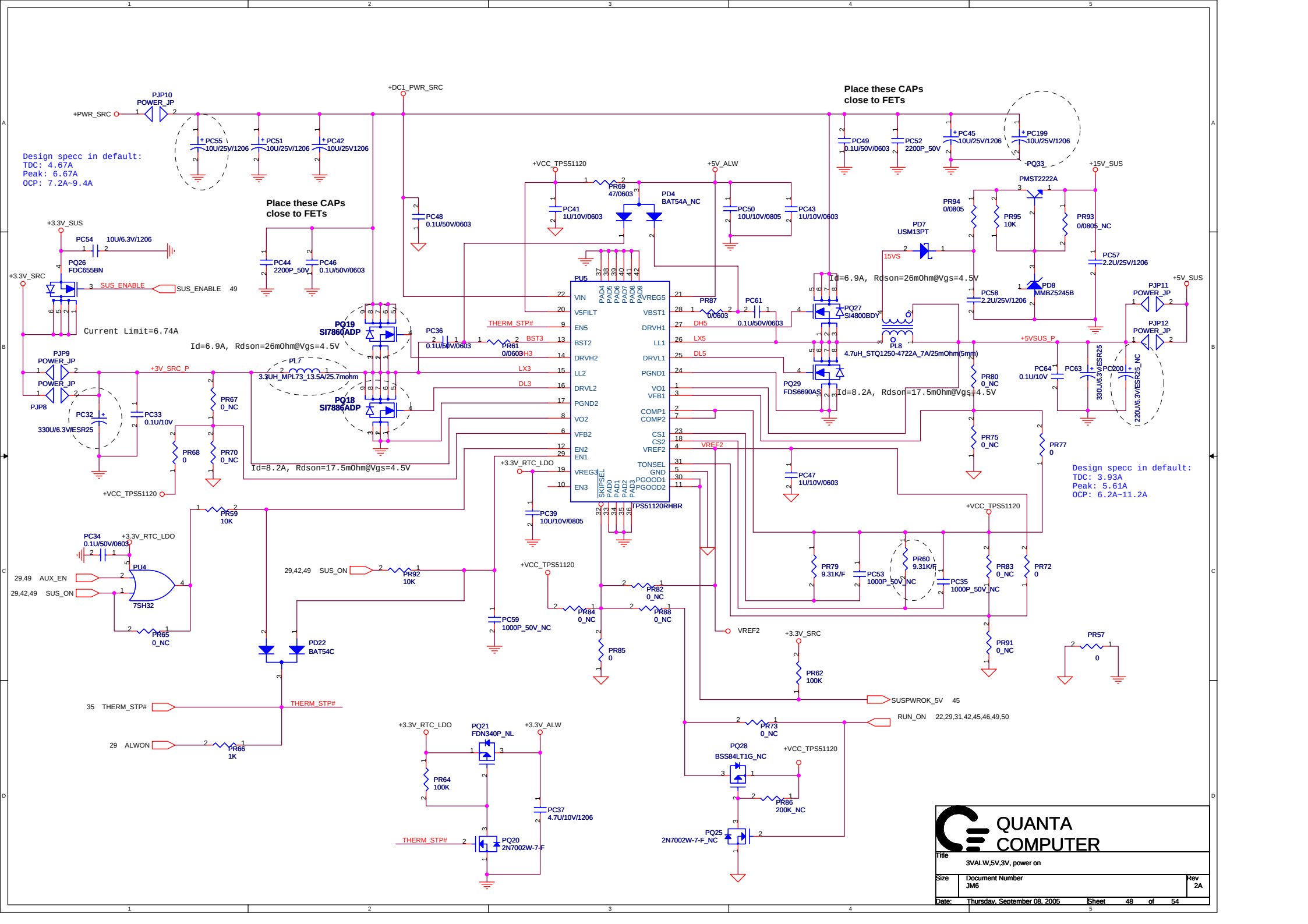
Design specc in default:
TDC: 4.67A
Peak: 6.67A
OCP: 7.2A~9.4A
Place these CAPs close to FETs
Place these CAPs close to FETs
Current Limit=6.74A
Id=6.9A, Rdson=26mOhm@Vgs=4.5V
Id=8.2A, Rdson=17.5mOhm@Vgs=4.5V
Id=6.9A, Rdson=26mOhm@Vgs=4.5V
Id=8.2A, Rdson=17.5mOhm@Vgs=4.5V
Design specc in default:
TDC: 3.93A
Peak: 5.61A
OCP: 6.2A~11.2A
PU5
TPS51120RHBR
PQ18 SI7886ADP
PQ19 SI7860ADP
PQ26 FDC655BN
PQ27 SI4800BDY
PQ29 FDS6690AS
PQ28 BSS84LT1G_NC
PQ21 FDN340P_NL
PQ20 2N7002W-7-F
PQ25 2N7002W-7-F_NC
PD4 BAT54A_NC
PD22 BAT54C
PD7 USM13PT
PD8 MMBZ5245B
PU4 7SH32
PL7 3.3UH_MPL73_13.5A/25.7mohm
PL8 4.7uH_STQ1250-4722A_7A/25mOhm(5mm)
PMST2222A
+DC1_PWR_SRC
+PWR_SRC
+VCC_TPS51120
+5V_ALW
+15V_SUS
+3.3V_SUS
+3.3V_SRC
+5V_SUS
+3V_SRC_P
+5VSUS_P
+3.3V_RTC_LDO
+3.3V_ALW
VREF2
15VS
SUS_ENABLE
SUS_ENABLE 49
AUX_EN 29,49
SUS_ON 29,42,49
THERM_STP# 35
ALWON 29
SUSPWROK_5V 45
RUN_ON 22,29,31,42,45,46,49,50
QUANTA COMPUTER
Title 3VALW,5V,3V, power on
Size Document Number JM6 Rev 2A
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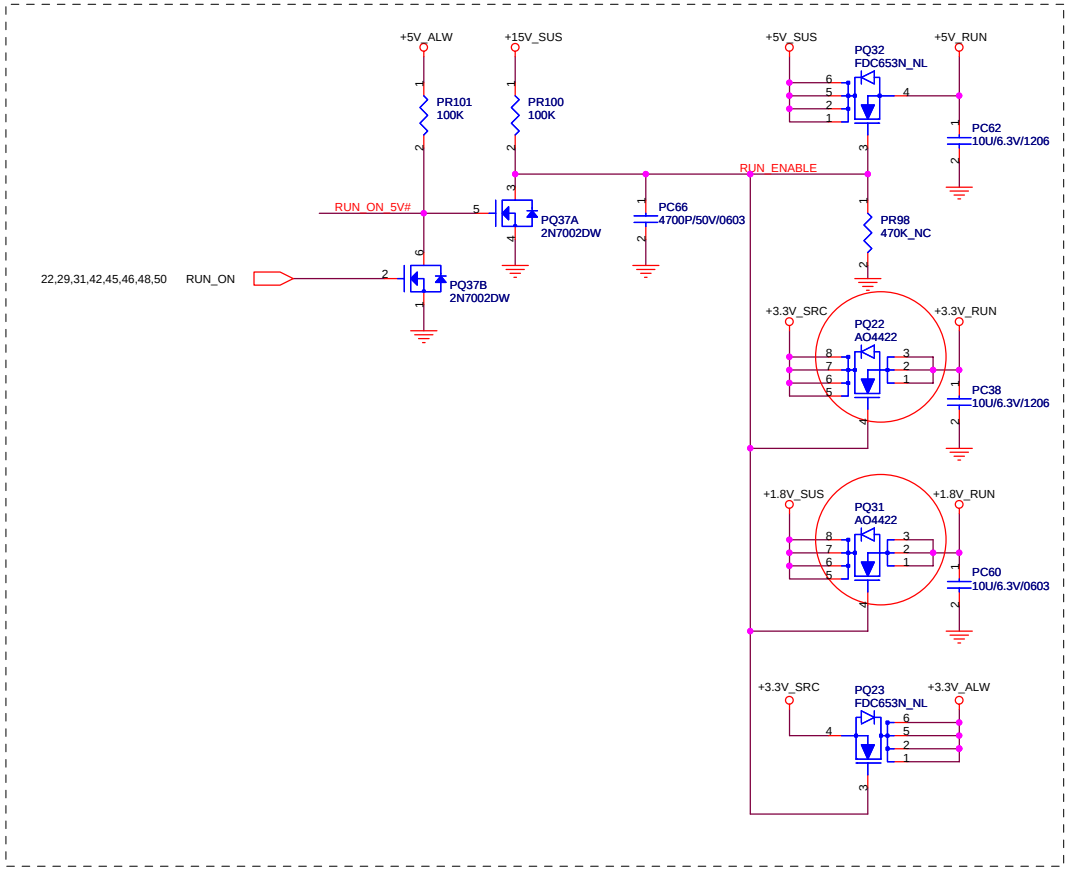

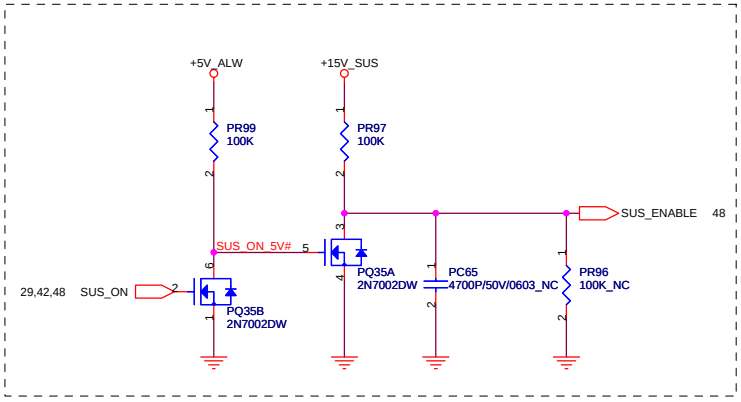

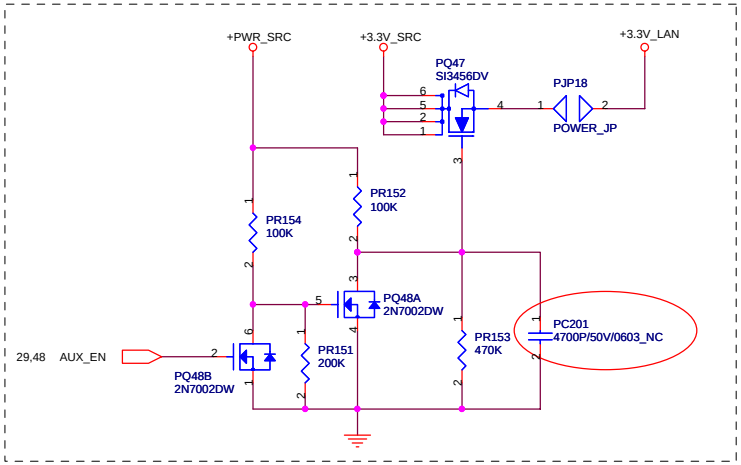

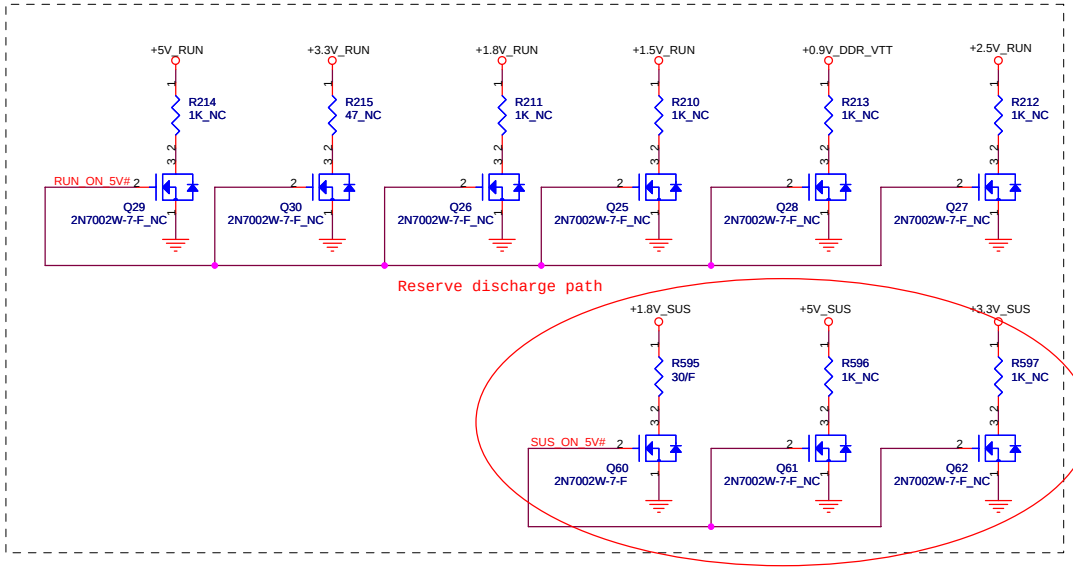

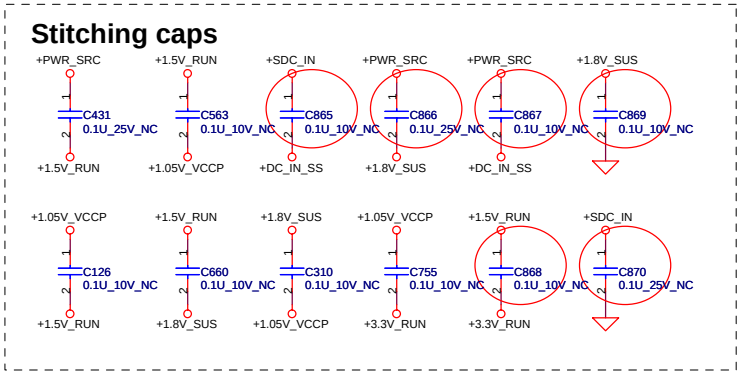

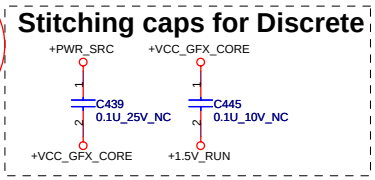

QUANTA COMPUTER

Title	RUN POWER SW	
Size	Document Number JM6	Rev 2A
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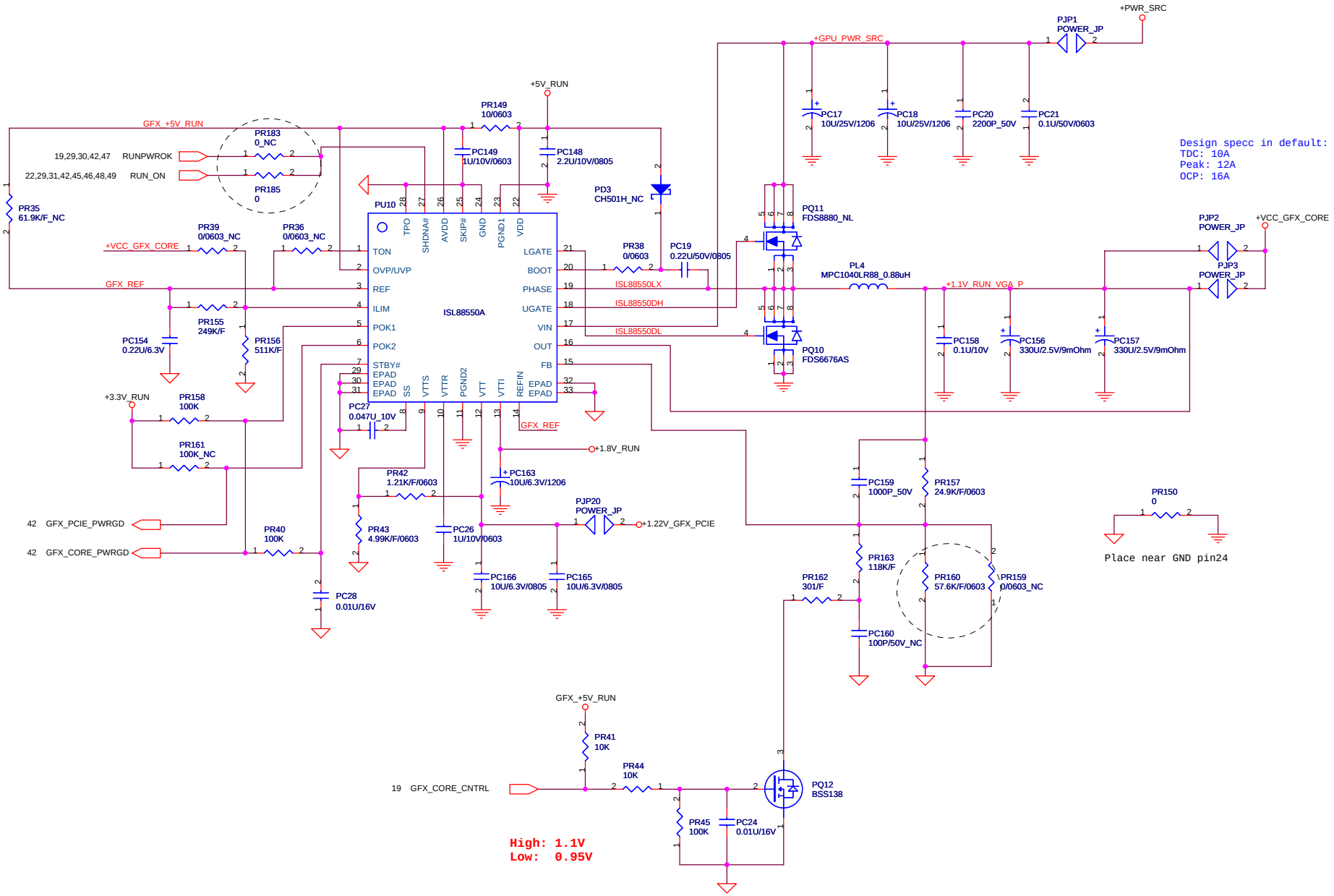

QUANTA COMPUTER

Title	VGA DC/DC	
Size	Document Number JM6	Rev 2A
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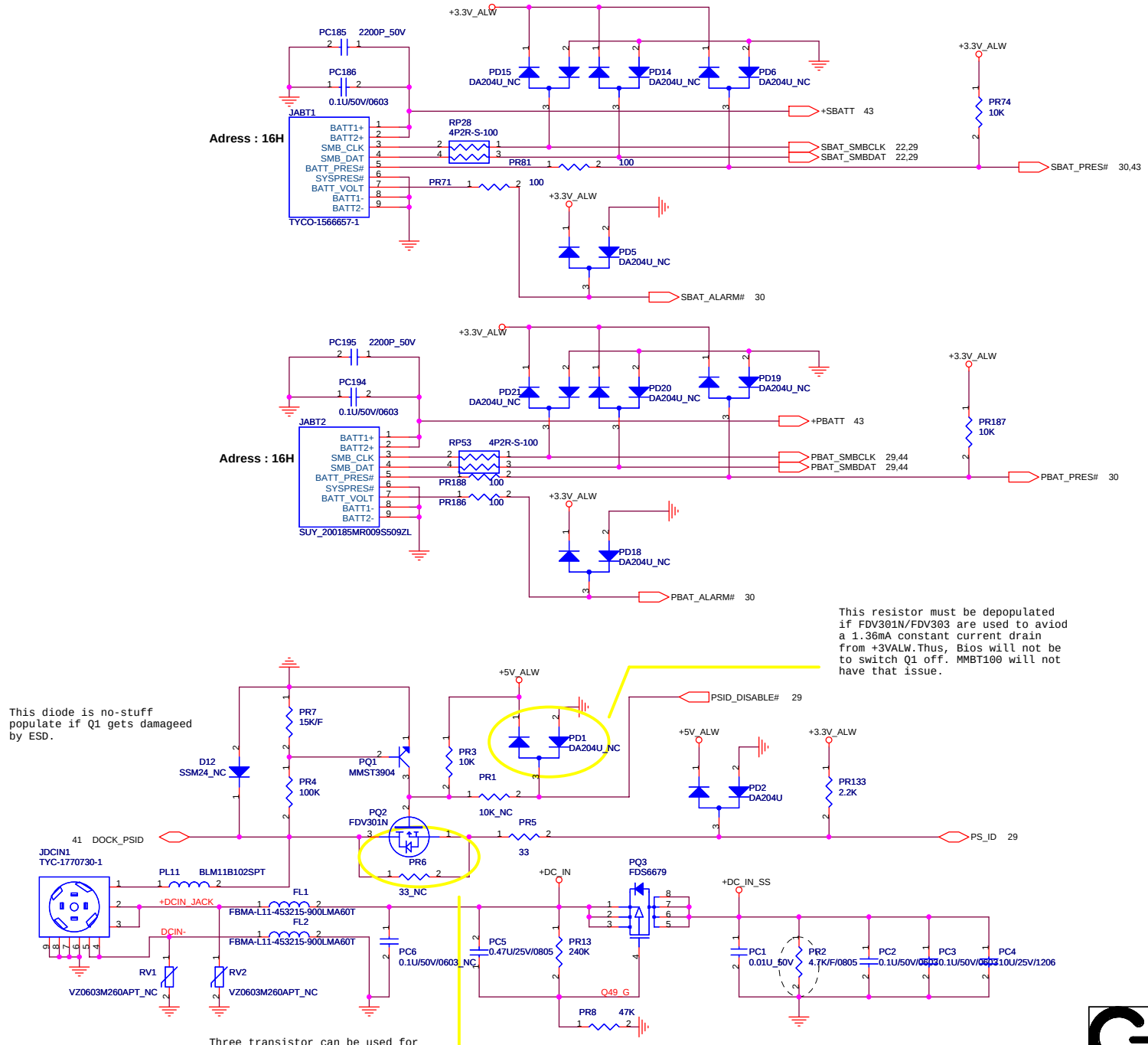

QUANTA COMPUTER

Title	DCIN,BATT CONNECTOR	
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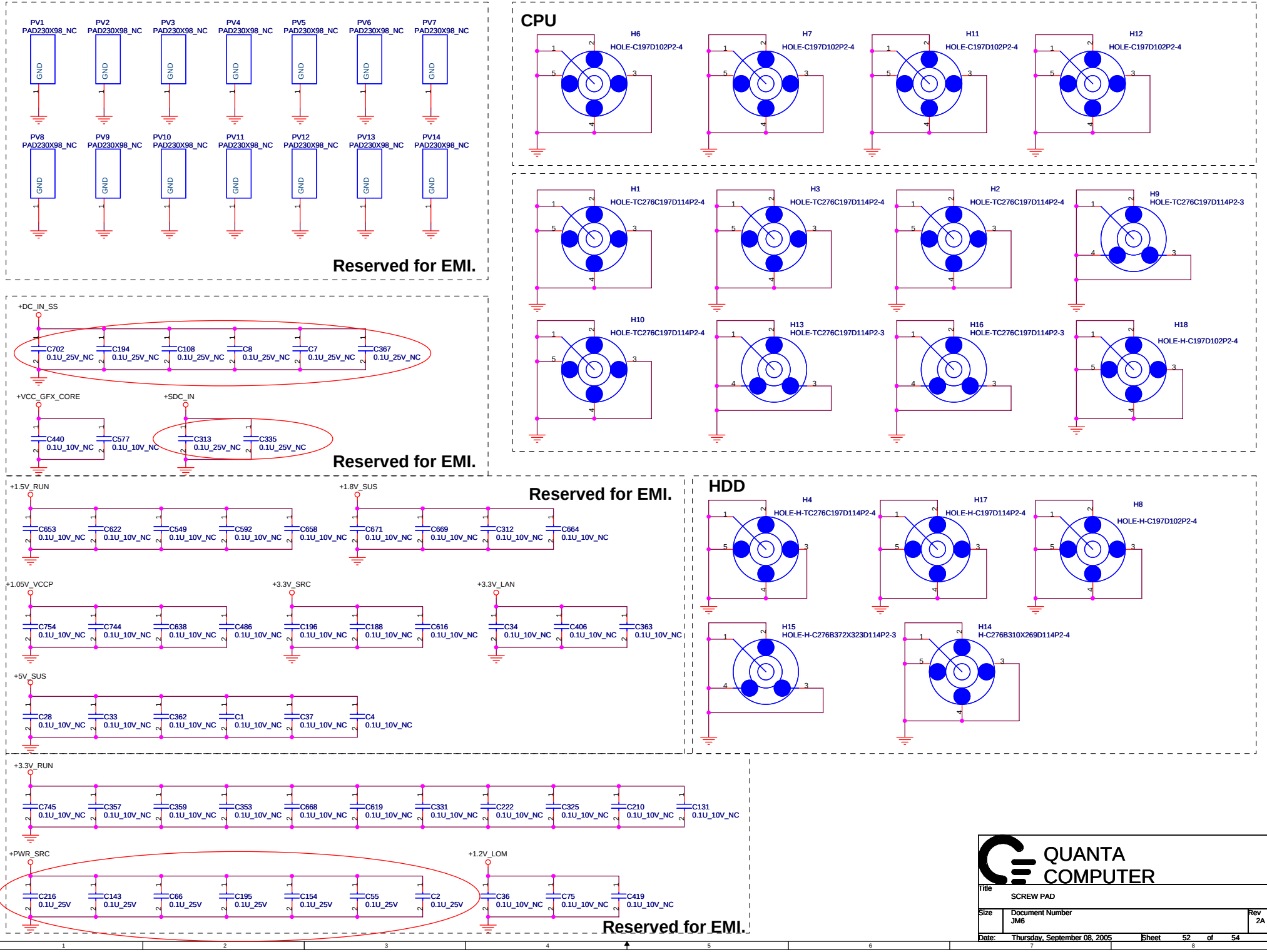
PV1 PAD230X98_NC
PV2 PAD230X98_NC
PV3 PAD230X98_NC
PV4 PAD230X98_NC
PV5 PAD230X98_NC
PV6 PAD230X98_NC
PV7 PAD230X98_NC
PV8 PAD230X98_NC
PV9 PAD230X98_NC
PV10 PAD230X98_NC
PV11 PAD230X98_NC
PV12 PAD230X98_NC
PV13 PAD230X98_NC
PV14 PAD230X98_NC
GND
Reserved for EMI.
CPU
H6 HOLE-C197D102P2-4
H7 HOLE-C197D102P2-4
H11 HOLE-C197D102P2-4
H12 HOLE-C197D102P2-4
H1 HOLE-TC276C197D114P2-4
H3 HOLE-TC276C197D114P2-4
H2 HOLE-TC276C197D114P2-4
H9 HOLE-TC276C197D114P2-3
H10 HOLE-TC276C197D114P2-4
H13 HOLE-TC276C197D114P2-3
H16 HOLE-TC276C197D114P2-3
H18 HOLE-H-C197D102P2-4
+DC_IN_SS
C702 0.1U_25V_NC
C194 0.1U_25V_NC
C108 0.1U_25V_NC
C8 0.1U_25V_NC
C7 0.1U_25V_NC
C367 0.1U_25V_NC
+VCC_GFX_CORE
C440 0.1U_10V_NC
C577 0.1U_10V_NC
+SDC_IN
C313 0.1U_25V_NC
C335 0.1U_25V_NC
Reserved for EMI.
+1.5V_RUN
C653 0.1U_10V_NC
C622 0.1U_10V_NC
C549 0.1U_10V_NC
C592 0.1U_10V_NC
C658 0.1U_10V_NC
+1.8V_SUS
C671 0.1U_10V_NC
C669 0.1U_10V_NC
C312 0.1U_10V_NC
C664 0.1U_10V_NC
+1.05V_VCCP
C754 0.1U_10V_NC
C744 0.1U_10V_NC
C638 0.1U_10V_NC
C486 0.1U_10V_NC
+3.3V_SRC
C196 0.1U_10V_NC
C188 0.1U_10V_NC
C616 0.1U_10V_NC
+3.3V_LAN
C34 0.1U_10V_NC
C406 0.1U_10V_NC
C363 0.1U_10V_NC
+5V_SUS
C28 0.1U_10V_NC
C33 0.1U_10V_NC
C362 0.1U_10V_NC
C1 0.1U_10V_NC
C37 0.1U_10V_NC
C4 0.1U_10V_NC
Reserved for EMI.
HDD
H4 HOLE-H-TC276C197D114P2-4
H17 HOLE-H-C197D114P2-4
H8 HOLE-H-C197D102P2-4
H15 HOLE-H-C276B372X323D114P2-3
H14 H-C276B310X269D114P2-4
+3.3V_RUN
C745 0.1U_10V_NC
C357 0.1U_10V_NC
C359 0.1U_10V_NC
C353 0.1U_10V_NC
C668 0.1U_10V_NC
C619 0.1U_10V_NC
C331 0.1U_10V_NC
C222 0.1U_10V_NC
C325 0.1U_10V_NC
C210 0.1U_10V_NC
C131 0.1U_10V_NC
+PWR_SRC
C216 0.1U_25V
C143 0.1U_25V
C66 0.1U_25V
C195 0.1U_25V
C154 0.1U_25V
C55 0.1U_25V
C2 0.1U_25V
+1.2V_LOM
C36 0.1U_10V_NC
C75 0.1U_10V_NC
C419 0.1U_10V_NC
Reserved for EMI.
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SCREW PAD
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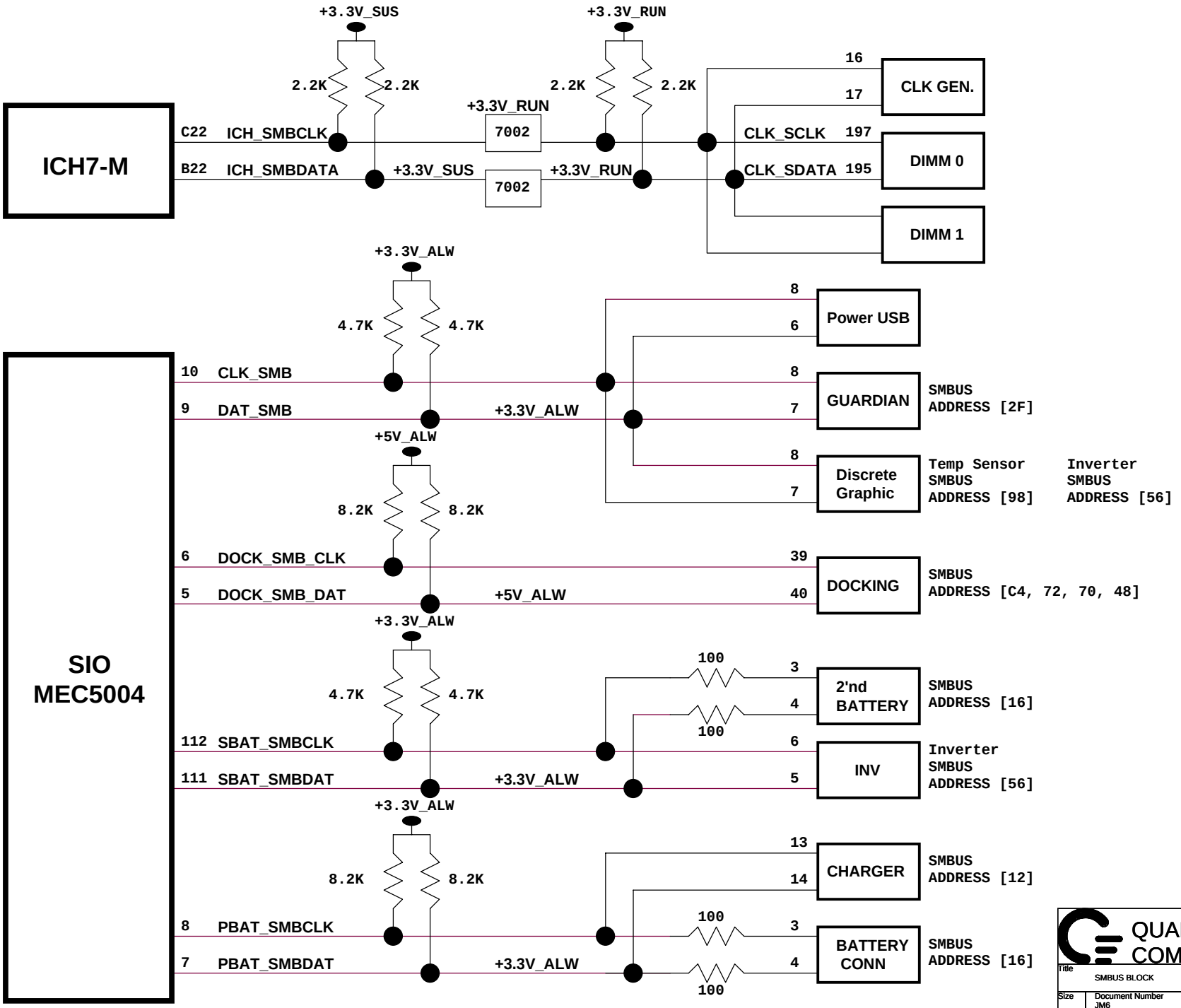

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Title	SMBUS BLOCK	
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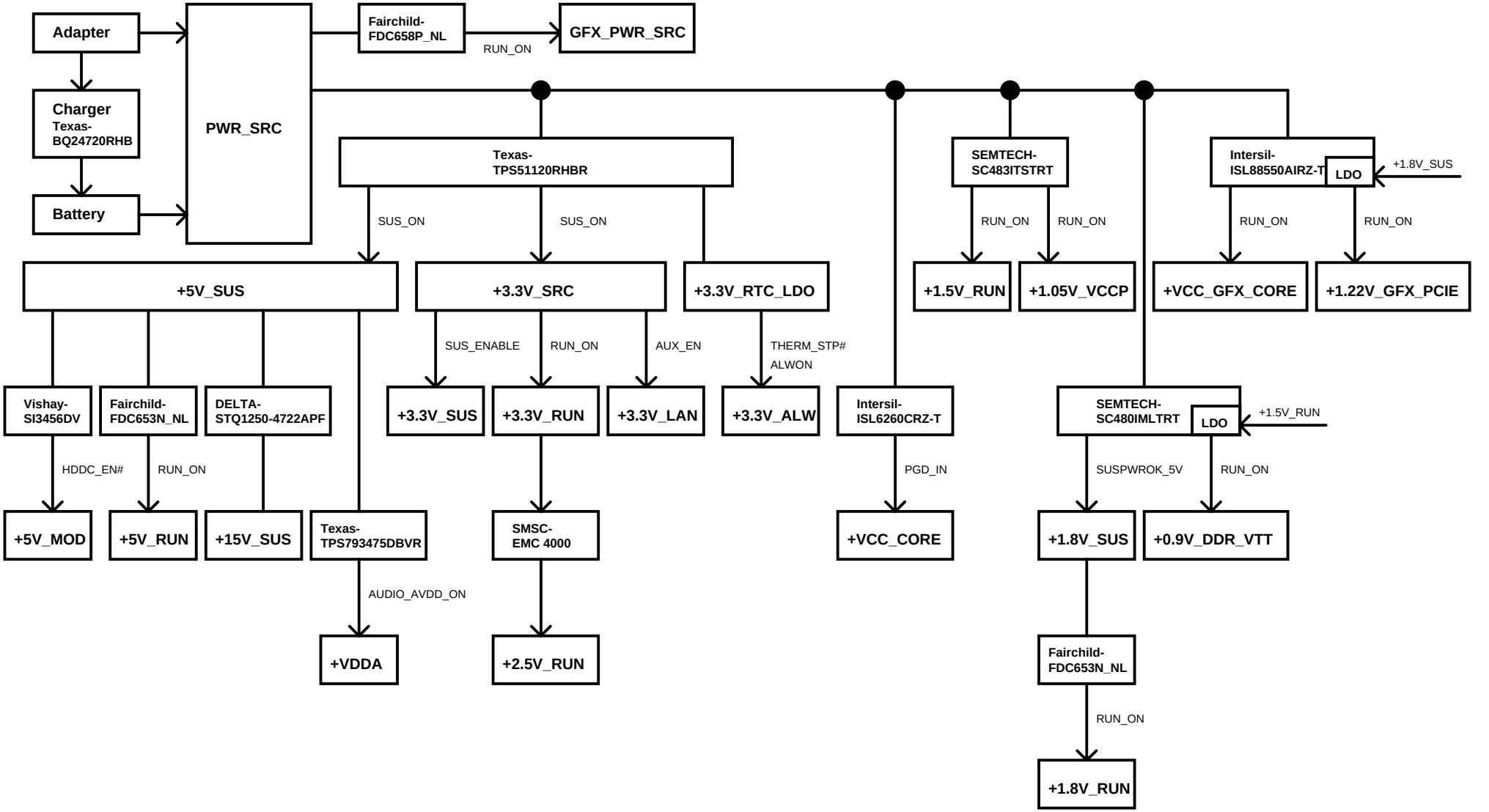

QUANTA COMPUTER

Title	POWER RAIL BLOCK	
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