

PCB STACK UP

LAYER 1 : TOP
LAYER 2 : SGND1
LAYER 3 : IN1
LAYER 4 : IN2
LAYER 5 : VCC
LAYER 6 : IN3
LAYER 7 : SGND2
LAYER 8 : BOT

Cable Docking

TV_OUT
VGA
RJ-45
CIR/Pwr btn
SPDIF Out
Stereo MIC
Headphone Jack
USB Port
VOL Cntr

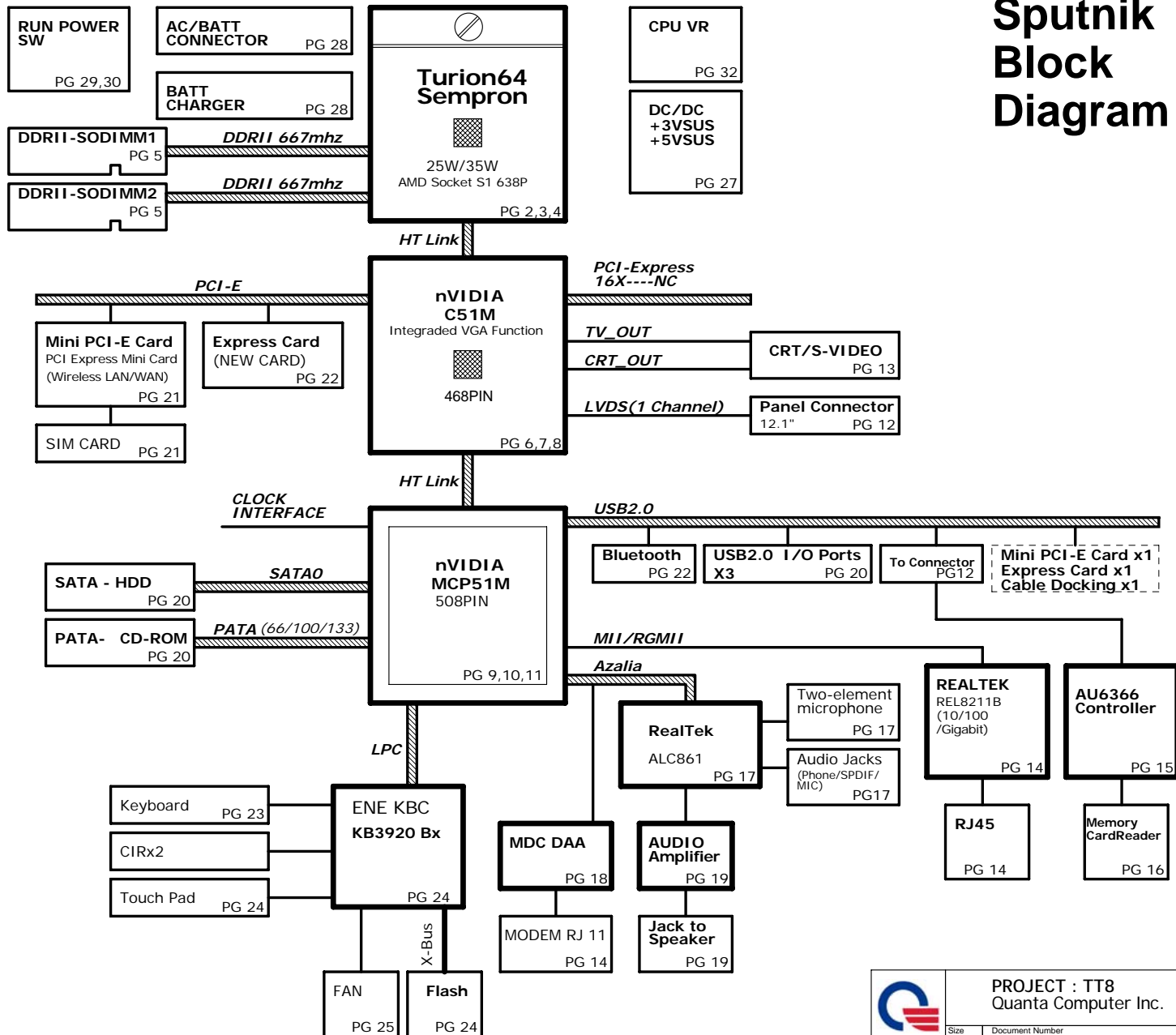
PG 25

VAULE DEFINE

A=0603,B=0805,C=1206,F=1%,
OTHER IS 0402

EXAMPLE

10R=10ohm(0402)
10A=10ohm(0603)
10B=10ohm(0805)
10C=10ohm(1206)
10/F=10ohm(0402 and 1%)



Sputnik Block Diagram



U21B

M_A D063 AA12
 M_A D062 AB12
 M_A D061 AA14
 M_A D060 AB14
 M_A D059 W11
 M_A D058 Y12
 M_A D057 AD13
 M_A D056 AB13
 M_A D055 AD15
 M_A D054 AB15
 M_A D053 Y17
 M_A D051 Y14
 M_A D050 W14
 M_A D049 W16
 M_A D048 AD17
 M_A D047 Y18
 M_A D046 AD19
 M_A D045 AD21
 M_A D044 AB21
 M_A D043 AB18
 M_A D042 AA18
 M_A D041 AA20
 M_A D040 Y20
 M_A D038 Y22
 M_A D037 W21
 M_A D036 W22
 M_A D035 AA21
 M_A D034 AB22
 M_A D033 AB24
 M_A D032 Y24
 M_A D031 H22
 M_A D030 H20
 M_A D029 E22
 M_A D028 E21
 M_A D027 H19
 M_A D026 H24
 M_A D025 E20
 M_A D024 F20
 M_A D023 C23
 M_A D022 B22
 M_A D021 E18
 M_A D020 E18
 M_A D019 E20
 M_A D018 D22
 M_A D017 C19
 M_A D016 G18
 M_A D015 G17
 M_A D014 C17
 M_A D013 F14
 M_A D012 E14
 M_A D011 H17
 M_A D010 H17
 M_A D09 E15
 M_A D08 H15
 M_A D07 E13
 M_A D06 C13
 M_A D05 H12
 M_A D04 H11
 M_A D03 G14
 M_A D02 H14
 M_A D01 F12
 M_A D00 G12

MA_DATA[63]
 MA_DATA[62]
 MA_DATA[61]
 MA_DATA[60]
 MA_DATA[59]
 MA_DATA[58]
 MA_DATA[57]
 MA_DATA[56]
 MA_DATA[55]
 MA_DATA[54]
 MA_DATA[53]
 MA_DATA[52]
 MA_DATA[51]
 MA_DATA[50]
 MA_DATA[49]
 MA_DATA[48]
 MA_DATA[47]
 MA_DATA[46]
 MA_DATA[45]
 MA_DATA[44]
 MA_DATA[43]
 MA_DATA[42]
 MA_DATA[41]
 MA_DATA[40]
 MA_DATA[39]
 MA_DATA[38]
 MA_DATA[37]
 MA_DATA[36]
 MA_DATA[35]
 MA_DATA[34]
 MA_DATA[33]
 MA_DATA[32]
 MA_DATA[31]
 MA_DATA[30]
 MA_DATA[29]
 MA_DATA[28]
 MA_DATA[27]
 MA_DATA[26]
 MA_DATA[25]
 MA_DATA[24]
 MA_DATA[23]
 MA_DATA[22]
 MA_DATA[21]
 MA_DATA[20]
 MA_DATA[19]
 MA_DATA[18]
 MA_DATA[17]
 MA_DATA[16]
 MA_DATA[15]
 MA_DATA[14]
 MA_DATA[13]
 MA_DATA[12]
 MA_DATA[11]
 MA_DATA[10]
 MA_DATA[9]
 MA_DATA[8]
 MA_DATA[7]
 MA_DATA[6]
 MA_DATA[5]
 MA_DATA[4]
 MA_DATA[3]
 MA_DATA[2]
 MA_DATA[1]
 MA_DATA[0]

MA_DQS[7]
 MA_DQS[6]
 MA_DQS[5]
 MA_DQS[4]
 MA_DQS[3]
 MA_DQS[2]
 MA_DQS[1]
 MA_DQS[0]
 MA_DQS[7]
 MA_DQS[6]
 MA_DQS[5]
 MA_DQS[4]
 MA_DQS[3]
 MA_DQS[2]
 MA_DQS[1]
 MA_DQS[0]

MA0_CLK[1]
 MA0_CLK[0]

MA0_CLK[2]
 MA0_CLK[1]

MA_BANK[2]
 MA_BANK[1]
 MA_BANK[0]

MA_RAS#
 MA_CAS#
 MA_WE#

MA0_CS[3]
 MA0_CS[2]
 MA0_CS[1]
 MA0_CS[0]

MA_CKE[1]
 MA_CKE[0]

MA0_ODT[1]
 MA0_ODT[0]

AMD S1 SOCKET

U21C

M_B D063 AD11
 M_B D062 AF11
 M_B D061 AF14
 M_B D060 AE14
 M_B D059 Y11
 M_B D058 AB11
 M_B D057 AC12
 M_B D056 AE13
 M_B D055 AF16
 M_B D054 AF16
 M_B D053 AC18
 M_B D052 AF19
 M_B D051 AD14
 M_B D050 AC14
 M_B D049 AE18
 M_B D048 AD18
 M_B D047 AD20
 M_B D046 AC20
 M_B D045 AF23
 M_B D044 AF24
 M_B D043 AF20
 M_B D042 AE20
 M_B D041 AD22
 M_B D040 AC22
 M_B D039 AE25
 M_B D038 AD26
 M_B D037 AA25
 M_B D036 AE26
 M_B D035 AE24
 M_B D034 AD24
 M_B D033 AA23
 M_B D032 AA24
 M_B D031 G23
 M_B D030 G23
 M_B D029 D26
 M_B D028 C26
 M_B D027 G26
 M_B D026 G25
 M_B D025 E24
 M_B D024 E23
 M_B D023 C24
 M_B D022 B24
 M_B D021 C20
 M_B D020 B0
 M_B D019 C25
 M_B D018 D24
 M_B D017 A21
 M_B D016 D20
 M_B D015 D18
 M_B D014 C18
 M_B D013 D14
 M_B D012 C14
 M_B D011 A20
 M_B D010 A20
 M_B D09 A16
 M_B D08 A15
 M_B D07 A13
 M_B D06 D12
 M_B D05 E11
 M_B D04 G11
 M_B D03 B14
 M_B D02 A14
 M_B D01 A11
 M_B D00 C11

MB_DATA[63]
 MB_DATA[62]
 MB_DATA[61]
 MB_DATA[60]
 MB_DATA[59]
 MB_DATA[58]
 MB_DATA[57]
 MB_DATA[56]
 MB_DATA[55]
 MB_DATA[54]
 MB_DATA[53]
 MB_DATA[52]
 MB_DATA[51]
 MB_DATA[50]
 MB_DATA[49]
 MB_DATA[48]
 MB_DATA[47]
 MB_DATA[46]
 MB_DATA[45]
 MB_DATA[44]
 MB_DATA[43]
 MB_DATA[42]
 MB_DATA[41]
 MB_DATA[40]
 MB_DATA[39]
 MB_DATA[38]
 MB_DATA[37]
 MB_DATA[36]
 MB_DATA[35]
 MB_DATA[34]
 MB_DATA[33]
 MB_DATA[32]
 MB_DATA[31]
 MB_DATA[30]
 MB_DATA[29]
 MB_DATA[28]
 MB_DATA[27]
 MB_DATA[26]
 MB_DATA[25]
 MB_DATA[24]
 MB_DATA[23]
 MB_DATA[22]
 MB_DATA[21]
 MB_DATA[20]
 MB_DATA[19]
 MB_DATA[18]
 MB_DATA[17]
 MB_DATA[16]
 MB_DATA[15]
 MB_DATA[14]
 MB_DATA[13]
 MB_DATA[12]
 MB_DATA[11]
 MB_DATA[10]
 MB_DATA[9]
 MB_DATA[8]
 MB_DATA[7]
 MB_DATA[6]
 MB_DATA[5]
 MB_DATA[4]
 MB_DATA[3]
 MB_DATA[2]
 MB_DATA[1]
 MB_DATA[0]

MB_DQS[7]
 MB_DQS[6]
 MB_DQS[5]
 MB_DQS[4]
 MB_DQS[3]
 MB_DQS[2]
 MB_DQS[1]
 MB_DQS[0]
 MB_DQS[7]
 MB_DQS[6]
 MB_DQS[5]
 MB_DQS[4]
 MB_DQS[3]
 MB_DQS[2]
 MB_DQS[1]
 MB_DQS[0]

MB0_CLK[1]
 MB0_CLK[0]

MB0_CLK[2]
 MB0_CLK[1]

MB_BANK[2]
 MB_BANK[1]
 MB_BANK[0]

MB_RAS#
 MB_CAS#
 MB_WE#

MB0_CS[3]
 MB0_CS[2]
 MB0_CS[1]
 MB0_CS[0]

MB_CKE[1]
 MB_CKE[0]

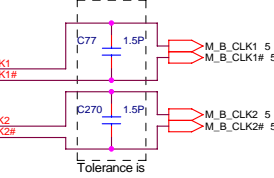
MB0_ODT[1]
 MB0_ODT[0]

VTT_SENSE
 M_VREF

M_ZN
 M_ZP

AMD S1 SOCKET

TRACE FROM CAP TO CPU MUST BE LESS
 THAN 1200MILS MAX NECKDOWN TO &
 FROM CAPS IS 500MILS



TRACE FROM CAP TO CPU MUST BE LESS
 THAN 1200MILS MAX NECKDOWN TO &
 FROM CAPS IS 500MILS

K26 M_B BA2
 T26 M_B BA1
 U26 M_B BA0

U24 M_B RAS#
 O26 M_B CAS#
 U22 M_B WE#

Y26 M_B CS#3
 O24 M_B CS#2
 U24 M_B CS#1
 U23 M_B CS#0

H26 M_B CKE1
 J23 M_B CKE0

W23 M_B ODT1
 W26 M_B ODT0

Y10 VTERM_FB 31

W17 C51M_VREF

AE10 MEMZN R358
 AF10 MEMZP R357

C260 1000P/X7R
 C259 .1U

R78 1.8VSUS
 R80 2K
 R81 2K

SMDDR_VREF

C51MVREF : W = 20MIL AND SPACE = 20MIL

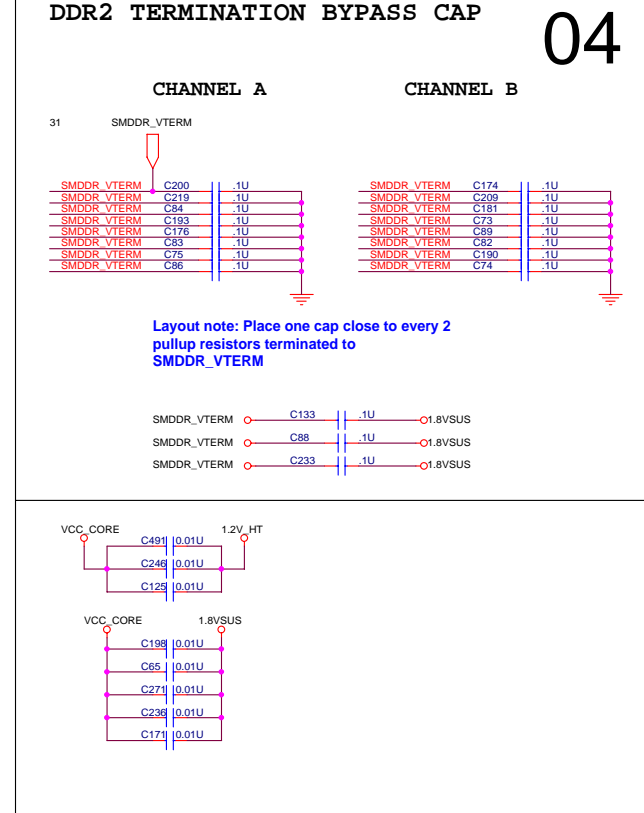
5 M_A_DQ[63..0]
 4.5 M_A_A[15..0]

M_A_DQM[7..0]
 M_A_DQS[7..0]
 M_A_DQS[6..0]
 M_A_BA[2..0]
 M_A_CS[63..0]
 M_A_RAS#
 M_A_CAS#
 M_A_WE#
 M_A_CKE1
 M_A_CKE0
 M_A_ODT1
 M_A_ODT0

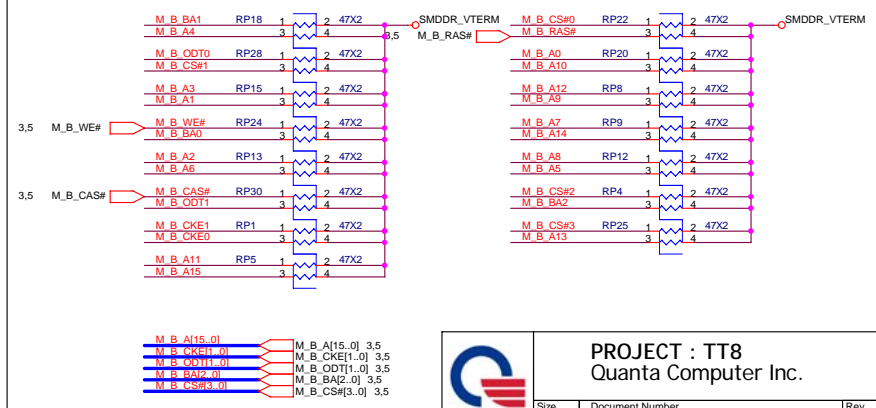
5 M_B_DQ[63..0]
 4.5 M_B_A[15..0]

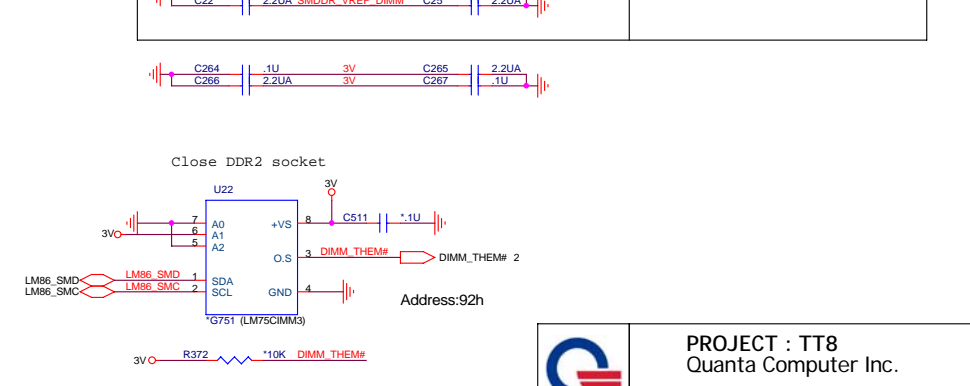
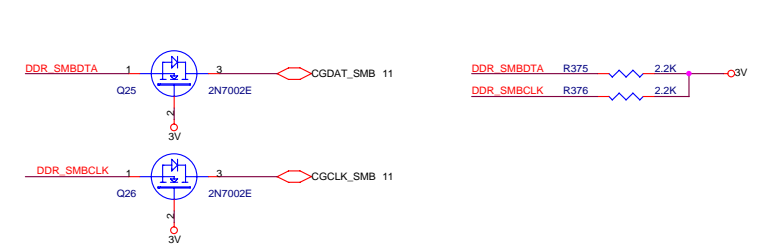
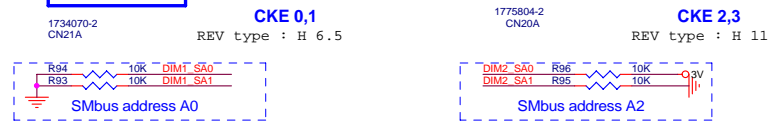
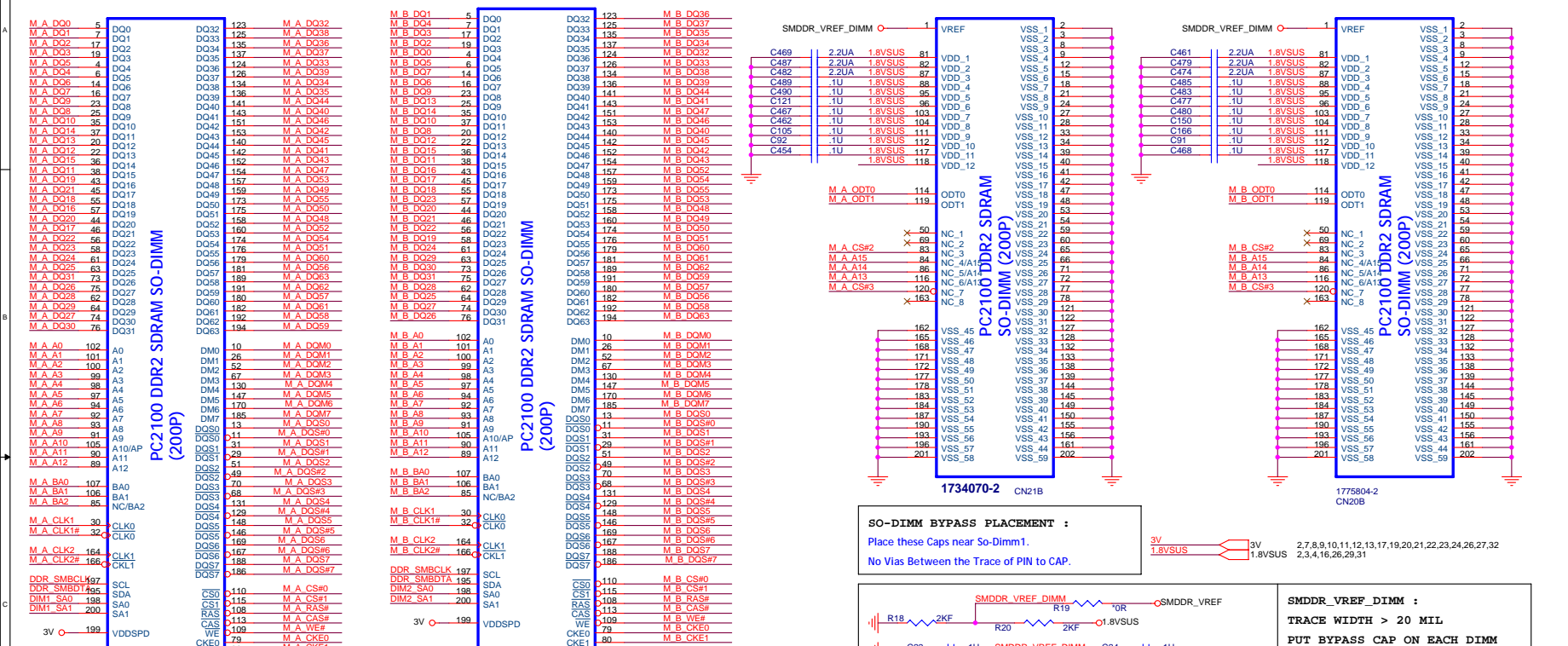
M_B_DQM[7..0]
 M_B_DQS[7..0]
 M_B_DQS[6..0]
 M_B_BA[2..0]
 M_B_CS[63..0]
 M_B_RAS#
 M_B_CAS#
 M_B_WE#
 M_B_CKE1
 M_B_CKE0
 M_B_ODT1
 M_B_ODT0

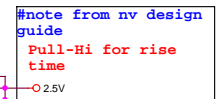
04



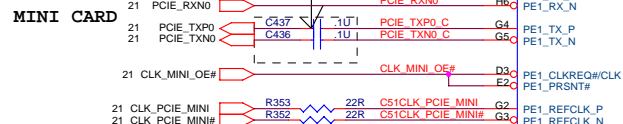
DDRII CHANNEL B TERMINATION



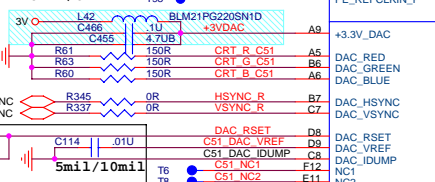




MINI CARD



15mil/8mil



CRT TV SET

Q21

*2N7002E

S1 05/08

Y6

27MHZ

C457

18P/50V

C456

18P/50V

C455

18P/50V

C454

18P/50V

C453

18P/50V

C452

18P/50V

C451

18P/50V

C450

18P/50V

C449

18P/50V

C448

18P/50V

C447

18P/50V

C446

18P/50V

C445

18P/50V

C444

18P/50V

C443

18P/50V

C442

18P/50V

C441

18P/50V

C440

18P/50V

C439

18P/50V

C438

18P/50V

C437

18P/50V

C436

18P/50V

C435

18P/50V

C434

18P/50V

C433

18P/50V

C432

18P/50V

C431

18P/50V

C430

18P/50V

C429

18P/50V

C428

18P/50V

C427

18P/50V

C426

18P/50V

C425

18P/50V

C424

18P/50V

C423

18P/50V

C422

18P/50V

C421

18P/50V

C420

18P/50V

C419

18P/50V

C418

18P/50V

C417

18P/50V

C416

18P/50V

C415

18P/50V

C414

18P/50V

C413

18P/50V

C412

18P/50V

C411

18P/50V

C410

18P/50V

C409

18P/50V

C408

18P/50V

C407

18P/50V

C406

18P/50V

C405

18P/50V

C404

18P/50V

C403

18P/50V

C402

18P/50V

C401

18P/50V

C400

18P/50V

C399

18P/50V

C398

18P/50V

C397

18P/50V

C396

18P/50V

C395

18P/50V

C394

18P/50V

C393

18P/50V

C392

18P/50V

C391

18P/50V

C390

18P/50V

C389

18P/50V

C388

18P/50V

C387

18P/50V

C386

18P/50V

C385

18P/50V

C384

18P/50V

C383

18P/50V

C382

18P/50V

C381

18P/50V

C380

18P/50V

C379

18P/50V

C378

18P/50V

C377

18P/50V

C376

18P/50V

C375

18P/50V

C374

18P/50V

C373

18P/50V

C372

18P/50V

C371

18P/50V

C370

18P/50V

C369

18P/50V

C368

18P/50V

C367

18P/50V

C366

18P/50V

C365

18P/50V

C364

18P/50V

C363

18P/50V

C362

18P/50V

C361

18P/50V

C360

18P/50V

C359

18P/50V

C358

18P/50V

C357

18P/50V

C356

18P/50V

C355

18P/50V

C354

18P/50V

C353

18P/50V

C352

18P/50V

C351

18P/50V

C350

18P/50V

C349

18P/50V

C348

18P/50V

C347

18P/50V

C346

18P/50V

C345

18P/50V

C344

18P/50V

C343

18P/50V

C342

18P/50V

C341

18P/50V

C340

18P/50V

C339

18P/50V

C338

18P/50V

C337

18P/50V

C336

18P/50V

C335

18P/50V

C334

18P/50V

C333

18P/50V

C332

18P/50V

C331

18P/50V

C330

18P/50V

C329

18P/50V

C328

18P/50V

C327

18P/50V

C326

18P/50V

C325

18P/50V

C324

18P/50V

C323

18P/50V

C322

18P/50V

C321

18P/50V

C320

18P/50V

C319

18P/50V

C318

18P/50V

C317

18P/50V

C316

18P/50V

C315

18P/50V

C314

18P/50V

C313

18P/50V

C312

18P/50V

C311

18P/50V

C310

18P/50V

C309

18P/50V

C308

18P/50V

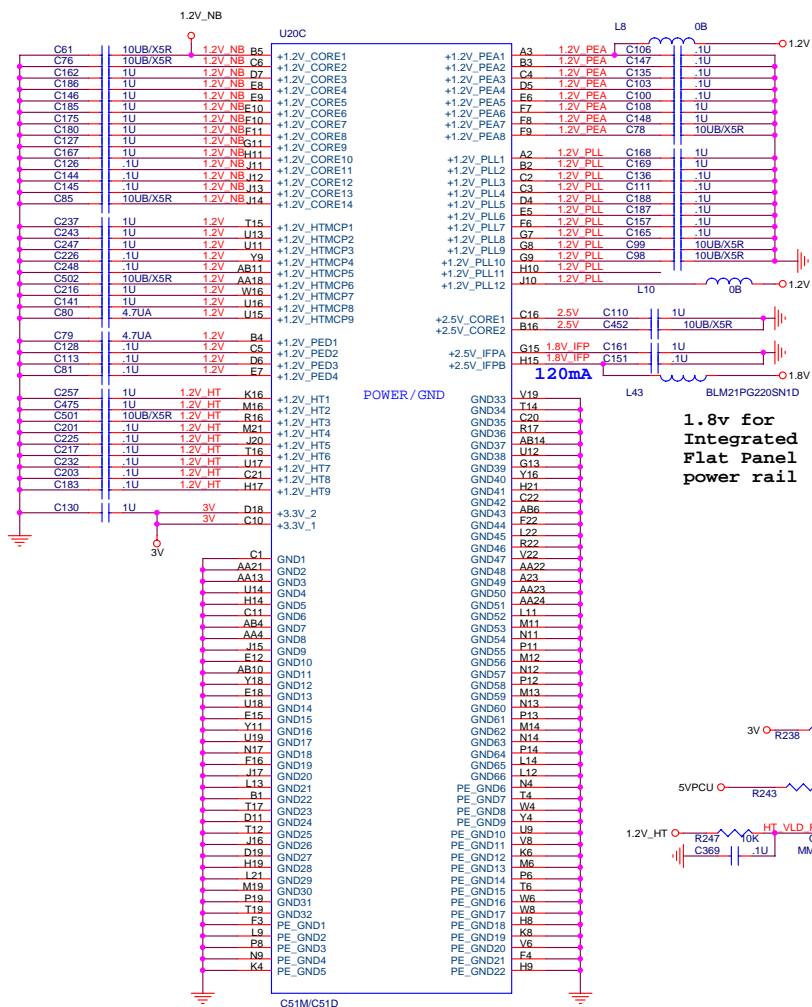
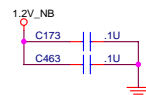
C307

18P/50V

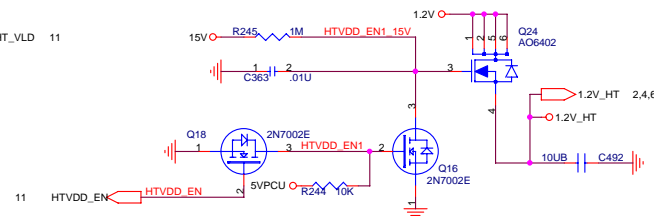
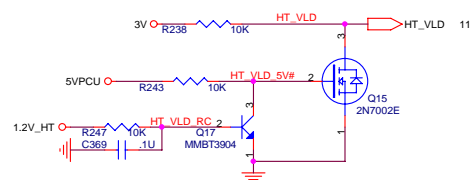
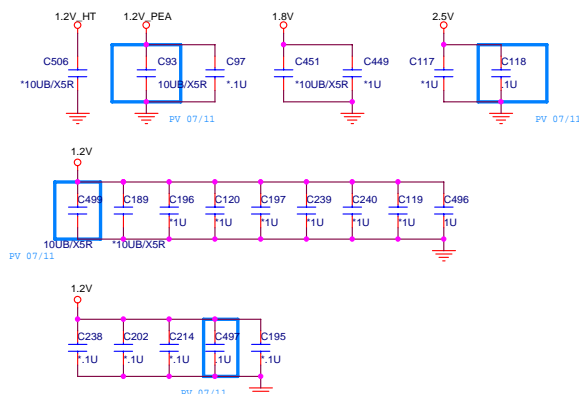
C306

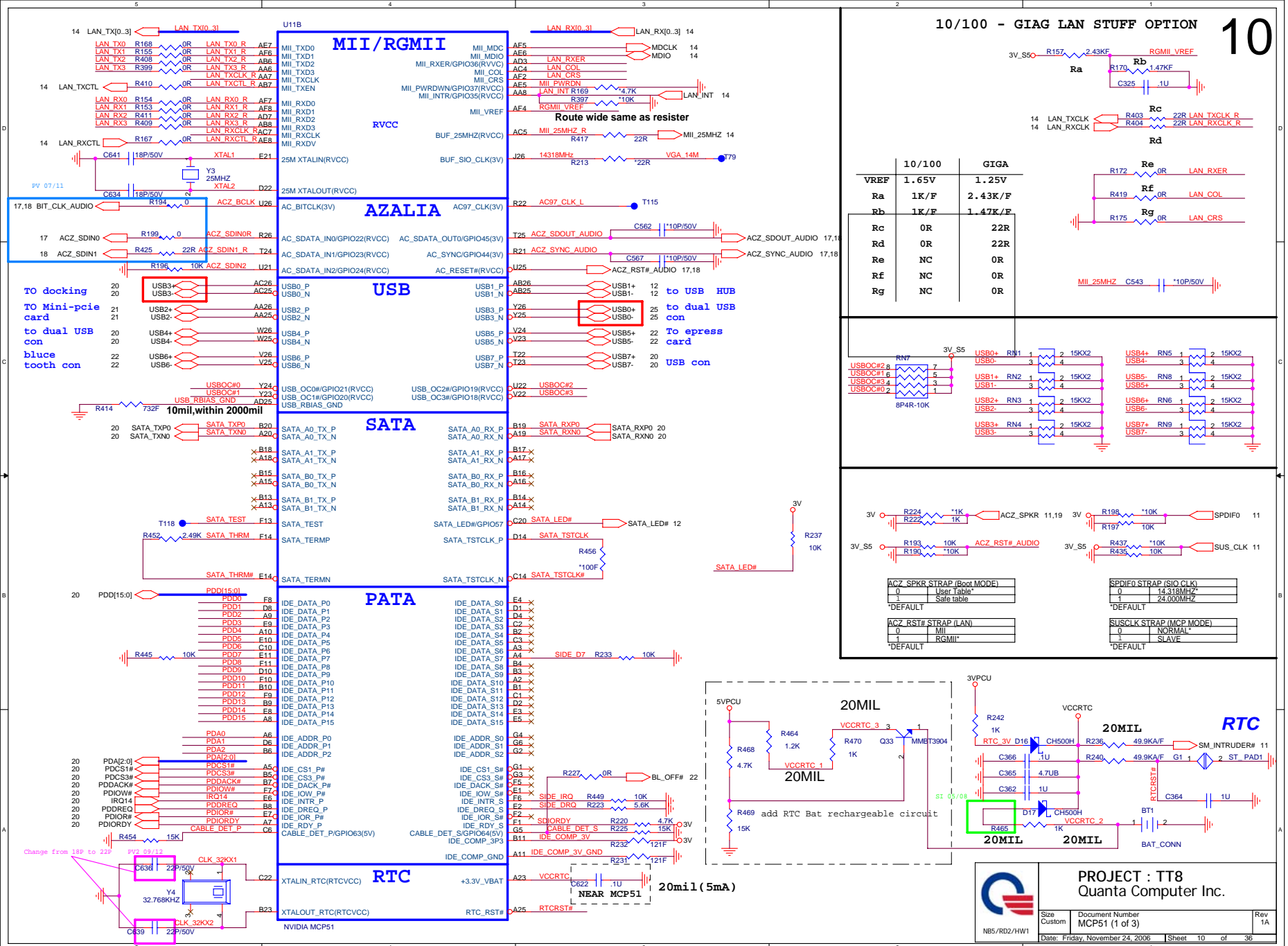
18P/50V

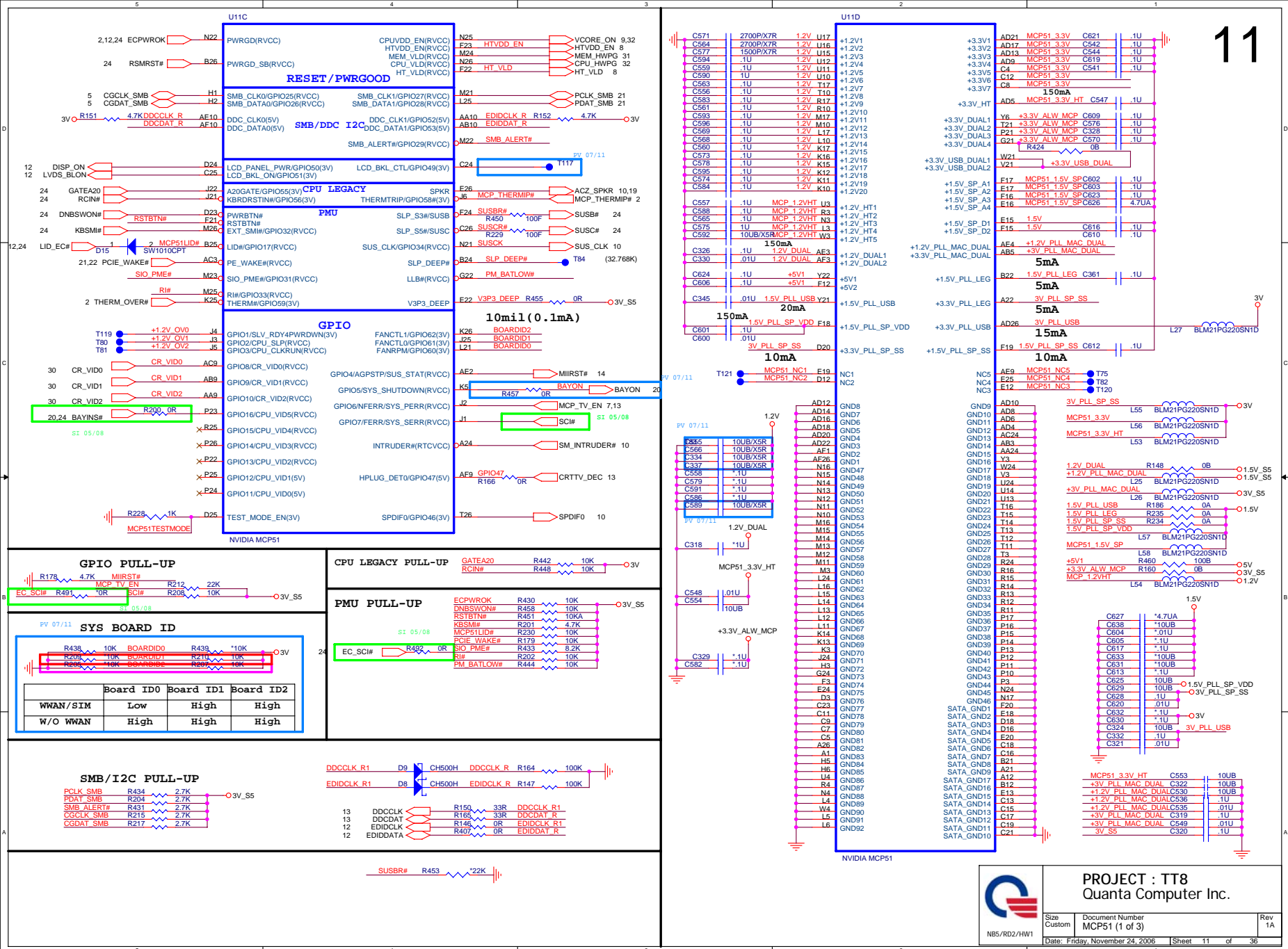
C51M POWER PLANE/GND & BYPASS

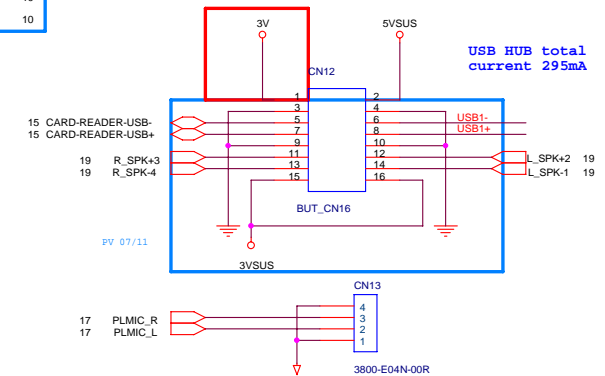
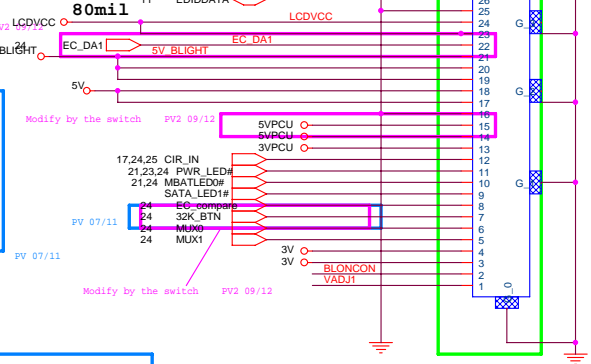
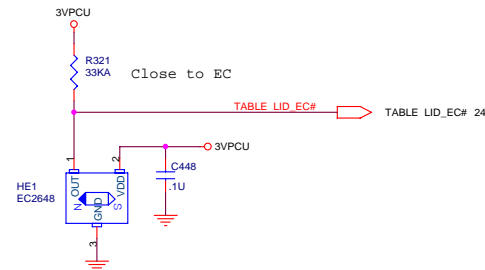
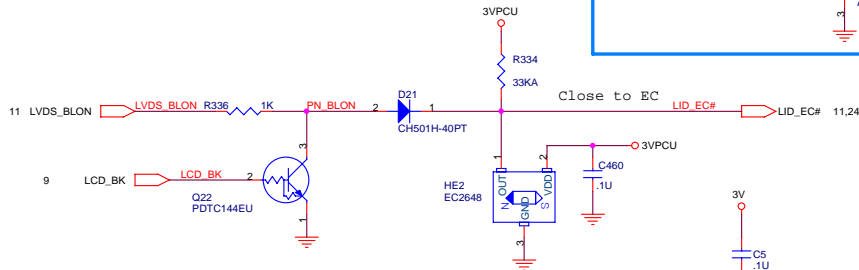
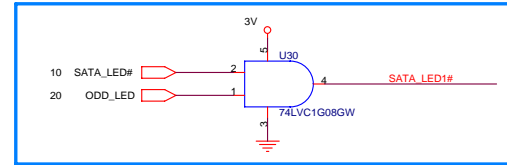
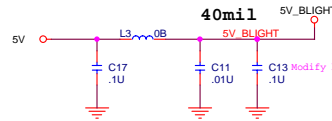
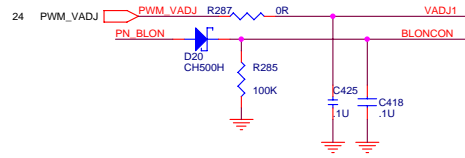
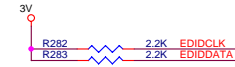
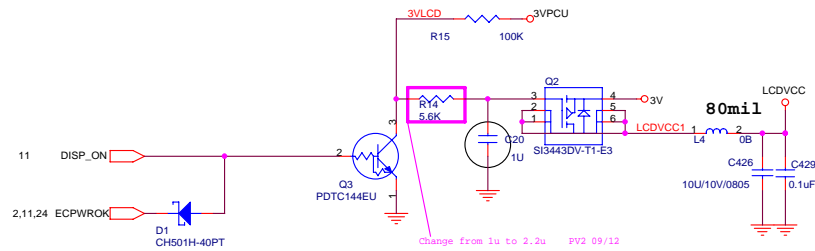


1.8v for
Integrated
Flat Panel
power rail







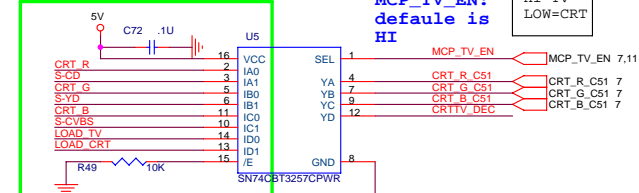


PROJECT : TT8
Quanta Computer Inc.

CRT/TV SWITCH

MCP_TV_EN:
default is
HI

HI=TV
LOW=CRT

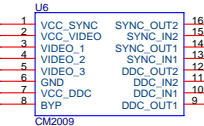


LOAD_CRT -- TV WORK
LOAD_TV -- CRT
WORK

SI 05/08

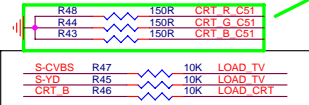
Change from nVIDIA for B-test

ESD PROTECTION



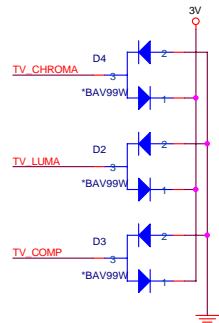
close within 600mils (
close data switch)

Change from nVIDIA for B-test

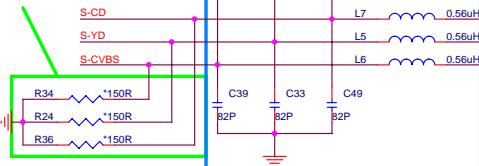


That is for CRT and TV choose..
used impedance and driver to
choose

PV 07/11

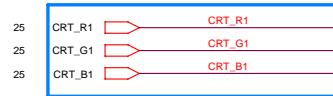


Change from nVIDIA for B-test

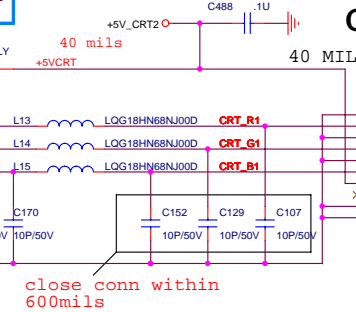
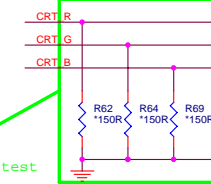


150-R as possible as
closed to Tv connector (close with
in 600 mil)

PV 07/11

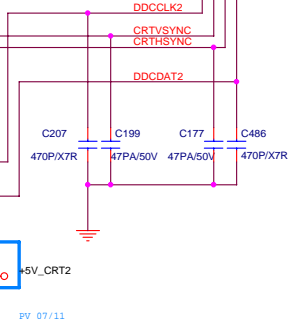
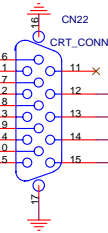


150-R as possible as
closed to CRT connector (
close with in 600 mil
)



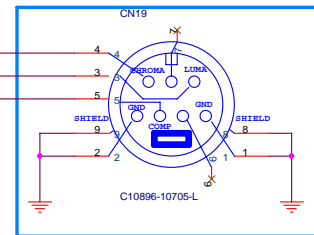
close conn within
600mils

CRT PORT



PV 07/11

TV_OUT



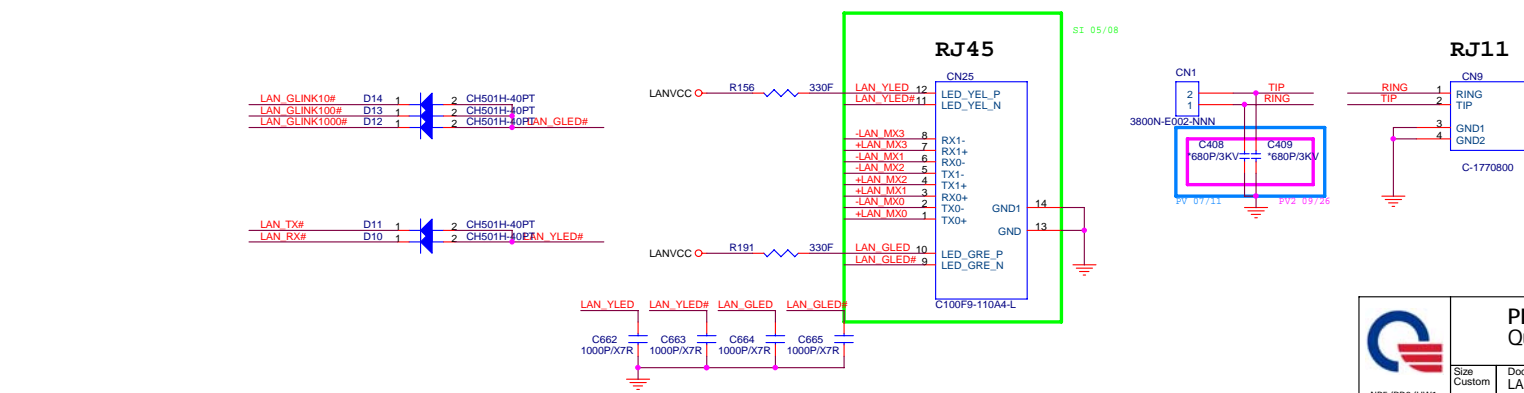
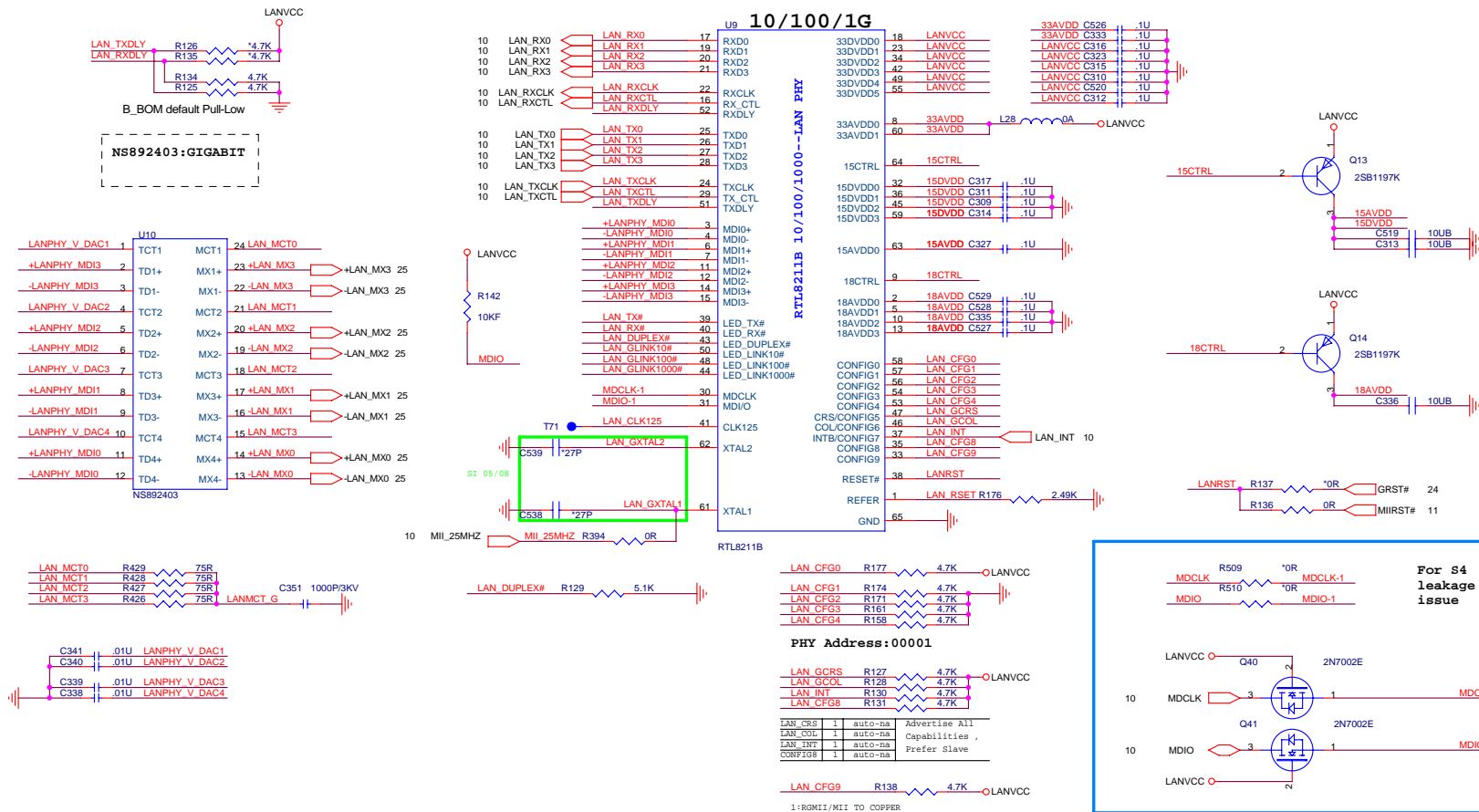
PV 07/11



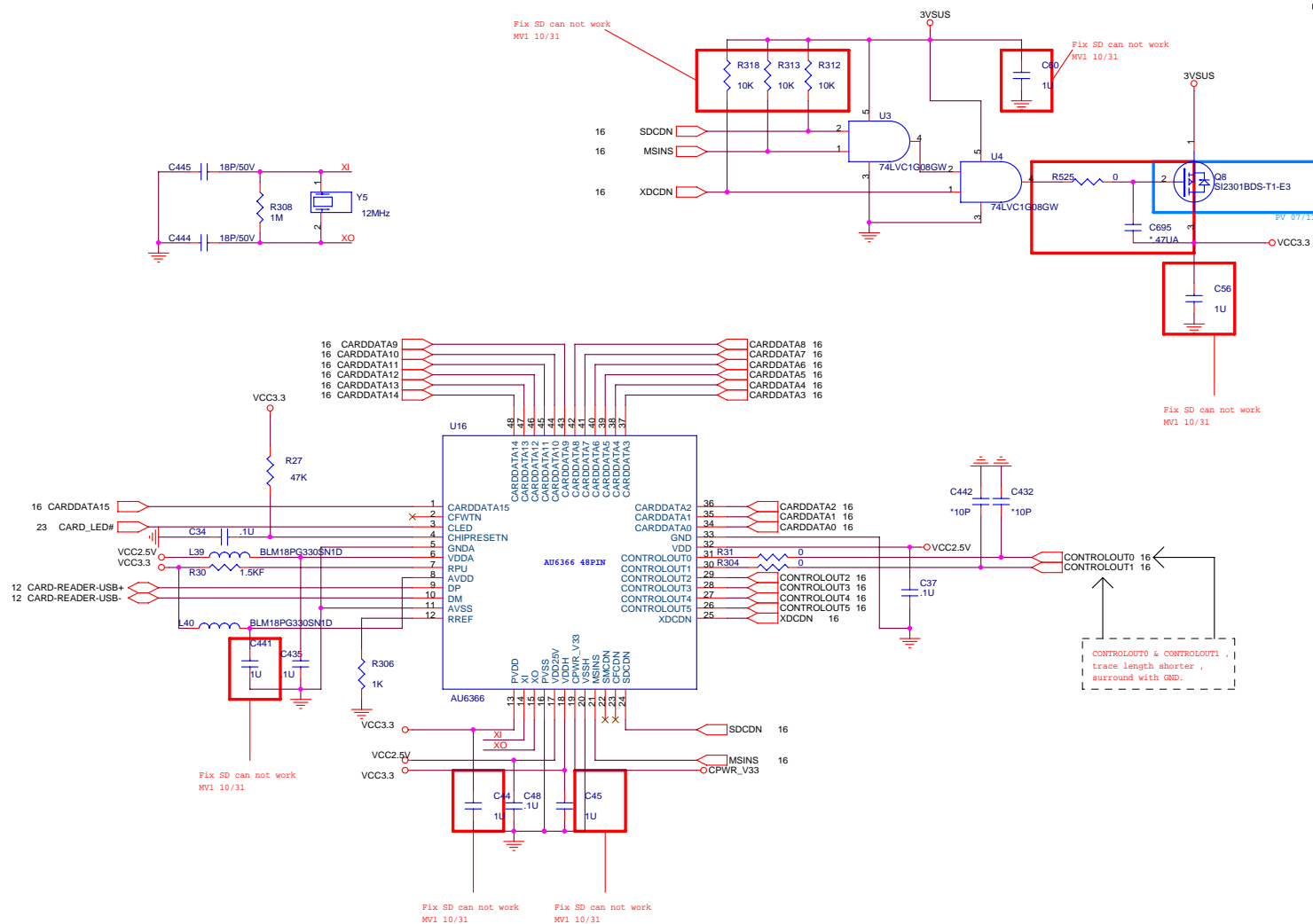
NBS/RD2/HW1

PROJECT : TT8
Quanta Computer Inc.

Size Custom Document Number CRT_TV_OUT Rev 1A
Date: Friday, November 24, 2006 Sheet 13 of 36

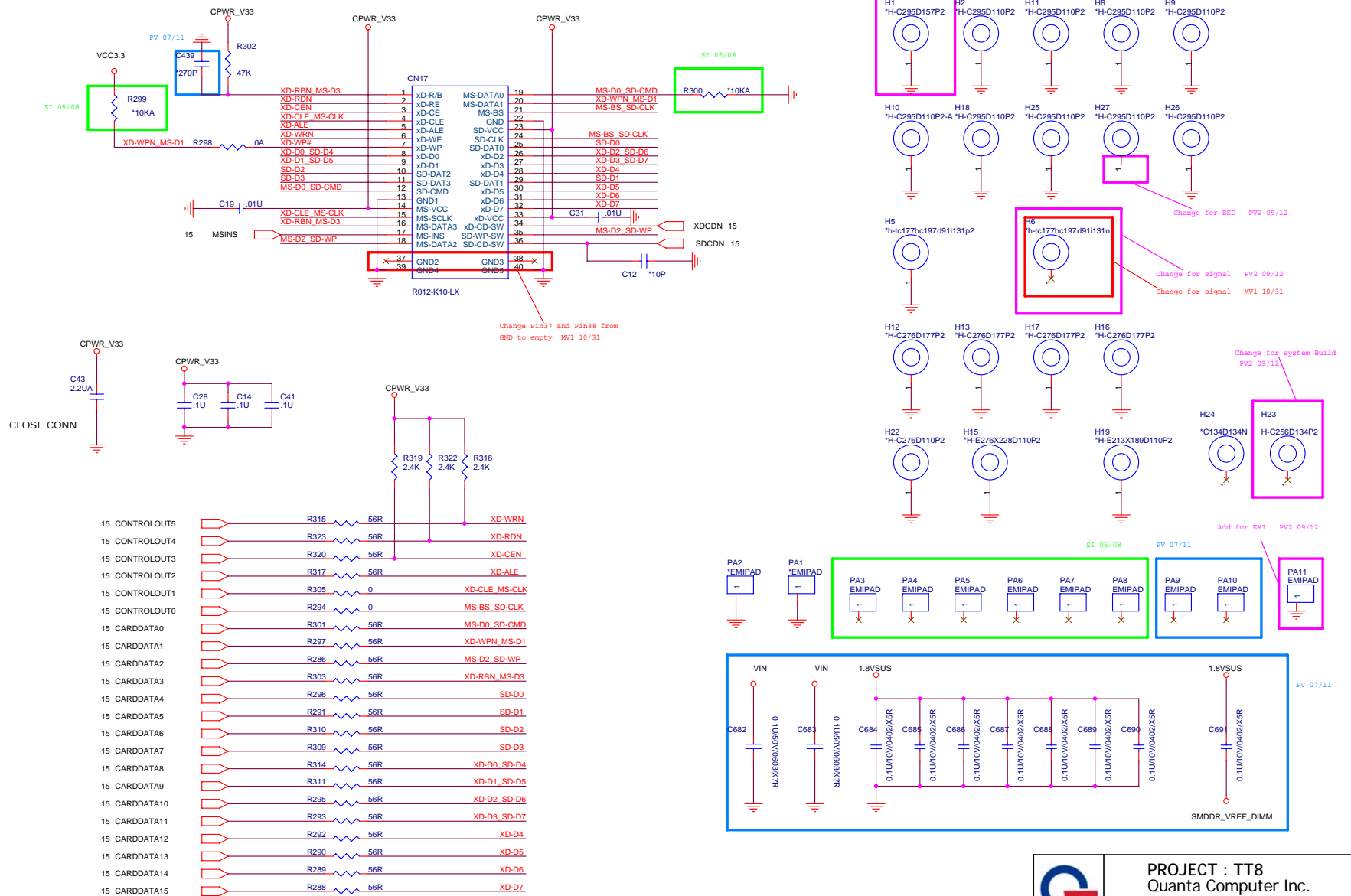


PROJECT : TT8
Quanta Computer Inc.

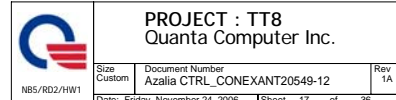


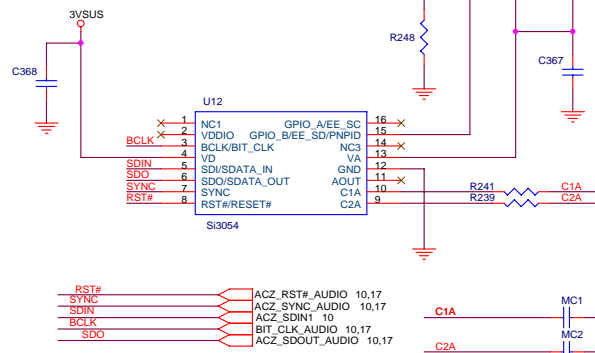
4 IN1 CARD READER

XD,MMC/SD,MS/MS

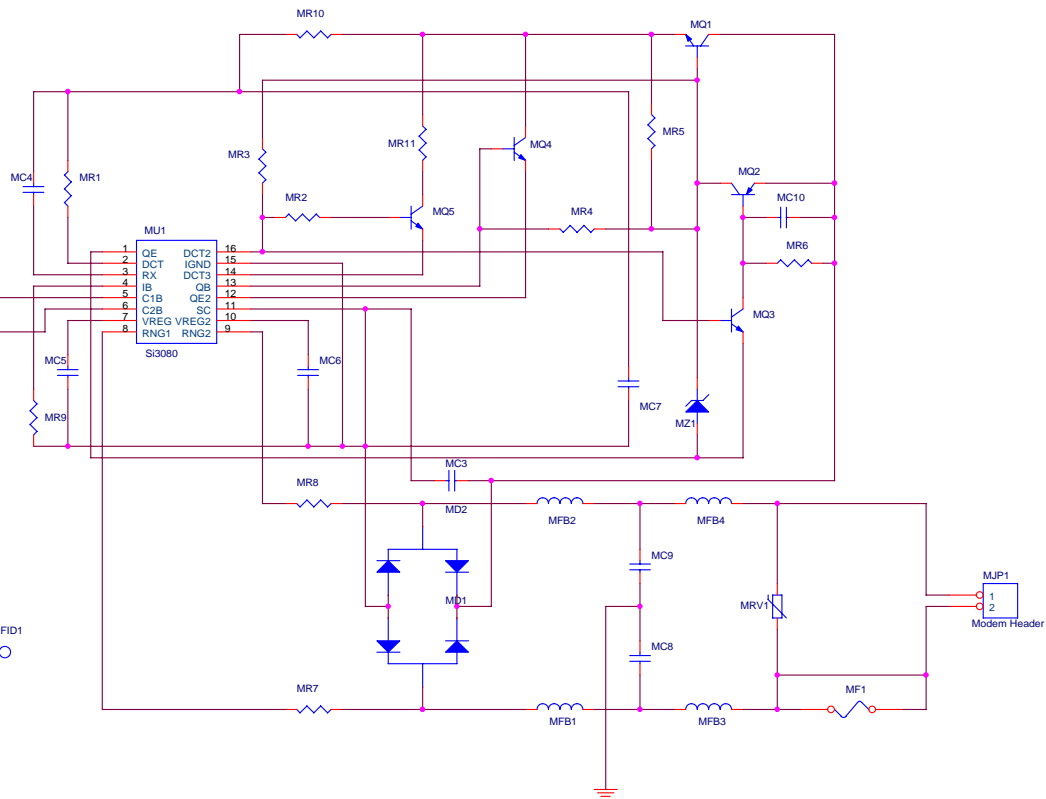


PROJECT : TT8
Quanta Computer Inc.





MH2 FID4 FID3 FID2 FID1



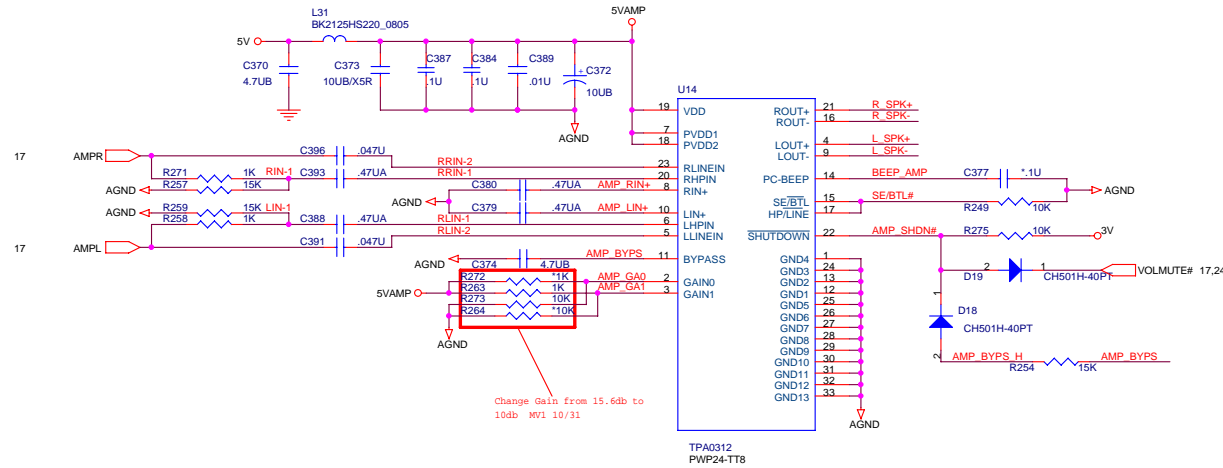
DESIGN SUBJECT TO CHANGE

SILICON LABORATORIES CONFIDENTIAL



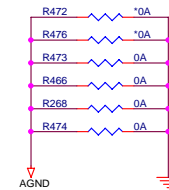
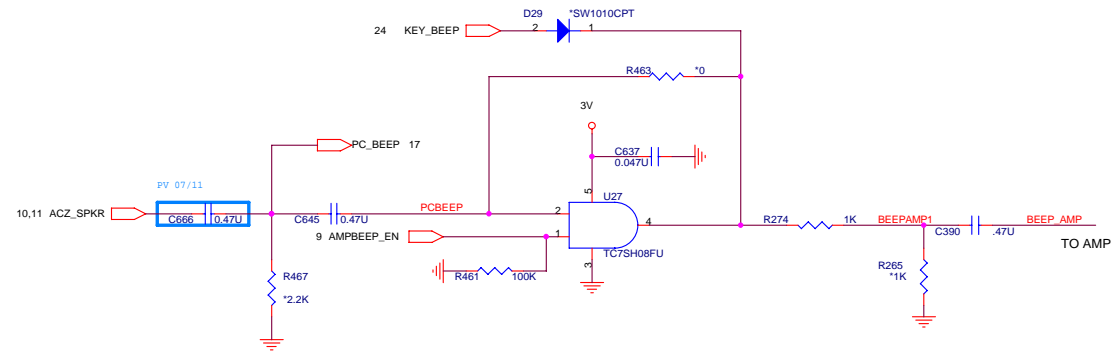
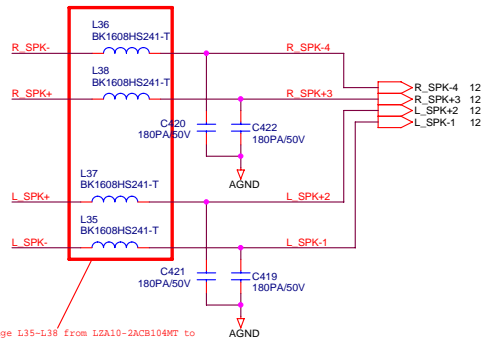
PROJECT : TT8
Quanta Computer Inc.

Size Custom	Document Number MODEM (DAA)	Rev 1A
Date: Friday, November 24, 2006	Sheet 18 of 36	

**0312 Gain Table**

GAIN0 GAIN1 SE/BTL AV(INV)

0	0	0	6dB
0	1	0	10dB
1	0	0	15.6dB
1	1	0	21.6dB
x	x	1	4.1dB

**INT. SPEAKER****PCSPK BEEP**

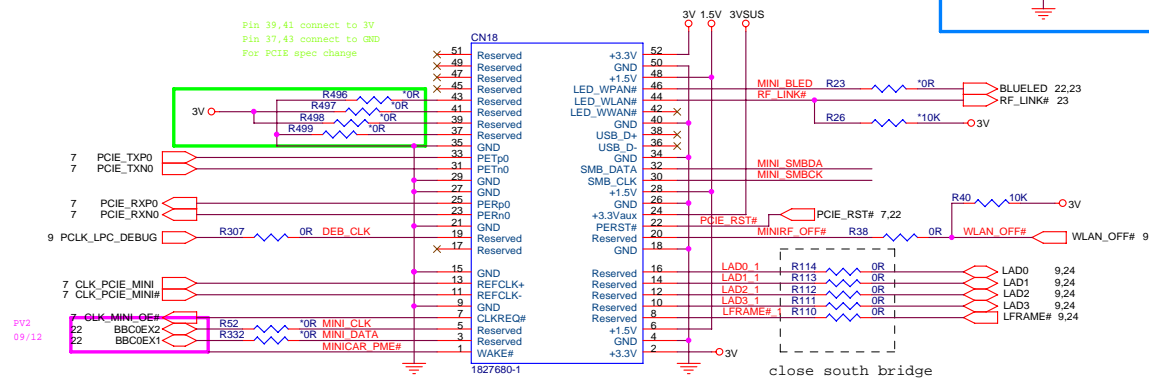
PROJECT : TT8
Quanta Computer Inc.



Size Custom	Document Number SATA HDD, CD-ROM, USBX2	R
Date: Friday, November 24, 2006	Sheet 20 of 36	

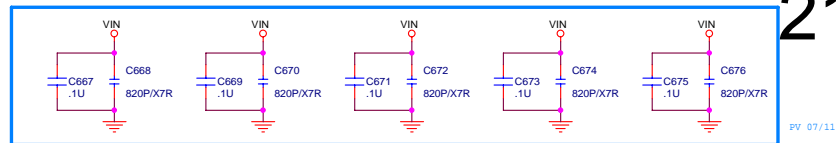
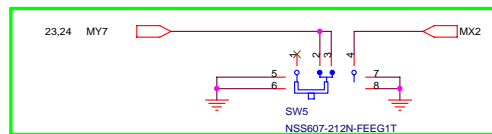
Mini PCI-E Card 1 WLAN

Pin 39,41 connect to 3V
Pin 37,43 connect to GND
For PCIe spec change

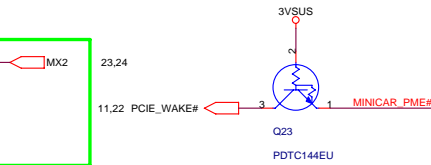
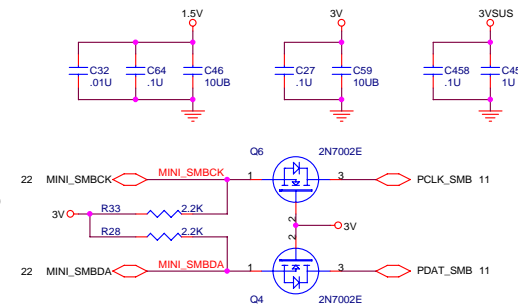


close south bridge

SI 05/08

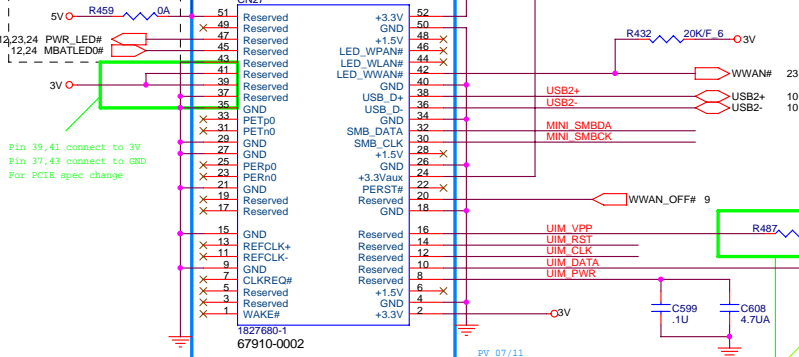


PV 07/11



Mini PCI-E Card 2 WWAN(W/SIM)

FOR KBC DEBUG

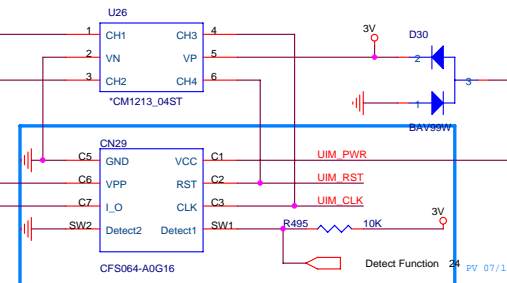
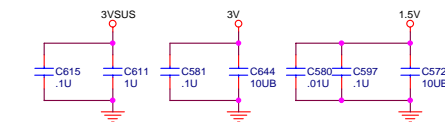


Pin 39,41 connect to 3V
Pin 37,43 connect to GND
For PCIe spec change

PV 07/11

Change for B build

UIM_PWR

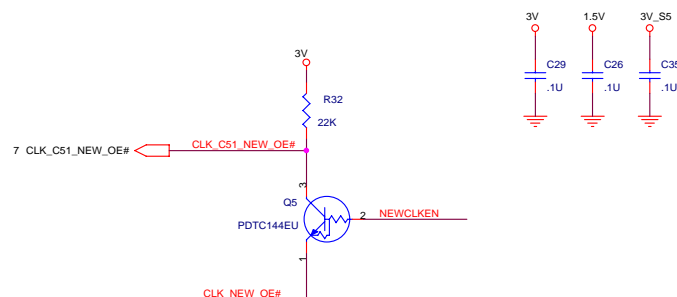
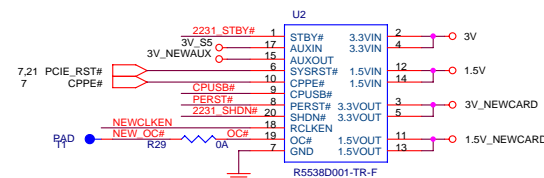
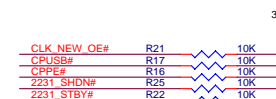
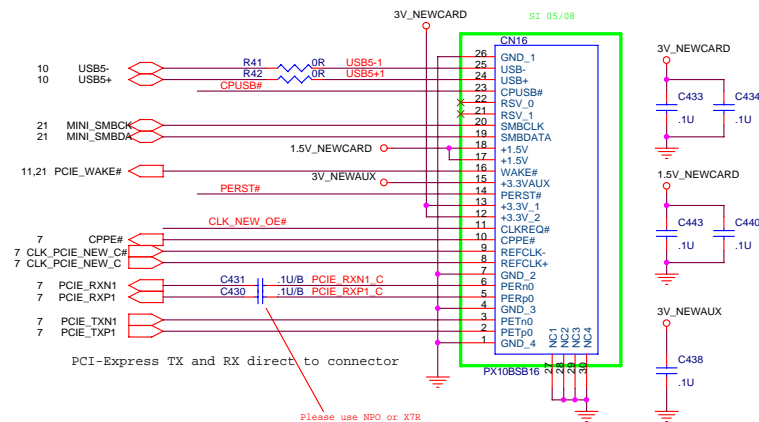


PV 07/11

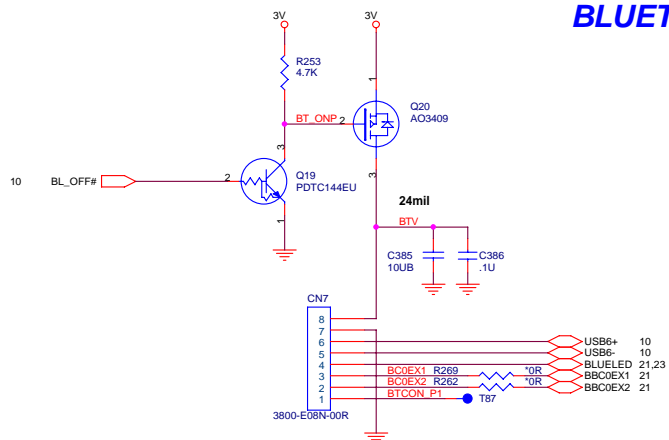


PROJECT : TT8
Quanta Computer Inc.

NEWCARD



BLUETOOTH



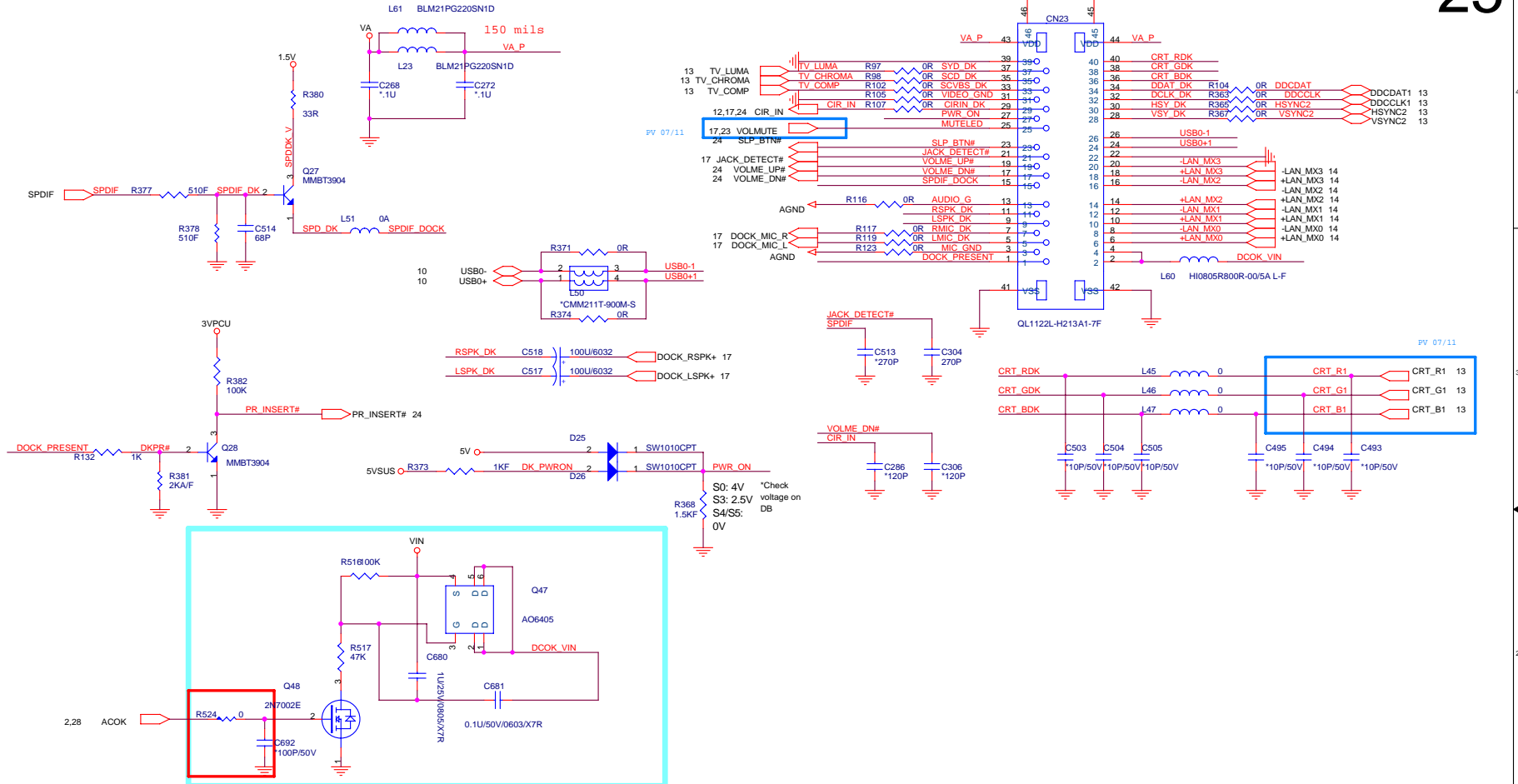
NBS/RD2/HW1

Size
CustomPROJECT : TT8
Quanta Computer Inc.Document Number
NEW CARD/BTRev
1A

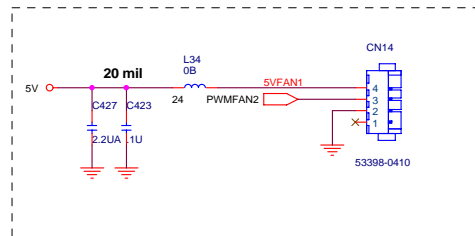
Date: Friday, November 24, 2006 Sheet 22 of 36

CABLE DOCK

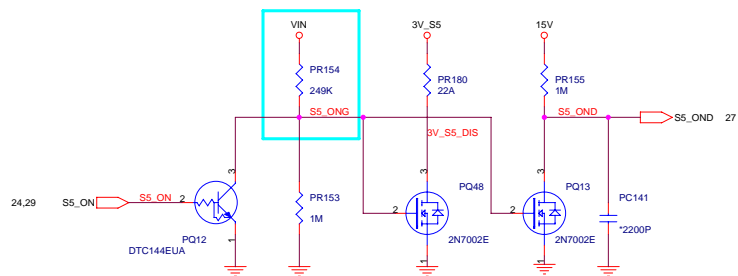
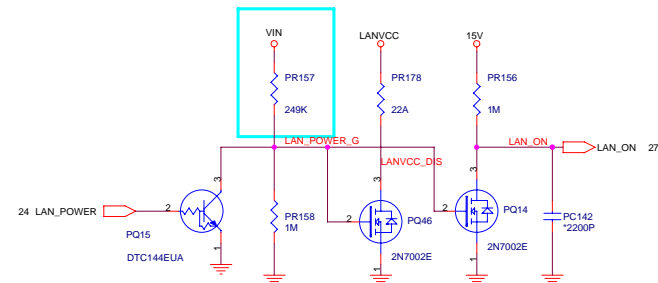
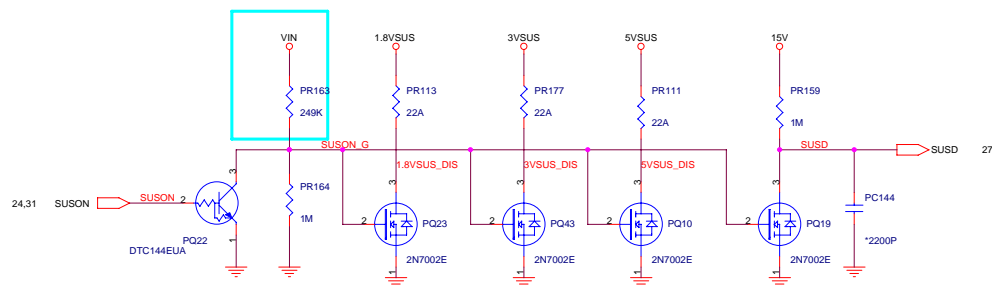
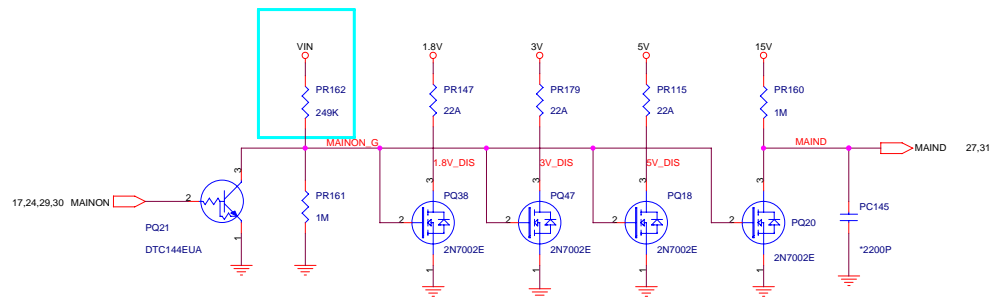
25



FAN

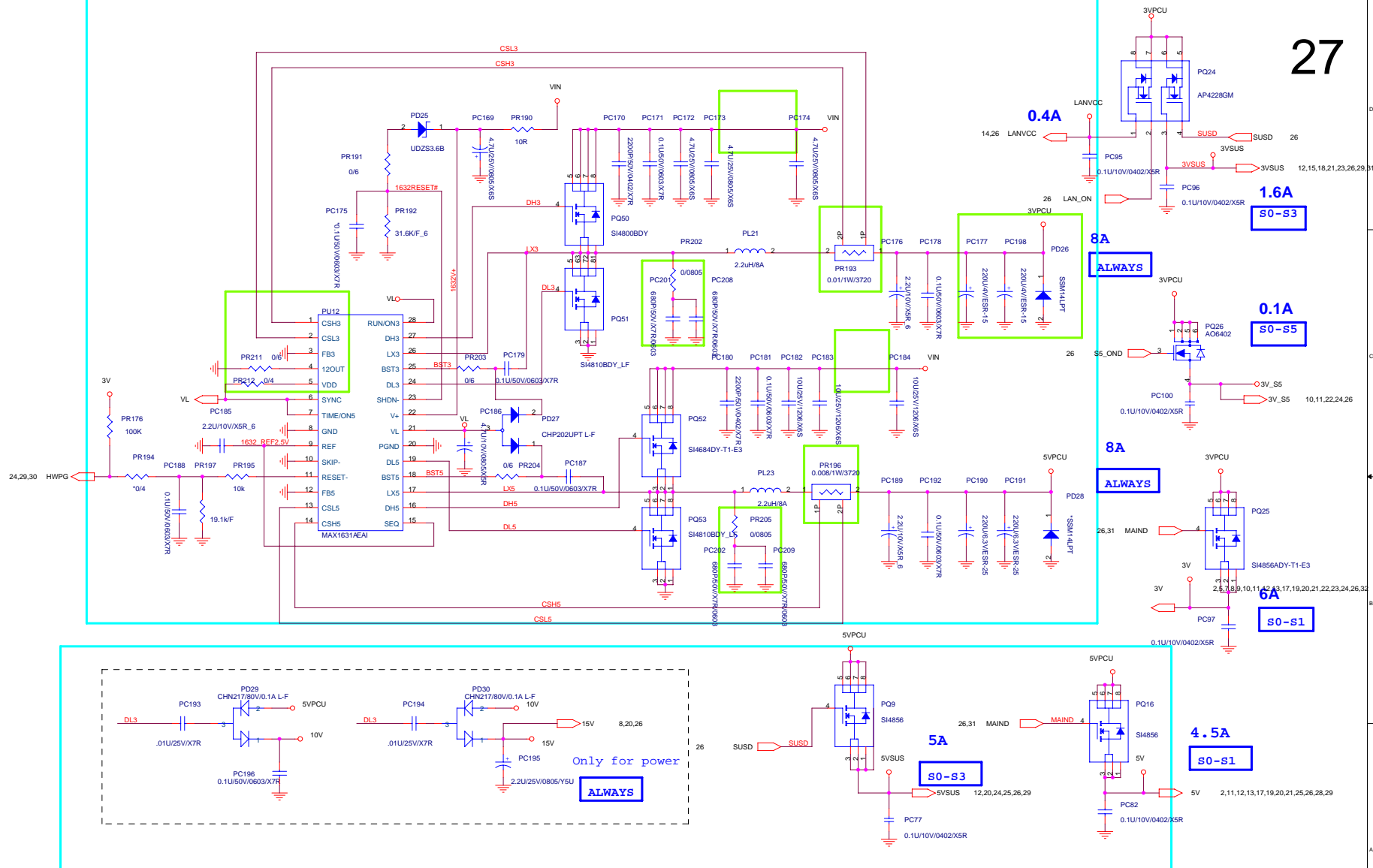


FAN1 PWM CONNECTOR



PROJECT : TT8
Quanta Computer Inc.

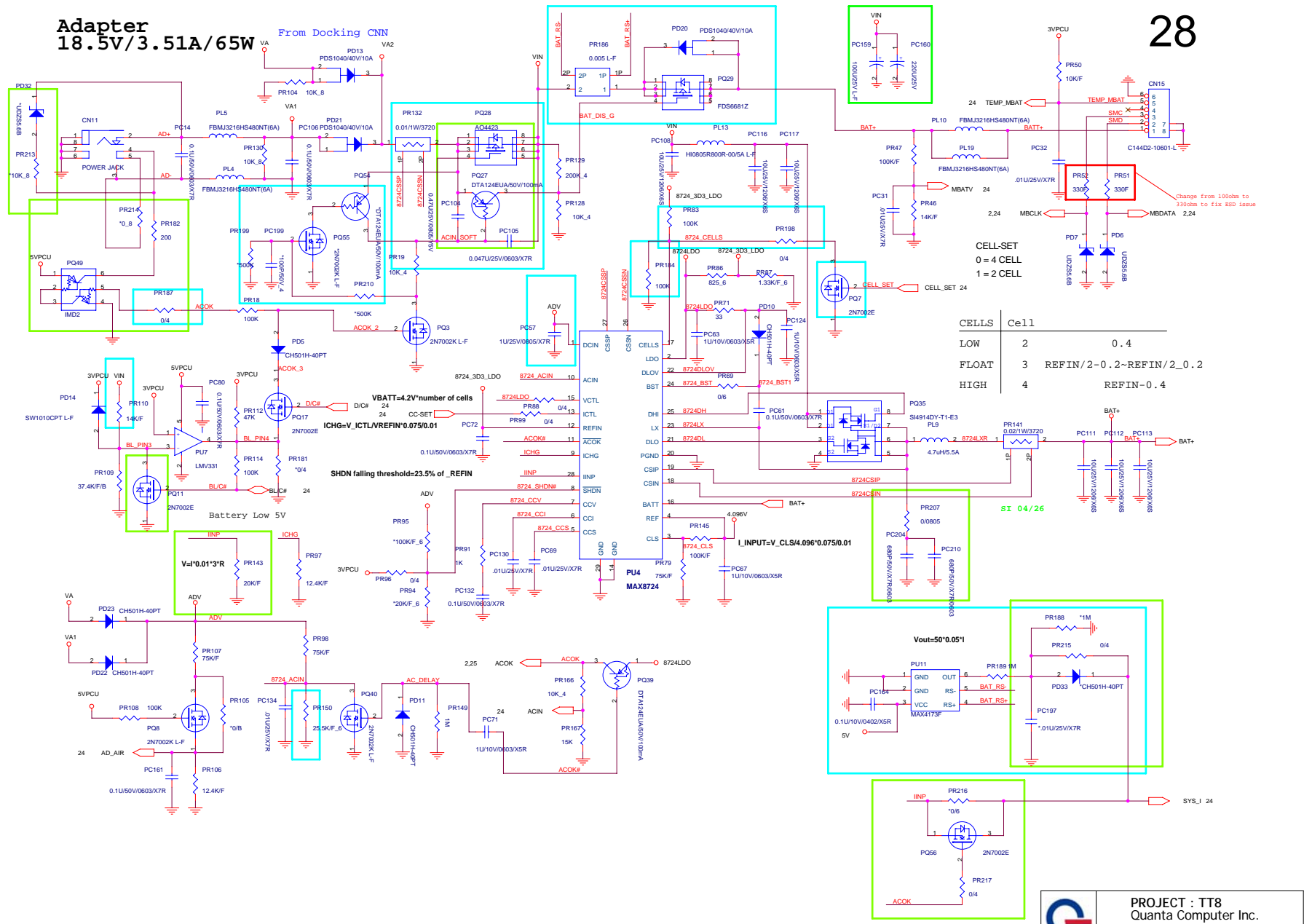
Size Custom	Document Number DISCHARGE	Rev 1A
Date: Friday, November 24, 2006	Sheet 26 of 36	

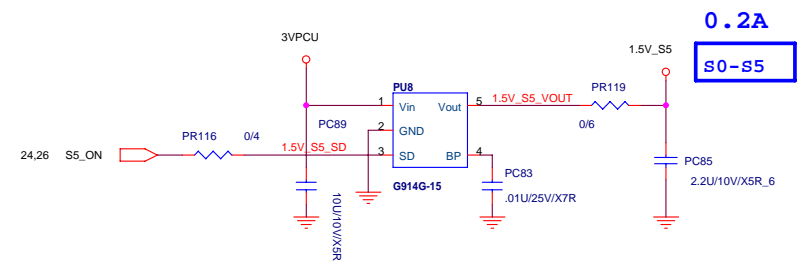
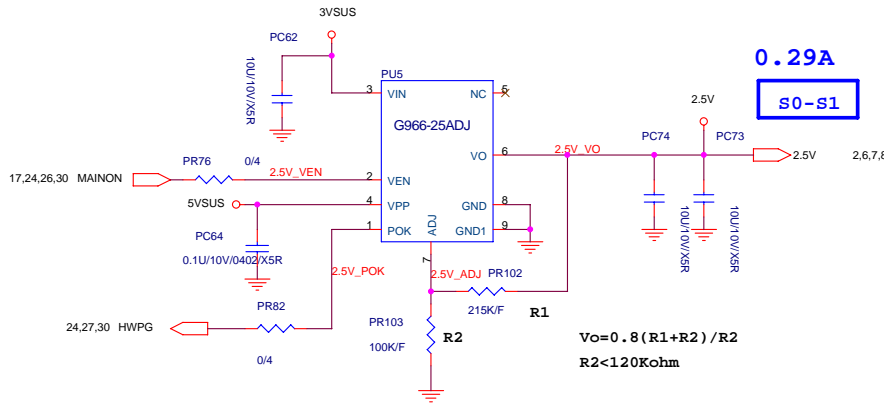


Adapter
18.5V/3.51A/65W

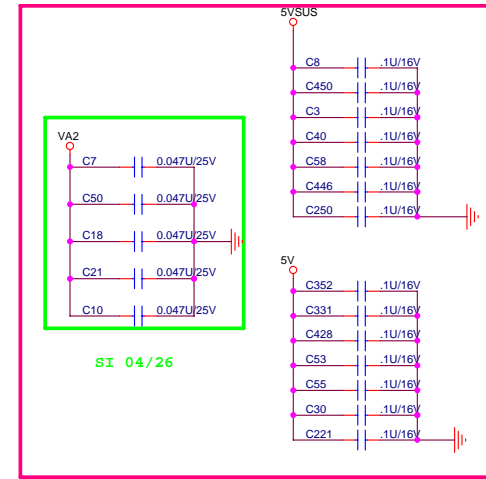
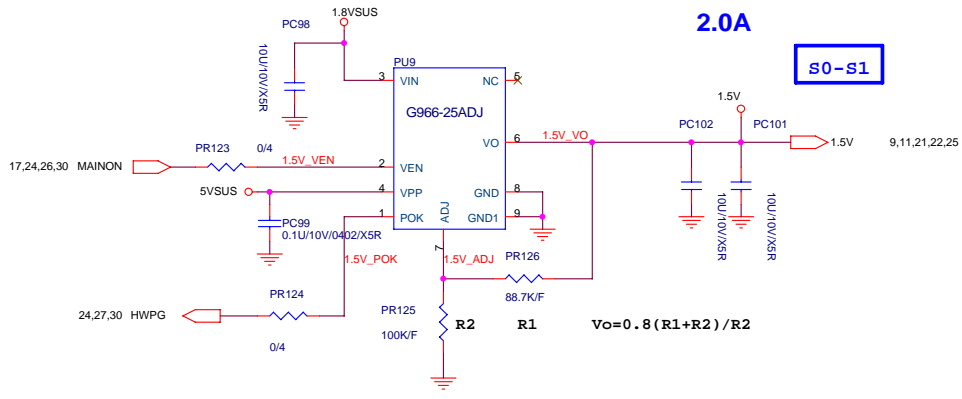
From Docking CNN

28





EMI



MAX1549

S0-S1

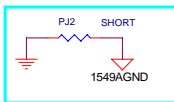
3A

$$V_{cs} = I_L(A) * L_{DCR}(m\Omega) = V_{ILIM}(mV) / 10$$

DCR 28m OHM

$$V_{out} = 0.5V(1 + R1/R2)$$

SI-2 modified



FBLANK			
VCC	OPEN	REF	GND
150us	100us	50us	blanking disabled
150us	100us	50us	100us

OUI fault protection and PG01 blanking
OUI forced-PWM transition operation

S0-S1

3.7A

$$V_{cs} = I_L(A) * L_{DCR}(m\Omega) = V_{ILIM}(mV) / 10$$

DCR 28m OHM

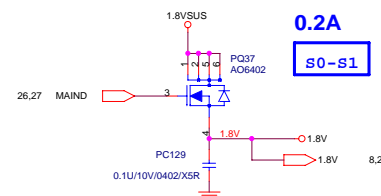
$$V_{out1} = 2.0V(REQ / (R_b + REQ))$$

INPUTS		OUTPUTS			REQ	VOUT1
G1	G0	OD1	OD2	OD3		
0	0	High-Z	High-Z	Hight-Z	Ra=150K	1.2V
1	0	0	High-Z	Hight-Z	Ra//ROD1=100.1K	1.0V
0	1	High-Z	0	Hight-Z	Ra//ROD2=122.4K	1.1V
1	1	High-Z	High-Z	0	Ra//ROD3=82.02K	



PROJECT : TT8
Quanta Computer Inc.

Size Custom Document Number
MAX1549 1.2V/1.2V_NB
Date: Friday, November 24, 2006 Sheet 30 of 36
Rev 1A




OCP=44A
VCC_CORE
35A / 1.05V



D5	D4	D3	D2	D1	D0	Output	D5	D4	D3	D2	D1	D0	Output
0	0	0	0	0	0	1.5500V	1	0	0	0	0	0	0.7625V
0	0	0	0	0	1	1.5250V	1	0	0	0	0	1	0.7900V
0	0	0	0	1	0	1.4750V	1	0	0	0	1	0	0.7375V
0	0	0	1	0	0	1.4750V	1	0	0	0	1	1	0.7250V
0	0	0	1	0	1	1.4500V	1	0	0	1	0	0	0.7125V
0	0	0	1	1	0	1.4250V	1	0	0	1	0	1	0.7000V
0	0	0	1	1	1	1.4000V	1	0	0	1	1	0	0.6875V
0	0	0	1	1	1	1.3750V	1	0	0	1	1	1	0.6750V
0	0	0	1	0	1	1.3500V	1	0	0	1	0	1	0.6625V
0	0	1	0	0	1	1.3250V	1	0	1	0	0	1	0.6500V
0	0	1	0	1	0	1.3000V	1	0	1	0	1	0	0.6375V
0	0	1	0	1	1	1.2750V	1	0	1	0	1	1	0.6250V
0	0	1	1	0	0	1.2500V	1	0	1	0	0	0	0.6125V
0	0	1	1	0	1	1.2250V	1	0	1	0	0	1	0.6000V
0	0	1	1	1	0	1.2000V	1	0	1	1	0	0	0.5875V
0	0	1	1	1	1	1.1750V	1	0	1	1	1	0	0.5750V
0	0	1	0	0	0	1.1500V	1	0	1	0	0	0	0.5625V
0	0	1	0	0	1	1.1250V	1	0	1	0	0	1	0.5500V
0	0	1	0	1	0	1.1000V	1	0	1	0	0	1	0.5375V
0	0	1	0	1	1	1.0750V	1	0	1	0	1	0	0.5250V
0	0	1	1	0	0	1.0500V	1	0	1	0	0	0	0.5125V
0	0	1	1	0	1	1.0250V	1	0	1	0	0	1	0.5000V
0	0	1	1	1	0	1.0000V	1	0	1	0	1	0	0.4875V
0	0	1	1	1	1	0.9750V	1	0	1	1	1	0	0.4750V
0	1	0	0	0	0	0.9500V	1	1	0	0	0	0	0.4625V
0	1	0	0	0	1	0.9250V	1	1	0	0	0	1	0.4500V
0	1	0	1	0	0	0.9000V	1	1	0	0	1	0	0.4375V
0	1	0	1	0	1	0.8750V	1	1	0	0	1	1	0.4250V
0	1	0	1	1	0	0.8500V	1	1	0	0	1	0	0.4125V
0	1	1	0	0	0	0.8250V	1	1	1	0	0	0	0.4000V
0	1	1	0	0	1	0.8000V	1	1	1	0	0	1	0.3875V
0	1	1	0	1	0	0.7750V	1	1	1	0	0	1	0.3750V

MODEL		CHANGE LIST	Model	OT1 MB BOARD	
DB1 --->SI1			Page	FROM	TO
TT8 MB 31TT8MB0006	4/17-4/20	1.Change Audio port and senser pin resistor. Internal MIC change from Pin14,15 to Pin16,17 Docking Mic Change from Pin16,17 to Pin14,15 Docking spk change from Pin23,24 to Pin 43,44 Swap Pin30 and Pin31 Change R486 from Pin 13 to Pin 34 and change from 5.1KK to 10K Change R251 10K to R485 5.1K 2.Change WWAN and WLAN Pin define Add R487 and R488 3.Change TEMP Control chip for leakage, Change Q9 and Q10 to BAM70020074 4.Change HDD connector type, RJ45/CRT connector footprint 5.Swap LCD connector singnal from machine require 6.Swap US CRT/TV signal from nVIDIA require 7.Change battery and D30 footprint 8.Change C251,C242,C138,C66,C71,C276,C277 footprint from 0603 to 0402 9.Add Q36,Q37,R489,C661,R490 for Docking MIC detect 10.Change SW5 and CN8 footprint for machinecal request 11.Change L41 to PBY201209T-300Y-N (Footprint : 0805) 12.Delect H3 and H4 for machinecal change 13.Change C20 from 0.1U to 1U (Fix LCD rise time) 14.Move Net "SLP_BTN# from pin99 to pin87 15.Modify Docking mute LED circuit 16.Modify U25 SCI# signal from BIOS request, AddR491,R492 17.Modify Buletooth switch and ODD BAYINS# to EC 18.Change caps lock connector footprint from machencal request 19.Add U30,R495,R494,R493,Q38 for reserve SIM card 20.Change 4-in-1 card footprint 21.Add R44,R43,R48 Remove R62,R64,R69,R34,R24,R36 22.Change L45,L46,L47 to 0 ohm Del C503,C504,C505,C493,C494,C495 for D-SUB function	1	1A	
			2	1A	
			3	1A	
			4	1A	
			5	1A	
			6	1A	
			7	1A	
			8	1A	
			9	1A	
			10	1A	
			11	1A	
			12	1A	
			13	1A	
			14	1A	
			15	1A	
			16	1A	
			17	1A	
			18	1A	
			19	1A	
			20	1A	
			21	1A	
			22	1A	
			23	1A	
			24	1A	
			25	1A	
			26	1A	
			27	1A	
			28	1A	
			29	1A	
			30	1A	
			31	1A	
			32	1A	
			33	1A	



NBS/RD2/1W/1


PROJECT : TT8
Quanta Computer Inc.


Size Custom

Document Number
--> SI** Change history


Date: Friday, November 24, 2006Sheet 33 of 36

Rev 1A

MODEL	SI1 ---->PV1	CHANGE LIST	Model	OT1 MB BOARD	
			Page	FROM	TO
TT8 MB 31TT8MB0006	5/17~7/11	1.Exchange Audio port External MIC Exchange Pin22 and Pin21 CD Line Exchange Pin18 and Pin20 Internal MIC Exchange Pin16 and Pin17 Docking Mic Exchange Pin14 and Pin15 3.Change R478 from 22ohm to 0ohm 4.Change R462 0ohm to C666 0.47u for Audio chip distortion 5.Exchange R272 and R263, R273 and R264 for amplifier gain change 6.Change Q8 from BAM51030Z15 to BAM23010Z30 for Rdson issue 7.Remove C439 for MS pro card can not detect 8.Add C667,C668,C669,C670,C671,C672,C673,C674,C675,C676 for WLAN con not detect issue 9.Add reverse circuit for LED issue 10.Delect Q7 for Cap lock LED 11.Add EMI Cap C93,C118,C496,C497,C499,C566,C589,C555,C334,C337 12.Change CN19,CN27,CN28,CN29 footprint 14.Change Sim connector (Add detect pin) 15.Move Docking CRT signal after PI circuit 16.Add R500, R501 for Audio chip function 17.Add D37 and R502 for nVIDIA solution 18.Move D22 from +5VCRT to +5VCRT3 19.Change Docking detect circuit 20.Delet H20 H21 21.Exchange MINI_DATA and MINI_CLK 22.Add Diode for SATA and ODD LED control 23.Add power controller for 5V shutdown 24.Change WLAN LED circuit 25.Add Res for ACZ signal 26.Delete H7 and H14 for ME change 27.Modify SB to Audio and Modem signal	1	1A	
			2	1A	
			3	1A	
			4	1A	
			5	1A	
			6	1A	
			7	1A	
			8	1A	
			9	1A	
			10	1A	
			11	1A	
			12	1A	
			13	1A	
			14	1A	
			15	1A	
			16	1A	
			17	1A	
			18	1A	
			19	1A	
			20	1A	
			21	1A	
			22	1A	
			23	1A	
			24	1A	
			25	1A	
			26	1A	
			27	1A	
			28	1A	
			29	1A	
			30	1A	
			31	1A	
			32	1A	
			33	1A	
<div><div><div>NBS/RD2/HW1</div></div><div>PROJECT : TT8 Quanta Computer Inc.</div><div><div>Size Custom</div><div>Document Number --> SI** Change history</div><div>Rev 1A</div></div><div><div>Date: Friday, November 24, 2006</div><div>Sheet 34 of 36</div></div></div>					

MODEL		CHANGE LIST	Model	OT1 MB BOARD	
			Page	FROM	TO
TT8 MB 31TT8MB0006	PV1 --->PV2 9/8-10/17	1.Page17 change voltage from +3V to 3V fix the Mic can not work 2.Page17 change R14 from 4.7K to 5.6K to fix LCCVDD rise time 3.Page17 change LCD cable Pin22 and Pin15 for switch function, Pin7 change to 32K_BTN 4.Page24 add GPIO for switch function 5.Page10 Change cap from 18p to 22p 6.Page17 Change C392 and C395 from 10U to 1U to fix Docking noise 7.Page16 add PA11(EMI spring) 8.Page21 Exchange BBC0EX1 and BBC0EX2 9.Page20 remove C614, C607, C406, C414, C404, C405 10.Page20 Change C635, C415, C416 from TAN to ELEC 11.Page11 Del R205 and Add R207 for Bios check	1	1A	
			2	1A	
			3	1A	
			4	1A	
			5	1A	
			6	1A	
			7	1A	
			8	1A	
			9	1A	
			10	1A	
			11	1A	
			12	1A	
			13	1A	
			14	1A	
			15	1A	
			16	1A	
			17	1A	
			18	1A	
			19	1A	
			20	1A	
			21	1A	
			22	1A	
			23	1A	
			24	1A	
			25	1A	
			26	1A	
			27	1A	
			28	1A	
			29	1A	
			30	1A	
			31	1A	
			32	1A	
			33	1A	
<div><div><div></div><div>NBS/RD2/HW1</div></div><div>PROJECT : TT8 Quanta Computer Inc.</div><div><div>Size Custom</div><div>Document Number --> S1** Change history</div><div>Date: Friday, November 24, 2006</div><div>Sheet 35 of 36</div><div>Rev 1A</div></div></div>					

MODEL		CHANGE LIST		OT1 MB BOARD	
		Model	Page	FROM	TO
TT8 MB 31TT8MB0006	PV2 --->MV1 10/17-11/15	1.Page10 Exchange USB0+/- with USB3+/- signal 2.Page12 Change CN12 Pin1 from 5VSUS to 3V 3.Page17 Change C648 and C656 from 4.7U to 22U to fix Vista issue 4.Page19 Change L35-L38 from LZA10-2ACB104MT to BK1608HS241-T 5.Page19 Change Gain from 15.6db to 10db 6.Page17 Del R260,R267,D312,D322 for Docking MIC 7.Page17 ADD R520,R521,R522,R523 for Docking MIC 8.Page21 Change PR51 PR52 from 100ohm to 330ohm to fix ESD issue 9.Page20 unstuff R188 to fix ODD problem 10.Page11 Change the board ID1 from low to high 11.Page15 Change Cap (C60,C56,C441,C44,C45)from 0.1u to 1u 12.Page15 Change Res (R318,R313,R312)from 39K to 10K 13.Page17 Add 0.01u(C693, C694) to fix high frequency problem 14.Page14 remove the cap(C408,C409) from MV build 15.Page7 Reserve C696 for nVIDIA 16.Page15 Reserve R525 and C695 for 3VSUS drop 17.Page23 Change LED4 for ME requests	1	1A	
			2	1A	
			3	1A	
			4	1A	
			5	1A	
			6	1A	
			7	1A	
			8	1A	
			9	1A	
			10	1A	
			11	1A	
			12	1A	
			13	1A	
			14	1A	
			15	1A	
			16	1A	
			17	1A	
			18	1A	
			19	1A	
			20	1A	
			21	1A	
			22	1A	
			23	1A	
			24	1A	
			25	1A	
			26	1A	
			27	1A	
			28	1A	
			29	1A	
			30	1A	
			31	1A	
			32	1A	
			33	1A	



NBS/RD2/1HW1

Size Custom

Document Number
--> SI** Change history

Date: Friday, November 24, 2006

Rev 1A

Sheet 35 of 36

PROJECT : TT8
Quanta Computer Inc.