**HALL SENSOR**

- D10
- 10K_4
- R12
- 10K_4

**LCD POWER SWITCH**

- 8 INT_LVDS_DGON
- 2 INT_LVDS_BLON
- 1 INT_LVDS_BLOX

**EMI reserve**

- Q24
- Q23
- AO3404

**CAMERA POWER**

- Q22
- 2N7002E
- AO3403

**LCD MODULE**

- 8.9"(5.5V): ZG5 supply 5V

**PROJECT:** ZG5

**Quanta Computer Inc.**

**Date:** Thursday, June 05, 2008

**Sheet:** 17

**Rev.: B**

- Replace resister 0 with bead for EMI issue
- Reserve for panel without DISPON pin
REV. : B
Remove HOLE 1, HOLE 6
Add HOLE 15

MM20050IC12 CF@ x 2, HD@ x 2, ODD@ x 2
SSD x 2
HDD x 2
12" x 4

REV. : B
Swap pin2 & 3 for touch pad function fail.

REV. : C
SMT line suggest to change switch P/N
USB on M/B

LED on M/B

LED on Main Side:
- Charger (Green/ Abler)
- Storage HDD/ SSD/ Media (Gereen)
- Caps (Green)
- Num (Green)
ZIF card connector

- Rev. B:
  - Change connector from CF(CN17) to ZIF(CN24)
  - Change R172 from 33 to 0 ohms

SSD connector

- Rev. B:
  - Change pin 8 to low active
  - Remove R191, C240, C229, C237, C235, C230

- Rev. C:
  - Remove SATA ODD
  - Delete C538, C543, R193 from BOM

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Rev. : B
Remove RN43, RN44

USB#1 => 8.9" (Left side) or 12.1" (Right-Front side)

12"
USB/PWR BTN Board
USB/LED Board

Rev. : B
Remove CN7, CN26, U23, U3, C286, C300, C75, C295

8.9"
Card-Reader / USB / Kill SW / POWER SW

Rev. : B
Reserve for USB cardreader

FOR RD (EASY ON):
SHORT PIN 2 & 4 => SYSTEM ON

PWR_LED_AM_A
mean Amber color that is S3, S4, S5

PWR_LED_GR_A
mean Green color that is S0, S1

LED on Daughter Board Side:
- PWR (Green/ Amber)
- WLAN/ WiMax (Amber)
- 3G (Green)
SD CONNDETOR

For APVDD(pin5)
APVDD(pin5) must put C601/1000pF close to APVDD(pin5) (length must under 120mil) and trace width = 20mil, after C601, pls put one more 0.1uF for it.

Memory Card Power Supply
Use 0805 type and over 20 mils trace width on both side
250mA
MC_PWR_CTRL#
+3.3VSDIO
R385 30mil
0.8

SD CONNDTOR

Rev. : B
Swap pin & change conn. P/N

Rev. : B
No_stuff L22

Rev. : B
No_stuff L22
RON = 3.85p*RTON*Vout/(Vin - 0.5)

Frequency = Vout/(Vin*TON)

TON = 3.85p*1M*1/(Vin - 0.5)

Frequency = 1/(0.0036767) = 272K

AO4712 Rdson = 15~18mOhm

OCF = 7.2~0.8A

L(ripple current) = (19-1.05)*1.05/(2.2u*272k*19)

~1.63A

18m*7 = RILIM*20uA

RILIM = 6K(2.5~8K)

VOUT = (1+R1/R2) * 0.75

Rds*OCP = RILIM*20uA
B test change list

Page 27 : Change PQ6 to BAM49320000
Page 28 : Change PR134 to CS41963F916
Page 28 : Change PD3 to BCBAV99W022
Page 28 : Change PC73 , PC75 to CH73301M8B9
Page 28 : Change FQ10 to BAM49320000
Page 28 : Change FQ11 to BAM47120000
Page 28 : Change FQ12 to BAM44680003
Page 29 : Change FQ1 to BAM49320000
Page 29 : Change PC103 , PC116 to CH7330LM8812
Page 30 : Change PR65 to CS-5103F916
Page 30 : Change PR66 to CS31433B917
Page 30 : Change PC67 , PC72 to CH5101K9B01
Page 30 : Change FQ16 to BAM47100000
Page 30 : Change FQ17 to BAM44680003
Page 30 : Change PU3 to AL05116008
Page 31 : Change FQ4 to BAM44680003
Page 31 : Change PQ5 to BAM47120000
Page 32 : Change PQ7 to BAM44660000

C test change list

Page 28 : Change PL3 , PL4 footprint to CDRH104R-zg5
Page 28 : Add layout location PR151
Page 29 : Change PU5 footprint to qfn40-6X6-5-41p-0_9h-zg5
Page 30 : Add layout location PR149 , PR150

D test change list

Page 28 : Change PR55 to CS41152FB08
Page 28 : Add PD11 Component

M/B sku 2 : Change PU7 to RT8206 (AL008206000)

Add PR147 620K/F_6 (CS46202FB00)

Page 27 : Del PR84 0_6
Page 29 : Del PR3 , PR78 , PR8 , PR79 , PR88 , PR13 , PR92 0_4
Page 32 : Del PR118 0_4