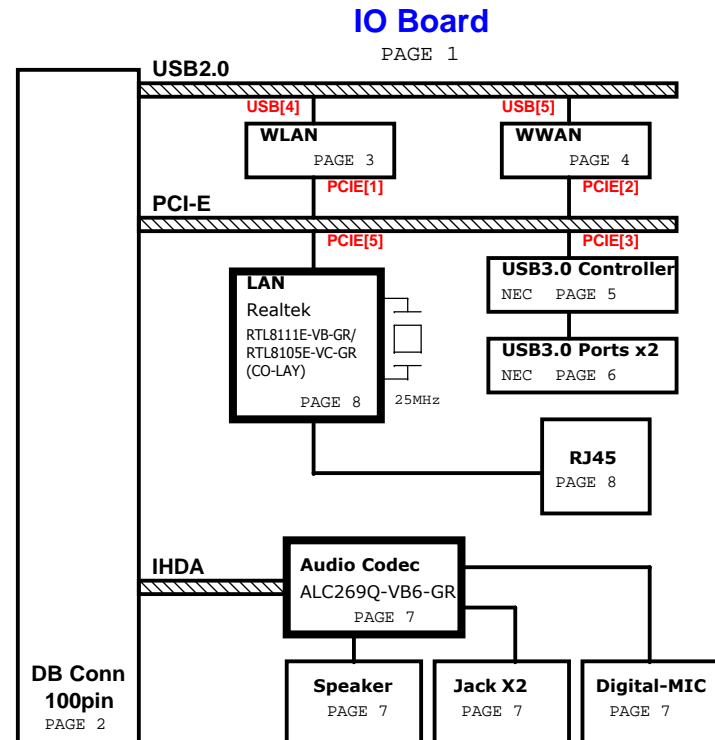
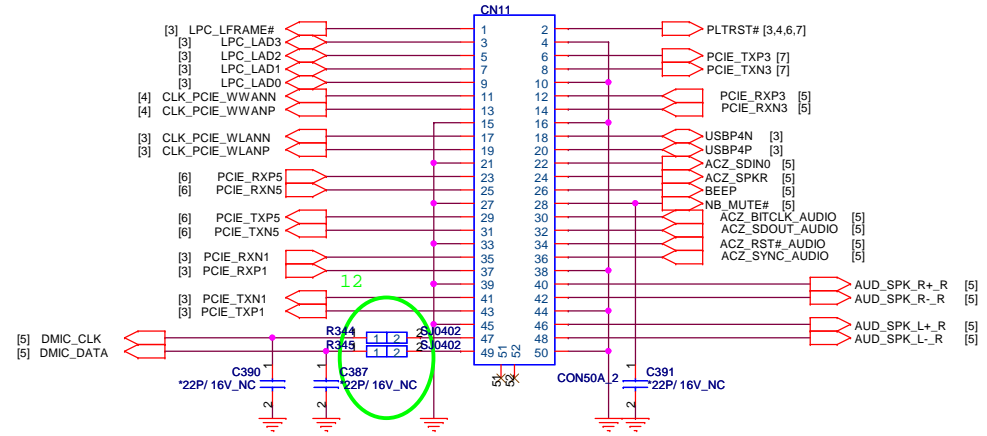
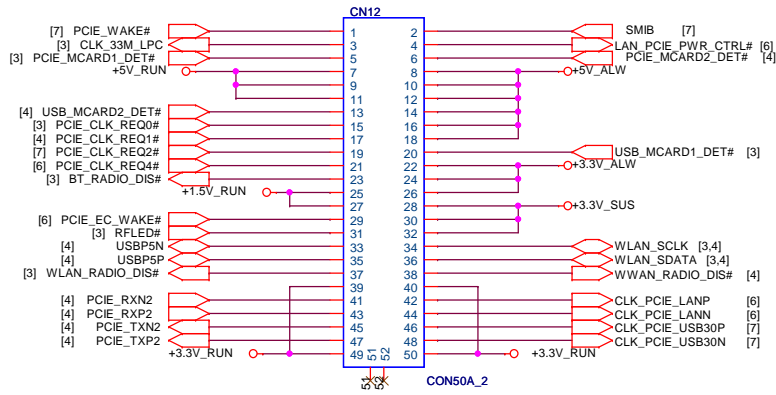


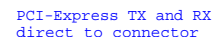
R01/R01A/V02/V02A

I/O Board Block Diagram





+3.3V_RUN +3.3V_RUN +1.5V_RUN



MiniCard WWAN connector

+3.3V_RUN +3.3V_RUN +1.5V_RUN

J8

WAKE# 3.3V_1 2 UIM_PWR
RESERVED_1 GND0 4 UIM_DATA
RESERVED_2 1.5V_1 6 UIM_CLK
CLKREQ# UIM_PWR 8 UIM_RESET
GND1 UIM_DATA 10 UIM_VPP
REFCLK- UIM_CLK 12 UIM_VPP
REFCLK+ UIM_RESET 14 UIM_VPP
GND2 UIM_VPP 16 UIM_VPP

UIM_C8 GND3 18 WWAN_RADIO_DIS# [2]
UIM_C4 W_DISABLE# 20 PLTRST# [2,3,6,7]
GND4 PERST# 22 +3.3V_RUN
PERn0 3.3VAUX1 24 WLAN_SCLK [2,3]
PERp0 GND5 26 WLAN_SDAT [2,3]
GND6 1.5V_2 28 USBP5N [2]
GND7 SMB_CLK 30 USBP5P [2]
PETn0 SMB_DATA 32 USB_MCARD2_DET# [2]
PETp0 GND8 34 WWAN# [3]
GND9 GND9 36 USB_D+
RESERVED_3 USB_D- 38 USB_D-
RESERVED_4 GND10 40 LED_WWAN#
RESERVED_5 LED_WLAN# 42 LED_WPAN#
RESERVED_6 LED_WPAN# 44 1.5V_3
RESERVED_7 1.5V_3 46 3.3V_2
RESERVED_8 GND11 48 3.3V_2
RESERVED_9 3.3V_2 50 3.3V_2
RESERVED_10 3.3V_2 52 3.3V_2

Mini PCI Express/H=4

C572 680P 50

C573 680P 50

JSIM1

UIM_PWR 1 VCC 5 GND 5
UIM_RESET 2 RST 6 UIM_VPP 6
UIM_CLK 3 CLK 7 UIM_DATA 7
Case_GND 4 Case_GND 8 Case_GND 8

YML10124-00001

Place as close as possible to JSIM1 connector

Spacing 1:1

E5D3

*IP4220CZ6_NC

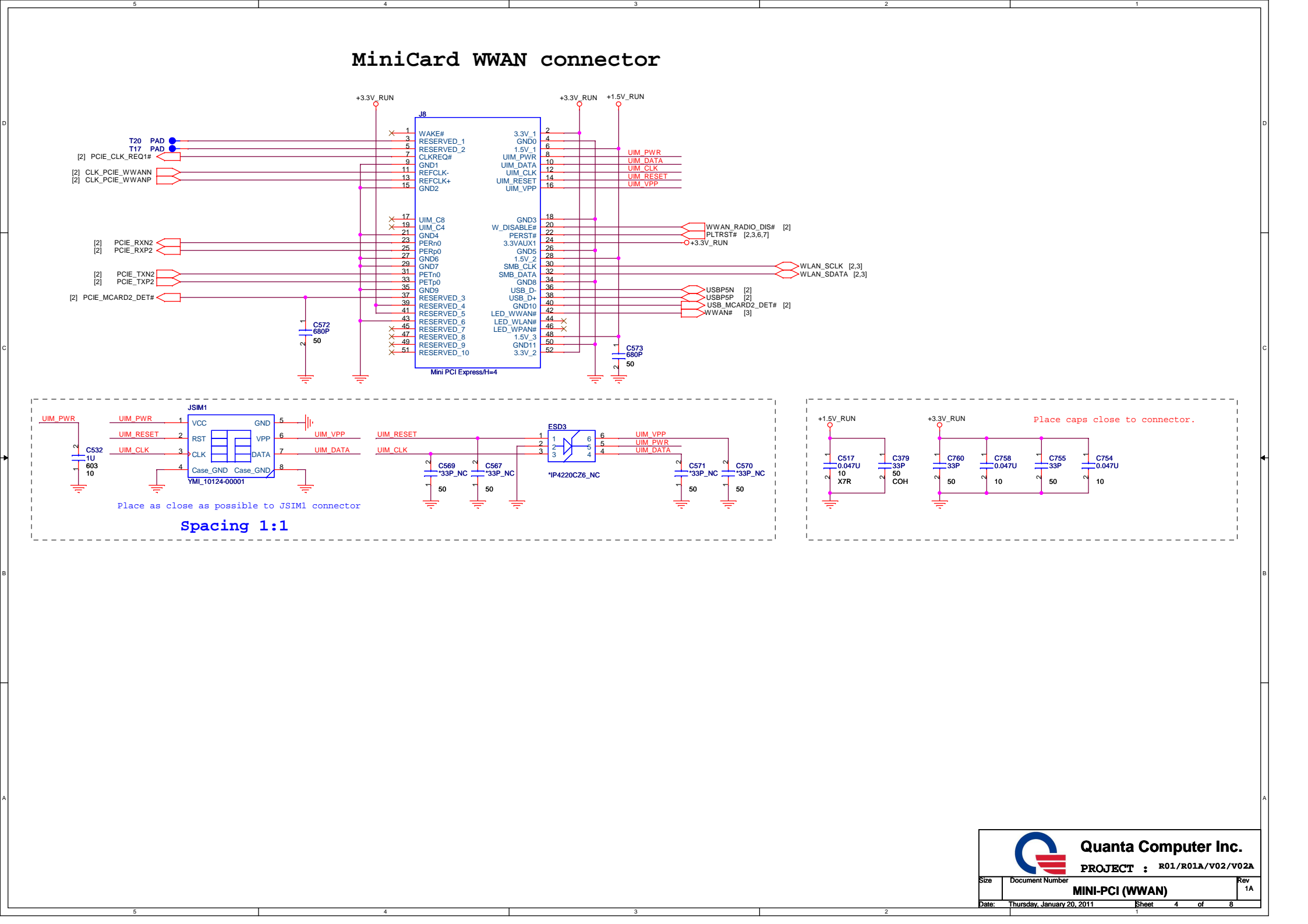
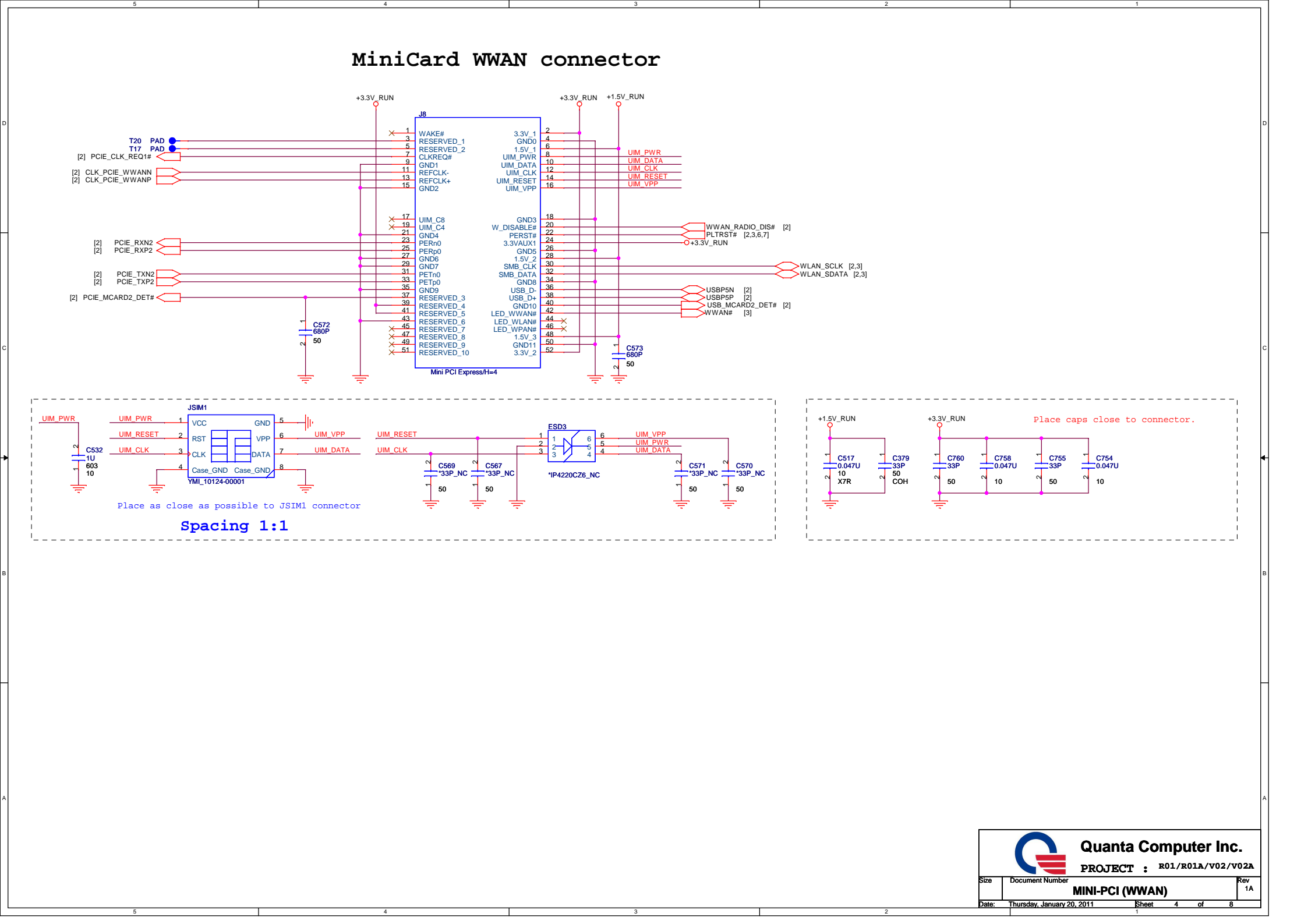
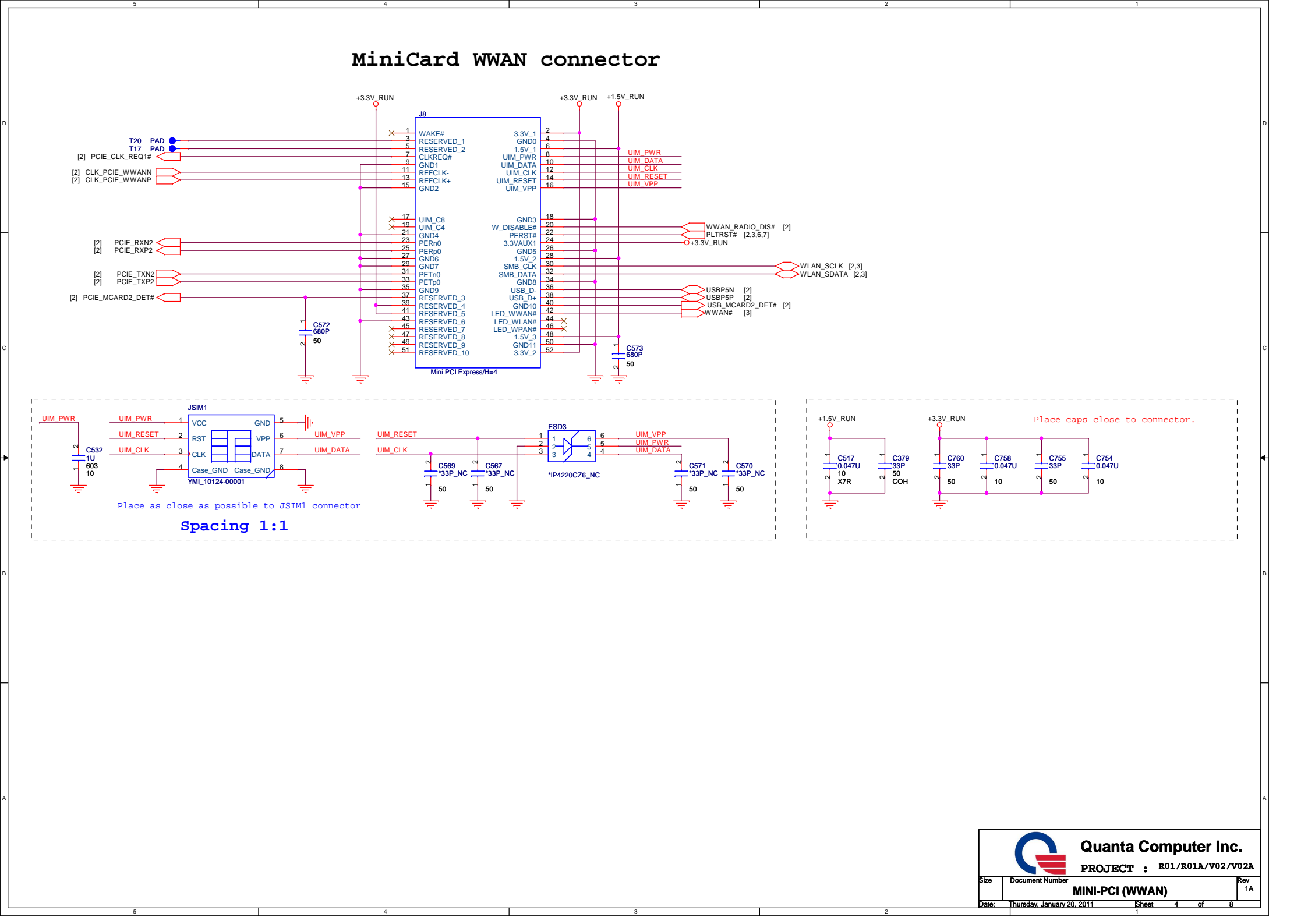
UIM_VPP 6 UIM_VPP 6
UIM_PWR 5 UIM_PWR 5
UIM_DATA 4 UIM_DATA 4
UIM_RESET 3 UIM_RESET 3

C569 33P_NC 50 C567 33P_NC 50 C571 33P_NC 50 C570 33P_NC 50

+1.5V_RUN +3.3V_RUN Place caps close to connector.

C517 0.047U 10 X7R C379 33P 50 COH C760 33P 50 C758 0.047U 10 C755 33P 50 C754 0.047U 10

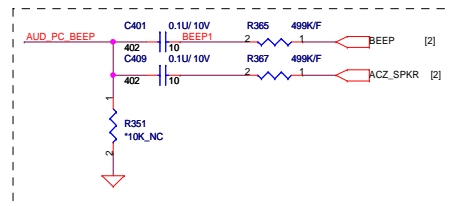
Quanta Computer Inc.
 PROJECT : R01/R01A/V02/V02A
 MINI-PCI (WWAN)
 Date: Thursday, January 20, 2011 Sheet 4 of 8 Rev 1A



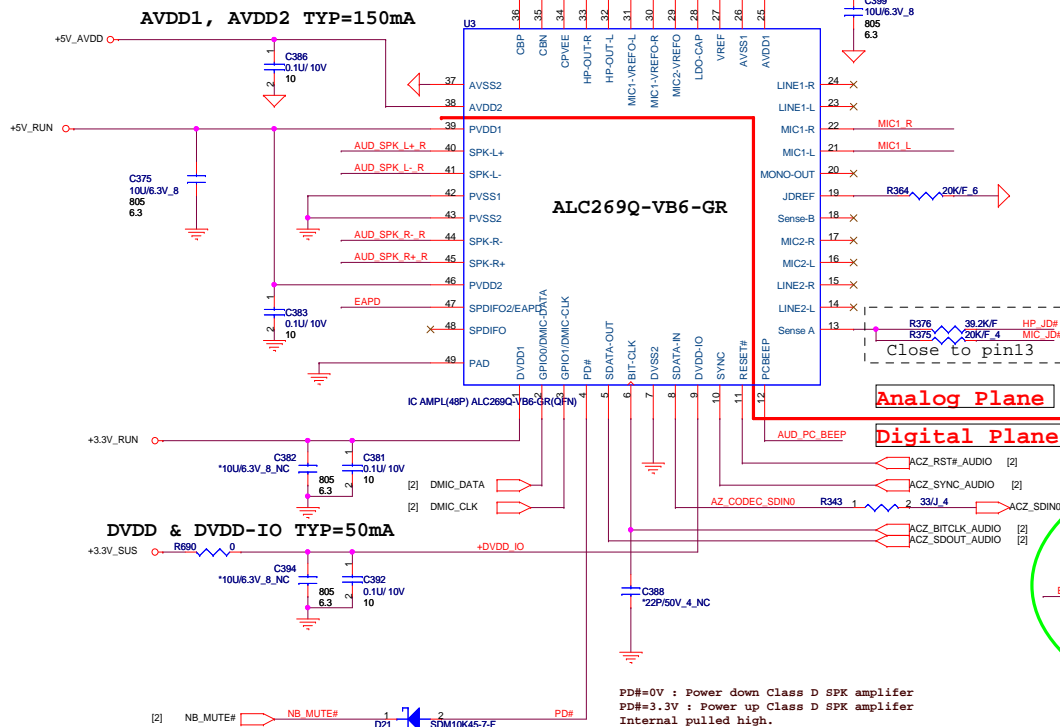


VA type: PIN28 作為MIC之偏壓
PIN31接A-GND

VB type: PIN31 作為MIC之偏壓
PIN28接CAP作為內部LDO
output 輸出濾波用



AVDD1, AVDD2 TYP=150mA

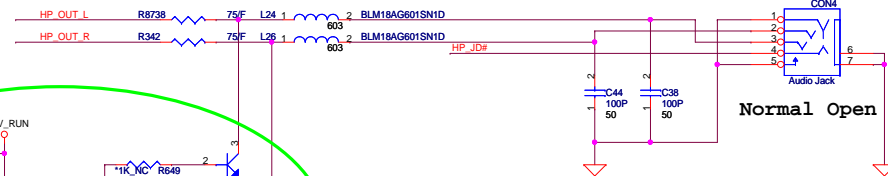


```
PD#=0V : Power down Class D SPK amplifier
PD#=3.3V : Power up Class D SPK amplifier
Internal pulled high.
```

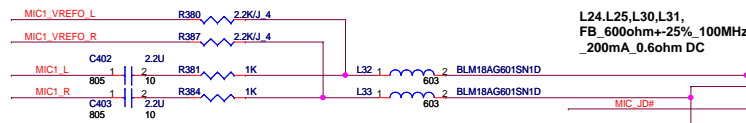
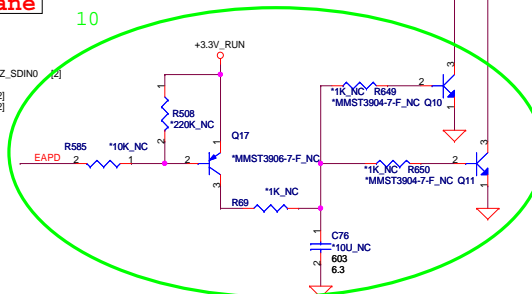
Trace width 40mil

Int. Stereo Speakers

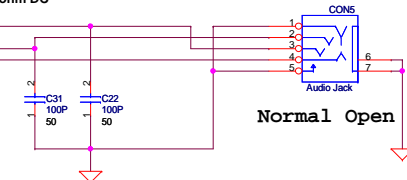
5V / 4 Ohm / 2W



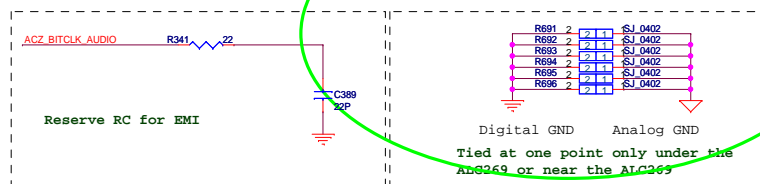
Normal Open

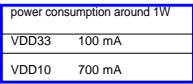


L24,L25,L30,L31,
FB_600ohm+-25%_100MHz
200mA 0.6ohm DC



Normal Open

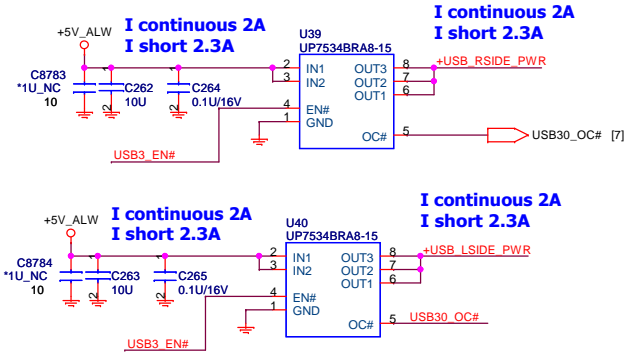
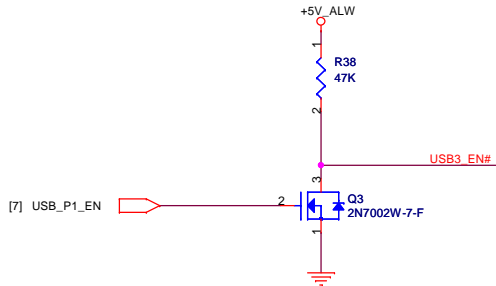




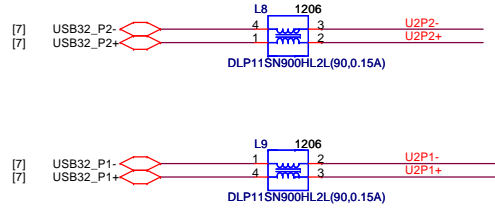
Hi Active

$$V_{out} = 0.8 * (R1 + R2 / R2)$$

copy GM6

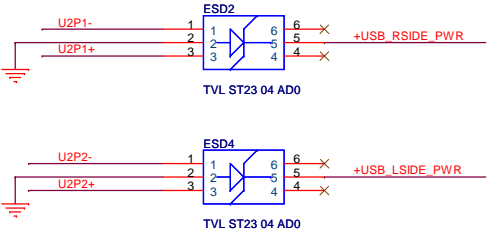


USB2.0 EMC



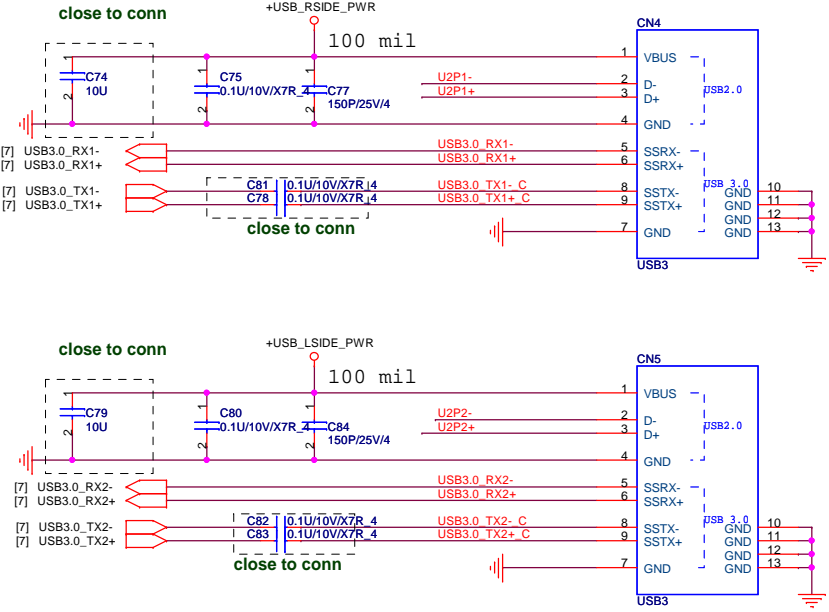
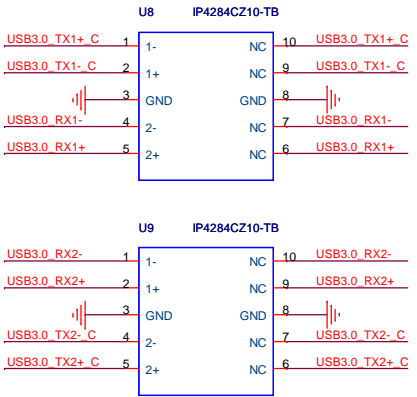
ESD Function

Place ESD diodes as close as USB connector.



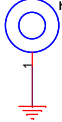
USB3.0 EMC

ESD Function

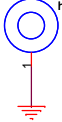


Check FootPrint symbol

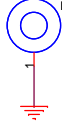
H1
H-TC236BC315D110P2
h-c236d110p2



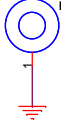
H2
H-TC236BC315D110P2
h-c236d110p2



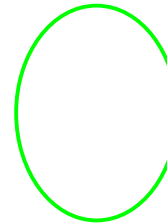
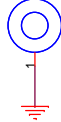
H3
H-TC236BC315D110P2
h-c236d110p2



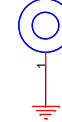
H4
H-TC236BC315D110P2
H-C236D142P2



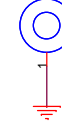
H5
H-TC236BC315D110P2
H-C236D142P2



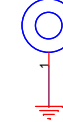
H7
H-TC236BC315D110P2
h-c236d142p2



H8
H-TC236BC315D110P2
h-tc6bo11x6d3p2



H9
H-TC236BC315D110P2
h-to7x5bo10x8d5x3p2



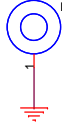
H10
H-TC236BC315D110P2
o-v02a-1



H11
H-TC236BC315D110P2
o-v02a-2



H12
h-c236d157x141p2
h-c236d157x141p2



Quanta Computer Inc.

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