Hummingbird1_HR DIS/UMA/Muxless Schematics Document Sandy Bridge Intel PCH

DY :None Installed

DIS:DIS installed

DIS Muxless : BOTH DIS or Muxless installed

DIS PX:BOTH DIS or PX installed

DIS PX Muxless:DIS or PX or Muxless installed.

Muxless: Muxless installed.(PX4.0)

PX:MUX installed.(PX3.0)

PX Muxless: BOTH PX or Muxless installed.

UMA: UMA installed

UMA Muxless: BOTH UMA or Muxless installed

UMA PX Muxless: UMA or PX or Muxless installed

ANNIE: ONLY FOR ANNIE solution.

PSL: KBC795 PSL circuit for 10mW solution installed. 10mW: External circuit for 10mW solution installed.

65W: for 65W adaptor installed. 90W: for 90W adaptor installed.

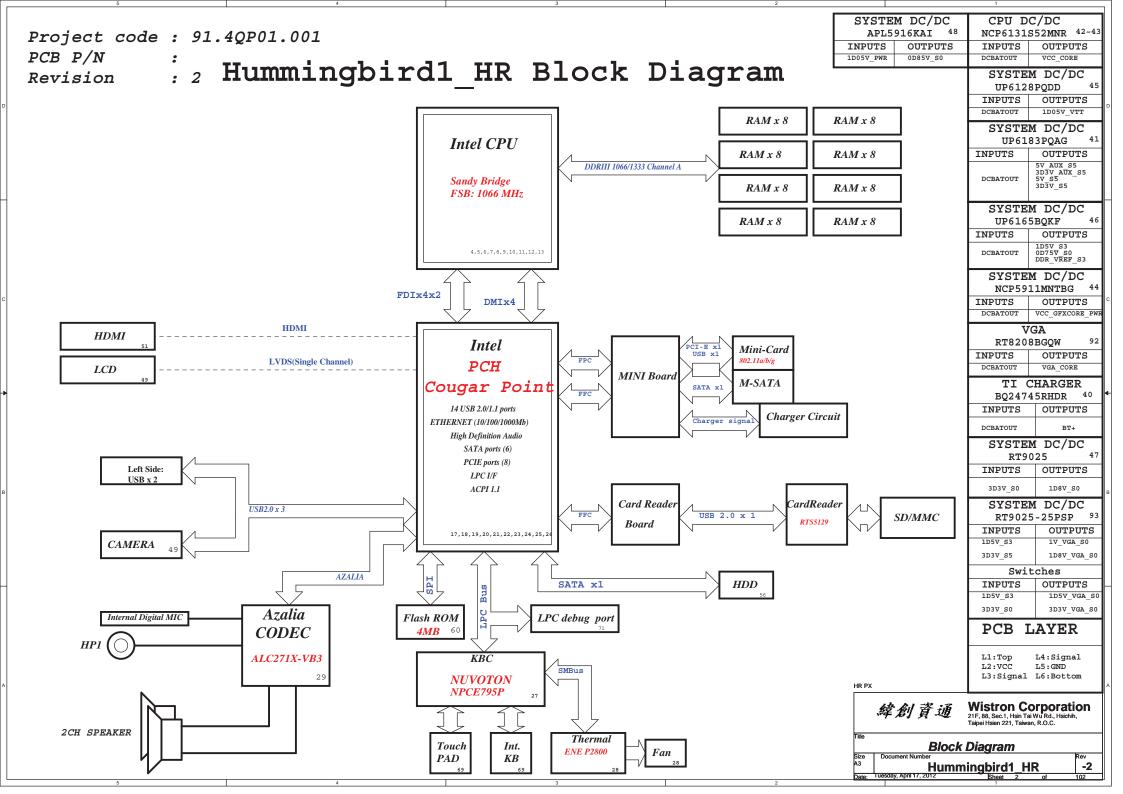
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Title

Cover Page
Size A3

Hummingbird1 HR -2

Date: Tuesday, April 177, 2012 Sheet 1 of 102



| PCH St | A rapping Huron River Schematic Checkli | st Rev.0_7 | | |
|--|--|---|--|--|
| Name | Schematics Notes | | | |
| SPKR | Reboot option at power-up Default Mode: Internal weak Pull-down. No Reboot Mode with TCO Disabled: Connect to Vcc3_3 - $10-k\Omega$ weak pull-up resistor. | with $8.2\text{-}k\Omega$ | | |
| INIT3_3V# | Weak internal pull-up. Leave as "No Connect". | | | |
| GNT3#/GPI055 GNT2#/GPI053 GNT1#/GPI051 | GNT[3:0]# functionality is not available on Mobile. Mobile: Used as GPIO only Pull-up resistors are not required on these signals If pull-ups are used, they should be tied to the Vo | | | |
| SPI_MOSI | Enable Danbury: Connect to Vcc3_3 with 8.2-k? weak pull-up resistor. Disable Danbury: Disable Danbury Disable | | | |
| NV_ALE | Enable Danbury: Connect to +NVRAM_VCCQ with 8.2-kohm weak pull-up resistor [CRB has it p with 1-kohm no-stuff resistor] Disable Danbury-Leave floating (internal pull-down) | n pulled up | | |
| NC_CLE | DMI termination voltage. Weak internal pull-up. Do | not null low | | |
| HAD DOCK EN# /GPTO[33] | Low (0) - Flash Descriptor Security will be overridden. Also, when this signals is sampled on the rising edge of PWROK then it will also disable Intel ME and its features. High (1) - Security measure defined in the Flash Descriptor will be enabled. Platform design should provide appropriate pull-up or pull-down depending on the desired settings. If a jumper option is used to tie this signal to GND as required by the functional strap, the signal should be pulled low through a weak pull-down in order to avoid asserting HDA_DOCK_EN# inadvertently. Note: CRB recommends 1-kohm pull-down for FD Override. There is an internal pull-up of 20 kohm for DA_DOCK_EN# which is only enabled at boot/reset for strapping functions. | | | |
| HDA_SDO | Weak internal pull-down. Do not pull high. Sampled | at rising edge of RSMRST#. | | |
| HDA_SYNC | Weak internal pull-down. Do not pull high. Sampled | at rising edge of RSMRST#. | | |
| GPIO15 | Low (1) - Intel ME Crypto Transport Layer Security confidentiality High (1) - Intel ME Crypto Transpor suite with confidentiality Note: This is an un-muxed signal. This signal has a weak internal pull-down of 20 koh Sampled at rising edge of RSMRST#. CRB has a 1-kohm pull-up on this signal to +3.3VA r | t Layer Security (TLS) cipher m which is enabled when PWROK is low | | |
| GPIO8 | GPIO8 on PCH is the Integrated Clock Enable strap and is required to be pulled-down using a lk +/- 5% resistor. When this signal is sampled high at the rising edge of RSMRST#, Integrated Clocking is enabled, When sampled low, Buffer Through Mode is enabled. | | | |
| GPIO27 | Default = Do not connect (floating) High(1) = Enables the internal VccVRM to have a cl analog rails. No need to use on-board filter circu Low (0) = Disables the VccVRM. Need to use on-boar circuits for analog rails. | iit. | | |
| | | USB Table | | |
| PCIE R | outing | Pair Device 0 Touch Panel / 3G SIM 1 USB Ext. port 1 (HS) | | |
| LANE1 M | ini Card2(WWAN) | 2 Fingerprint | | |
| THINE I | IIII Calaz (MIAII) | 3 BLUETOOTH | | |
| T.ANE2 M | ini Cardi (WIAN) dama mabla | | | |

| C | | . D | |
|----------|---|---|------------------|
| Proce | ssor Stra | pping Huron River Schematic Checklist | Rev.0_7 |
| Pin Name | Strap Description | Configuration (Default value for each bit is 1 unless specified otherwise) | Default Value |
| CFG[2] | PCI-Express Static Lane Reversal | 1: Normal Operation. 0: Lane Numbers Reversed 15 -> 0, 14 -> 1, | 1 |
| CFG[4] | | Disabled - No Physical Display Port attached to 1: Embedded DisplayPort. Enabled - An external Display Port device is 0: connectd to the EMBEDDED display Port | 0 |
| CFG[6:5] | PCI-Express Port Bifurcation Straps | 11: x16 - Device 1 functions 1 and 2 disabled 10: x8, x8 - Device 1 function 1 enabled; function 2 disabled 01: Reserved - (Device 1 function 1 disabled; function 2 enabled) 00: x8, x4, x4 - Device 1 functions 1 and 2 enabled | 11 |
| CFG [7] | PEG DEFER TRAINING | 1: PEG Train immediately following xxRESETB de asse: 0: PEG Wait for BIOS for training | tion |

| POWER PLANE | VOLTAGE | Voltage Rails | DESCRIPTION | |
|---|--|---------------|---|--|
| | | ACTIVE IN | | |
| | 5V 3.3V 1.8V 1.5V 0.95 - 0.85V 0.75V 0.35V to 1.5V 0.4 to 1.25V 1.8V 3.3V | S0 | CPU Core Rail Graphics Core Rail | |
| 5V_USBX_S3 1D5V_S3 DDR_VREF_S3 | 5V 1.5V 0.75V | S3 | | |
| BT+ DCBATOUT 5V_S5 5V_AUX_S5 3D3V_S5 3D3V_AUX_S5 | 6V-14.1V 6V-14.1V 5V 5V 3.3V 3.3V | All S states | AC Brick Mode only | |
| 3D3V_LAN_S5 | 3.3V | WOL_EN | Legacy WOL | |
| 3D3V_AUX_KBC | 3.3V | DSW, Sx | ON for supporting Deep Sleep states | |
| 3D3V_AUX_S5 | 3.3V | G3, Sx | Powered by Li Coin Cell in G3 and +V3ALW in Sx | |

| PCIE Routing | | | |
|--------------|------------------|--|--|
| LANE1 | Mini Card2(WWAN) | | |
| LANE2 | Mini Card1(WLAN) | | |
| LANE3 | Card Reader | | |
| LANE4 | Onboard LAN | | |
| LANE5 | USB3.0 | | |
| LANE6 | Intel GBE LAN | | |
| LANE7 | Dock | | |
| LANE8 | New Card | | |

| SATA Table | | | |
|------------|--------|--|--|
| | SATA | | |
| Pair | Device | | |
| 0 | HDD1 | | |
| 1 | HDD2 | | |
| 2 | N/A | | |
| 3 | N/A | | |
| 4 | ODD | | |
| 5 | ESATA | | |

| Pair | Device |
|------|--------------------------------------|
| 0 | Touch Panel / 3G SIM |
| 1 | USB Ext. port 1 (HS) |
| 2 | Fingerprint |
| 3 | BLUETOOTH |
| 4 | Mini Card2 (WWAN) |
| 5 | CARD READER |
| 6 | x |
| 7 | x |
| 8 | USB Ext. port 4 / E-SATA /USB CHARGE |
| 9 | USB Ext. port 2 |
| 10 | EDP CAMERA |
| 11 | Mini Card1 (WLAN) |
| 12 | CAMERA |
| 13 | New Card |
| | |

| | SMBus ADDRESSES | | | | |
|----|--|---------|--|--|------|
| | I ² C / SMBus Addresses | Ref Des | HURON RIVER ORB Address Hex Bus | | |
| | EC SMBus 1 Battery CHARGER | | BAT_SCL/BAT_SD BAT_SCL/BAT_SD BAT_SCL/BAT_SD | A | |
| | EC SMBus 2 PCH eDP | | SML1_CLK/SML1_ SML1_CLK/SML1_ SML1_CLK/SML1_ | DATA | 1e> |
| ≅R | PCH SMBus SO-DIMWA (SPD) SO-DIMWB (SPD) Digital Pot G-Sensor MINI | | PCH_SMBDATA/PC PCH_SMBDATA/PC PCH_SMBDATA/PC PCH_SMBDATA/PC PCH_SMBDATA/PC PCH_SMBDATA/PC PCH_SMBDATA/PC | H_SMBCLK H_SMBCLK H_SMBCLK H_SMBCLK H_SMBCLK | \$ 1 |

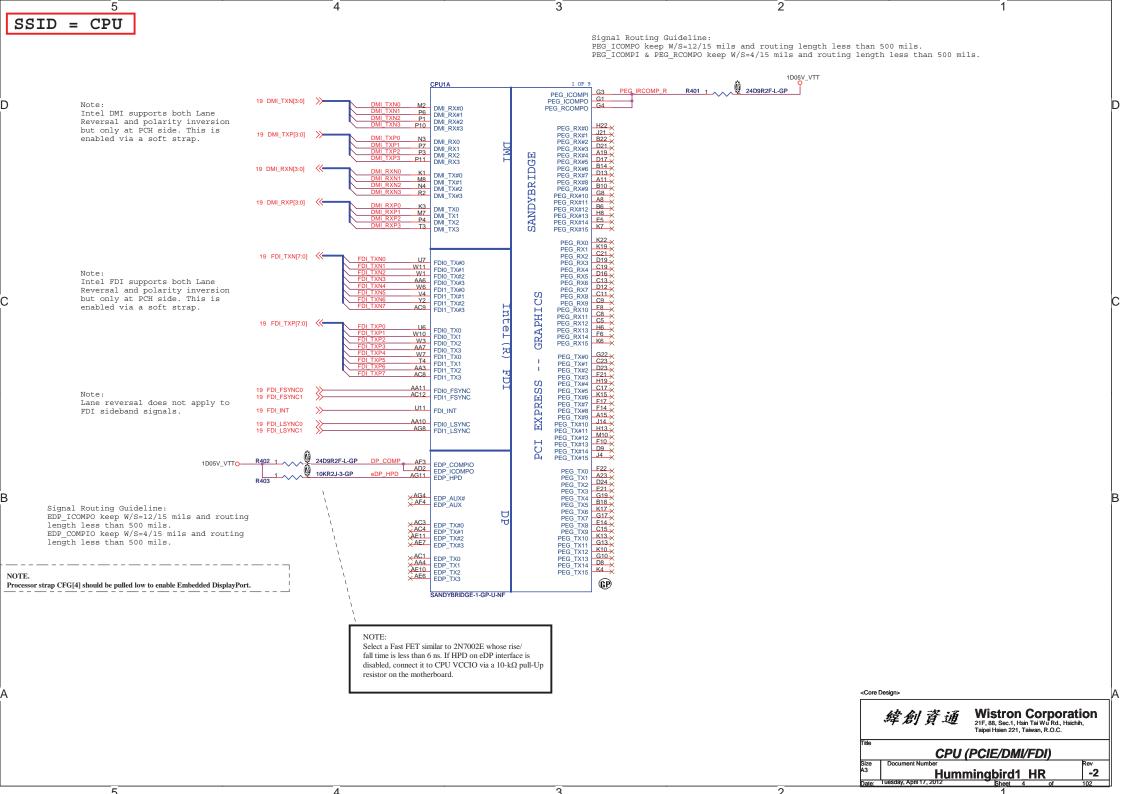
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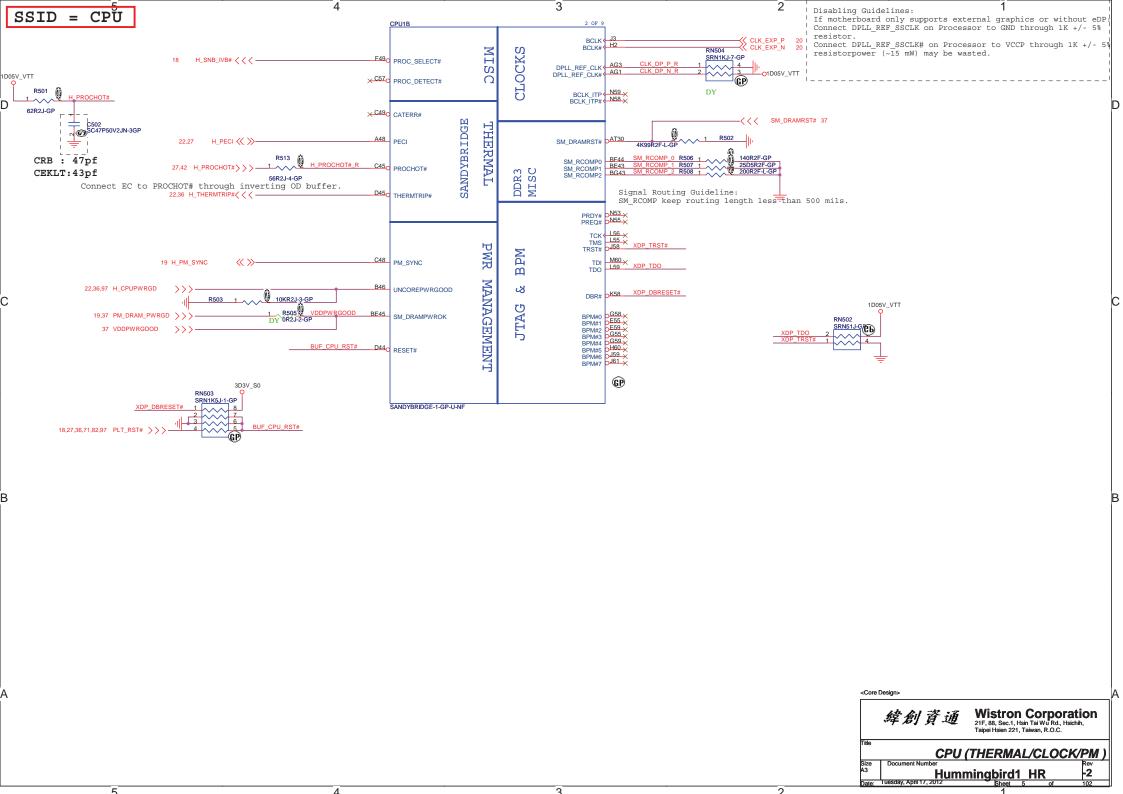
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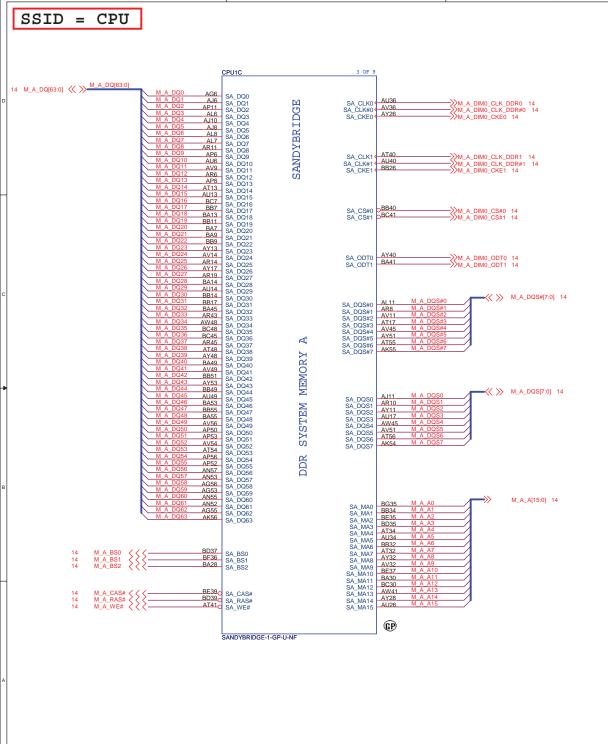
Table of Content

Hummingbird1 HR

Tuesday, April 17, 2012 Sheet 3







| | OI OID | | | |
|--------------------|---------|-------------|------------------|--------|
| | | | | |
| | | | | |
| \times AL4 | SB DQ0 | | | |
| AL1 | SB DQ1 | | SB CLK0 | BA34 |
| XAN3 | SB DQ2 | (±1) | SB CLK#0 | AY34 |
| XAR4 | SB_DQ3 | SANDYBRIDGE | SB CKE0 | AR22 |
| AK4 | SB_DQ4 | \simeq | OD_ORLO | |
| Ç AK3 | SB_DQ5 | H | | |
| ÇAN4 | SB_DQ6 | | | |
| ○AR1 | | pq | | |
| QAU4 | SB_DQ7 | Щ | | |
| ♦ AT2 | SB_DQ8 | Ы. | 00.00144 | BA36 |
| AV4 | SB_DQ9 | 6 | SB_CLK1 | BB36 |
| V BA4 | SB_DQ10 | Ħ | SB_CLK#1 | BF27 |
| × AU3 | SB_DQ11 | - 4 | SB_CKE1 | BI ZIX |
| | SB_DQ12 | A; | | |
| XAR3 | SB DQ13 | Ø | | |
| XAY2 | SB DQ14 | | | |
| BA3 | SB_DQ15 | | | |
| BE9 | SB_DQ16 | | | |
| ✓ BD9 | SB DQ17 | | SB CS#0 | BE41 |
| BD13 | SB_DQ18 | | SB CS#1 | BE47 |
| BF12 | | | 30_03#1 | _ ^ |
| Ç BF8 | SB_DQ19 | | | |
| BD10 | SB_DQ20 | | | |
| BD14 | SB_DQ21 | | | |
| BE13 | SB_DQ22 | | | |
| DE46 | SB_DQ23 | | | AT43 |
| BF16 | SB_DQ24 | | SB_ODT0 | |
| BE17 | SB_DQ25 | | SB_ODT1 | BG47 |
| BE18 | SB_DQ26 | | | |
| BE21 | SB_DQ27 | | | |
| BE14_ | SB DQ28 | | | |
| BG14 | SB DQ29 | | | |
| BG18 | SB_DQ30 | | | |
| BF19 | SB_DQ31 | | SB DQS#0 | AL3 × |
| BD50 | | | | |
| BD50 BF48 | SB_DQ32 | | SB_DQS#1 | BG11 |
| BD53 | SB_DQ33 | | SB_DQS#2 | BD17 |
| BF52 | SB_DQ34 | | SB_DQS#3 | BG51 |
| BD49 | SB_DQ35 | | SB_DQS#4 | BA59 |
| BE49 | SB_DQ36 | Щ | SB_DQS#5 | AT60 |
| BD54 | SB_DQ37 | | SB_DQS#6 | AK59 |
| DEE0 | SB_DQ38 | N . | SB_DQS#7 | ANDS |
| BE53 | SB_DQ39 | 53 | | |
| BF56 | SB_DQ40 | ᄨ | | |
| BE57 BC59 | SB DQ41 | O | | |
| | SB_DQ42 | Σ | | |
| AY60 BE54 | SB_DQ43 | [1] | | |
| | SB_DQ44 | MEMORY | | |
| BG54 | SB DQ45 | _ | | |
| BA58 | SB_DQ46 | | SB_DQS0 | AM2× |
| AW59 | SB_DQ47 | SYSTEM | SB_DQS1 | AV1 |
| AW58 | | 124 | | BE11 |
| AU58 | SB_DQ48 | - ⊟ | | BD18 |
| AN61 | SB_DQ49 | S | SB_DQS3 | BE51 |
| AN59 | SB_DQ50 | 54 | SB_DQS4 | BA61 |
| AU59 | SB_DQ51 | 70 | SB_DQS5 | AR59 |
| AU61 | SB_DQ52 | 01 | SB_DQS6 | AK61 |
| AN58 | SB_DQ53 | 4.1 | SB_DQS7 | ANUX |
| AINDE | SB_DQ54 | ₩ | | |
| AR58 | SB_DQ55 | Д | | |
| AK58 | SB_DQ56 | | | |
| AL58 | SB_DQ57 | - | | |
| AG58 | SB_DQ58 | | | |
| AG59 | SB_DQ59 | | | |
| AM60 | SB DQ60 | | | |
| AL59 | | | CD MAG | BF32 |
| AF61 | SB_DQ61 | | SB_MA0 SB_MA1 | BE33 |
| AH60 | SB_DQ62 | | | BD33 |
| X | SB_DQ63 | | SB_MA2 | AU30 |
| | | | SB_MA3 | BD30 |
| | | | SB_MA4 | |
| | | | SB_MA5 | AV30 |
| BC00 | | | SB_MA6 | BG30 |
| BG39 | SB BS0 | | SB MA7 | BD29 |
| BD42 | SB_BS1 | | SB_MA8 | BE30 |
| AT22 | SB BS2 | | SB_MA9 | BE28 |
| | 00_002 | | SB_MA10 | BD43 |
| | | | SB_MA11 | AT28 |
| | | | OB_MA11 | AV28 |
| AV43 | CD CAC# | | SB_MA12 | BD46 |
| BF40 | SB_CAS# | | SB_MA13 | AT26 |
| | SB_RAS# | | SB_MA14 | AU22 |
| BD45 - | SB_WE# | | SB_MA15 | -nucex |
| BD450 | | | | 60 |
| ×BD45 _O | | | | |
| ×BD45 _○ | | | | (GP) |
| BD45 _O | | | | (GP) |

4 OF 9

CPU1D



SSID = CPU5 OF 9 CPU1E RSVD#BE7 BG7 × B50 × C51 B54 CFG0 CFG1 CFG2 CFG3 CFG4 CFG5 CFG6 CFG7 CFG8 CFG9 CFG10 CFG11 CFG12 CFG13 SANDYBRIDGE RSVD#BG7 R702 DY 1KR2J-1-GP RSVD#L47 L47 × √**©**® RSVD#M13 RSVD#M14 RSVD#U14 RSVD#W14 RSVD#P13 RSVD#AT49 K24 X SERVED × H43 × K43 VCC_VAL_SENSE VSS_VAL_SENSE RSVD#AH2 RSVD#AG13 RSVD#AM14 × H45 VAXG_VAL_SENSE VSSAXG_VAL_SENSE RSVD#AM14 AM15 VSSAXG_VAL_SENSE RSVD#N50 N50 × × F48 VCC DIE SENSE B4:VREF DQ CHA RSVD#H48 DC_TEST_A4

DC_TEST_C4

DC_TEST_D3

DC_TEST_D1

DC_TEST_B1

DC_TEST_B2

DC_TEST_B2

DC_TEST_B2

DC_TEST_B2

DC_TEST_B3

DC_TEST_B61

DC_TEST_B61 K48 RSVD#K48 D1:VREF DQ CHB BA19. RSVD#BA19
AJ19. RSVD#A171
BB21. RSVD#A171
BB21. RSVD#A171
BB19. RSVD#BB21
BB19. RSVD#BB21
AJ21. RSVD#BB21
AJ21. RSVD#BB21
AJ21. RSVD#BB21
AJ22. RSVD#A172
AJ22. RSVD#A172
AJ22. RSVD#A172
AJ21. RSVD#A172
AJ21. RSVD#A172
BD21. RSVD#A172
BD21. RSVD#A172
BD21. RSVD#A172
BD21. RSVD#A172
BD21. RSVD#A172
BD21. RSVD#A172
BD22. RSVD#BD22
BC22. RSVD#BD22
BC22. RSVD#BD22
BC22. RSVD#BD22
BC26. RSVD#BD22
BC26. RSVD#BD22
BC26. RSVD#BC26
BC26. RSVD#BC26 RN701 SRN1KJ-7-GP RSVD#BG26 RSVD#BE26 BF23 BE24 RSVD#BF23 RSVD#BE24 (P SANDYBRIDGE-1-GP-U-NF

PEG Static Lane Reversal

1: Normal Operation; Lane #
definition matches socket pin map definition

Display Port Presence Strap

CFG4

1: Disabled; No Physical Display Port attached to Embedded Display Port

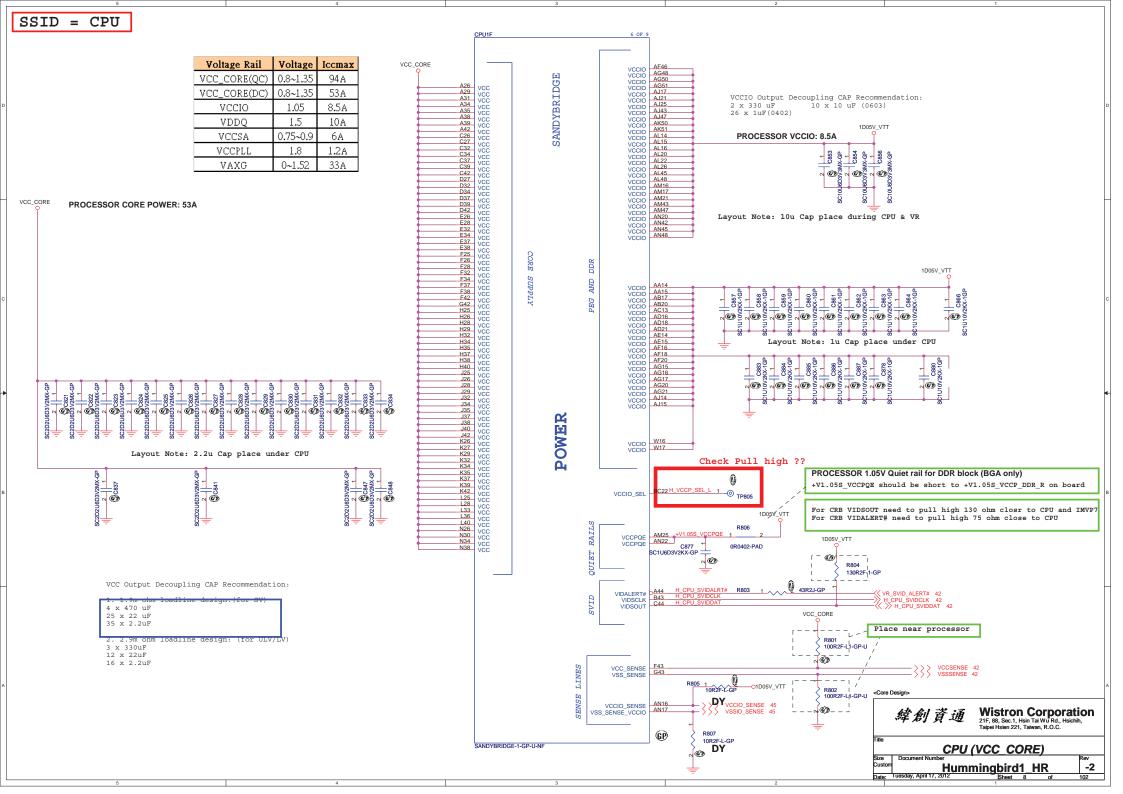
0: Enabled; An external Display Port device is connected to the Embedded Display Port

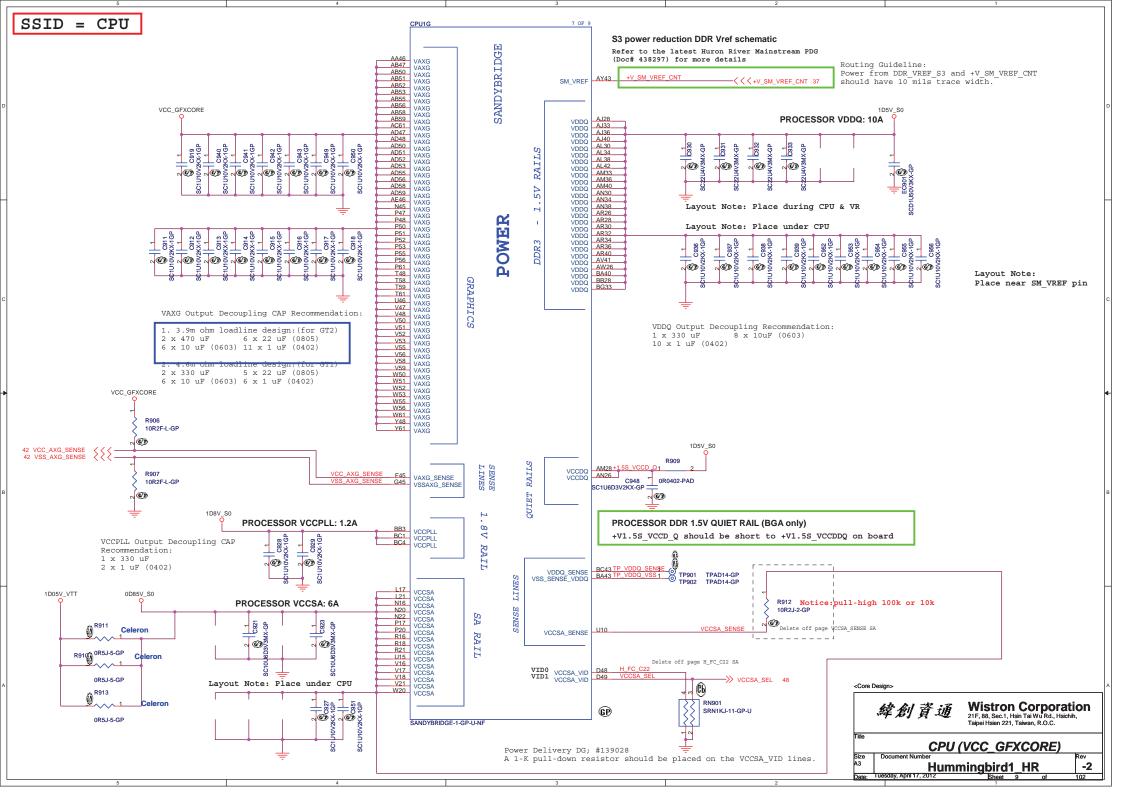
PCIE Port Bifurcation Straps

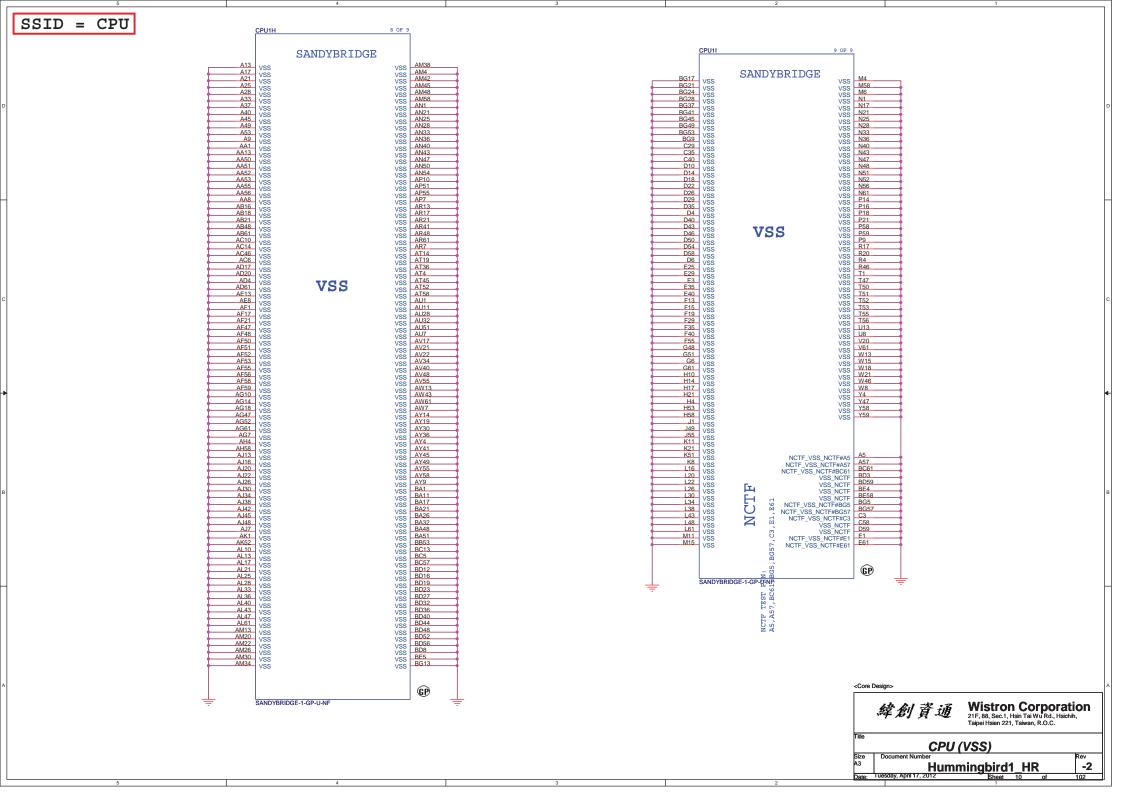
CFG[6:5] 11: x16 - Device 1 functions 1 and 2 disabled
10: x8, x8 - Device 1 function 1 enabled; function 2 disabled
01: Reserved - (Device 1 function 1 disabled; function 2 enabled)
00: x8, x4, x4 - Device 1 functions 1 and 2 enabled

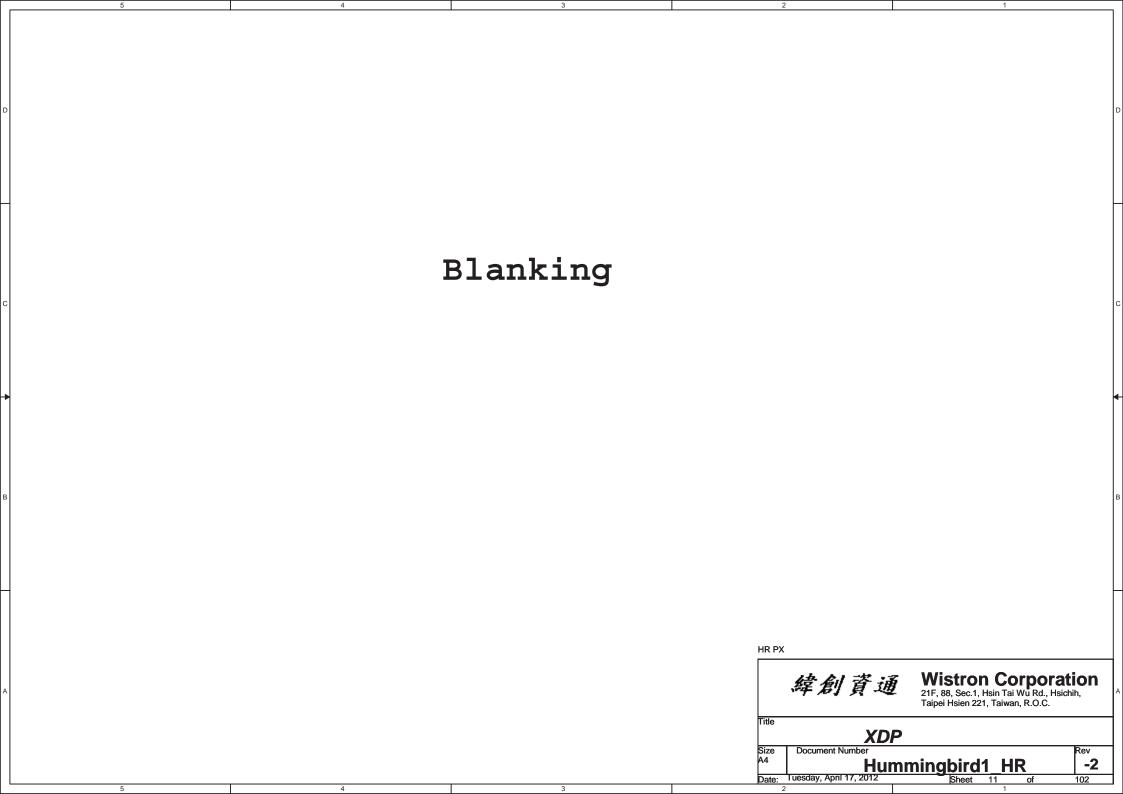
PEG DEFER TRAINING

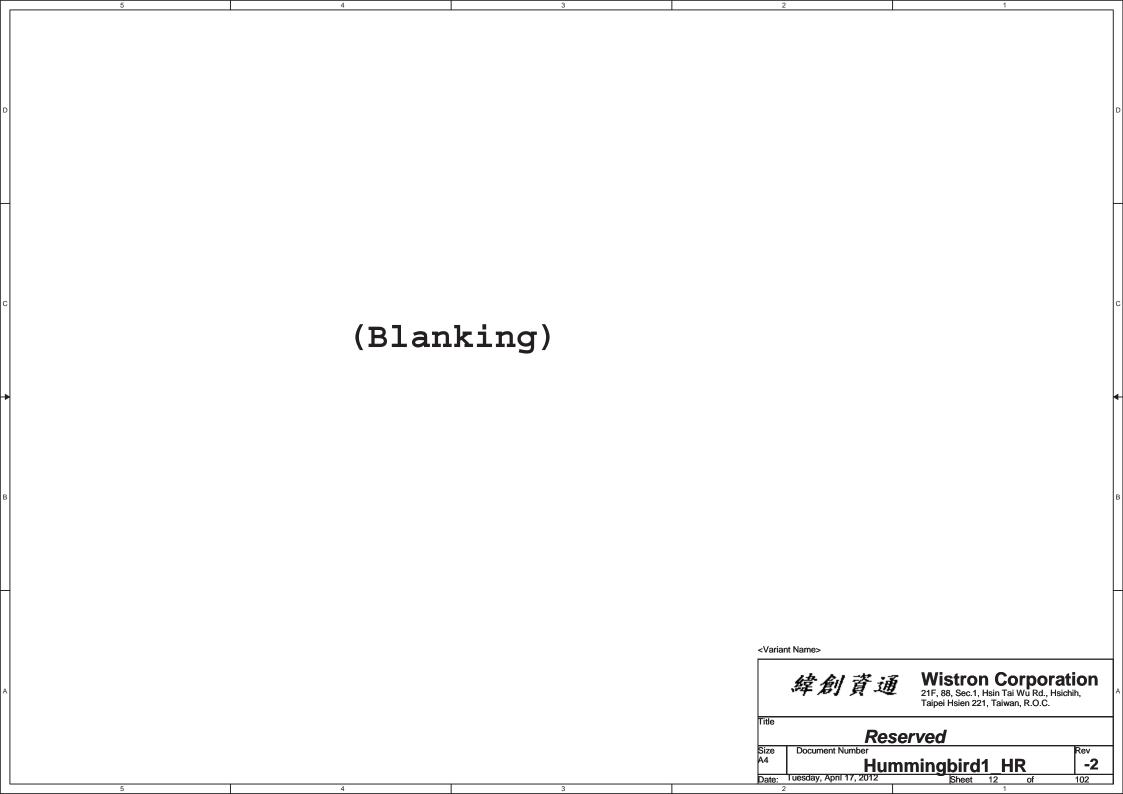
1: PEG Train immediately following xxRESETB de assertion
0: PEG Wait for BIOS for training

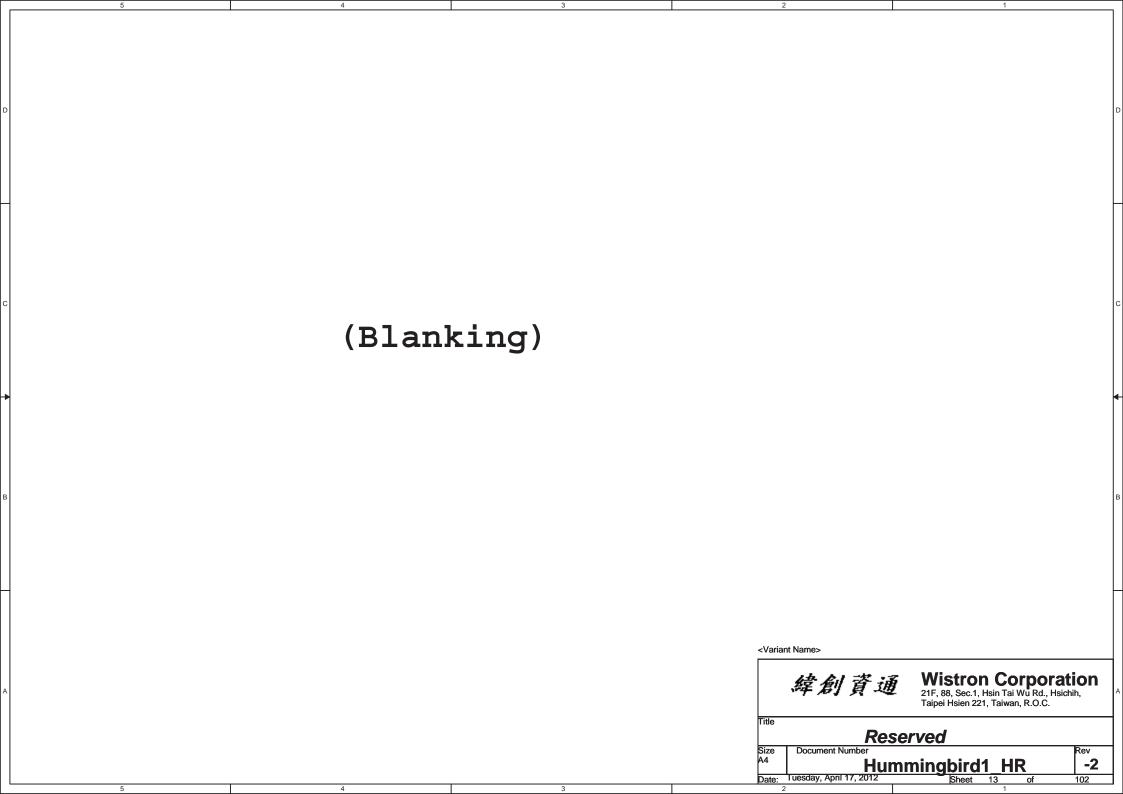


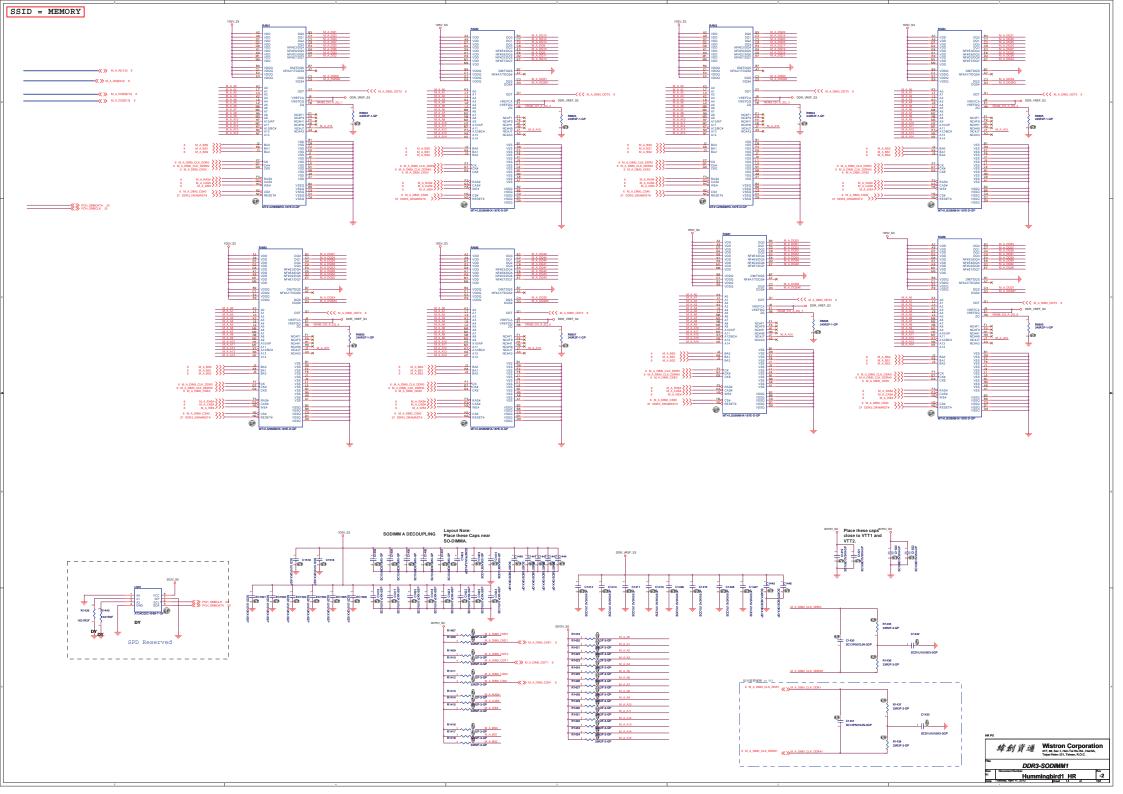


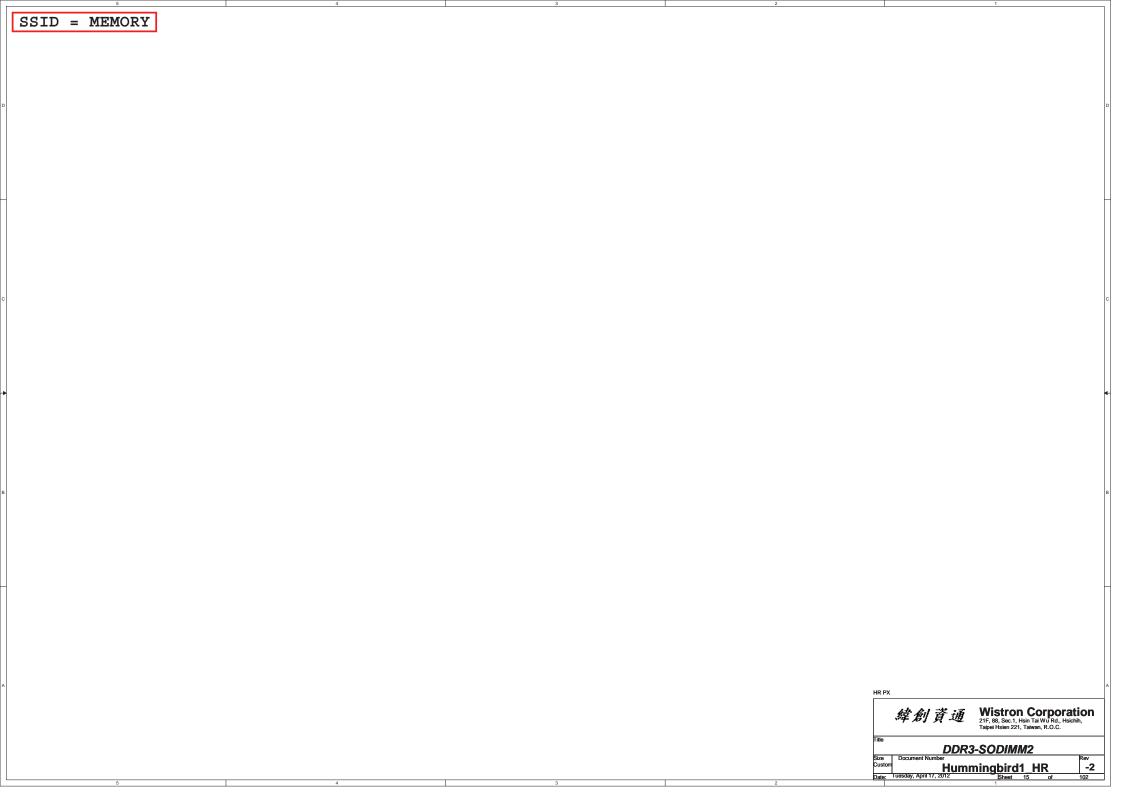


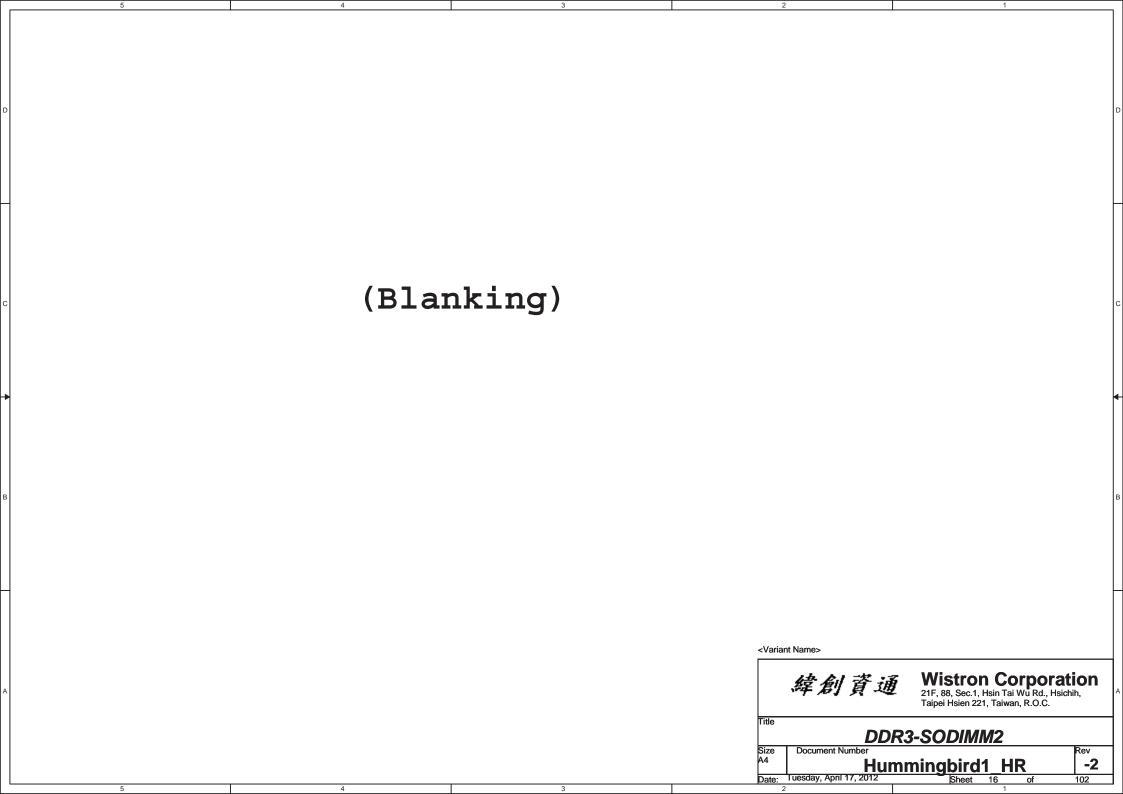


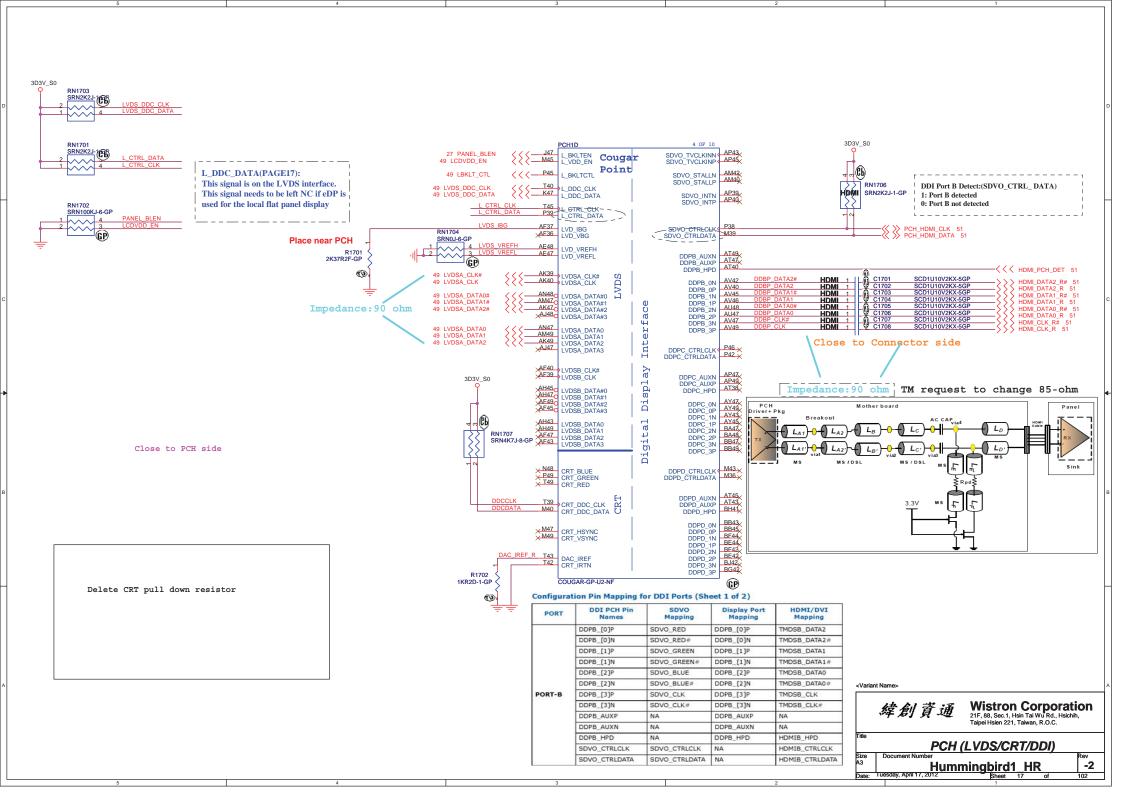


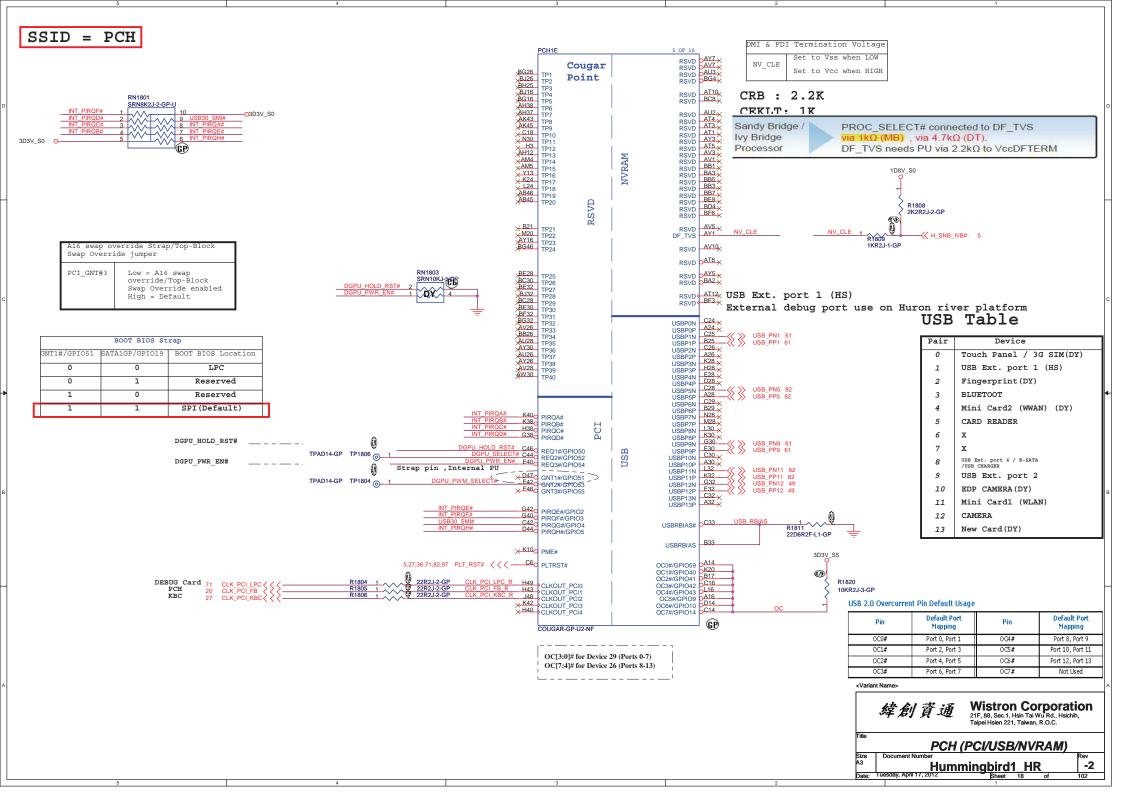


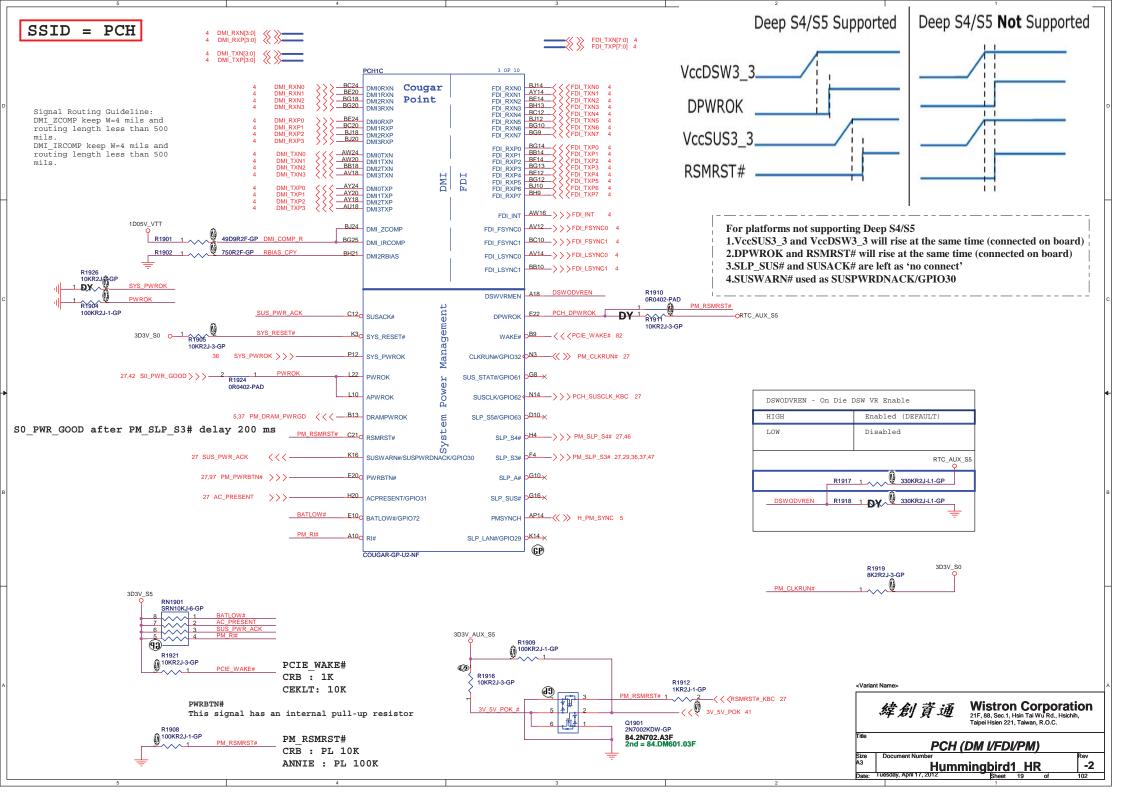


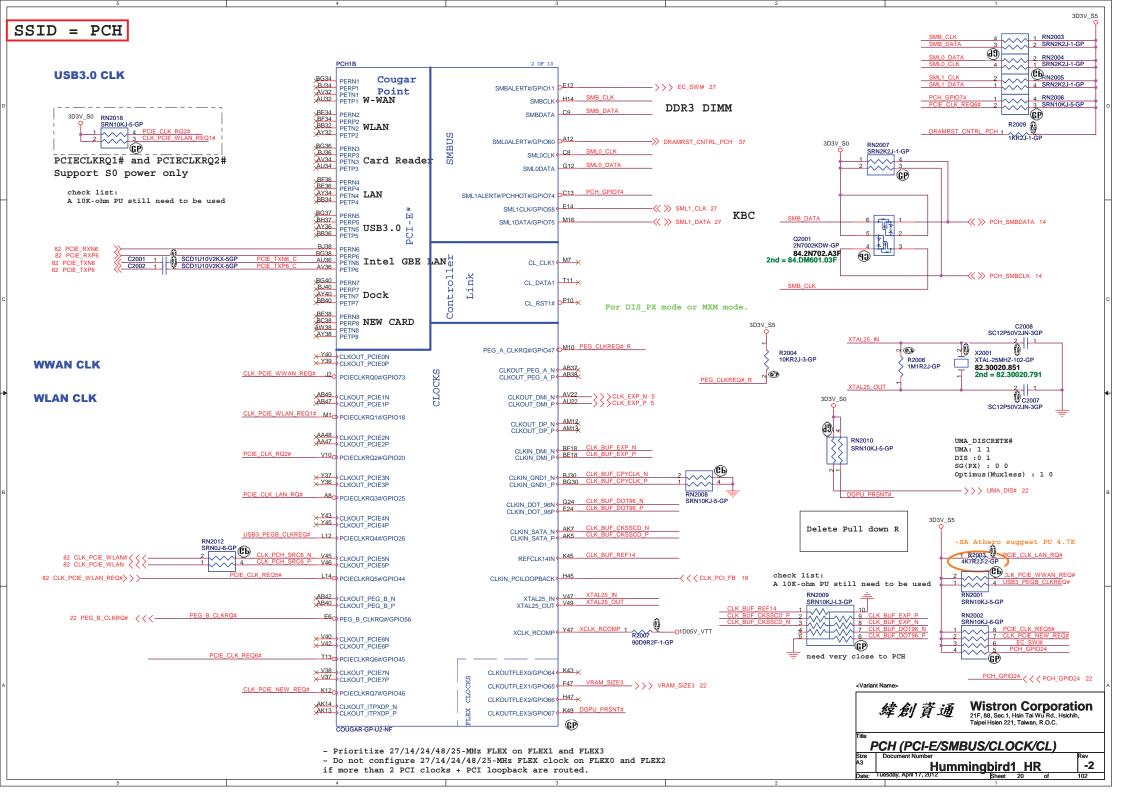


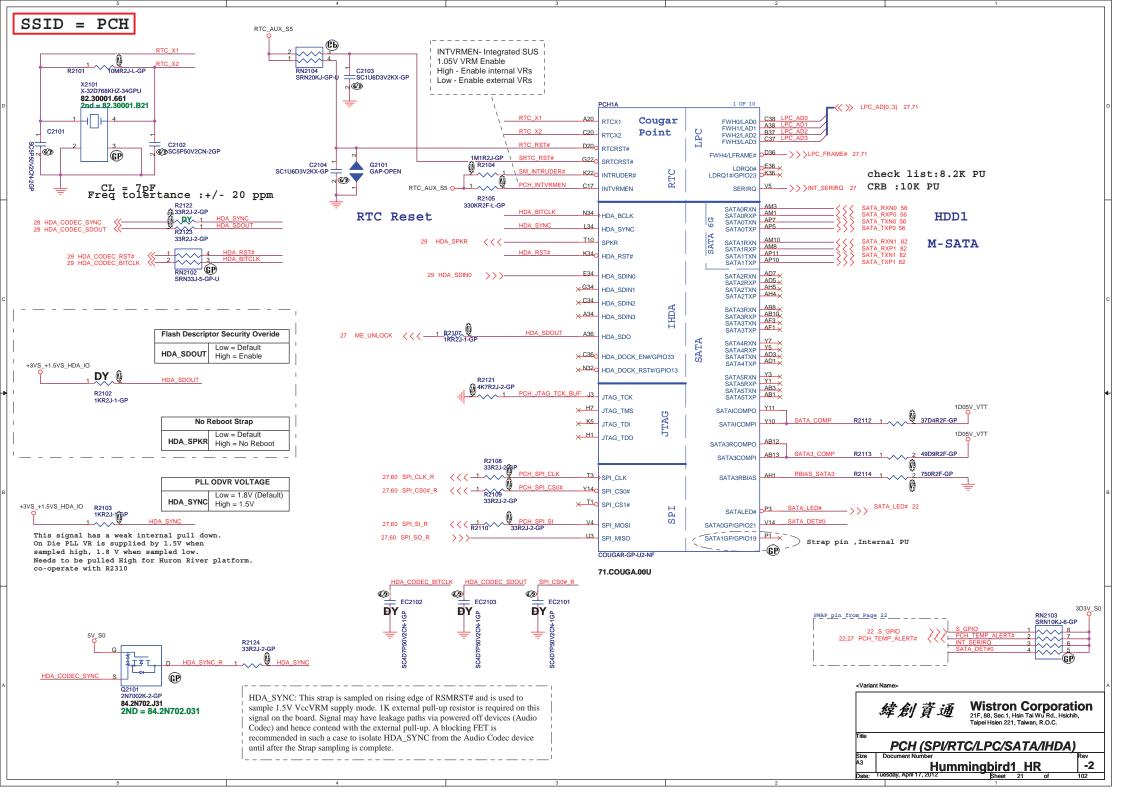


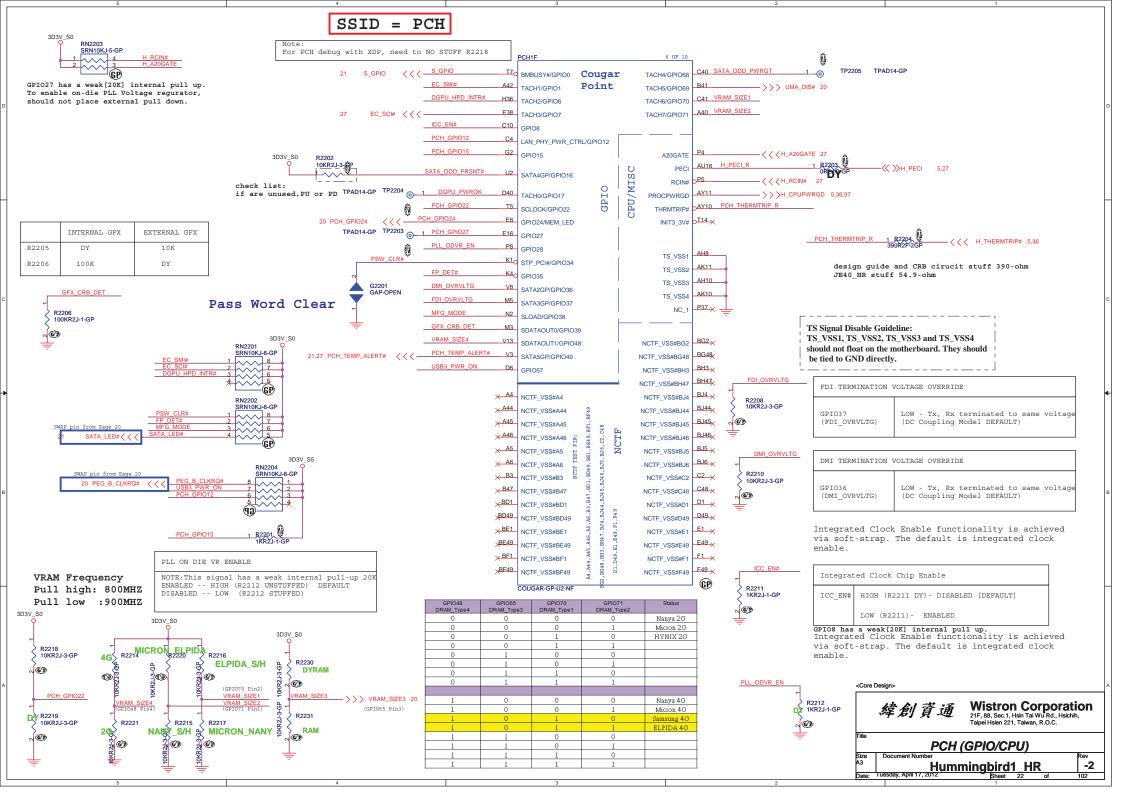


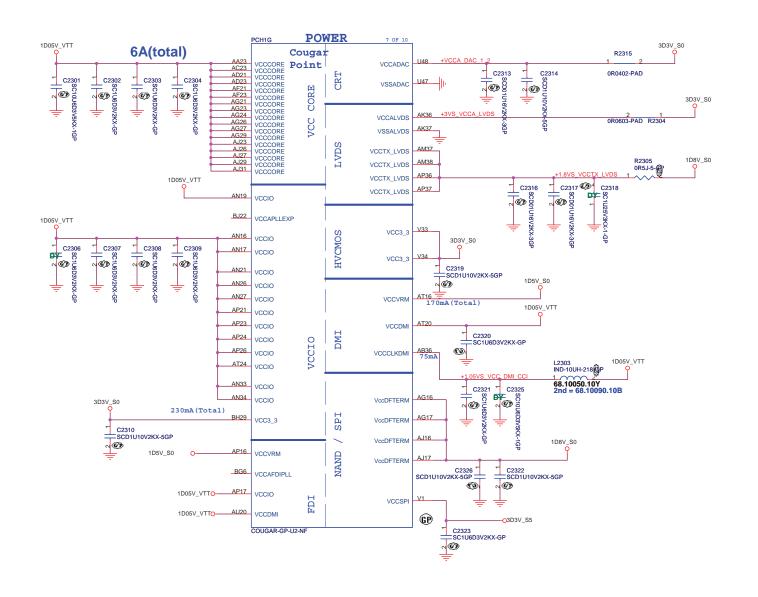




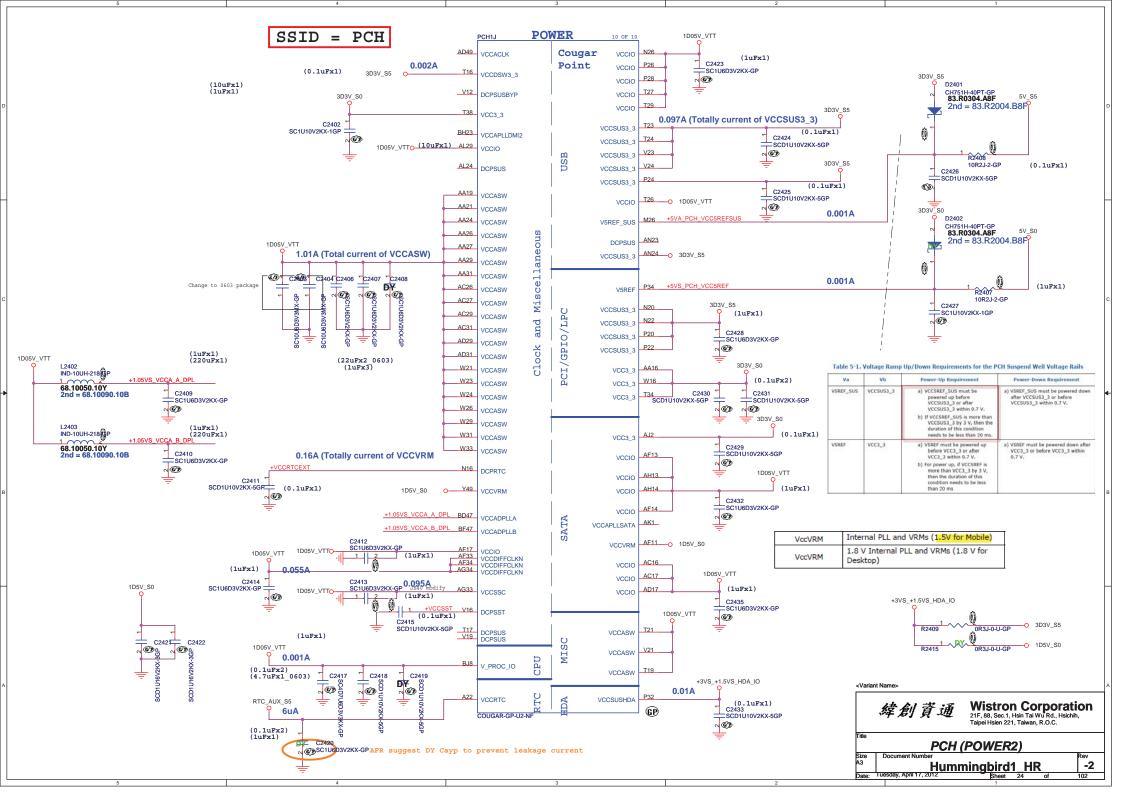




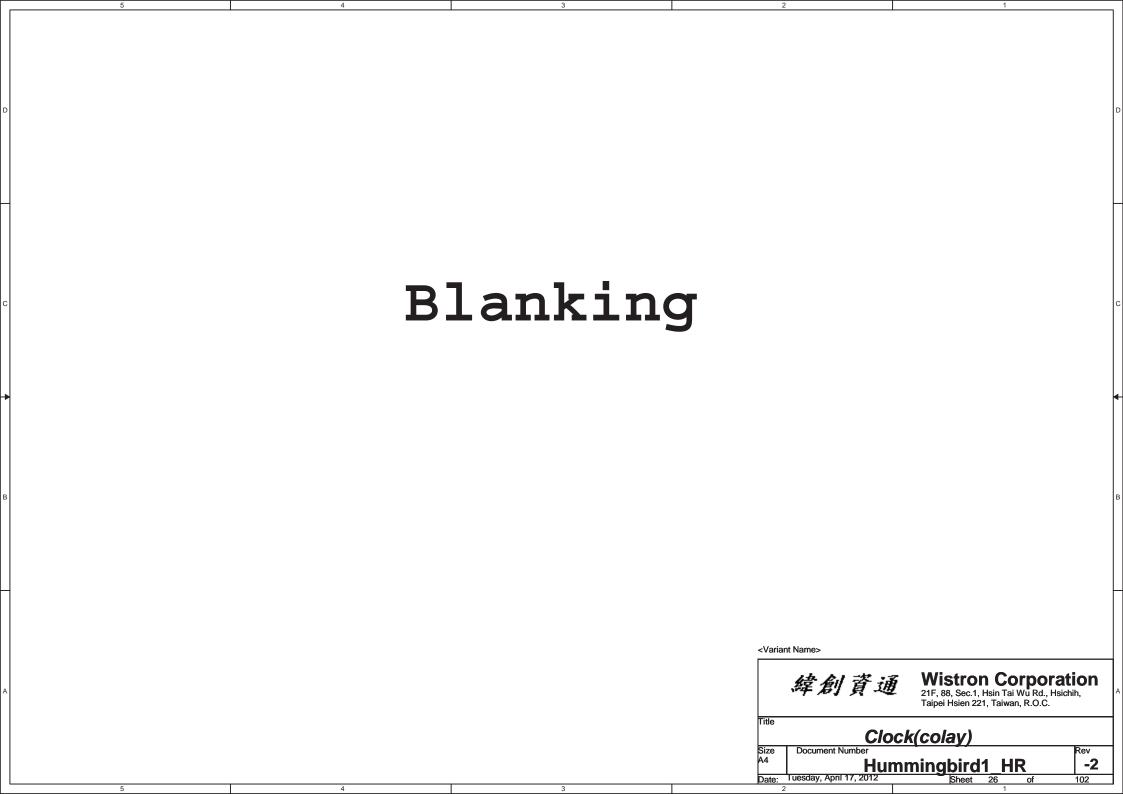


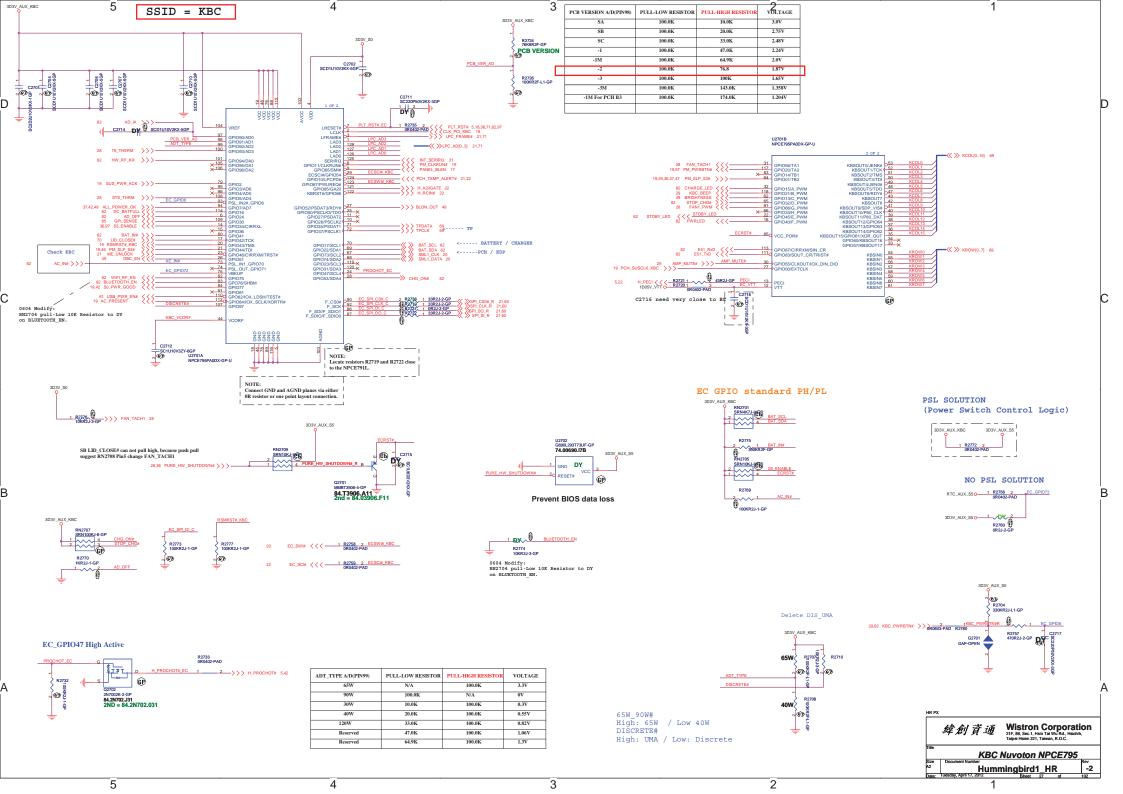


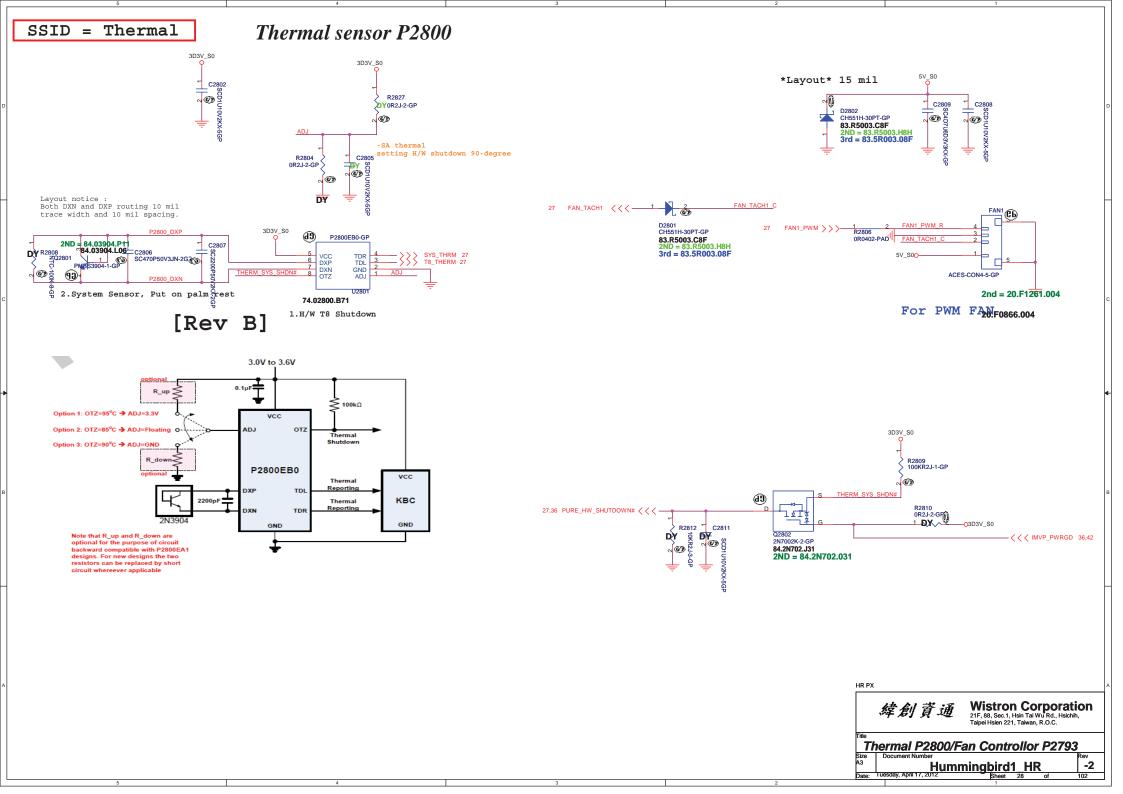


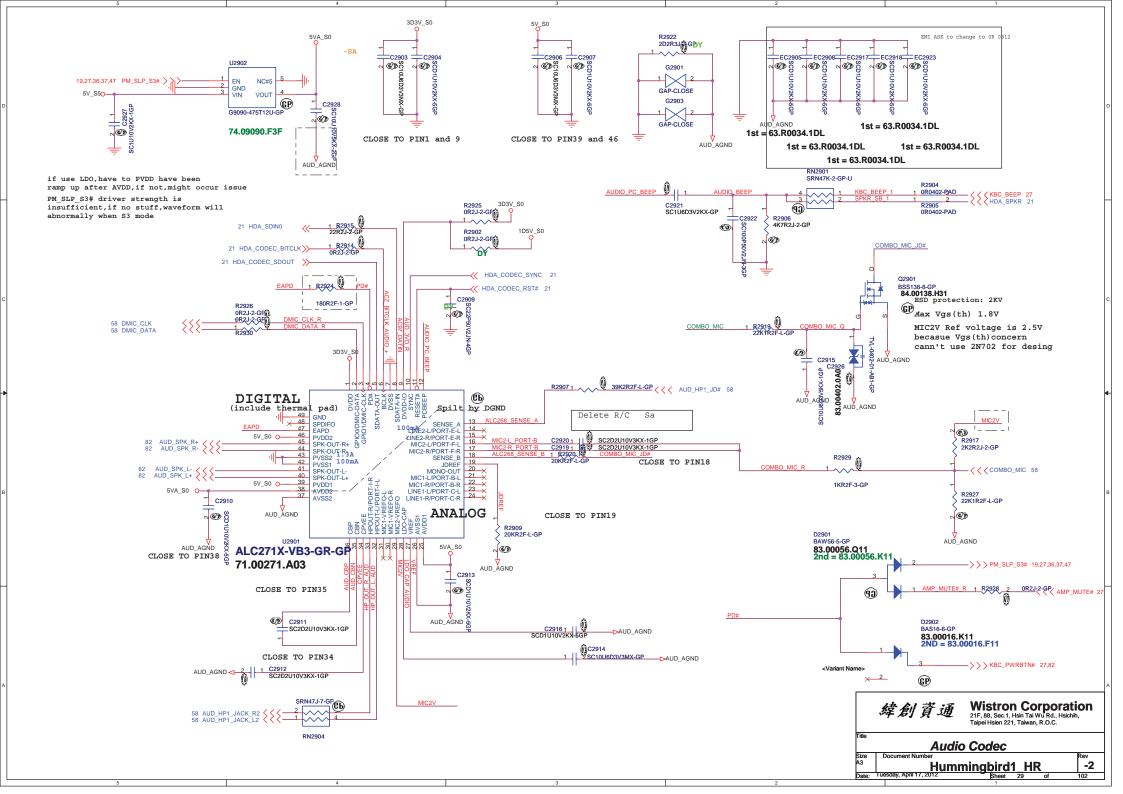








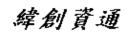




AUDIO OP AMPLIFIER

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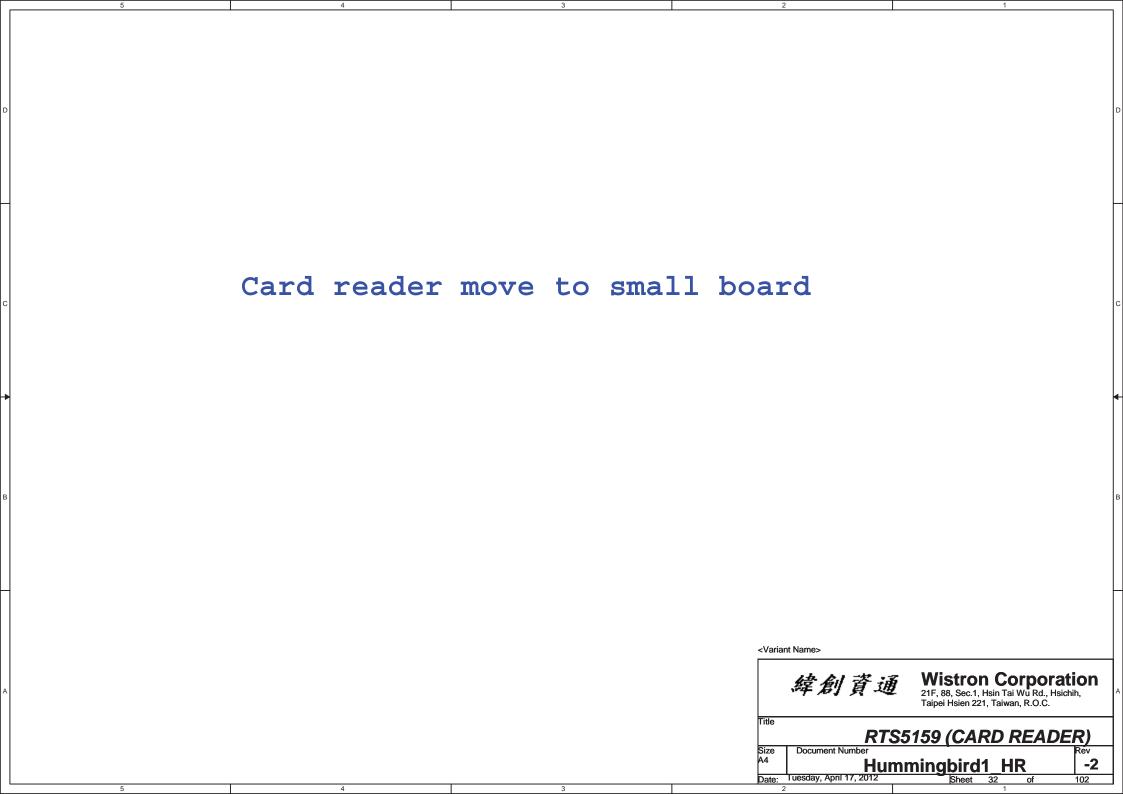
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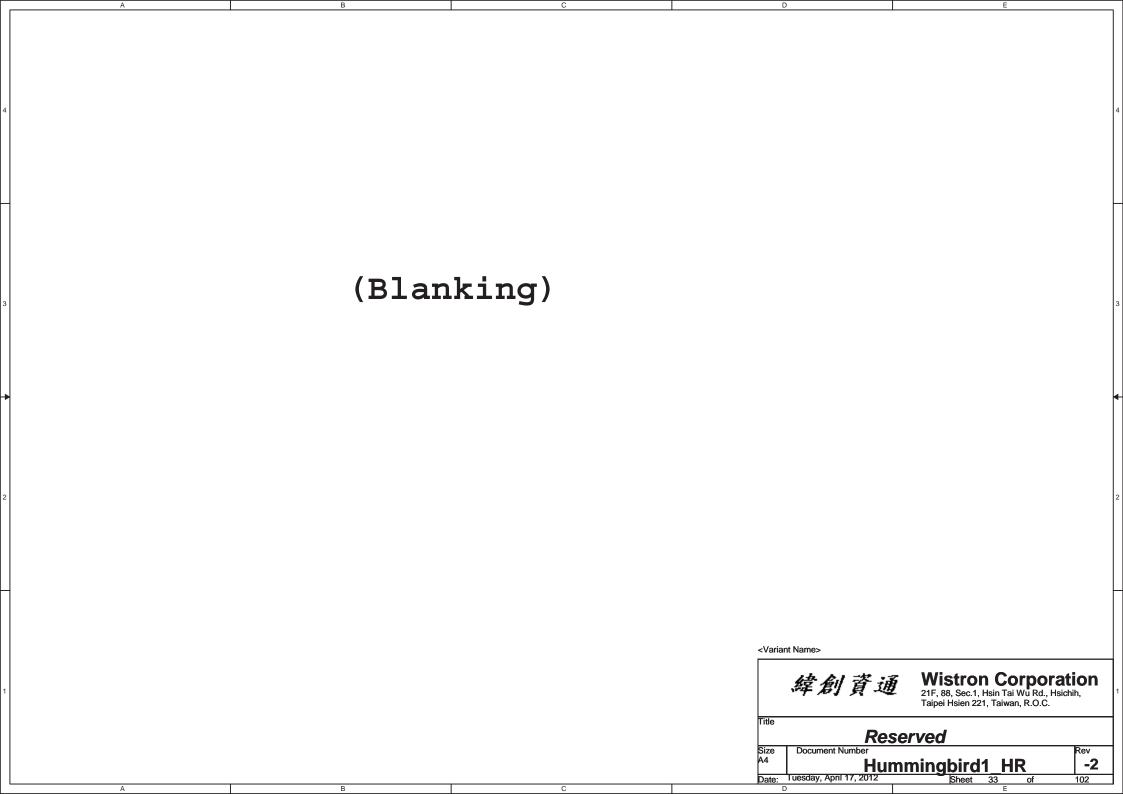
Document Number **Hummingbird1 HR** Tuesday, April 17, 2012

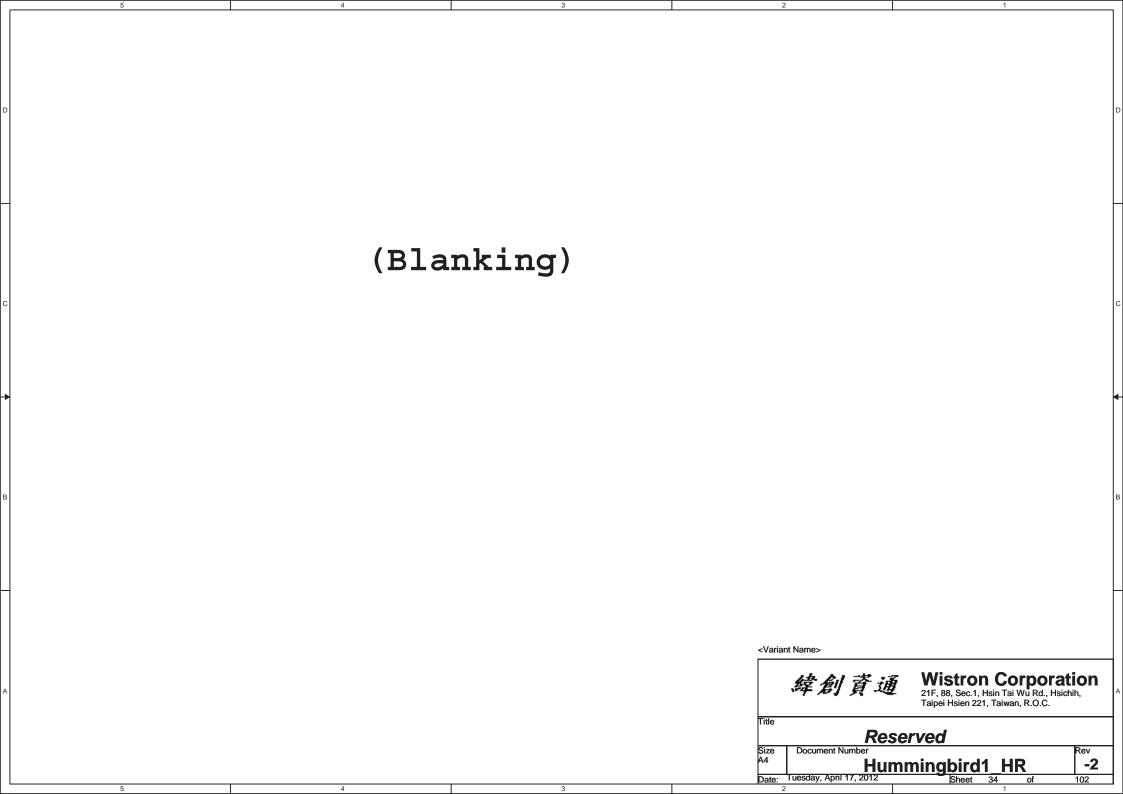
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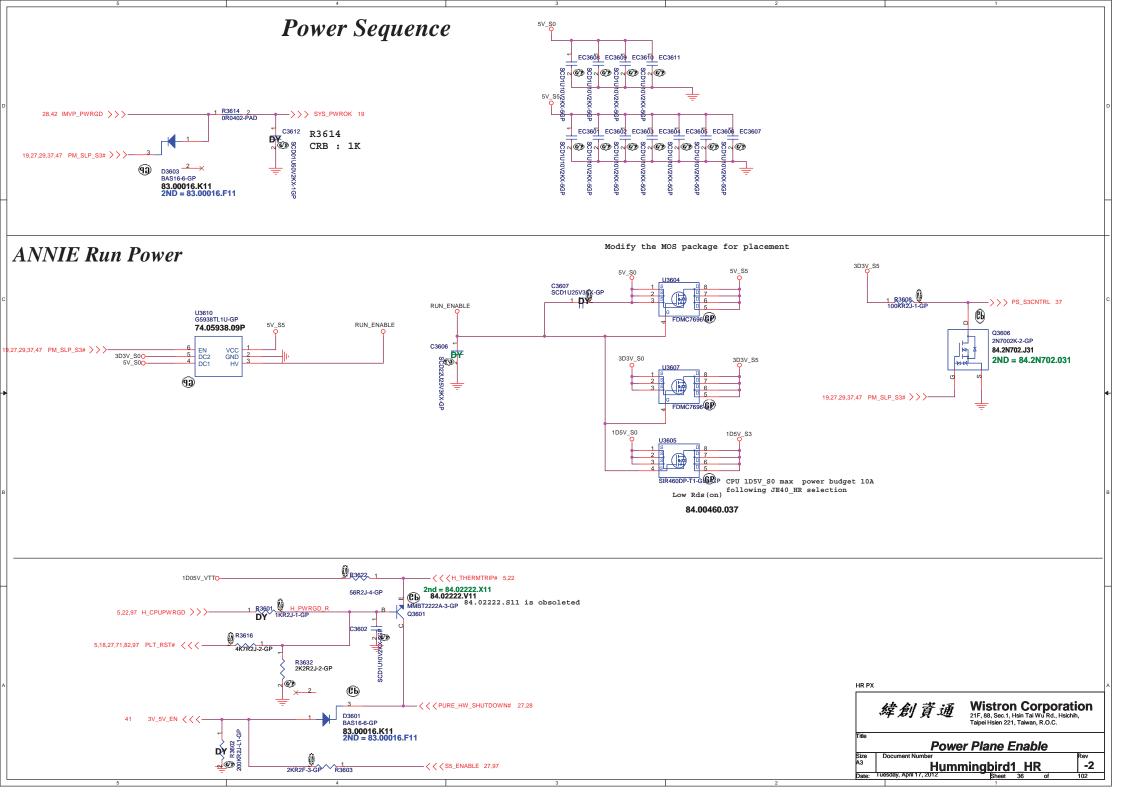
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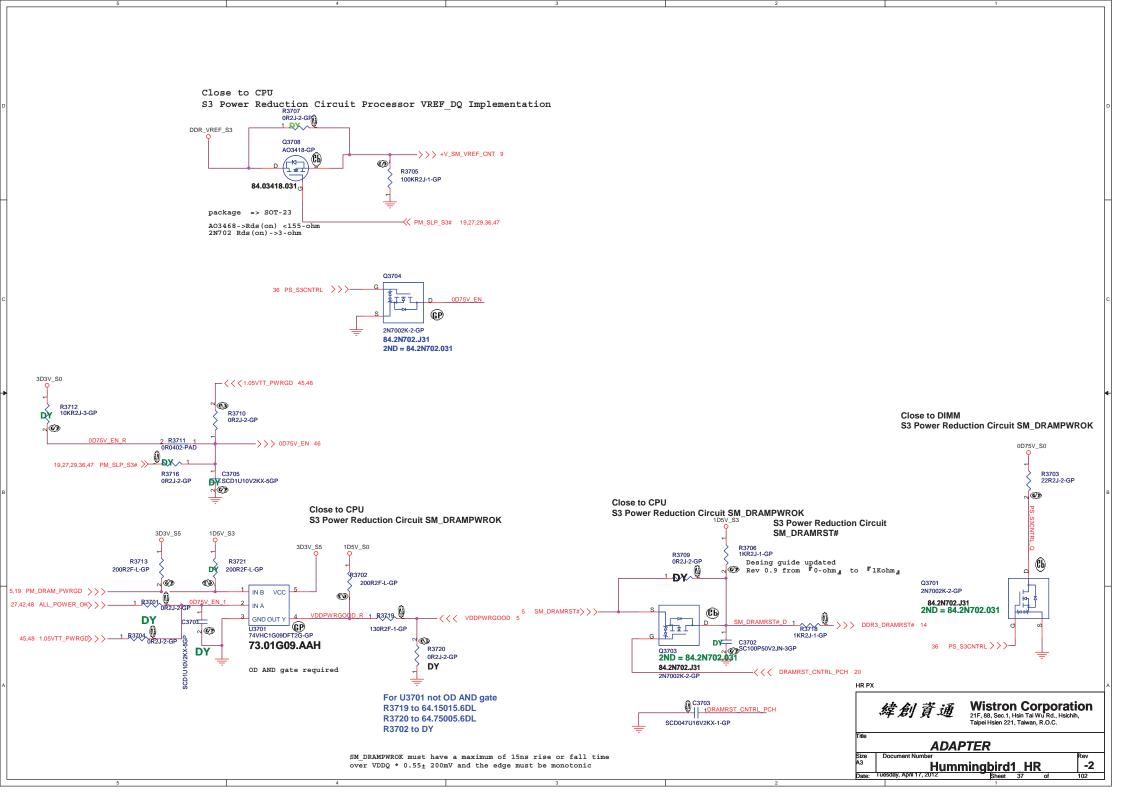
Wistron Corporation
21F, 88, Sec. 1, Hsin Tai Wü Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

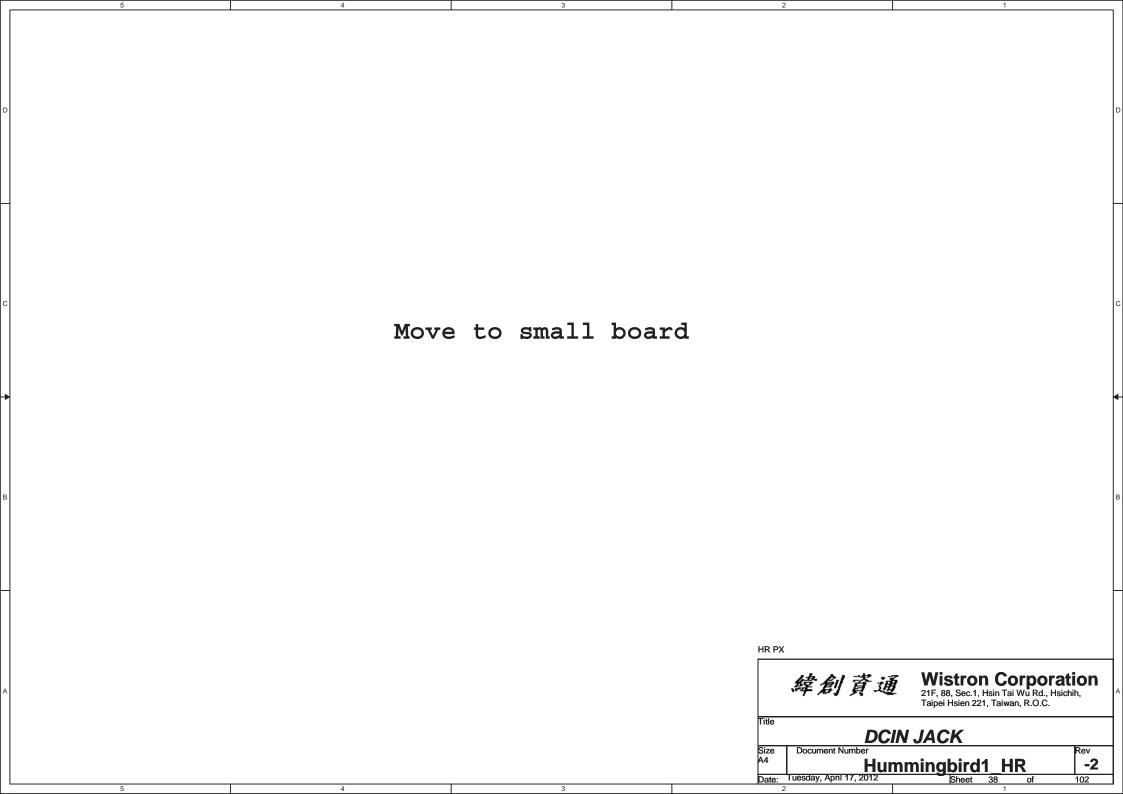
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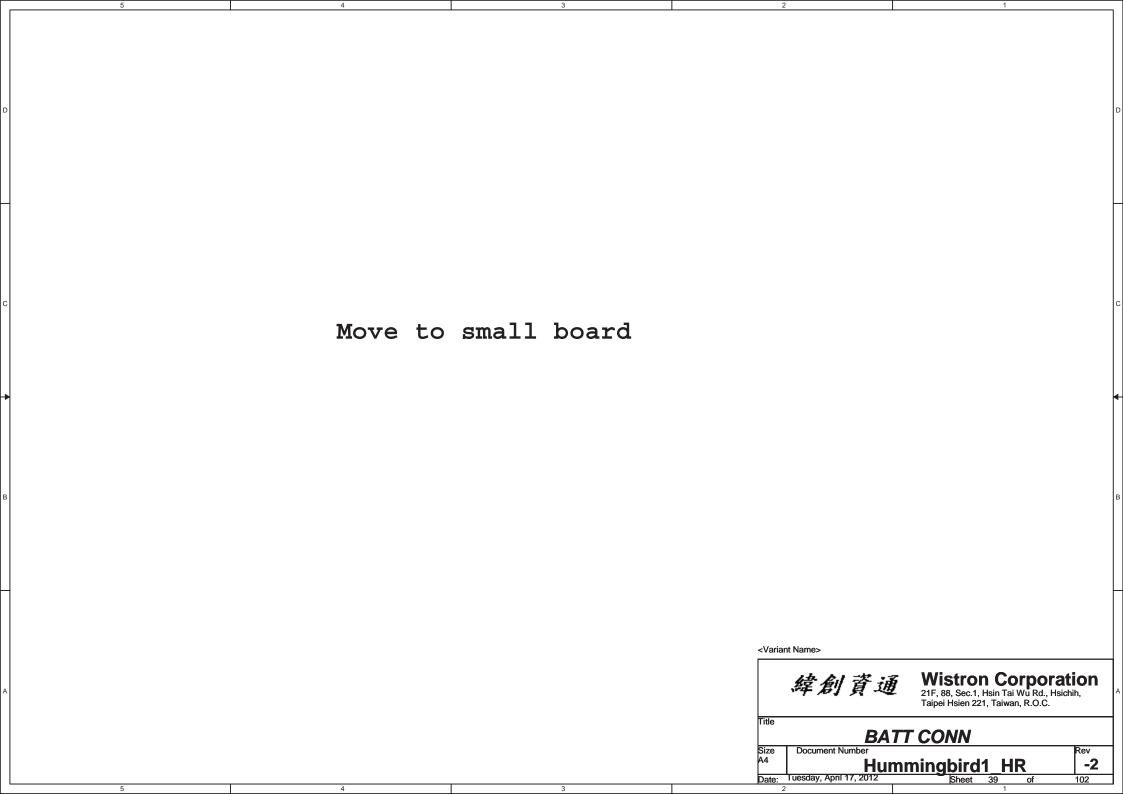
USB 3.0 Controller

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Date: Tuesday, April 17, 2012 Sheet 35 of 102

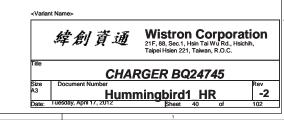


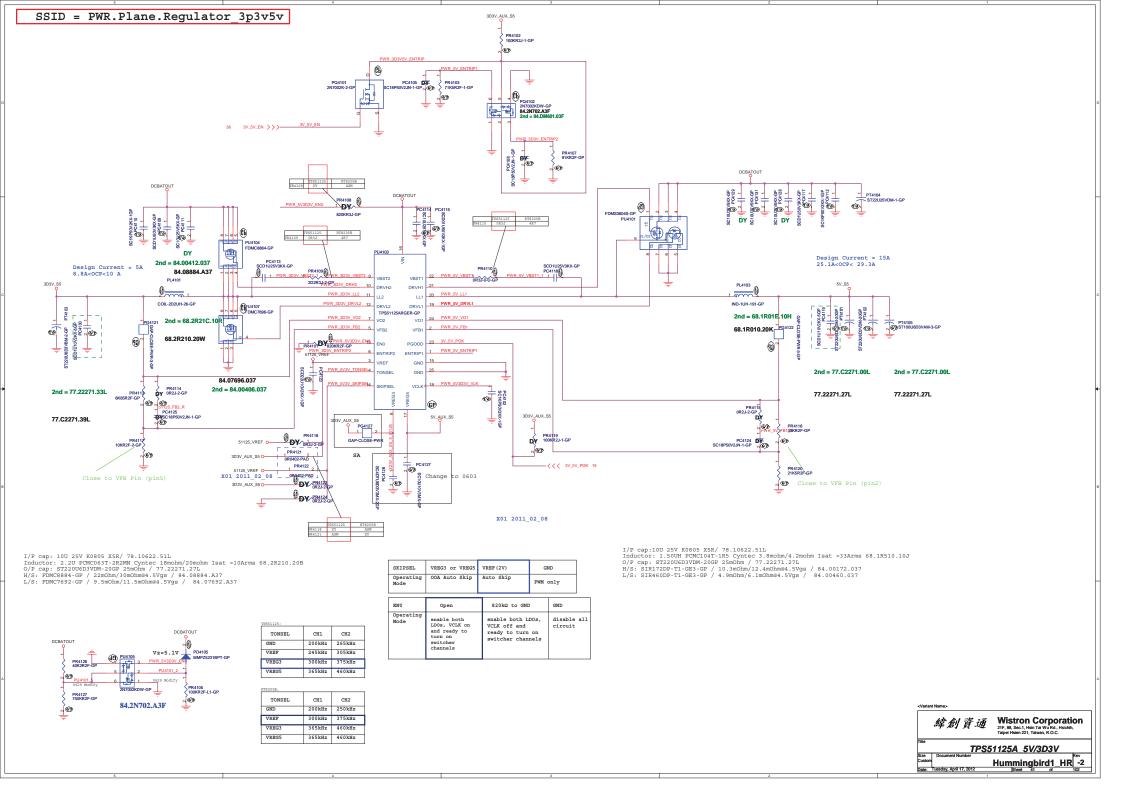


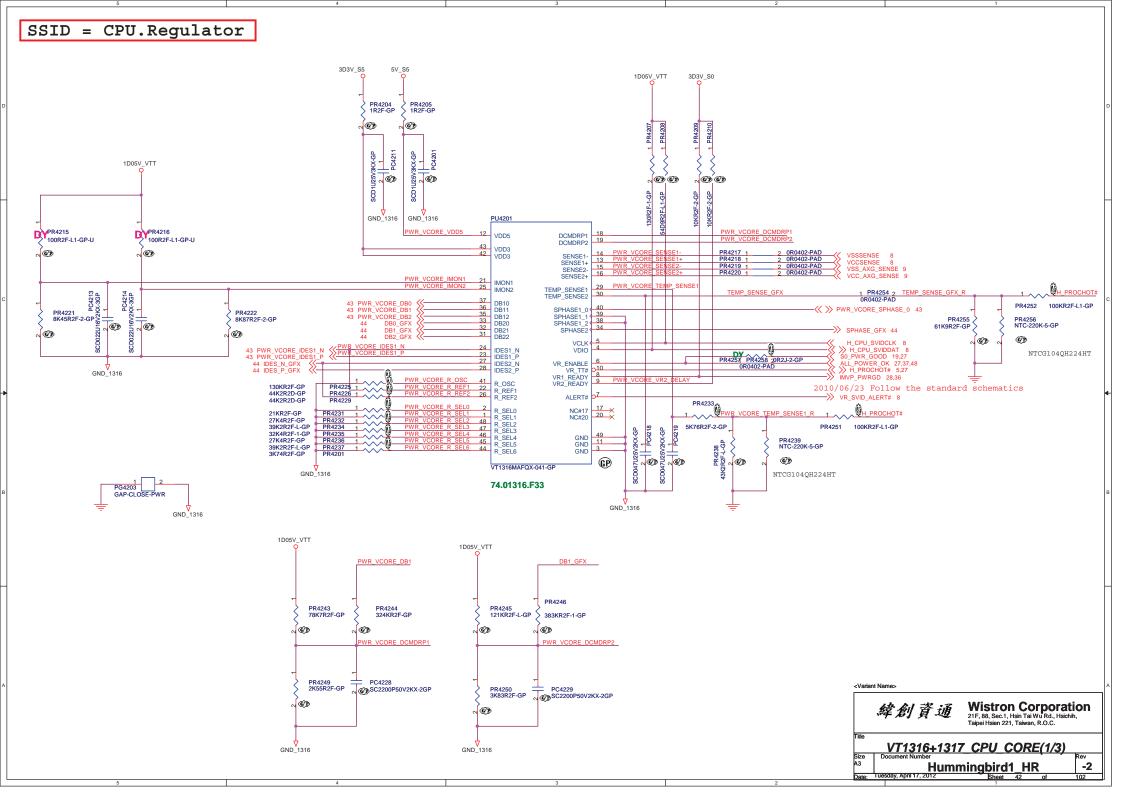


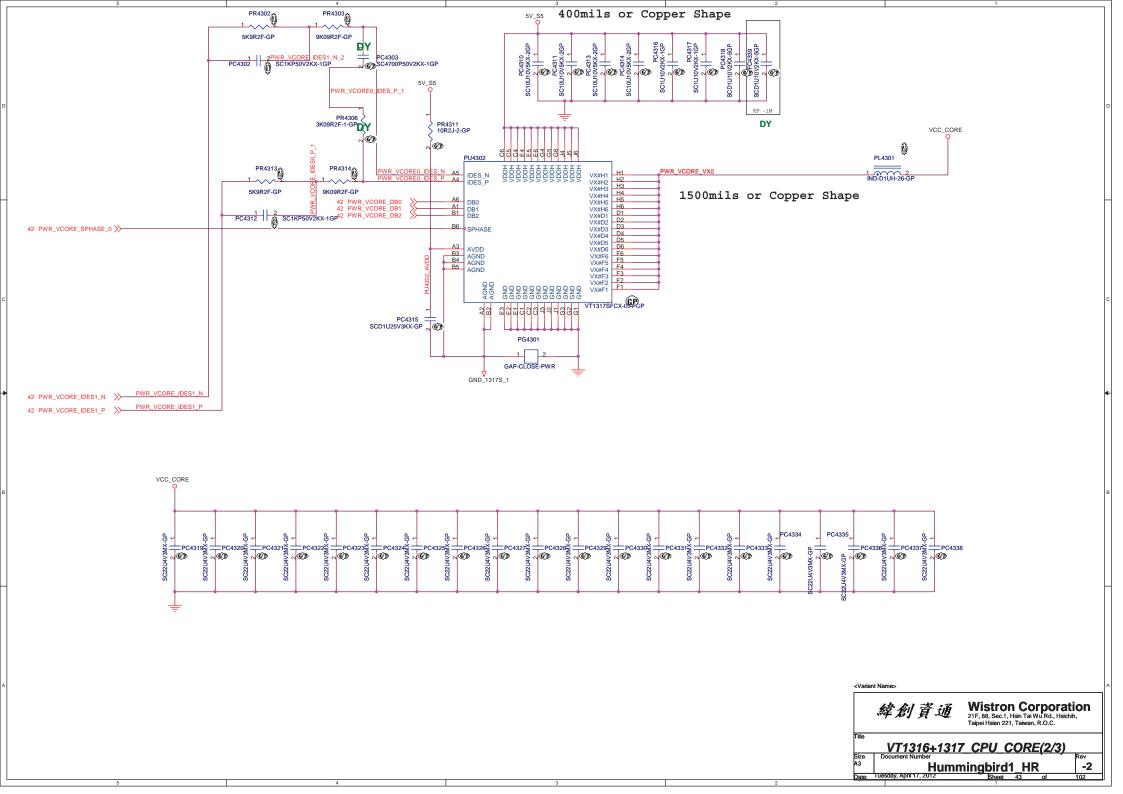


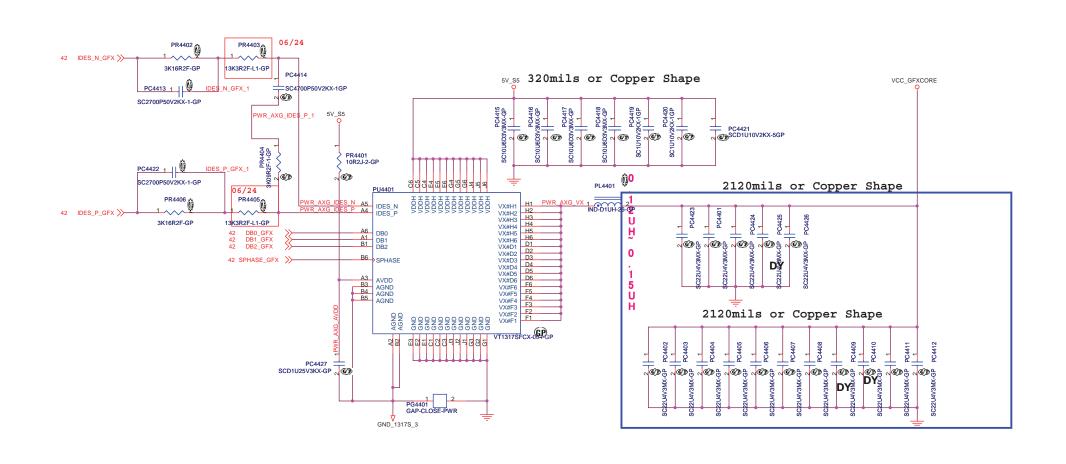
Move to small board



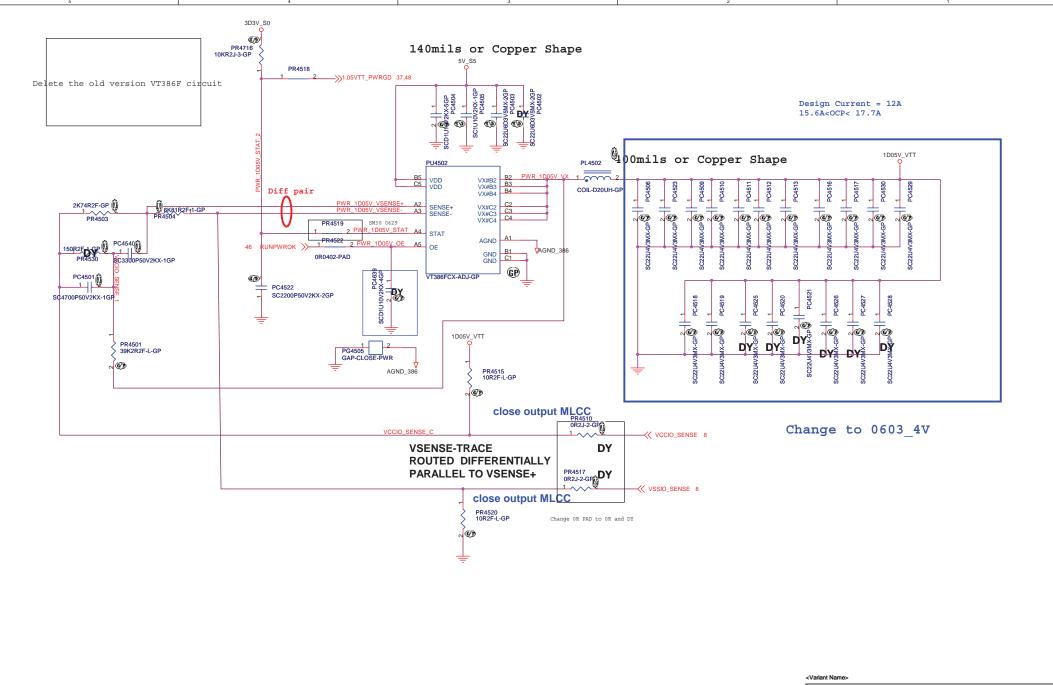




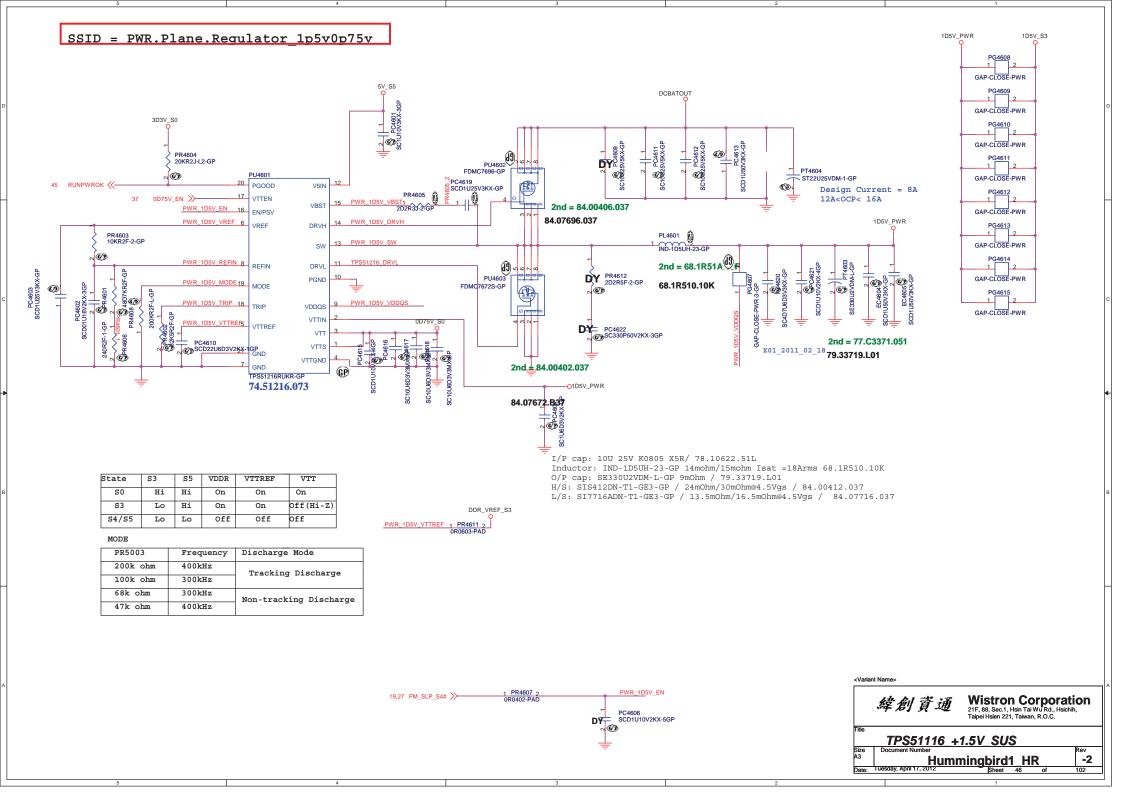


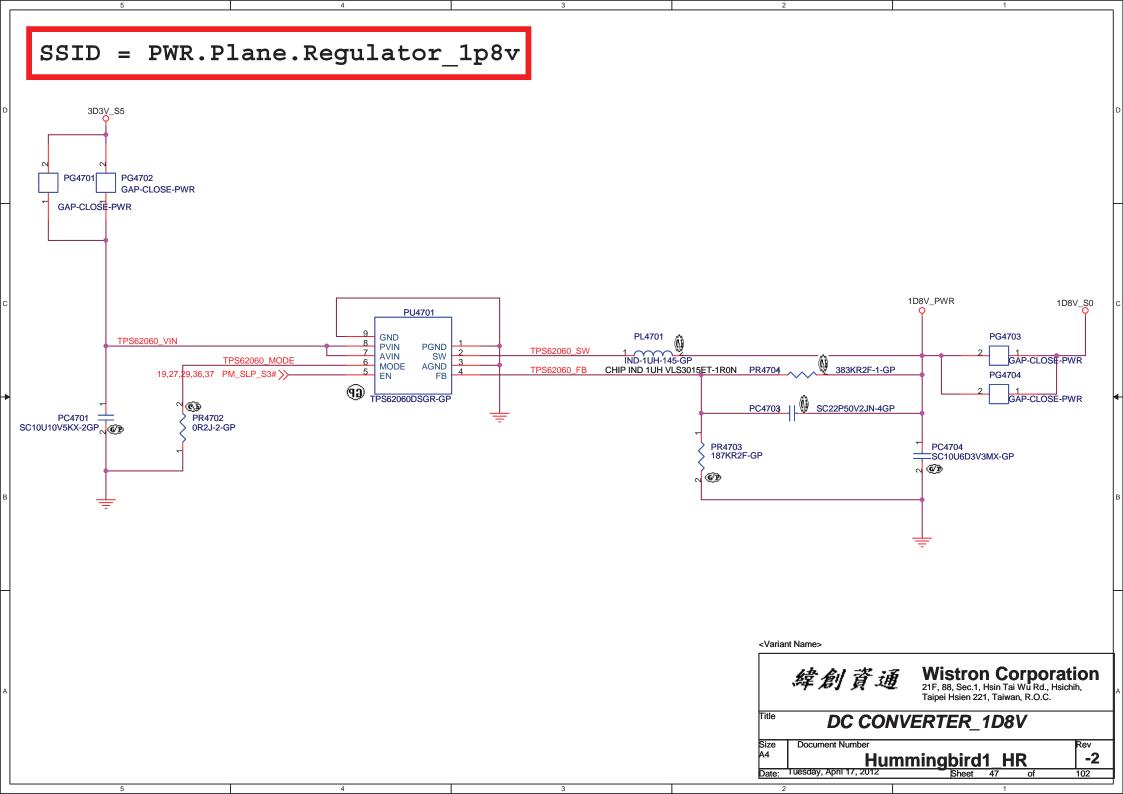


Change to 0603_4V

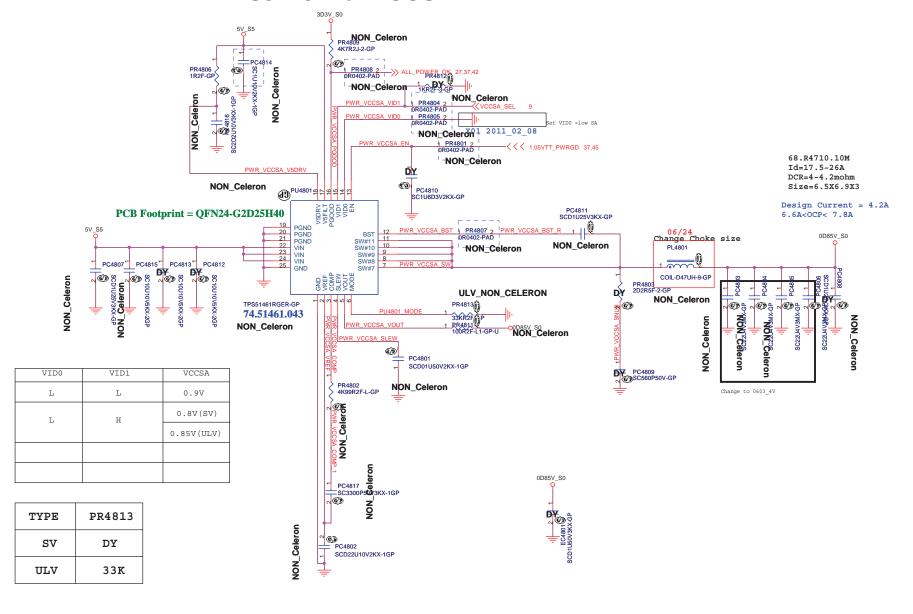








TPS51461 for VCCSA

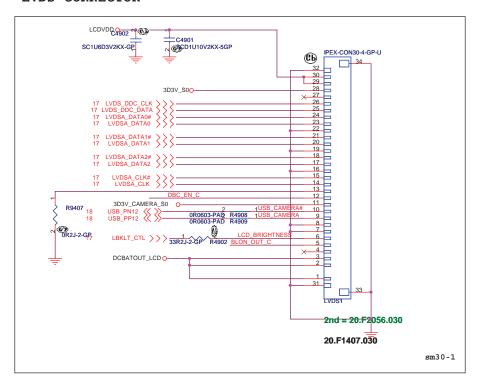


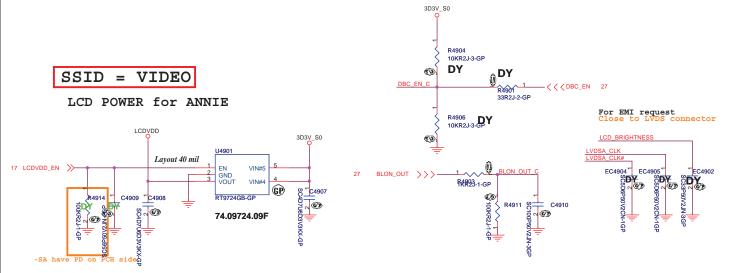


SSID = VIDEO

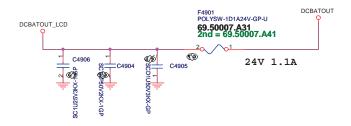
Reverse the pin define becasue of cable issue

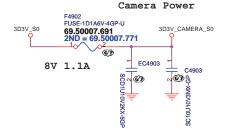
LVDS CONNECTOR





INVERTER POWER

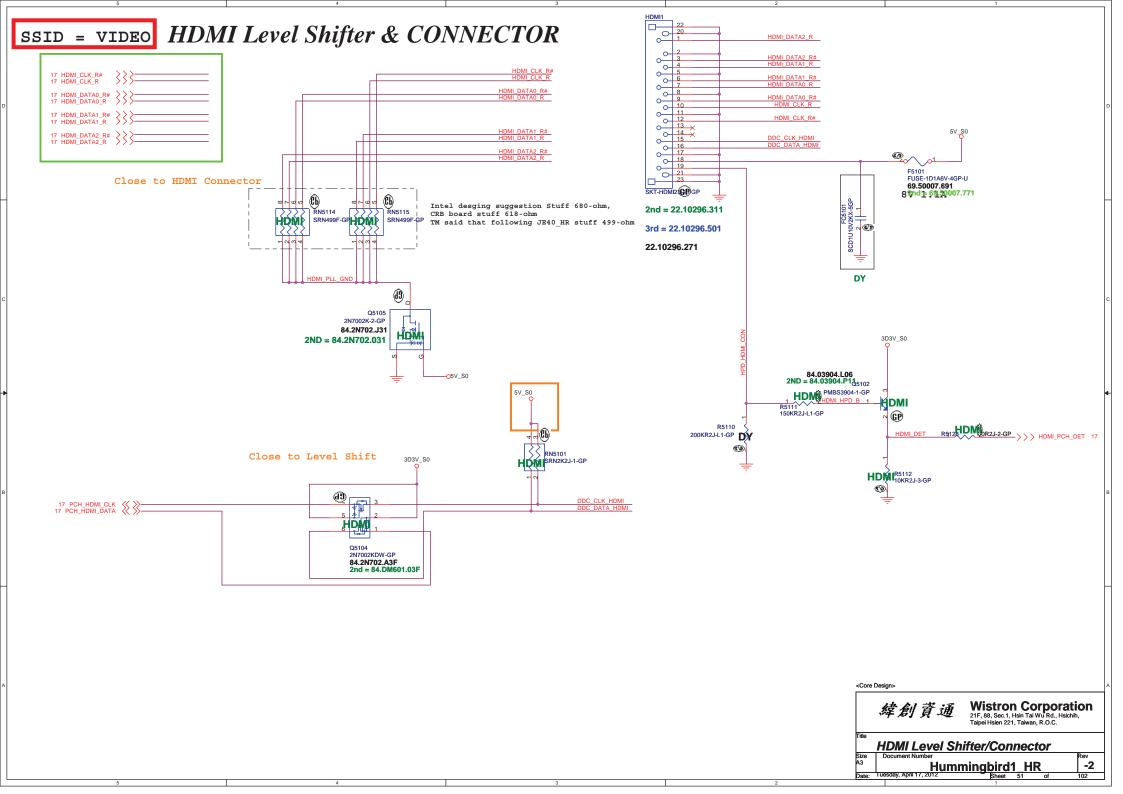




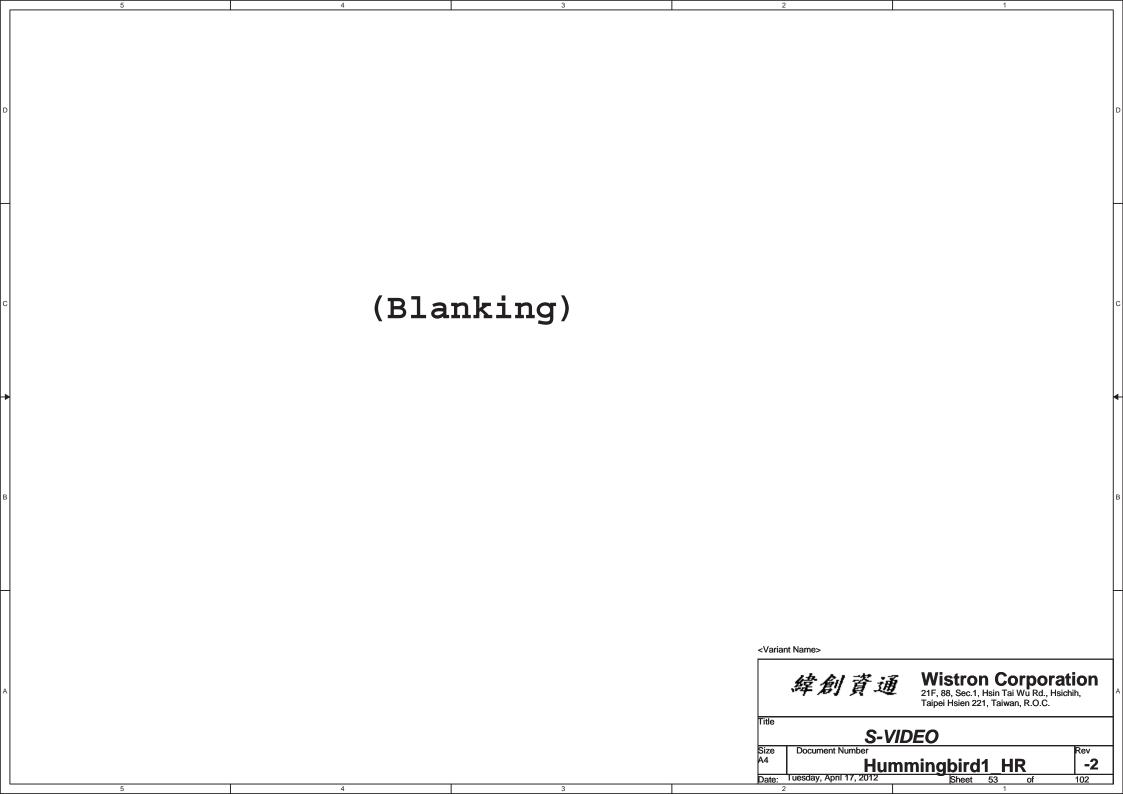


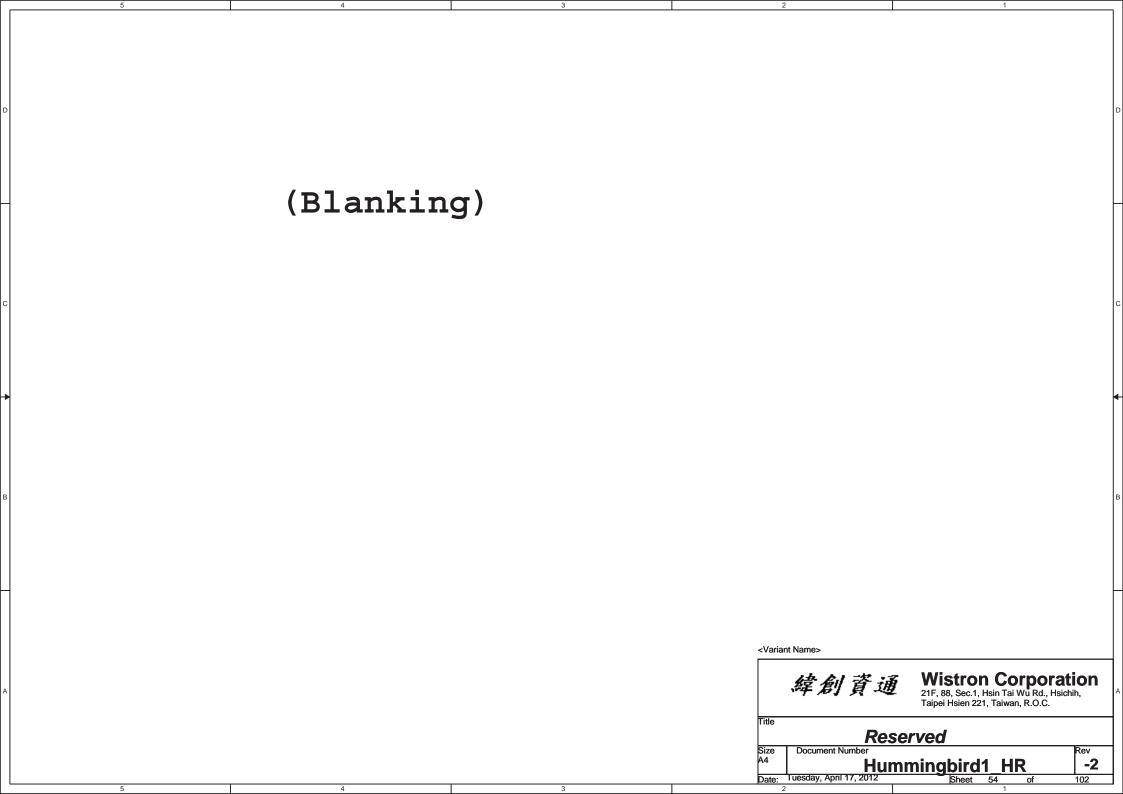








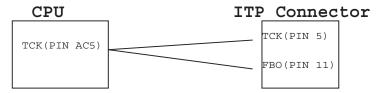




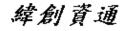
SSID = User.Interface

ITP Connector

H CPURST# use pull-up Resistor close ITP connector 500 mil (max), others place near CPU side.

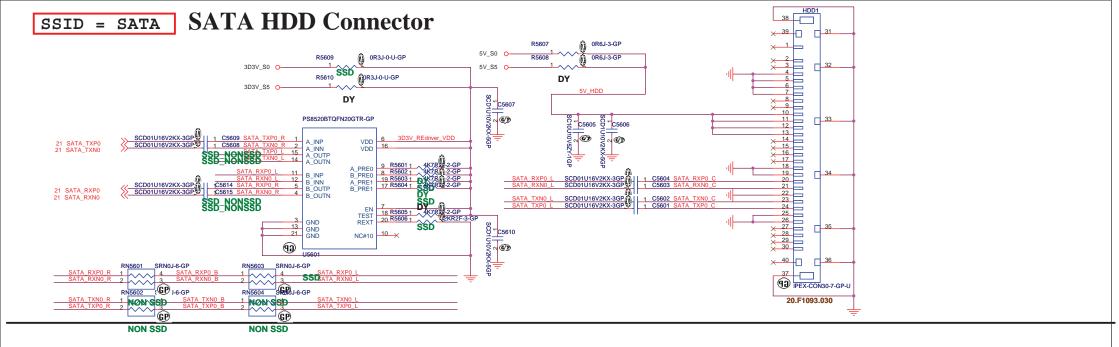


<Variant Name>



Wistron Corporation 21F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichih, Talpei Hsien 221, Taiwan, R.O.C.

ITP Document Number Rev Hummingbird1 HR
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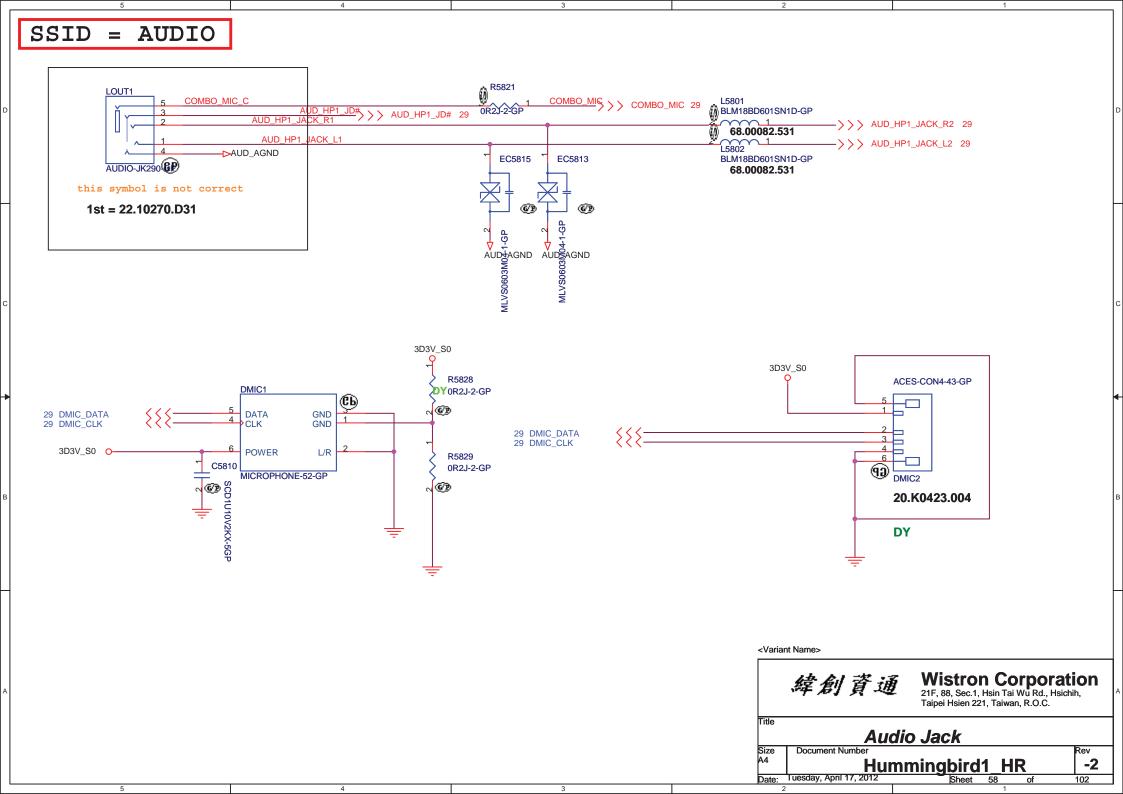


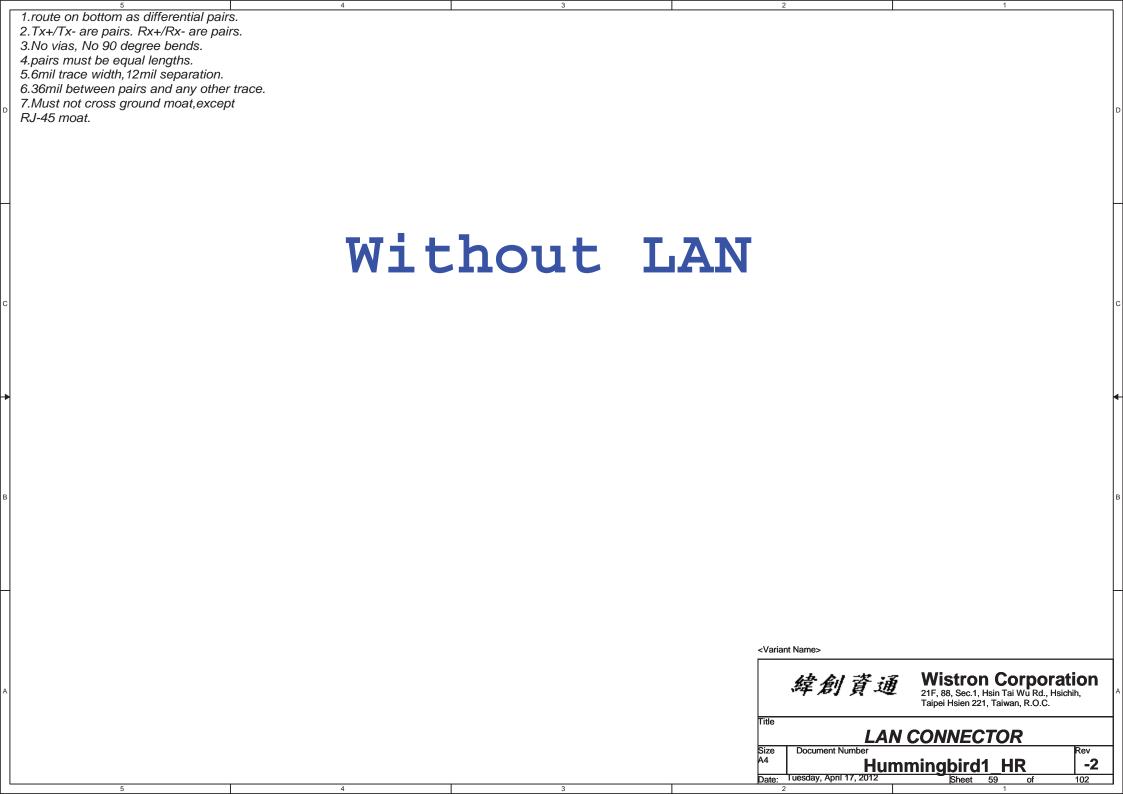
ODD Connector

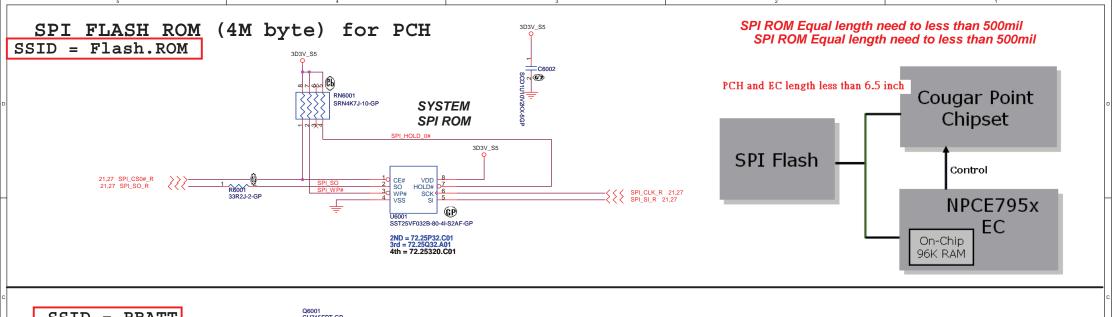
Without ODD

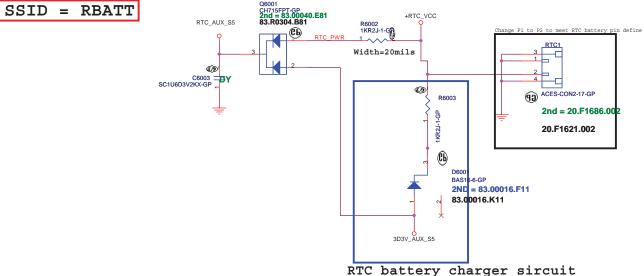




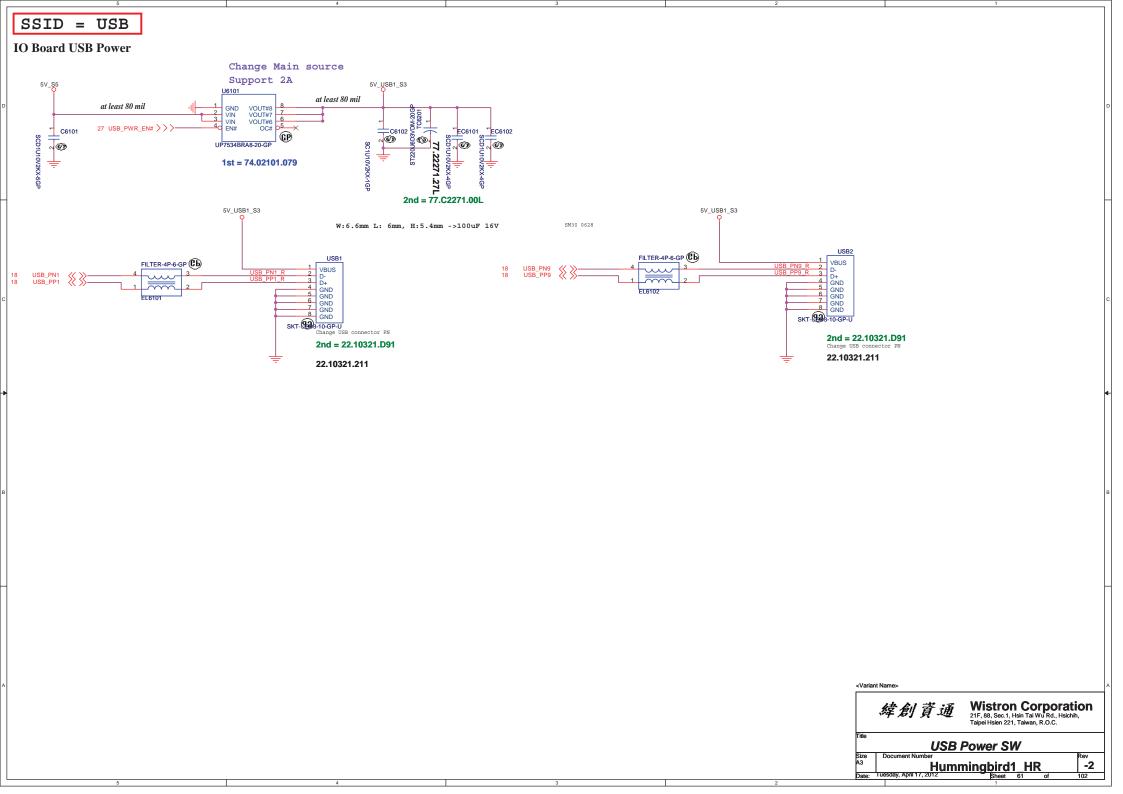










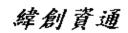


Blanking

SSID = User.Interface Bluetooth Module conn.

Without BT

<Variant Name>

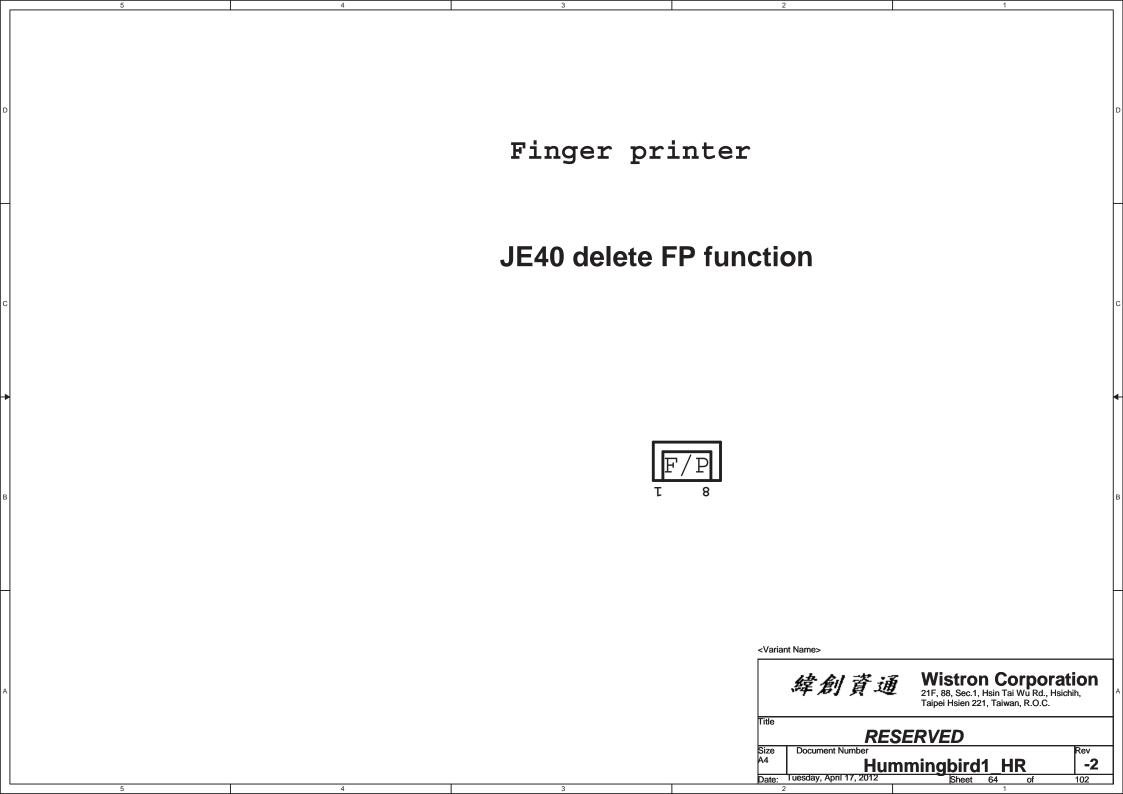


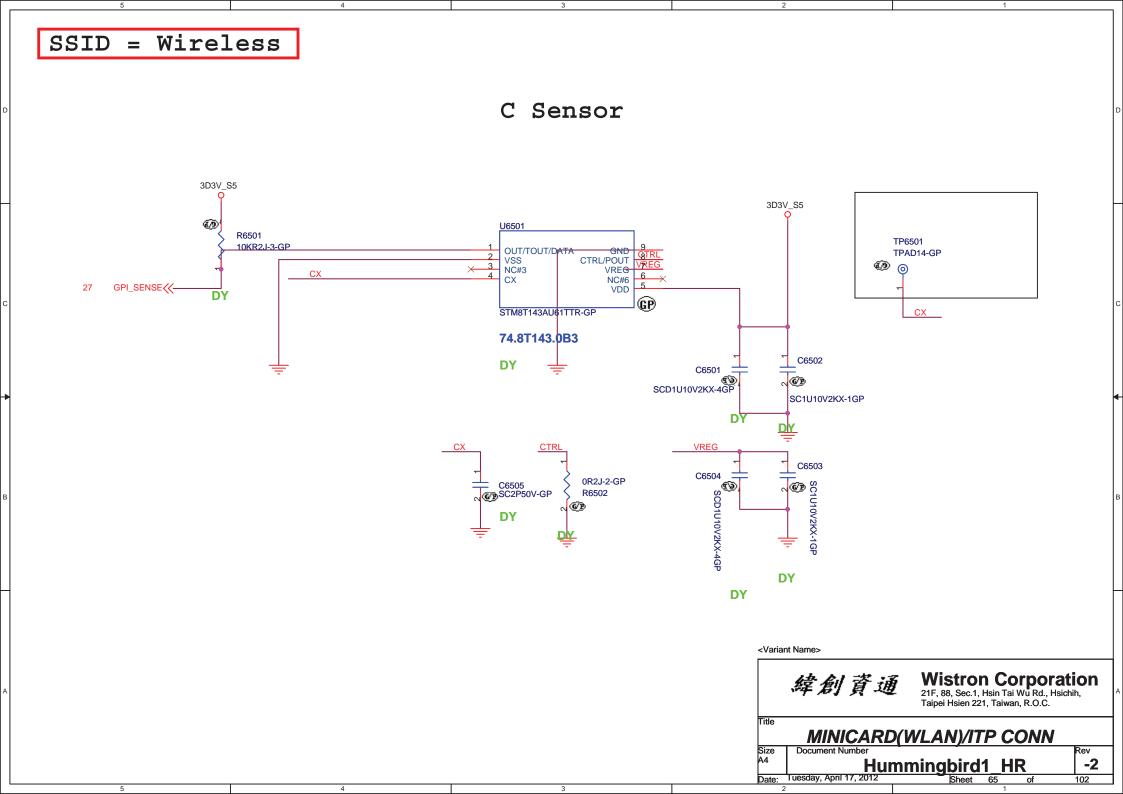
Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,

Bluetooth

Document Number Hummingbird1 HR
Tuesday, April 17, 2012 Sheet 63 co

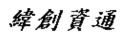
Rev -2





SSID = Wireless Blanking

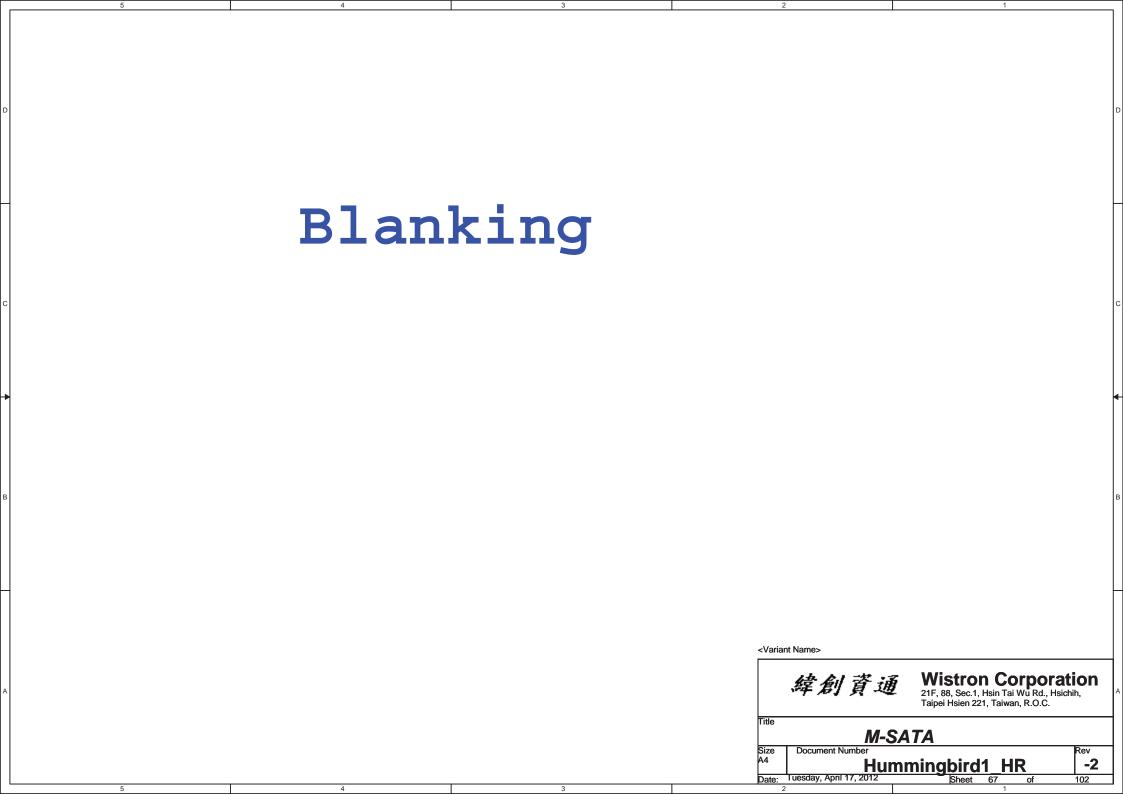
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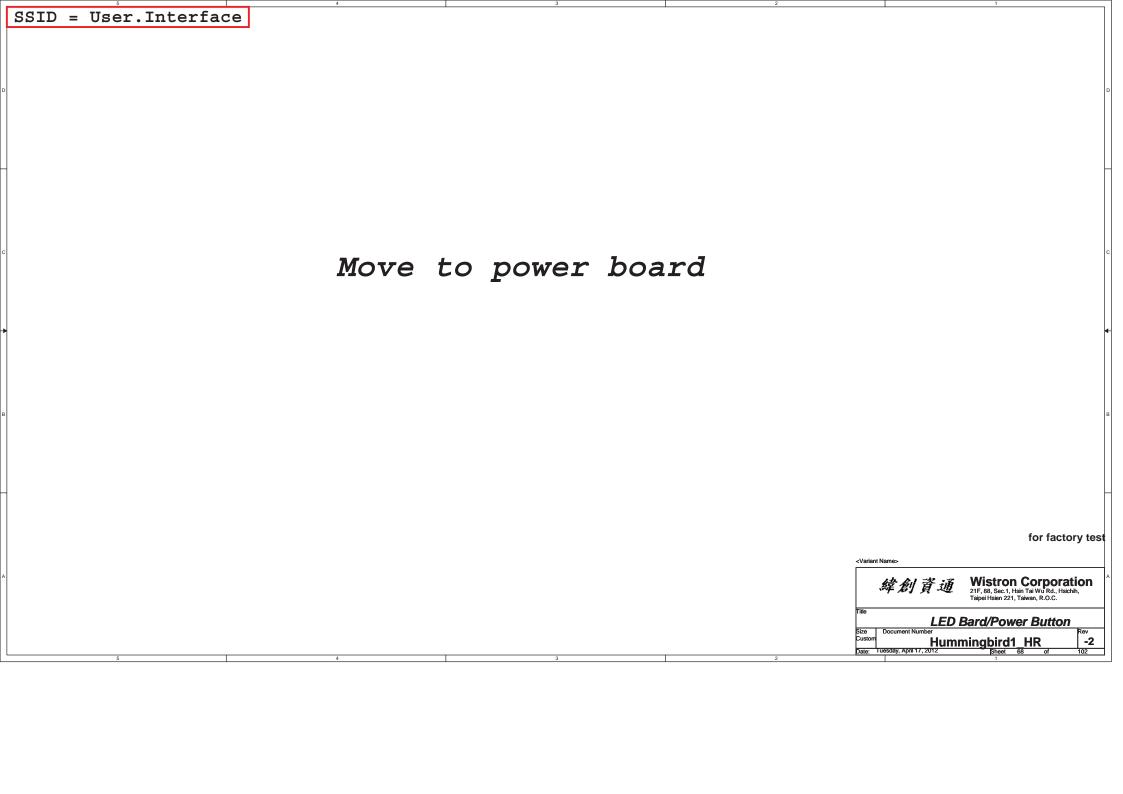


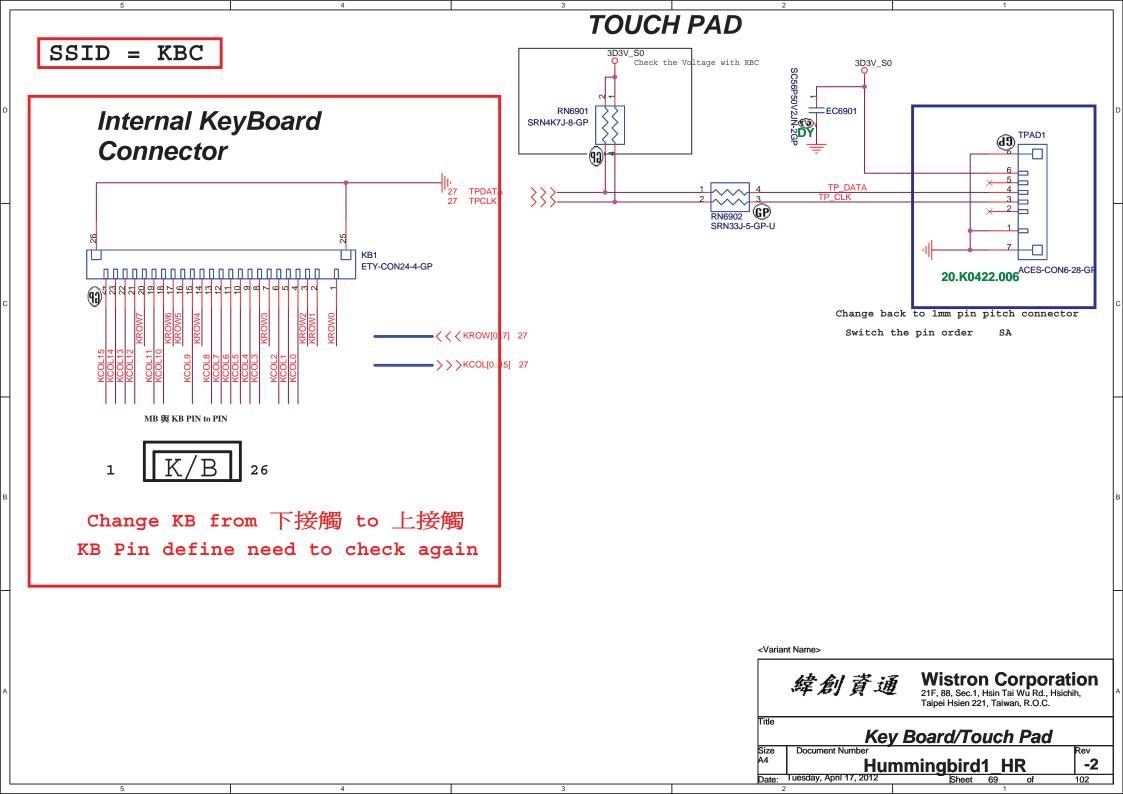
Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,

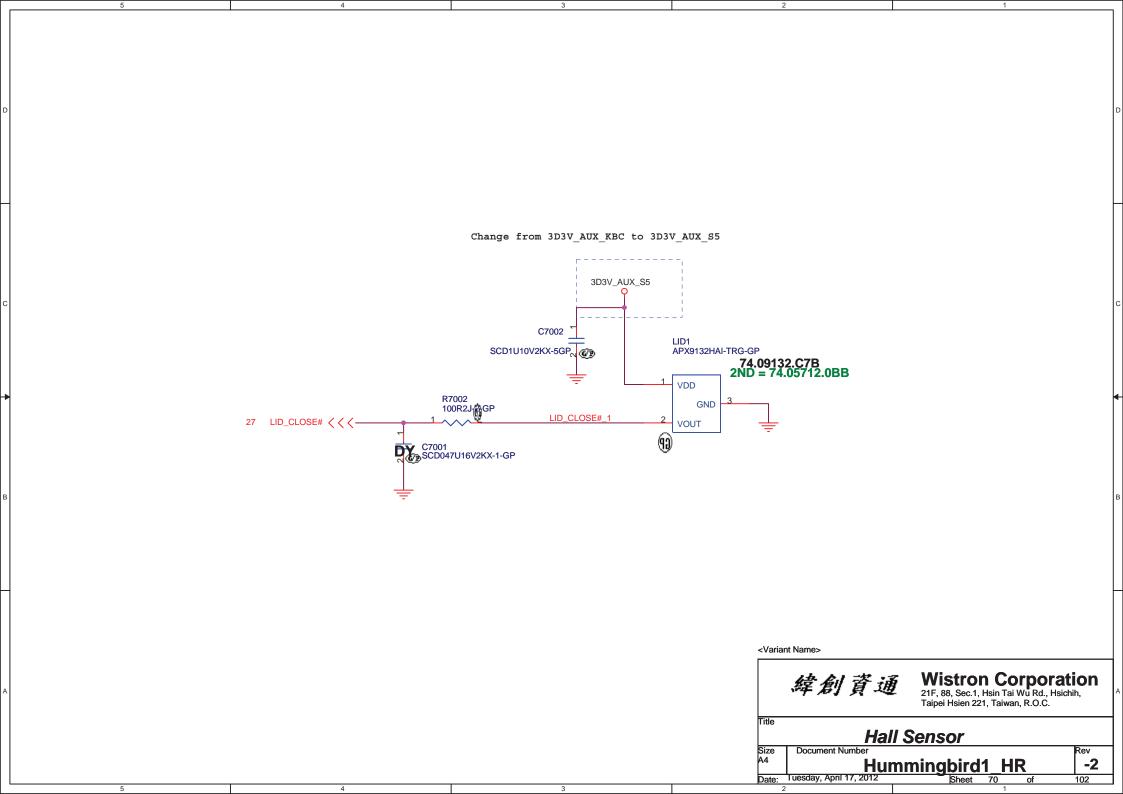
Taipei Hsien 221, Taiwan, R.O.C.

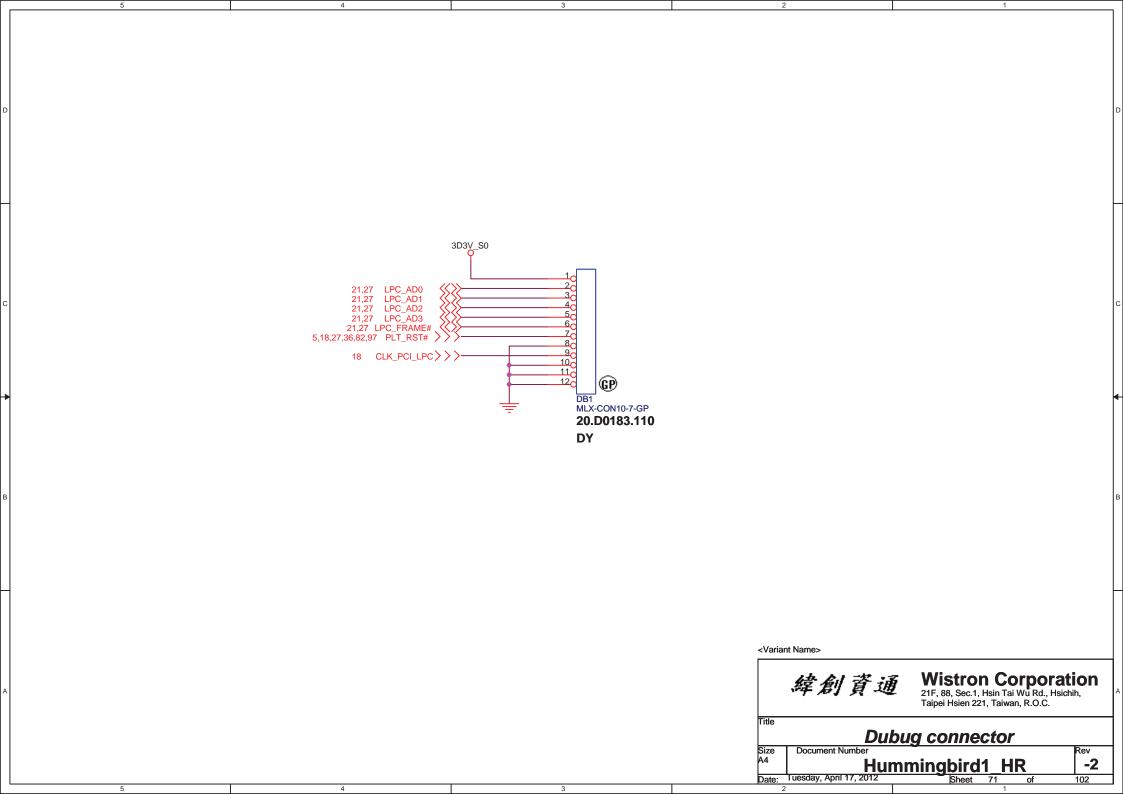
WWAN Connector Document Number Rev -2 **Hummingbird1 HR** Tuesday, April 17, 2012

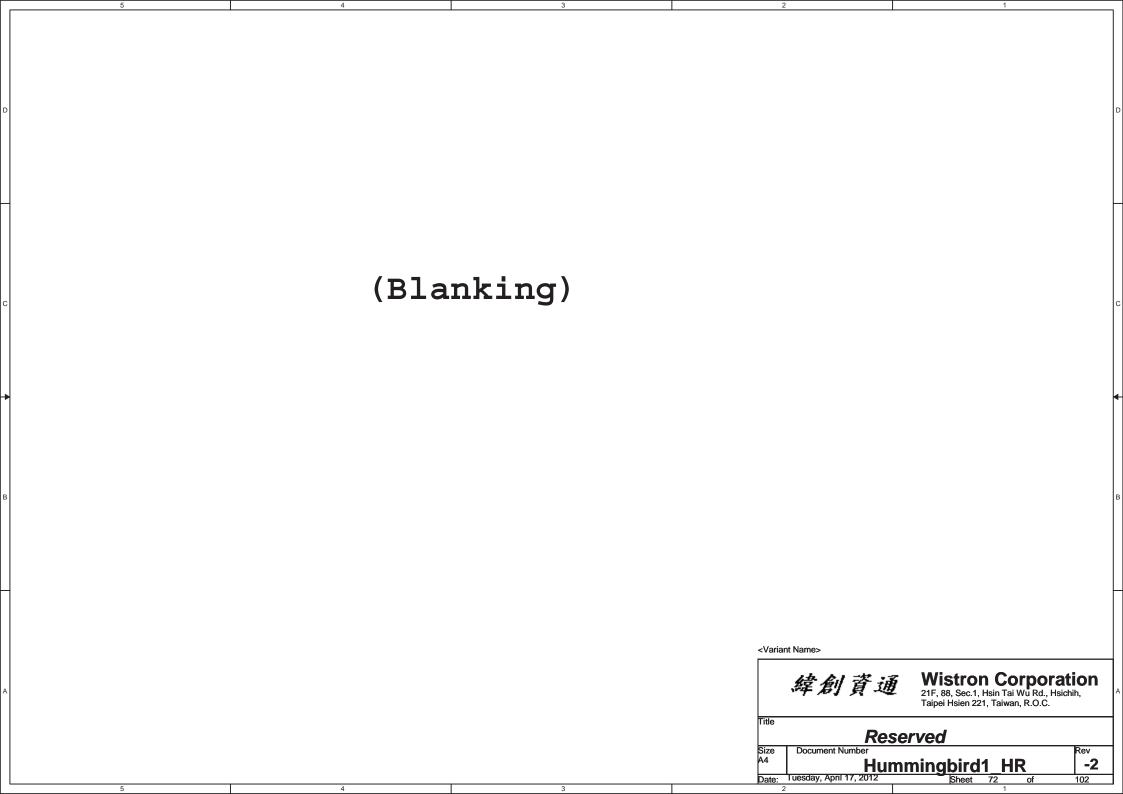


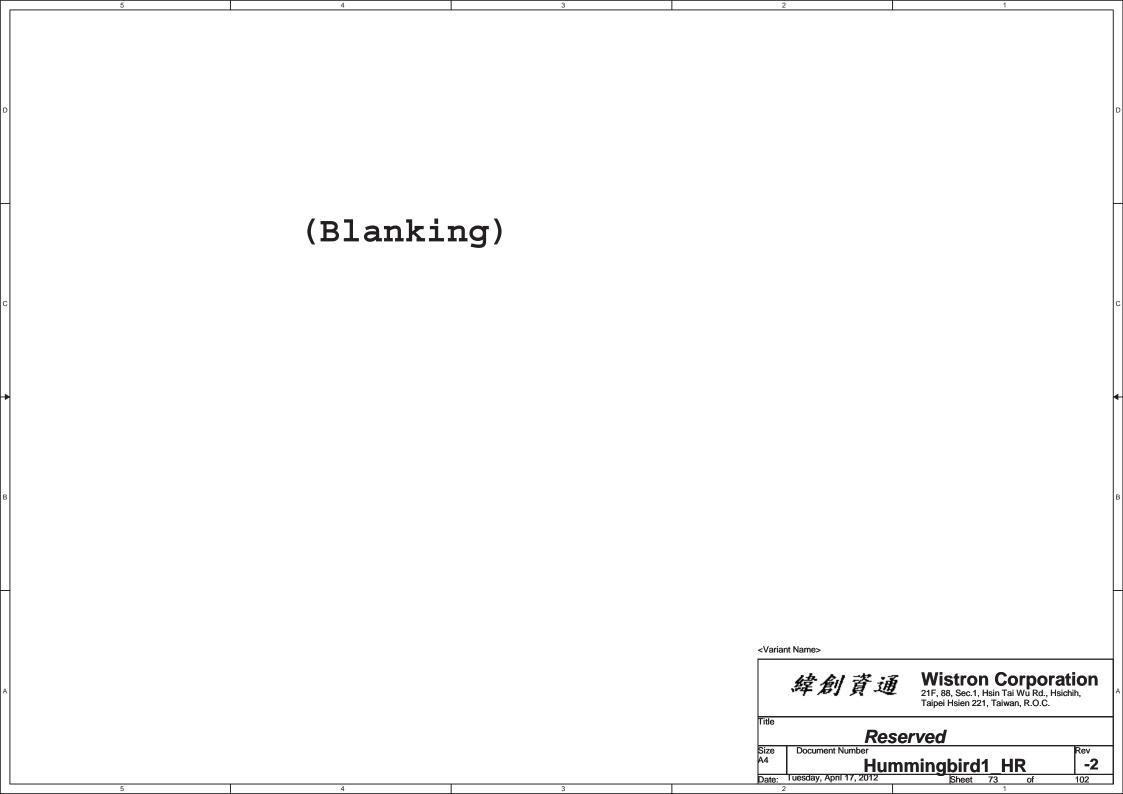


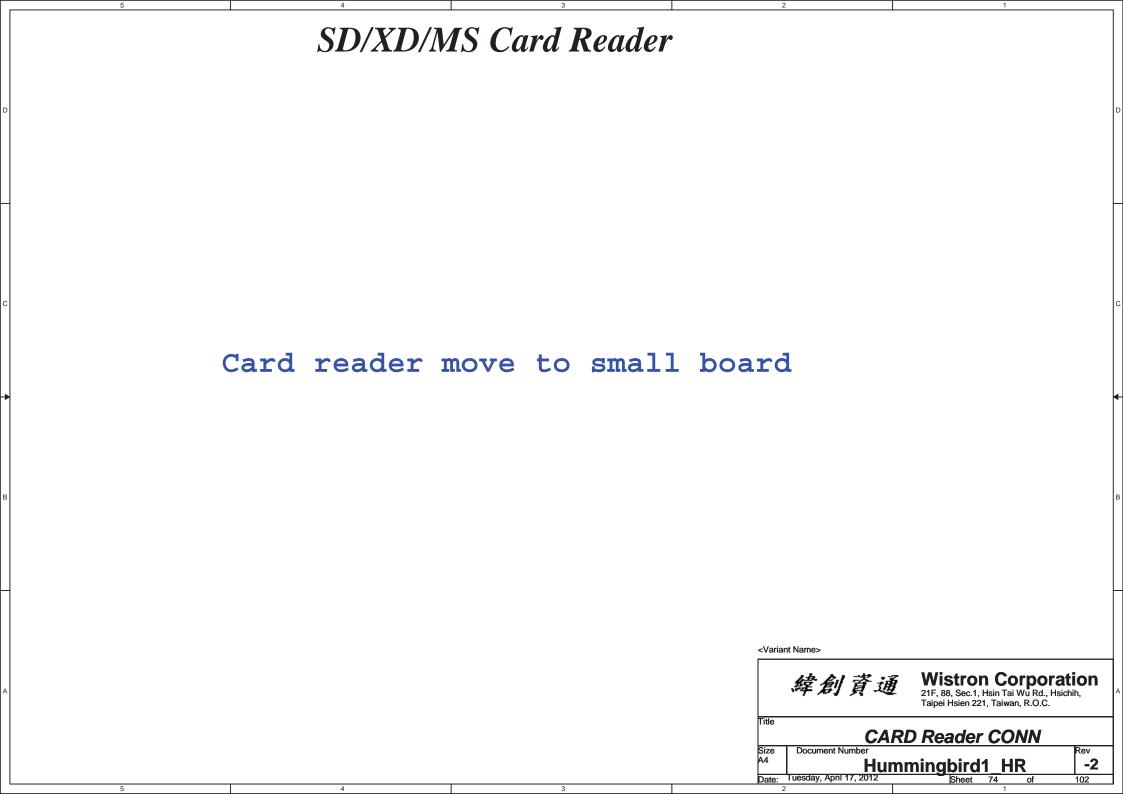






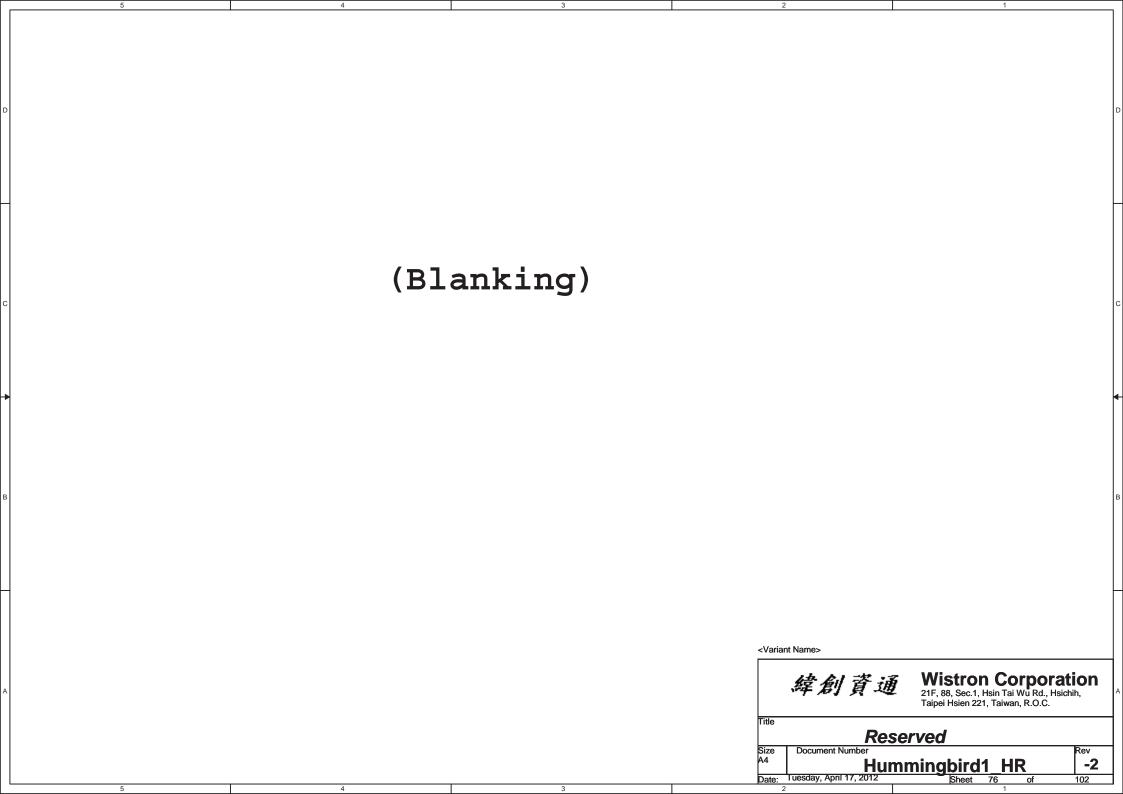


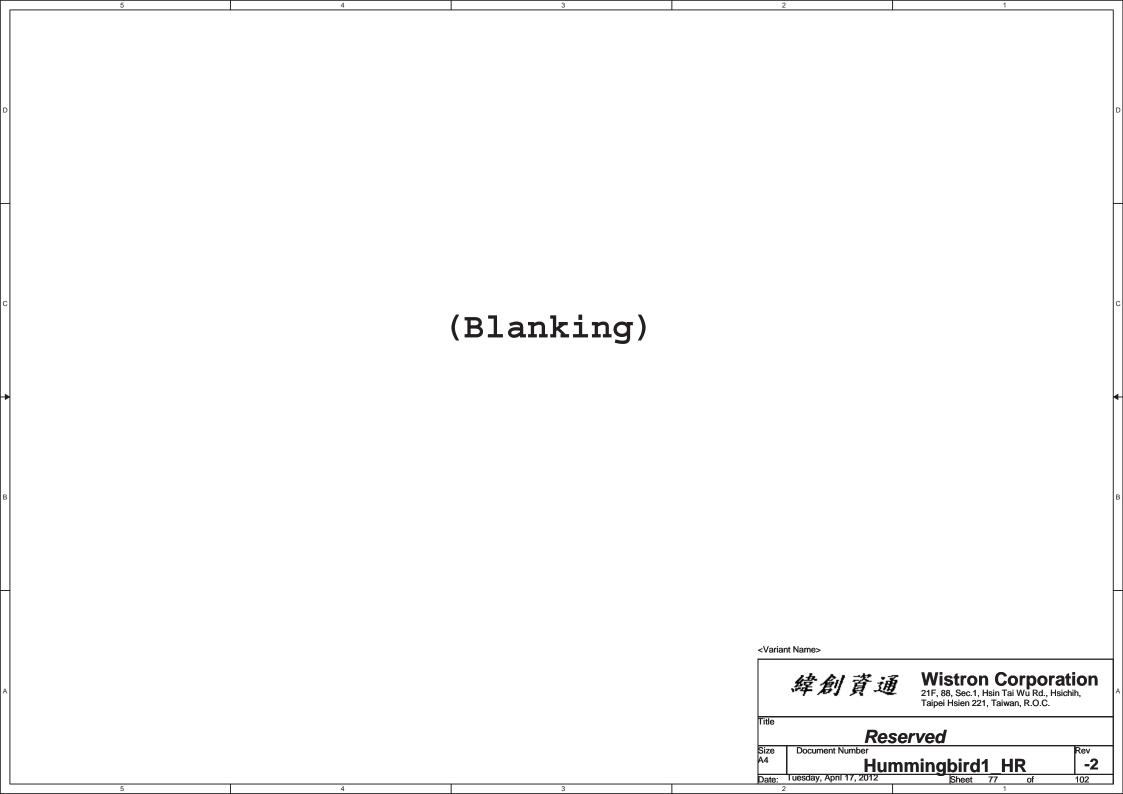


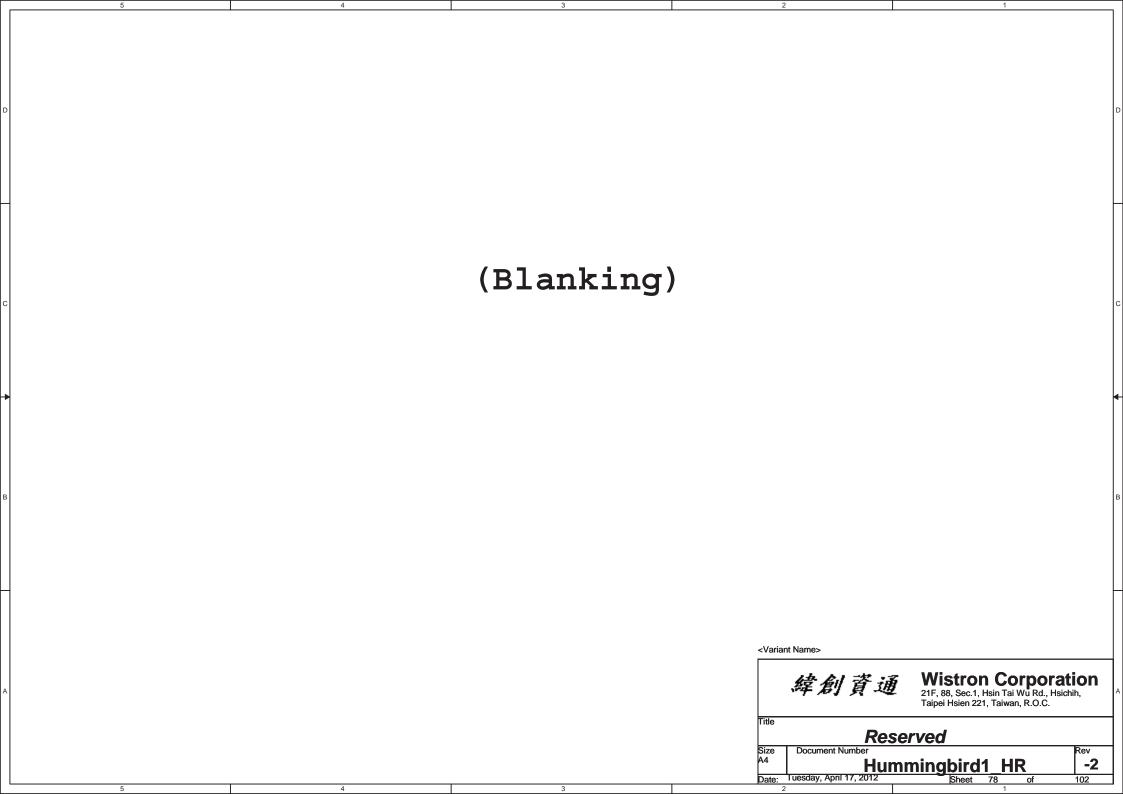


SSID = ExpressCard +1.5V_CARD Max. 650mA, Average 500mA. +3.3V_CARD Max. 1300mA, Average 1000mA +3.3V_CARDAUX Max. 275mA <Variant Name> Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C. New Card Rev -2 Hummingbird1 HR

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SSID = User.Interface

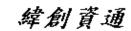
Free Fall Sensor

- no via, trace, under the sensor (keep out area around 2mm)
- stay away from the screw hole or metal shield soldering joints
- design PCB pad based on our sensor LGA pad size (add 0.1mm)
- solder stencil opening to 90% of the PCB pad size
- mount the sensor near the center of mass of the NB as possible as you can

Delete G Sensor Function

- (1) Keep all signals are the same trace width. (included VDD, GND).
- (2) No VIA under IC bottom.

<Variant Name>



Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,

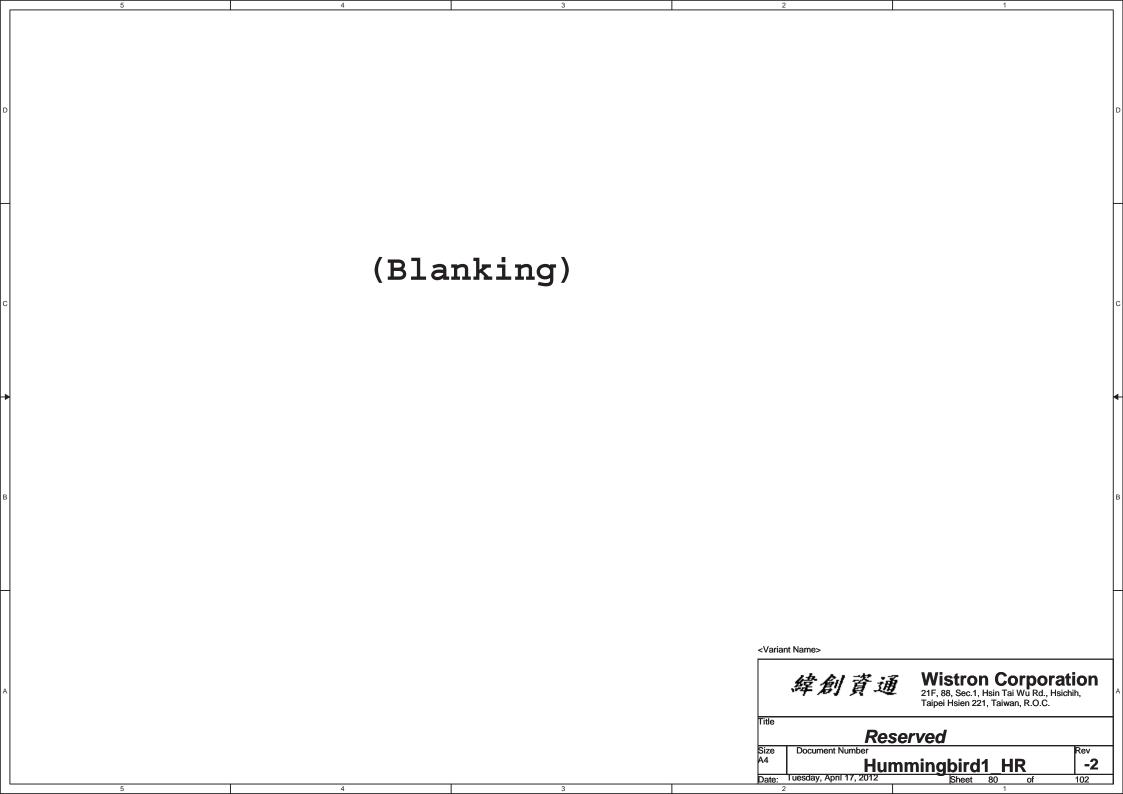
Taipei Hsien 221, Taiwan, R.O.C.

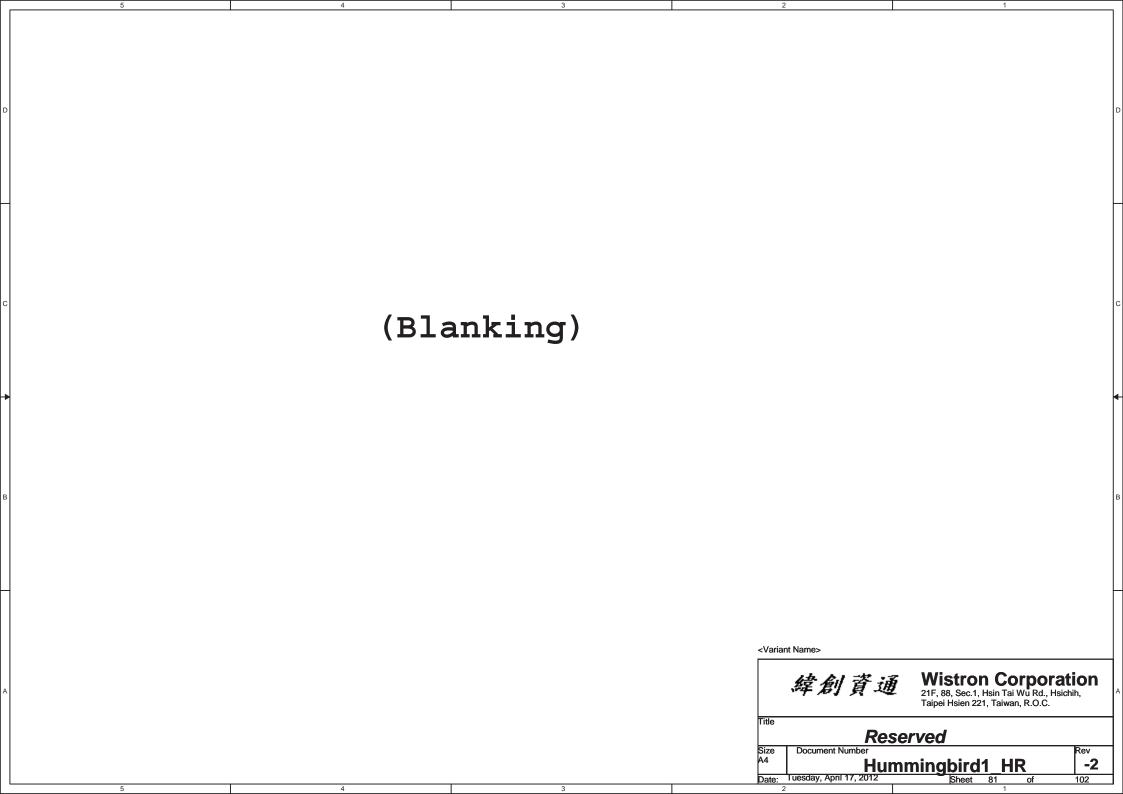
Free Fall Sensor

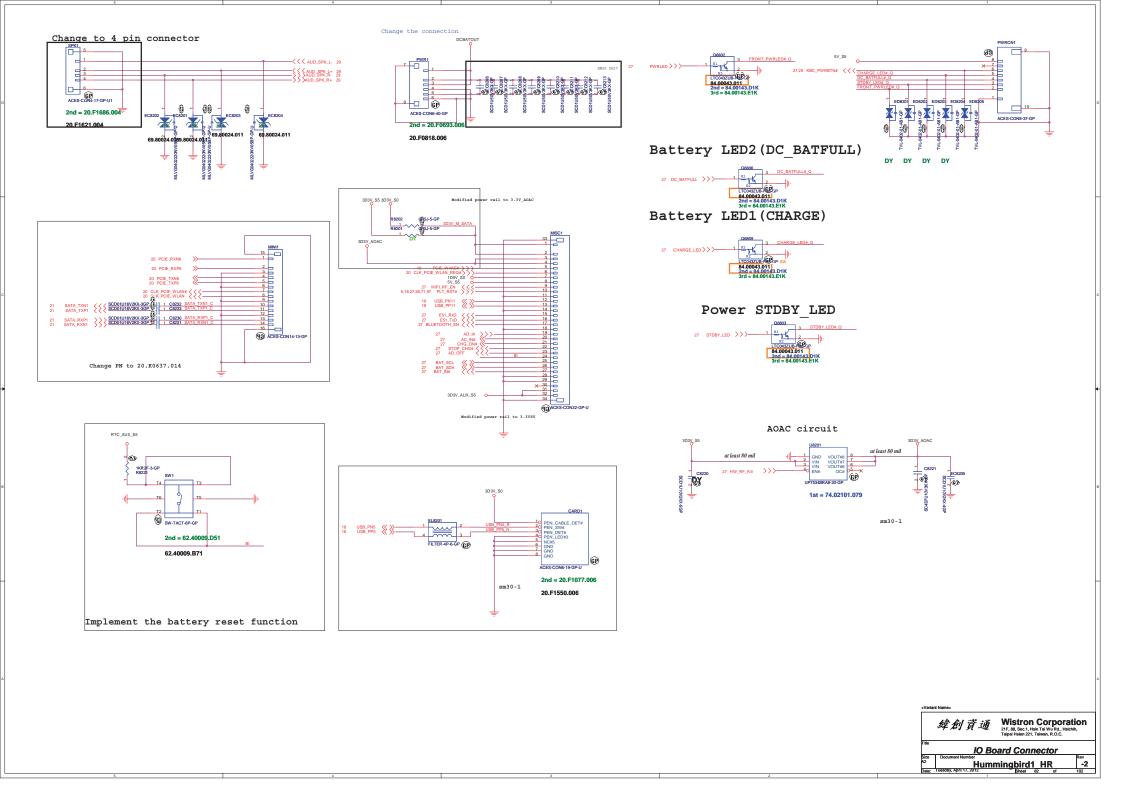
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| | | | |
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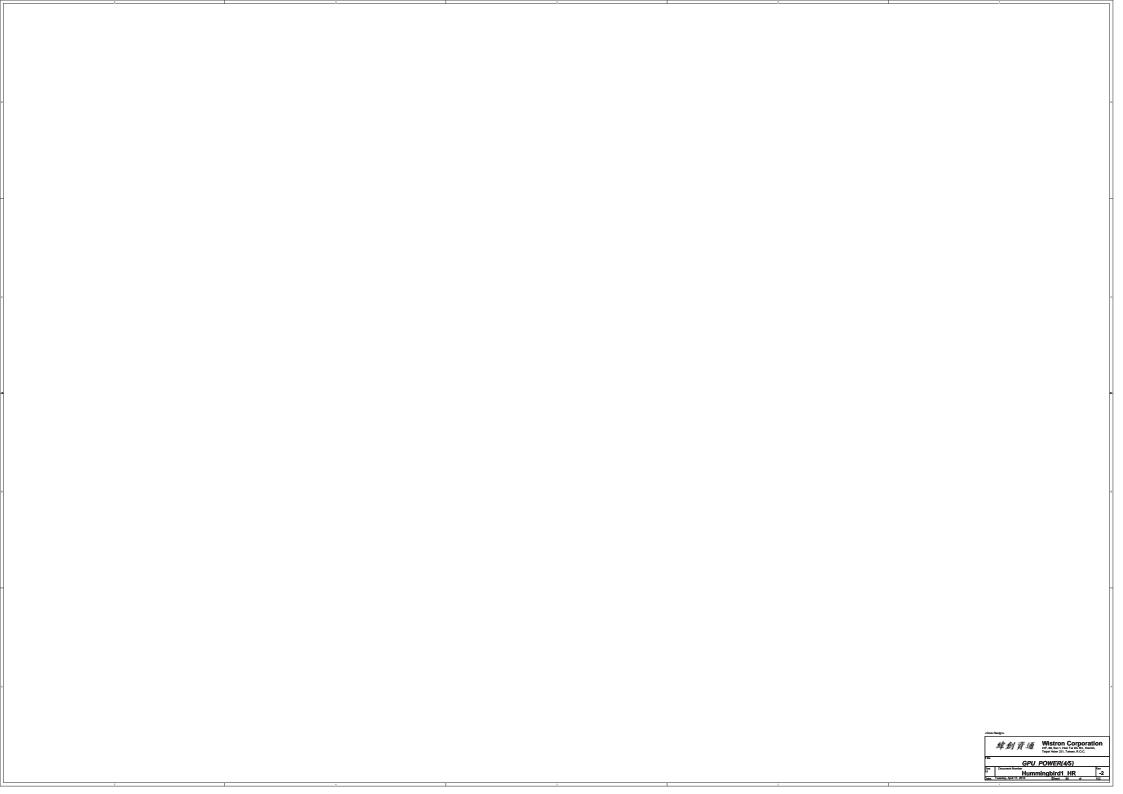


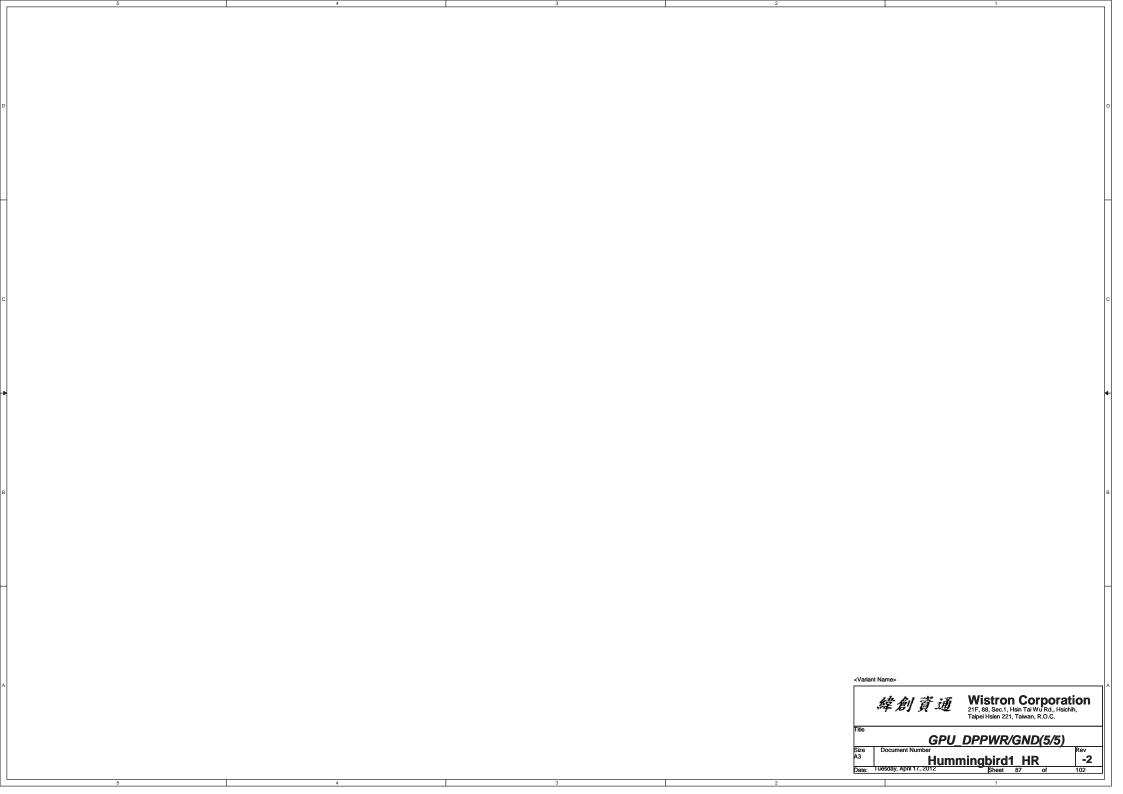
解創資通 Wistron Corporation 21f. 88, Sac.1, Hain Tal Wu Rd., Hsichib, Talpal Hsien 221, Talwan, R.O.C. GPU DP/LVDS/CRT/GPIO(3/5)

Size Document Number

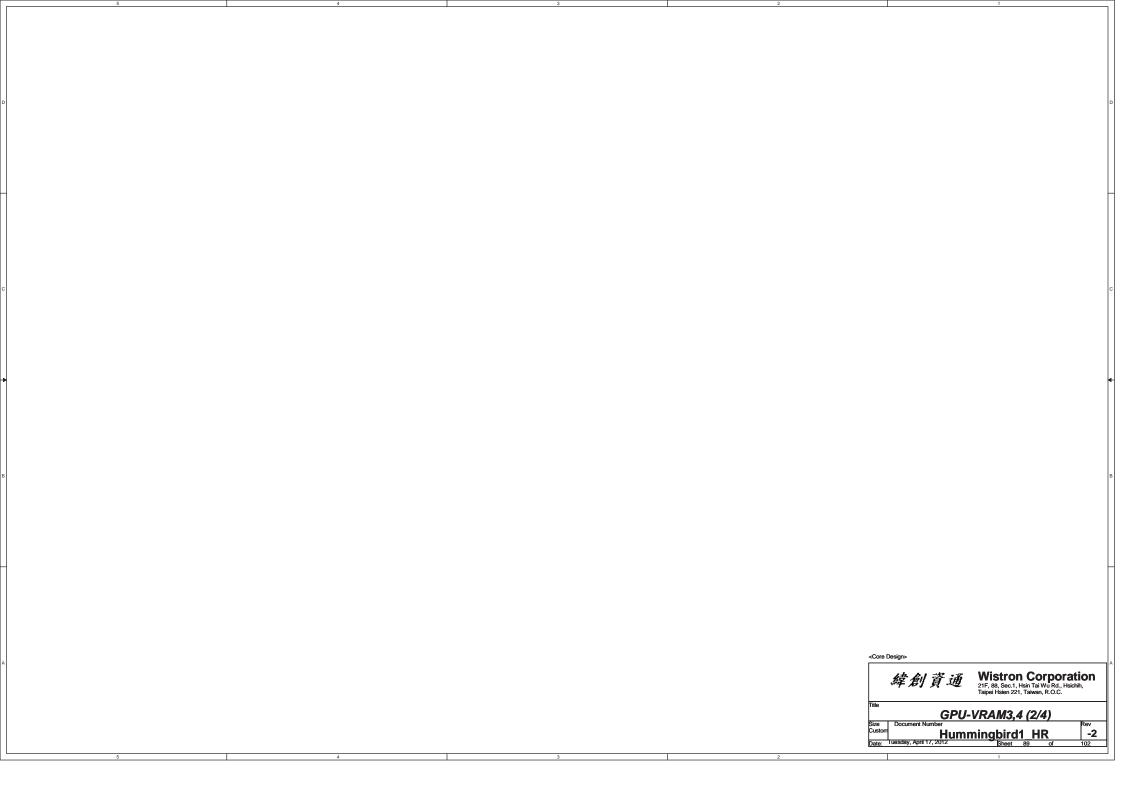
Hummingbird1 HR

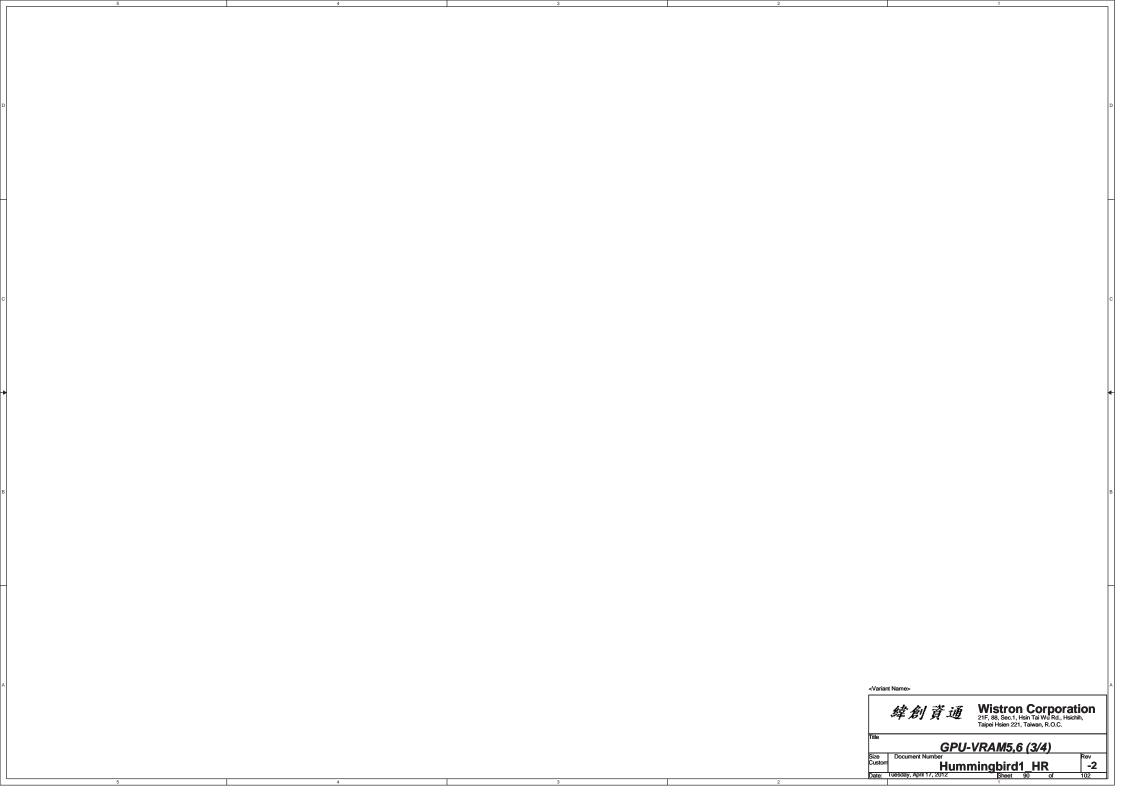
Steet 85 of

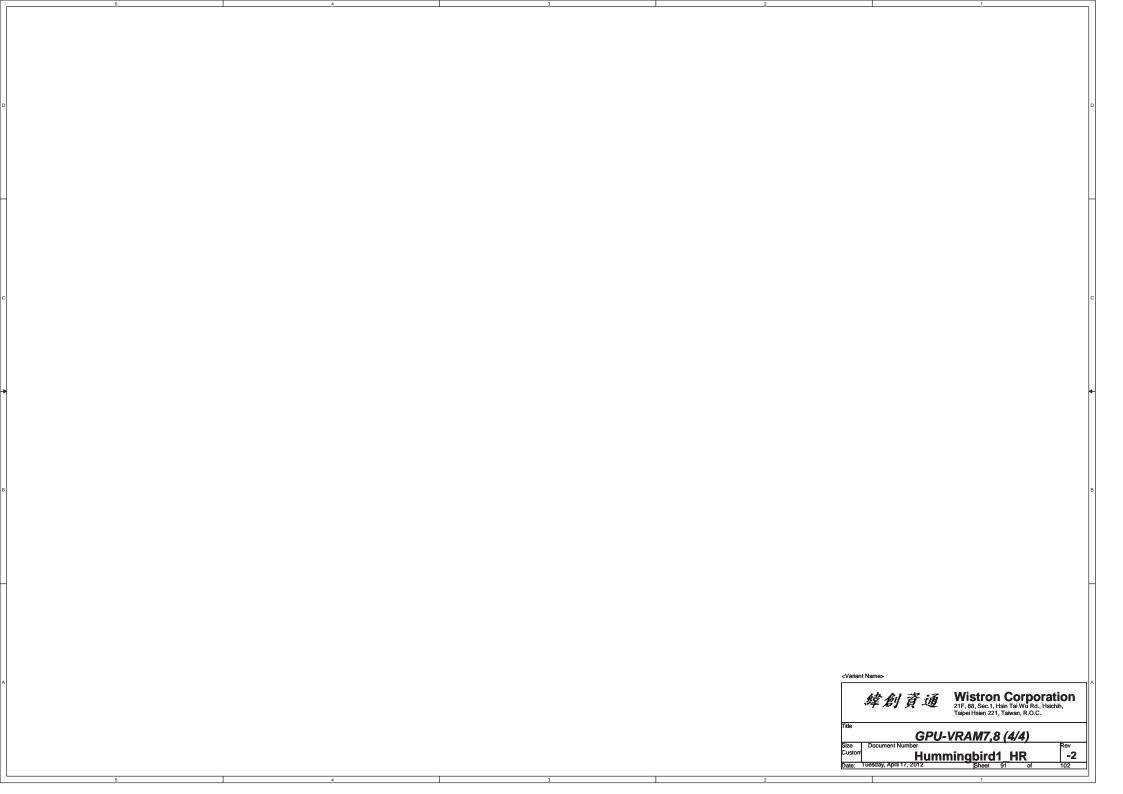


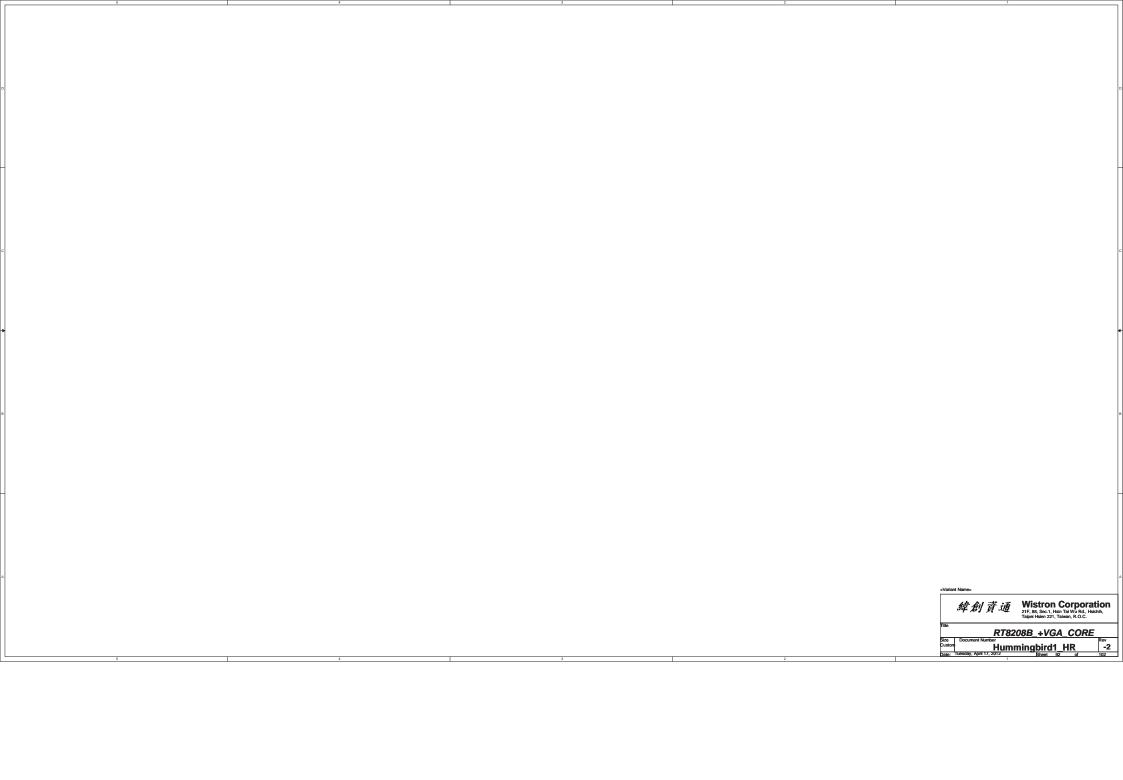






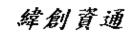








<Variant Name>



Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,

Taipei Hsien 221, Taiwan, R.O.C.

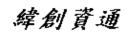
DISCRETE VGA POWER

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LVDS Channel A

Blanking

<Variant Name>



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Taipei Hsien 221, Taiwan, R.O.C.

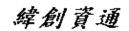
LVDS Switch Document Number

Hummingbird1 HR

Tuesday, April 17, 2012



<Variant Name>



Document Number

Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,

Taipei Hsien 221, Taiwan, R.O.C.

CRT Switch

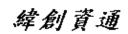
Hummingbird1_HR Tuesday, April 17, 2012

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SSID = SDIO

Blanking

<Variant Name>



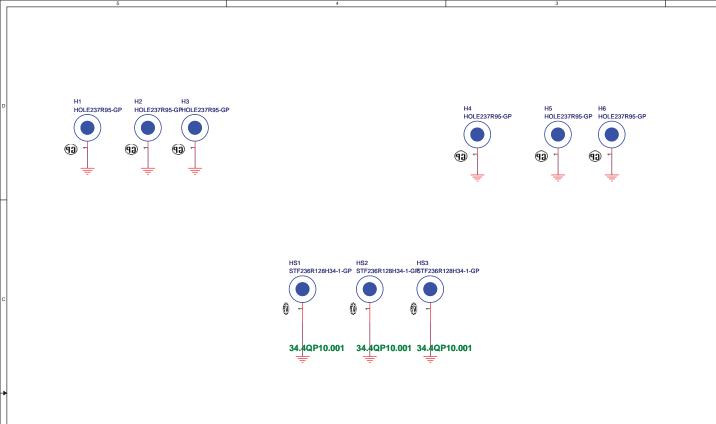
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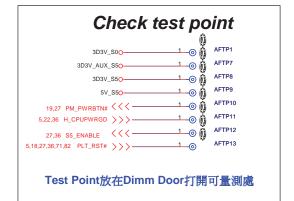
Taipei Hsien 221, Taiwan, R.O.C.

TOUCH PANEL

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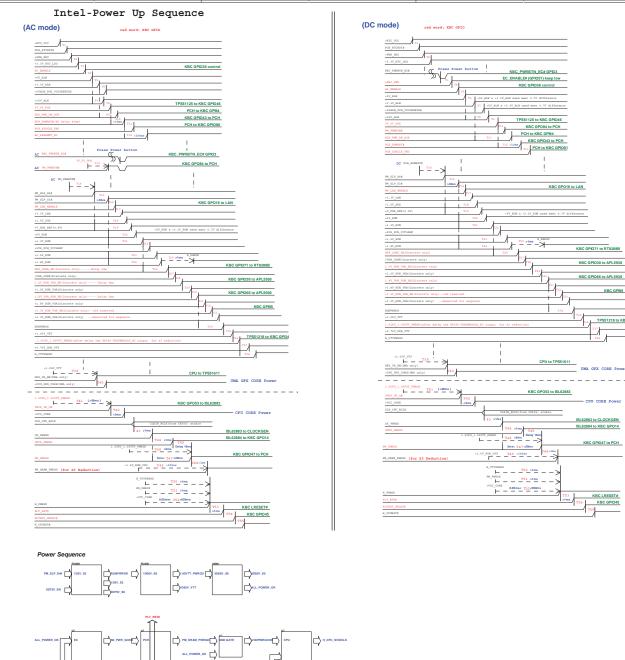








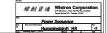
| -SA |
|-----|
| -SB |
| -1 |
| -2 |

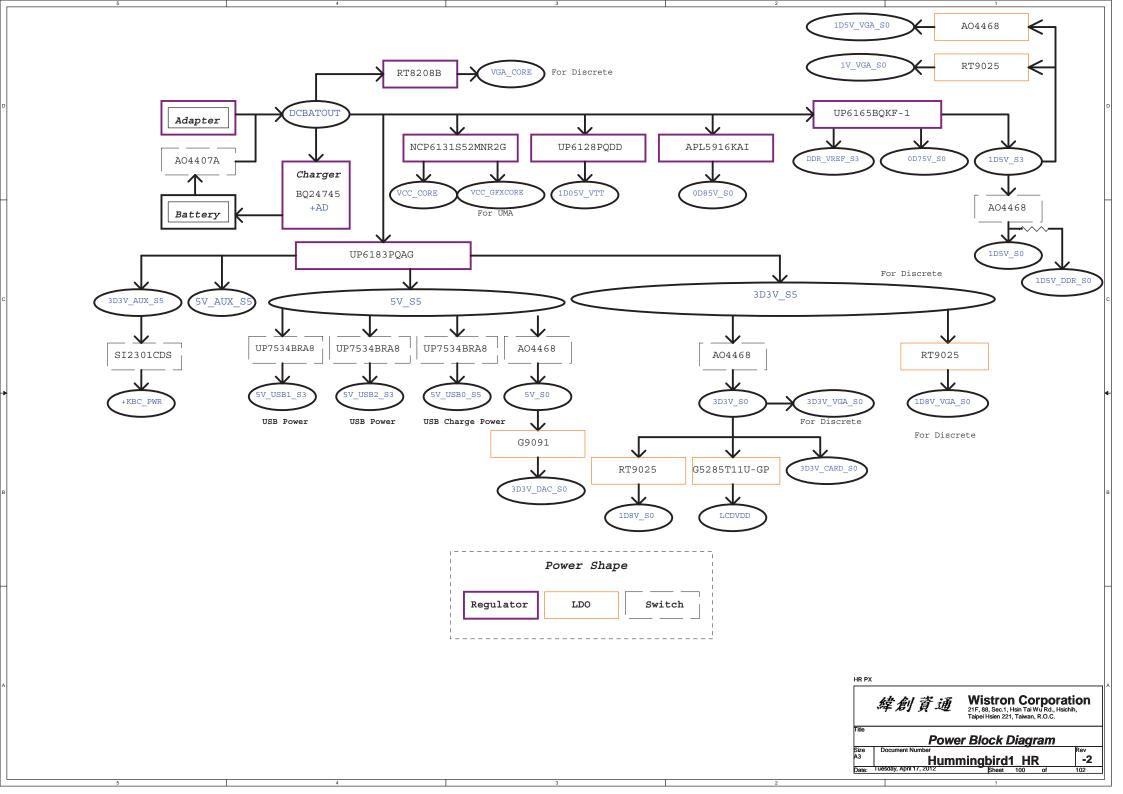


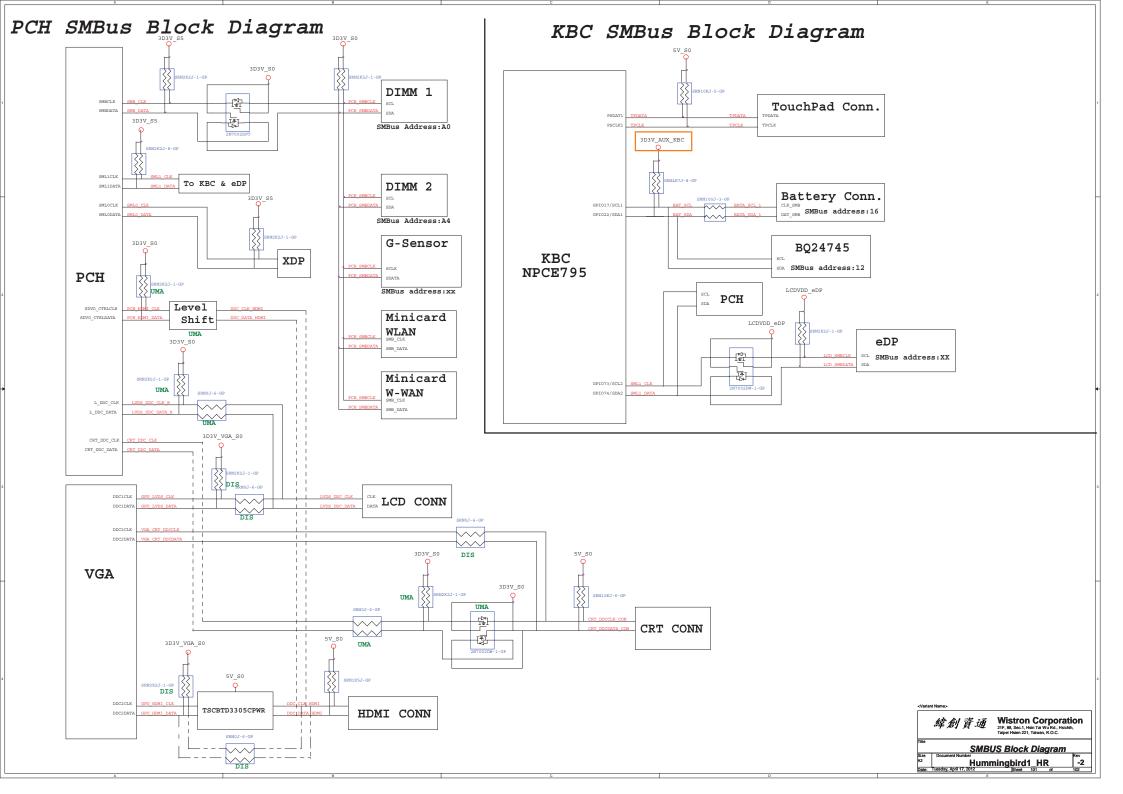
KBC GPI95

TPS51218 to KBC GPI34

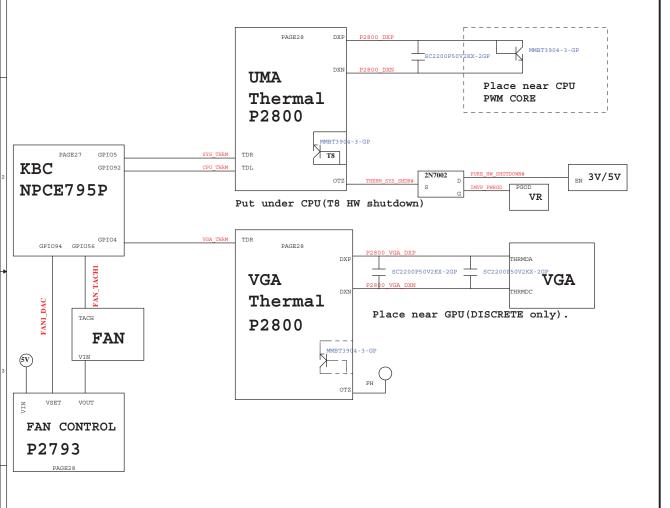
KBC LRESET# KBC GPIO45



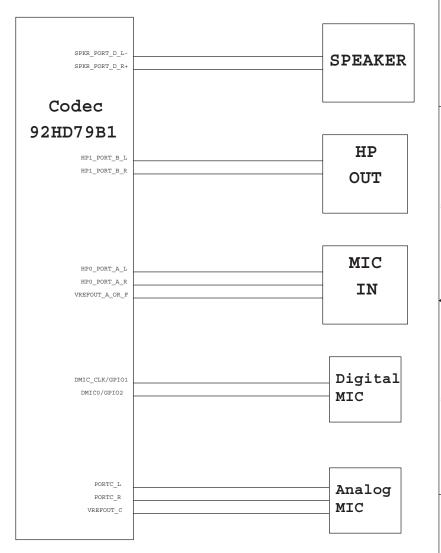




Thermal Block Diagram



Audio Block Diagram



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Taipei Hsien 221, Taiwan, R.O.C.

Title
Thermal/Audio Block Diagram

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