

EA30_BM

Schematics Document



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

No eMMC

緯創資通 **Wistron Corporation**
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title

Cover Page

Size
A3

Document Number

EA30_BM

Rev

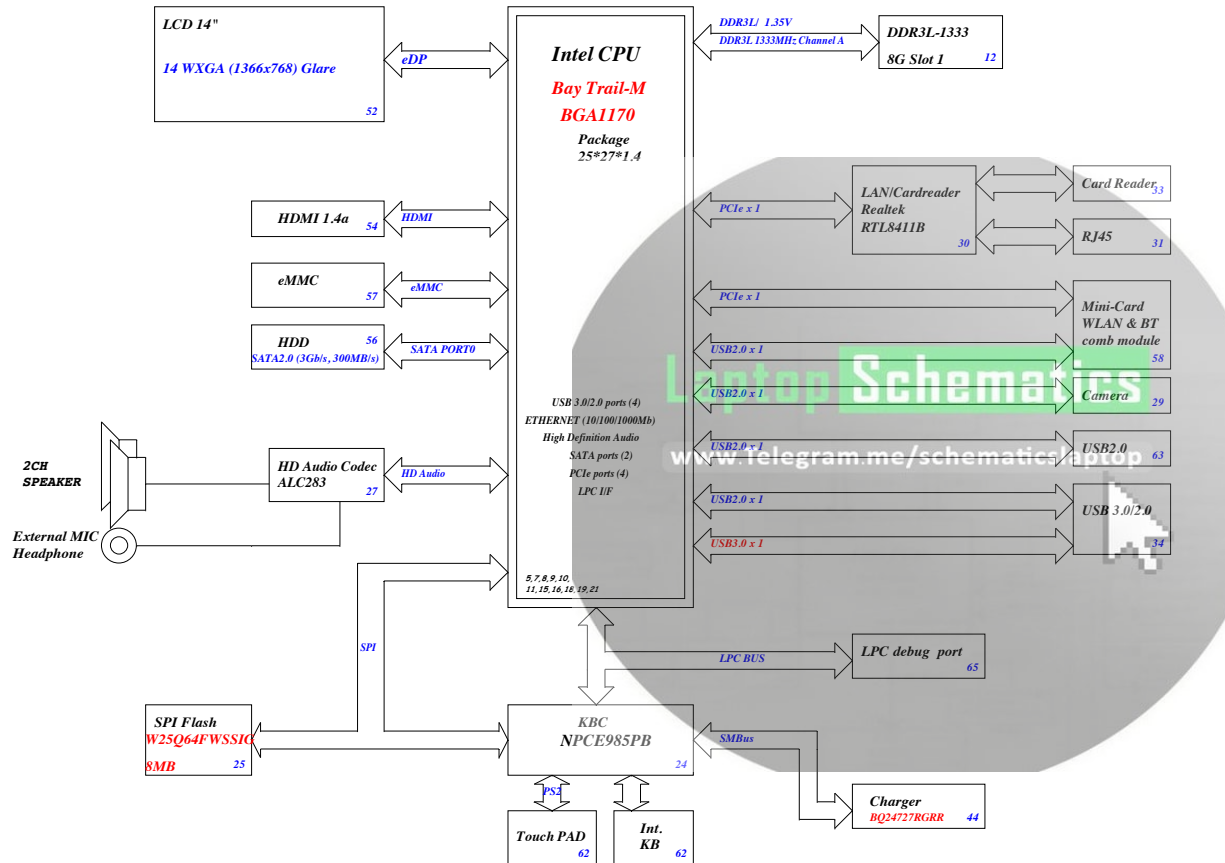
-1

Date: Tuesday, July 08, 2014

Sheet 1 of 102

EA30_BM Board Block Diagram

Project code :
PCB P/N : 14221
Revision : SB



CHARGER BQ24727		44
INPUTS	OUTPUTS	
DCBATOUT	BT+	
SYSTEM DC/DC TPS51225		45
INPUTS	OUTPUTS	
DCBATOUT	5V_S5	
	3D3V_S5	
CPU DC/DC ISL95833		46-47
INPUTS	OUTPUTS	
DCBATOUT	VCC_CORE	
SYSTEM DC/DC SY8208		50
INPUTS	OUTPUTS	
DCBATOUT	1D0V_S5	
SYSTEM DC/DC SY8208DQNC		49
INPUTS	OUTPUTS	
DCBATOUT	1D35V_S3	
SYSTEM LDO TLV70218		51
INPUTS	OUTPUTS	
	3D3V_S5	1D8V_S5
SYSTEM LDO S-1339D15		51
INPUTS	OUTPUTS	
	3D3V_S5	1D5V_S0
SYSTEM LDO TLV70012		51
INPUTS	OUTPUTS	
	3D3V_S5	1D2V_S5
Step Down Regulator SYW232		51
INPUTS	OUTPUTS	
1D0V_S0_P6	1D05V_S0	
GPU Core RT8812		82
INPUTS	OUTPUTS	
DCBATOUT	V6A_CORE	
LOAD SWITCH TPS22966		37
INPUTS	OUTPUTS	
1D35V_S3	1D35V_S0	
LOAD SWITCH TPS22965		37
INPUTS	OUTPUTS	
1D0V_S5	1D0V_S0	
SYSTEM DC/DC SY8208		83
INPUTS	OUTPUTS	
DCBATOUT	1D5V_V6A_S0	
LOAD SWITCH TPS22966		83
INPUTS	OUTPUTS	
1D05V_S0	1D5V_V6A_S1	
3D3V_S0	3D3V_V6A_S0	

PCB LAYER

L1:Top L4:Signal
L2:VCC L5:GND
L3:Signal L6:Bottom

Wistron Confidential document, Anyone can not Duplicate, Modify, Forward or any other purpose application without get Wistron permission

D

C

B

A



No eMMC

緯創資通		Wistron Corporation	
		21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
(Reserved)			
Size A4	Document Number EA30 BM		Rev -1
Date:	Tuesday, July 08, 2014	Sheet 3 of	102

Blanking

Laptop Schematics

www.Telegram.me/schematics_laptop



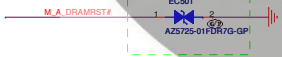
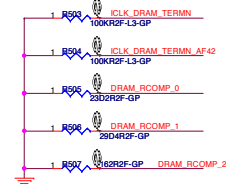
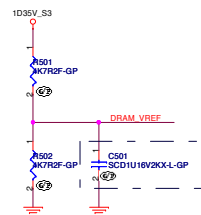
Wistron Confidential document, Anyone can not Duplicate, Modify, Forward or any other purpose application without get Wistron permission

No eMMC

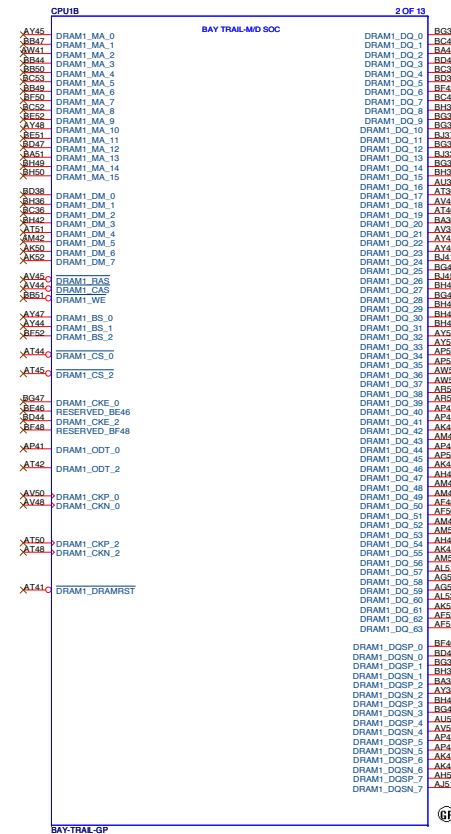
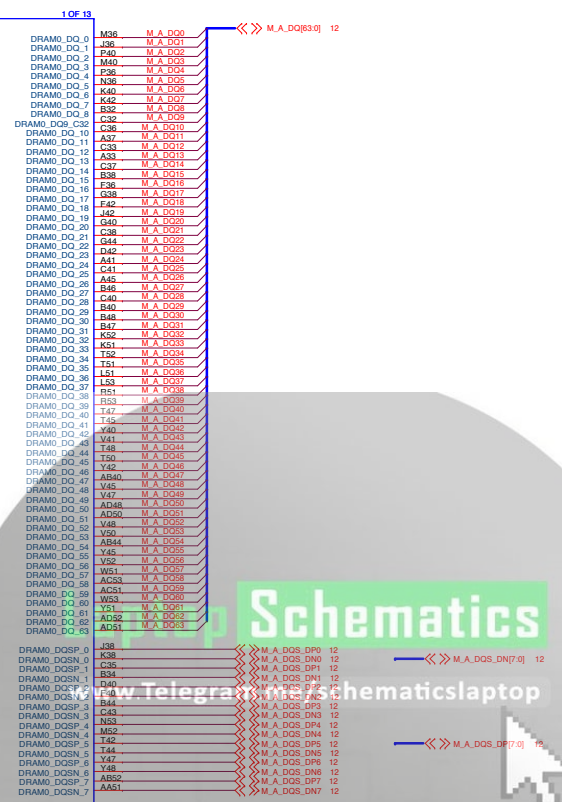
緯創資通 Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.

Title CPU (Reserved)

Size A4	Document Number EA30 BM	Rev -1
------------	----------------------------	-----------



reserve the 0402 0.1u caps on reset for EMI.



SSID = CPU



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

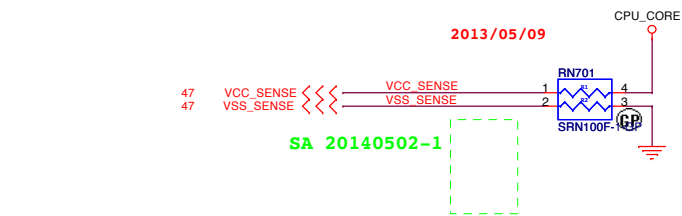
No eMMC

緯創資通

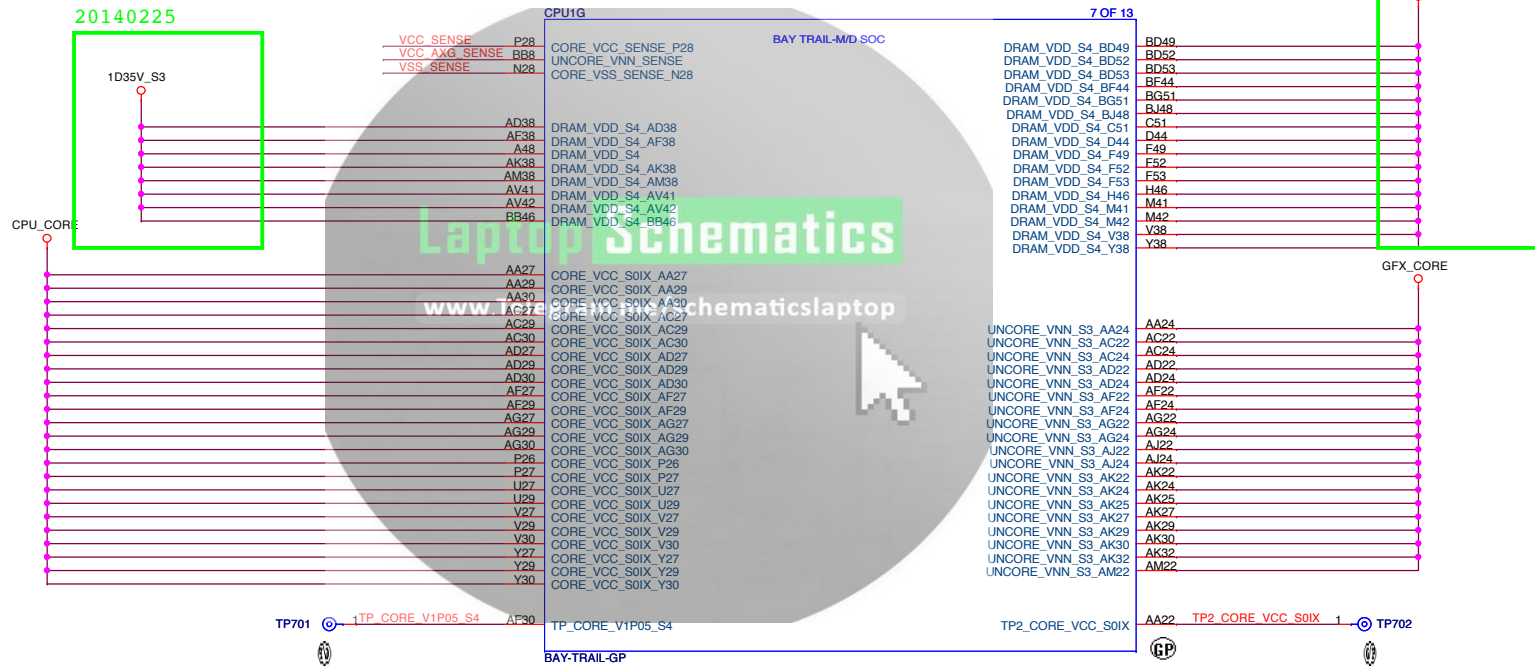
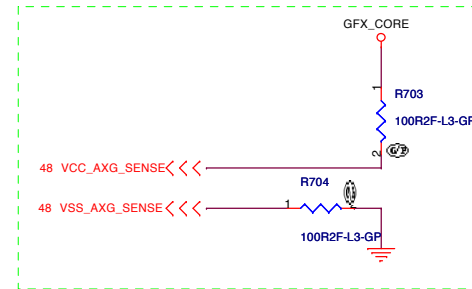
Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title			CPU (CFG)	
Size	Document Number		Rev	
A4	EA30 BM		-1	

SSID = CPU



SA 20140502-1



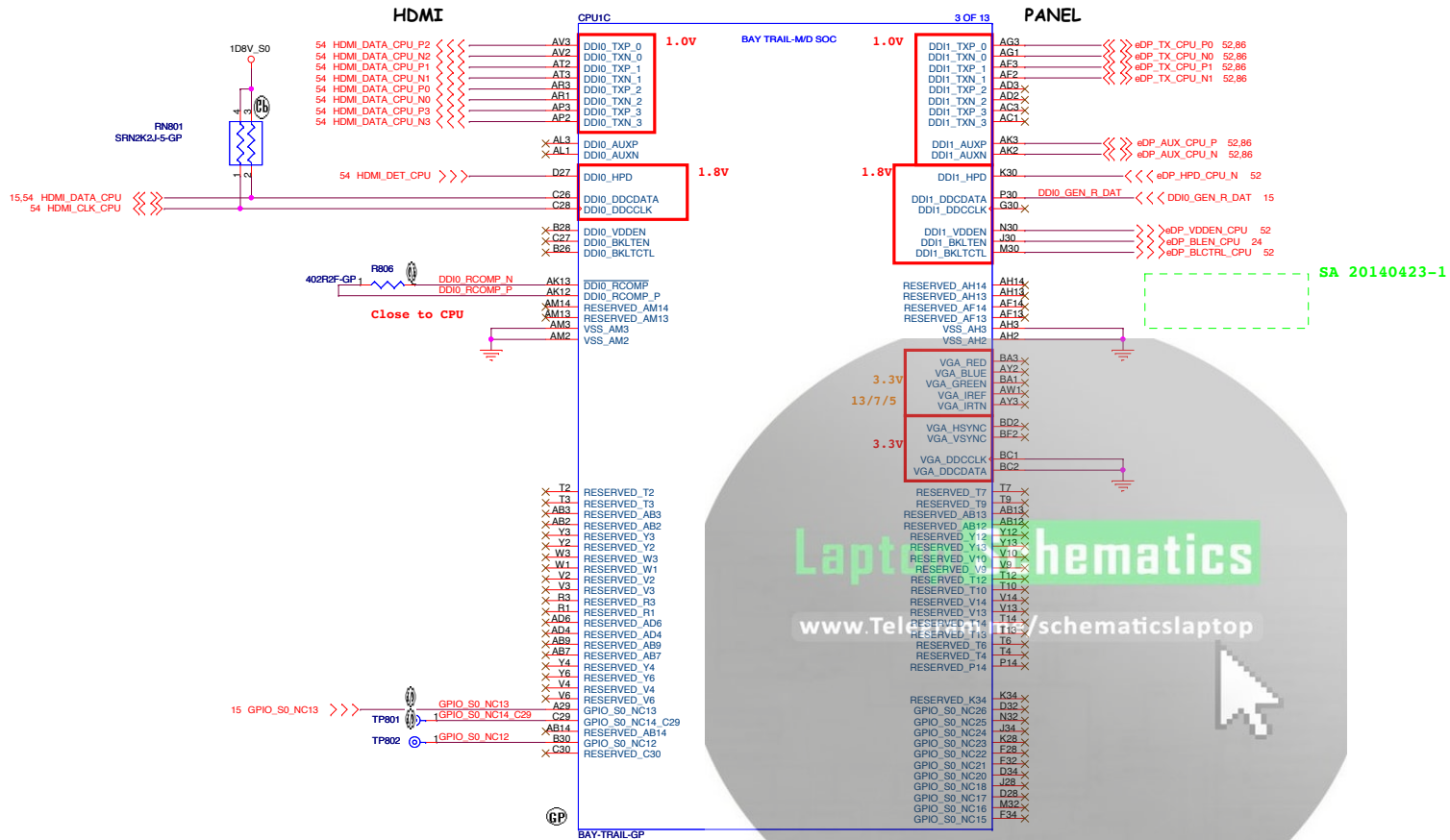
Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

No eMMC

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

Title		
CPU (VCC CORE)		
Size	Document Number	Rev
A3	EA30 BM	-1
Date:	Tuesday, July 08, 2014	Sheet 7 of 102

SSID = CPU



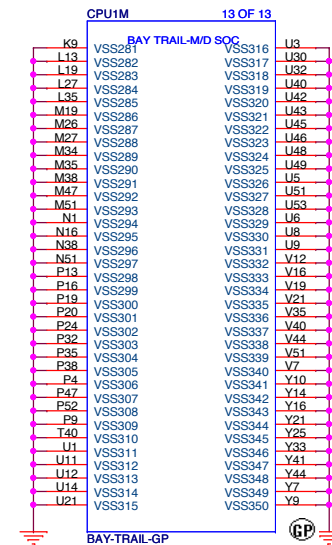
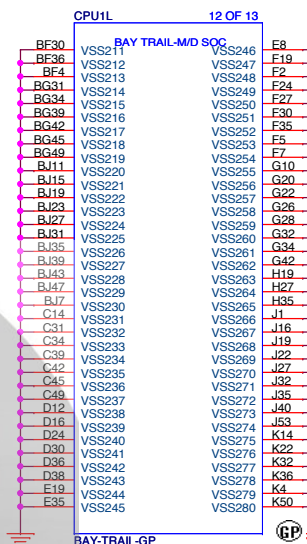
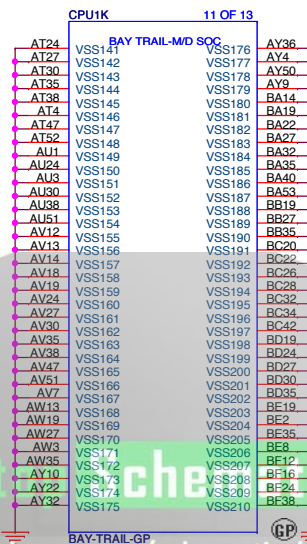
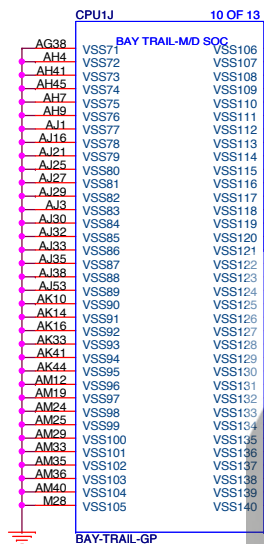
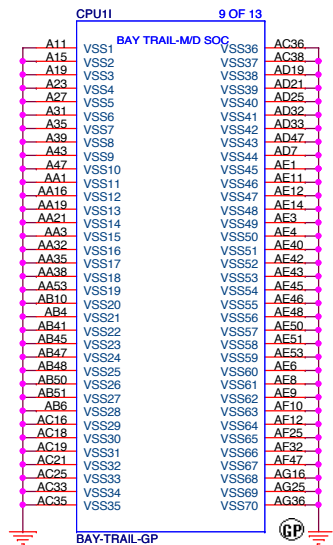
Wistron Confidential document, Anyone can not Duplicate, Modify, Forward or any other purpose application without get Wistron permission

No eMMC

緯創資通 **Wistron Corporation**
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title			
CPU (DDI/EDP/GPIO)			
Size	Document Number		Rev
Custom	EA30 BM		-1
Date:	Tuesday, July 08, 2014		Sheet 8 of 102

SSID = CPU



Wistron Confidential document, Anyone can not Duplicate, Modify, Forward or any other purpose application without get Wistron permission

No eMMC

緯創資通

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

Title

CPU (VSS)

Size	Document Number
------	-----------------

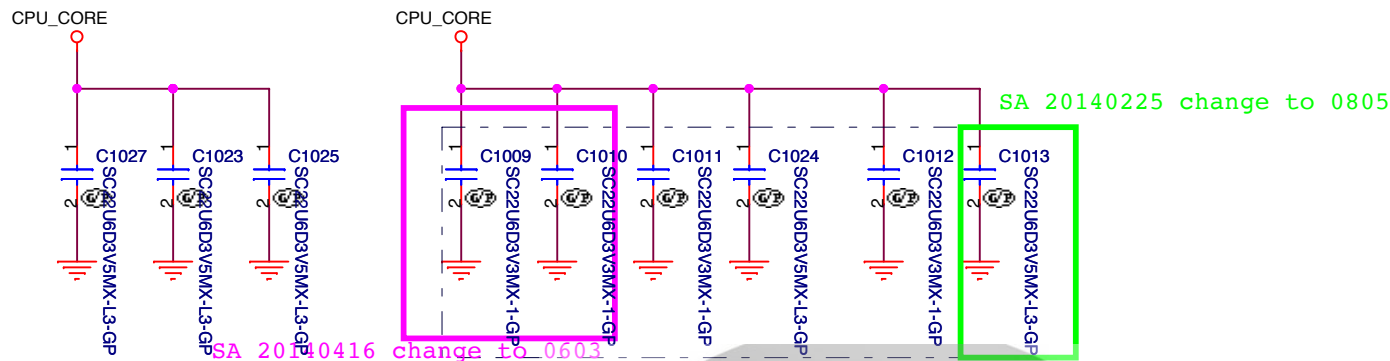
Doc A3	Document Number: EA30_BM
Date:	Tuesday, July 08, 2014

Rev

-1

Date: Tuesday, July 08, 2014 Sheet 9 of 102

Sheet 9 of 102



Cap Modify
(For power)

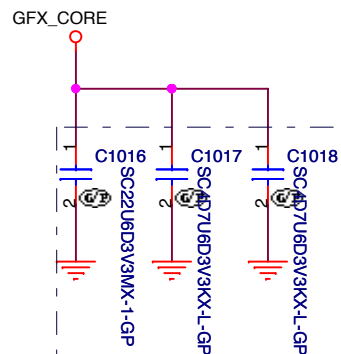
SA 20140225 P7 del close gap

SA 20140225 P7 del close gap



Cap Modify

Cap Modify



Cap Modify
(For power)

Cap Modify
(For power)

Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

No eMMC

緯創資通

Wistron Corporation

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

Title

CPU (Power CAP1)

Size
A4

Document Number

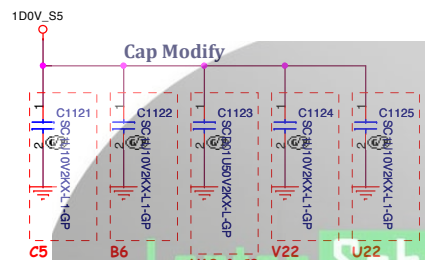
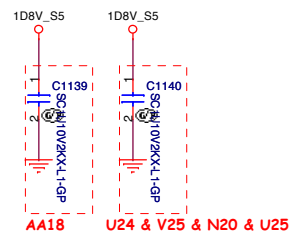
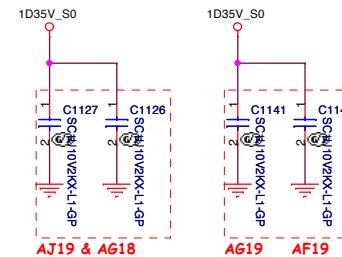
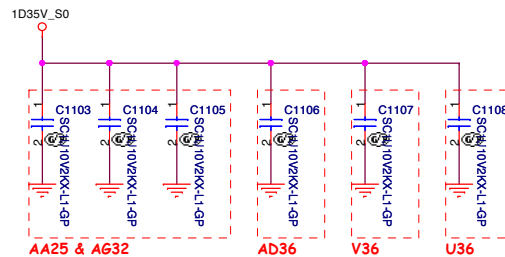
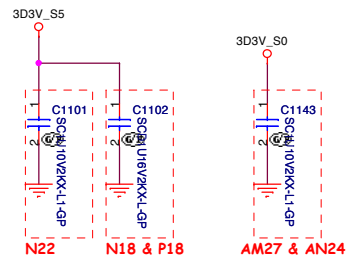
EA30 BM

Rev
-1

Date: Tuesday, July 08, 2014

Sheet 10 of 102

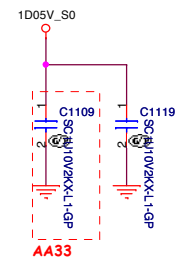
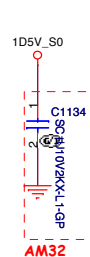
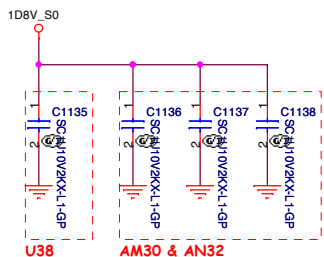
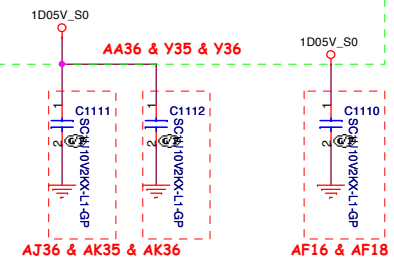
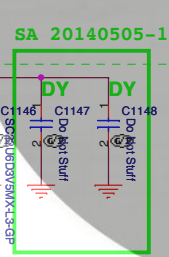
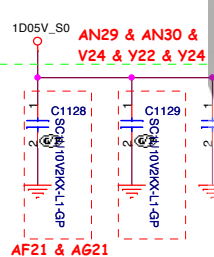
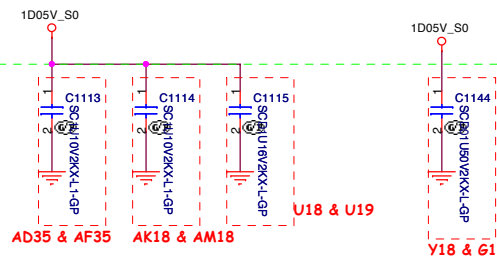
Cap Modify



SA 20140418

www.Telegram.me/schematics_laptop

SA 20140505-1



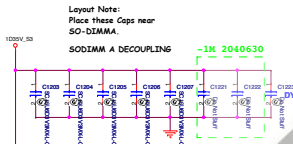
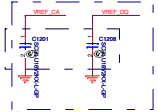
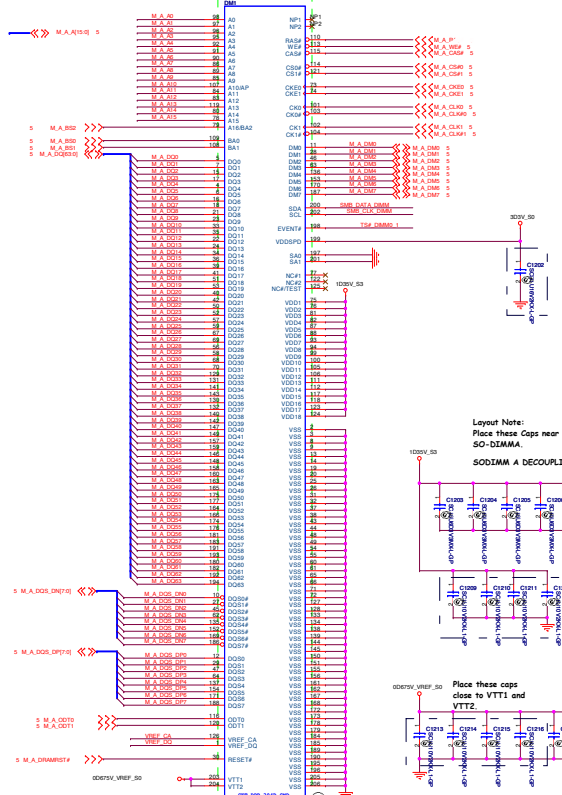
No eMMC

Wistron Confidential document, Anyone can not Duplicate, Modify, Forward or any other purpose application without get Wistron permission

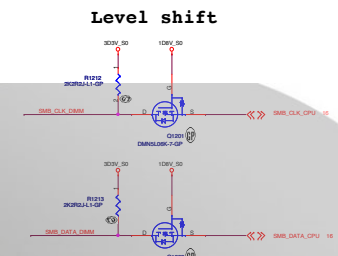
緯創資通 Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.

Title		
CPU (Power CAP2)		
Size A3	Document Number	Rev
	EA30 BM	-1
Date: Tuesday, July 08, 2014	Sheet 11	of 102

SSID = MEMORY



DM1 change part number to 62.10024.S61(13/7/3)
For Intel Recommend Close to DIMM(Bay Trail)



Laptop Schematics

www.Telegram.me/schematics-laptop



Wistron Confidential Document, Anyone can not Duplicate, Modify, Forward or any other purposes application without get Wistron permission



Blanking

Laptop Schematics

www.Telegram.me/schematicslaptop

Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

No eMMC

緯創資通

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

Title

Reserved

Size
A4

Document Number

EA30 BM

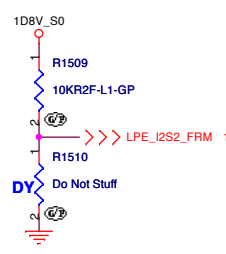
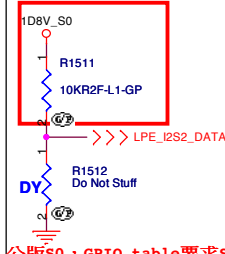
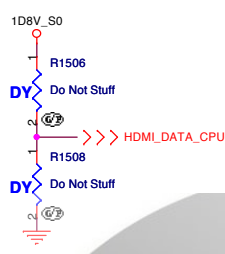
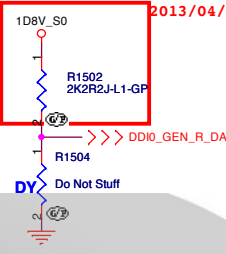
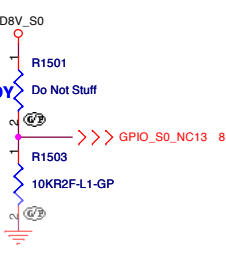
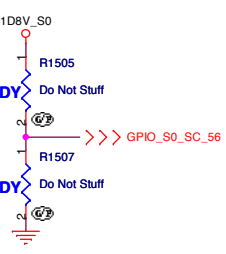
Rev
-1

Date: Tuesday, July 08, 2014

Sheet 14 of 102

SSID = STRAP

STRAP RESISTORS SHOULD BE PLACED OUTSIDE KOZ AREA

Description	BIOS Boot Selection	Security Flash Descriptors	DDI1 Detect	DDI0 Detect	DDI1 Detect	Top swap
GPIO	GPIO_S0_SC[063]	GPIO_S0_SC[065]	DDI1_DDCDATA	DDI0_DDCDATA	MDSI_DDCDATA	GPIO_S0_SC [56]
Schematic						
High	SPI	Normal Operation	RN801 PH DDI1 detected	DDI0 detected	DDI1 detected	
Low	LPC	Override	DDI1 not detected	DDI0 not detected	DDI1 not detected	

2.25 Hardware Straps

All straps are sampled on the rising edge of PMC_CORE_PWROK.

Table 27. Straps

Signal Name	Function	Default	Strap Exit	Strap Description
GPIO_S0_SC[63]	Legacy	1b	PMC_CORE_PWROK de-asserted	BIOS Boot Selection 0 = LPC 1 = SPI
GPIO_S0_SC[65]	Legacy	1b	PMC_CORE_PWROK de-asserted	Security Flash Descriptors 0 = Override 1 = Normal Operation
DDI0_DDCDATA	Display	0b	PMC_CORE_PWROK de-asserted	DDI0 Detect 0 = DDI0 not detected 1 = DDI0 detected
DDI1_DDCDATA	Display	0b	PMC_CORE_PWROK de-asserted	DDI1 Detect 0 = DDI1 not detected 1 = DDI1 detected
MDSI_DDCDATA	Display	0b	PMC_CORE_PWROK de-asserted	DDI1 Detect 0 = DDI1 not detected 1 = DDI1 detected

30.2 LPE_I2S2_DATAOUT/ GPIO_S0_SC[065]ball as Flash Descriptor Security Override

In order to update the entire flash during manufacturing process or as part of a board return flow, the flash Descriptor Security override ball BC30 (GPIO_S0_SC[065]) can be used to unlock the entire SPI flash (override descriptor setting) and to stop the Intel® TXE from accessing SPI.

For full description and implementation data, please refer to the Bay Trail M/D "Manufacturing Recommendations" document, CDI #515108, section #2.6.

27.1.1.2 Hardware Controlled

System hardware, external to the SoC, can be used to assert or de-assert the Top-Swap strapping input signal. If the signal is sampled as being asserted during power-up then Top-Swap is active.

Note: The Top-Swap strap is an active high signal and is multiplexed with the GPIO_S0_SC[56] signal.

Wistron Confidential document, Anyone can not Duplicate, Modify, Forward or any other purpose application without get Wistron permission

No eMMC

緯創資通		Wistron Corporation	
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title			
CPU(STRAP)			
Size A3	Document Number	Rev	
	EA30 BM	-1	
Date: Tuesday, July 08, 2014	Sheet 15	of 102	

SSID = PCH

USB Table

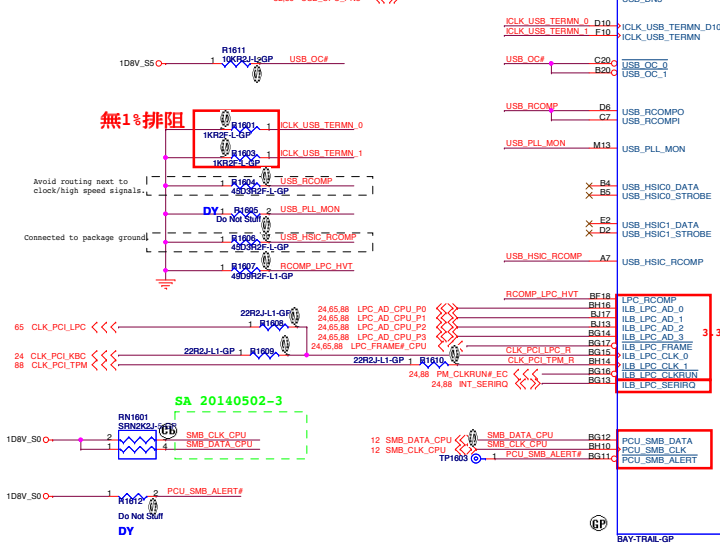
Pair	Device
0	USB3.0 Port 0(USB2.0)
1	USB 2.0 (debug port)
2	WiFi + BT
3	Camera

USB 3.0

USB 2.0

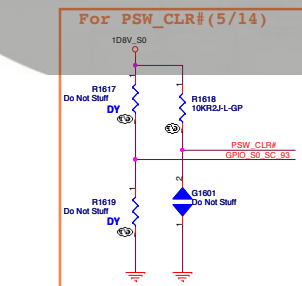
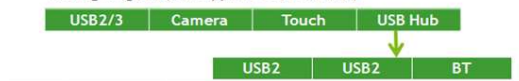
Wifi + B

Camera



USB Port Routing Guide for Bay Trail-M

WO/ Lighting Bolt(Can support 3 USB I/O Ports)



SSID = PCH

Blanking

Laptop Schematics

www.Telegram.me/schematics_laptop

Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
No eMMC application without get Wistron permission

緯創資通

Wistron Corporation

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

Title

CPU (DMI/FDI/PM)

Size
A4

Document Number

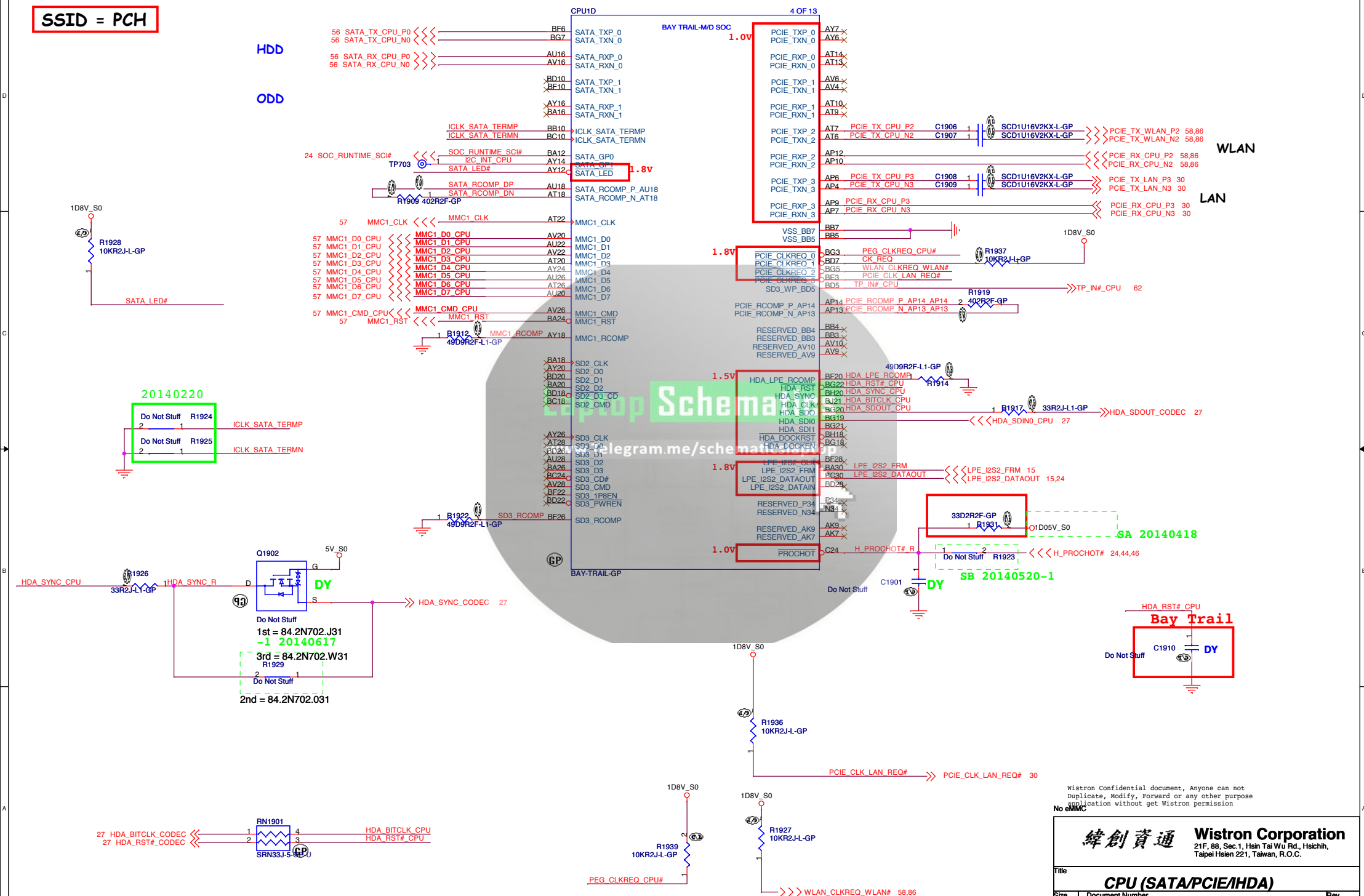
EA30 BM

Rev
-1

Date: Tuesday, July 08, 2014

Sheet 17 of 102

SSID = PCH



Wistron Confidential document, Anyone can not Duplicate, Modify, Forward or any other purpose application without get Wistron permission

緯創資通 **Wistron Corporation**
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title			
CPU (SATA/PCIE/IHDA)			
Size A3	Document Number		Rev
	EA30 BM		-1
Date:	Tuesday, July 08, 2014	Sheet	19 of 102

SSID = PCH

Blanking

Laptop Schematics

www.Telegram.me/schematics_laptop



Wistron Confidential document, Anyone can not Duplicate, Modify, Forward or any other purpose application without get Wistron permission

No eMMC

<div>緯創資通Wistron Corporation</div> <div>21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.</div>		
Title		
Reserved		
Size A4	Document Number EA30 BM	Rev -1
Date: Tuesday, July 08, 2014		Sheet 20 of 102

Blanking

Laptop Schematics

www.Telegram.me/schematicslaptop



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

No eMMC

緯創資通

Wistron Corporation

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

Title

Reserved

Size
Custom

Document Number

EA30 BM

Rev
-1

Date: Tuesday, July 08, 2014

Sheet 22 of 102

SSID = PCH

Blanking

Laptop Schematics

www.Telegram.me/schematicslaptop

Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

No eMMC

緯創資通

Wistron Corporation

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

Title

CPU (VSS)

Size
Custom

Document Number

EA30 BM

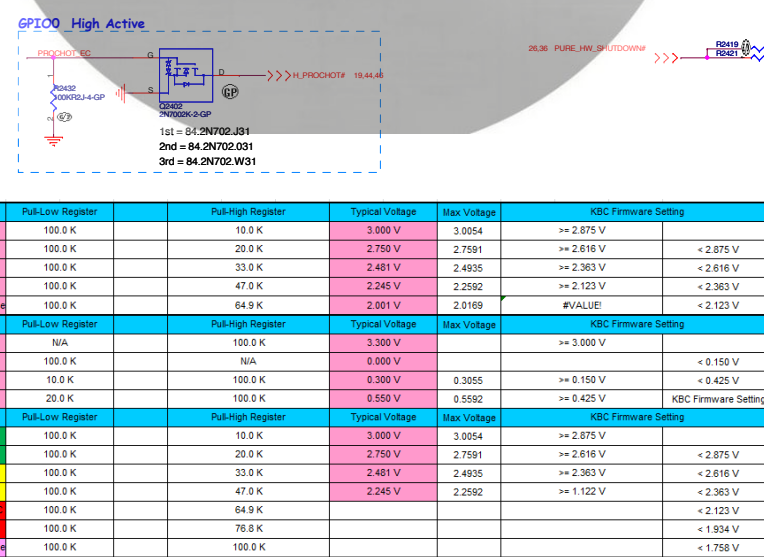
Rev

-1

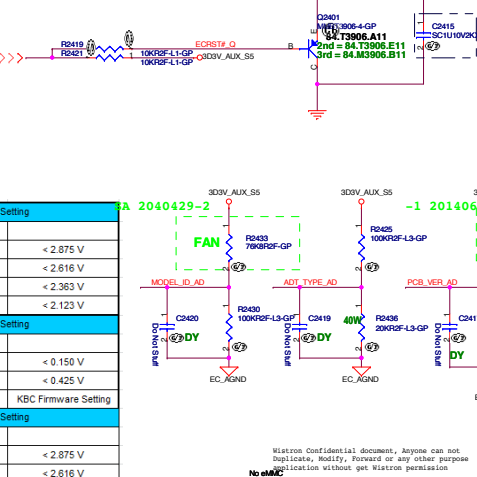
Date: Tuesday, July 08, 2014

Sheet 23 of 102

1

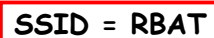


-1 201406



KBC NPCE781LA

SP1 FLASH ROM (8M бYTE) иc- PCH

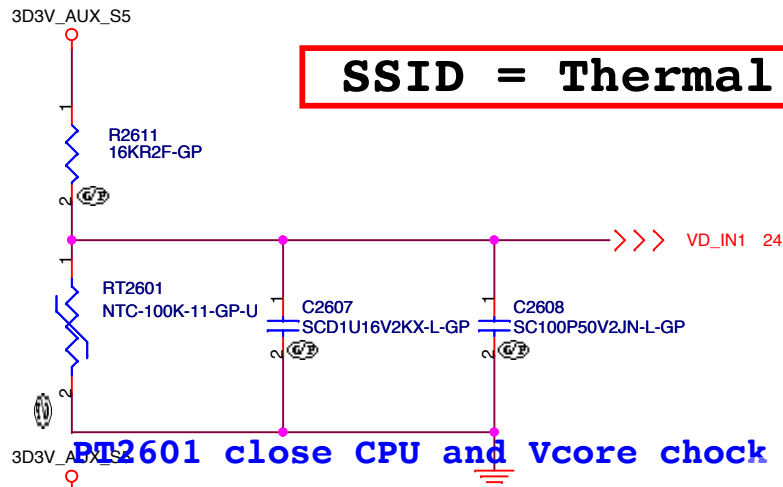


72.25010.N01

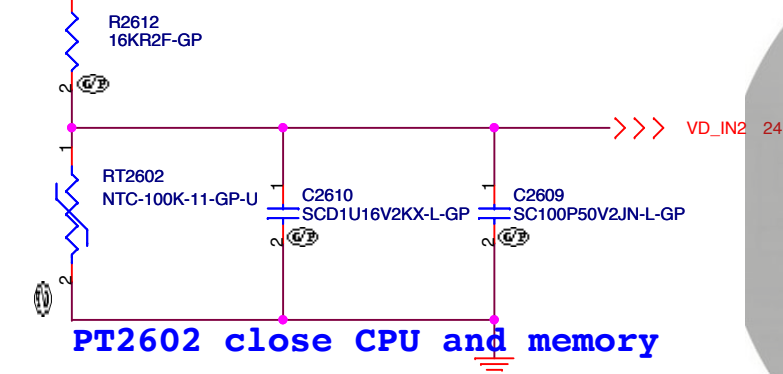
緯創資通 **Wistron Corporation**
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title			
Flash(KBC+PCH)/RTC			
Size A3	Document Number		Rev
	EA30 BM		-1
Date:	Tuesday, July 08, 2014	Sheet	25 of 102

SSID = Thermal



PT2601 close CPU and Vcore chock

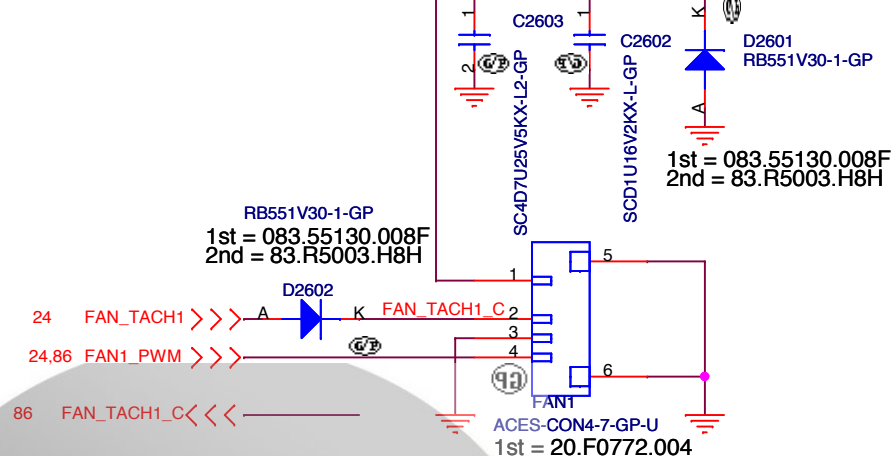


PT2602 close CPU and memory

Laptop Schematics

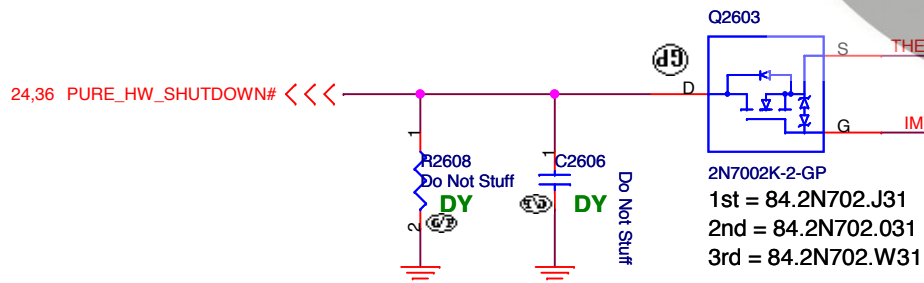
www.Telegram.me/schematics_laptop

***Layout* 15 mil**



SB 20140520-1

SB 20140520-1



No eMMC

緯創資通

Wistron Corporation

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

Title

G788P81/Fan Controller P2793

Size
A4

Document Number

EA30 BM

Rev
-1

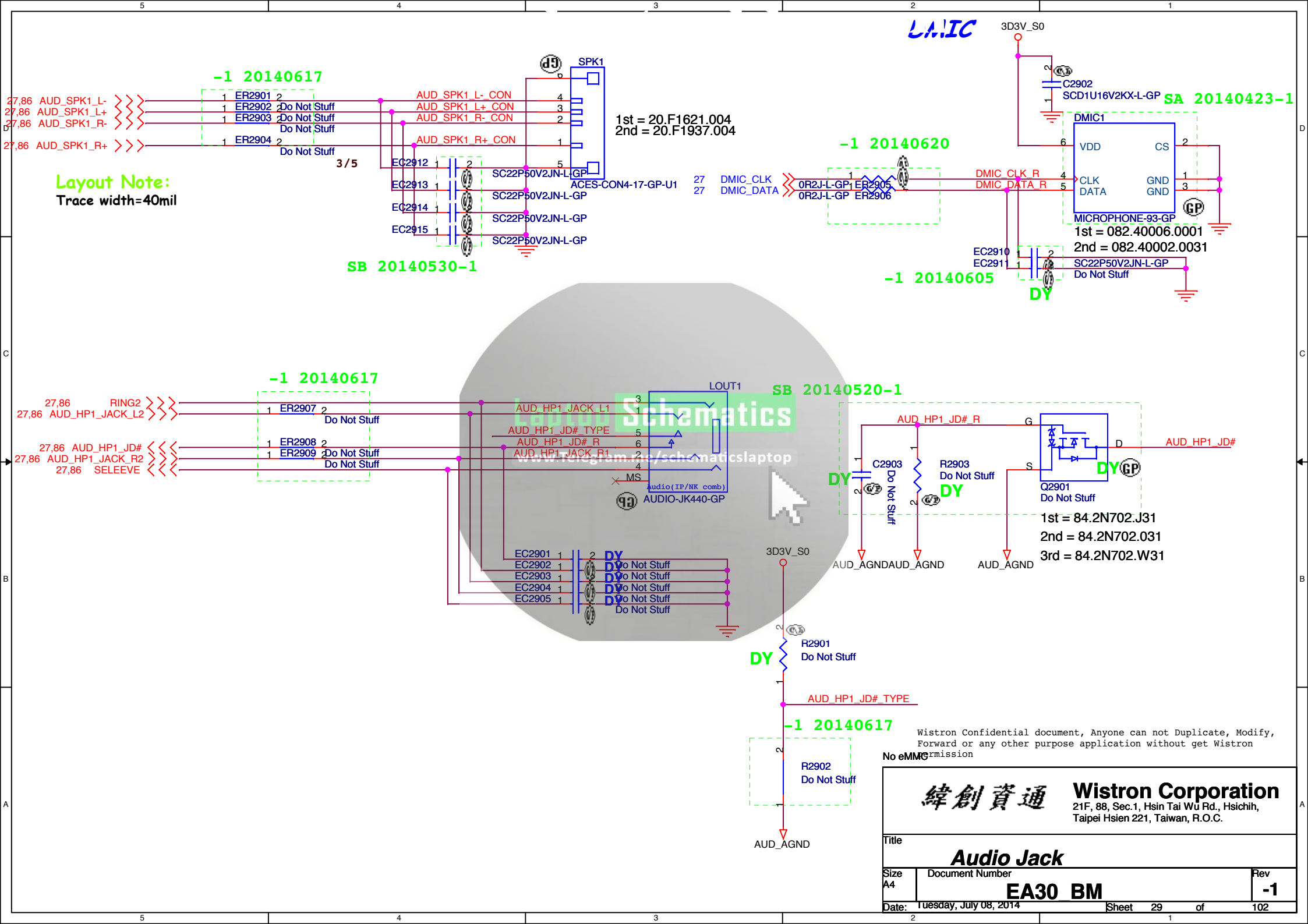
Date: Tuesday, July 08, 2014

Sheet 26 of 102



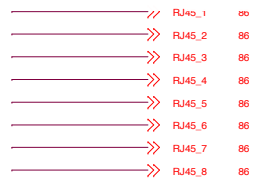
Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
No duplication without get Wistron permission

緯創資通		Wistron Corporation	
		21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
Audio AMP 1001			
Size	Document Number		Rev
A4	EA30 BM		-1
Date: Tuesday, July 08, 2014		Sheet 28 of	102

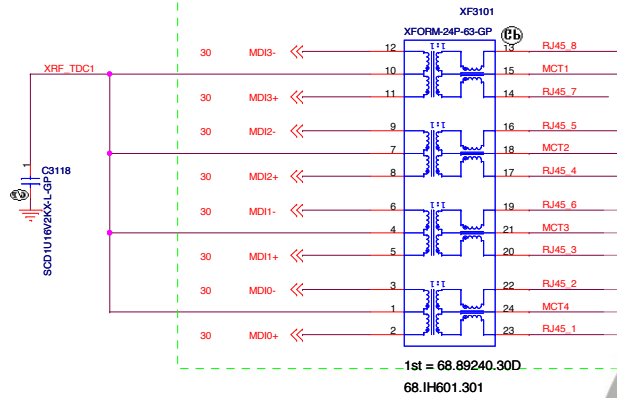


SSID = LAN

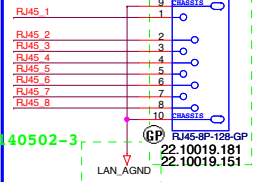
SB 20140528-1



SA 2040428-1



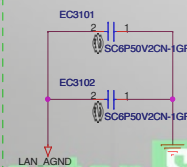
-1M 20140630



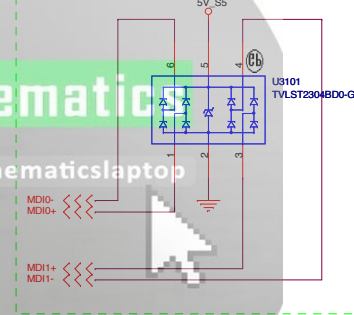
SA 20140502-3

LAN RJ45 connector

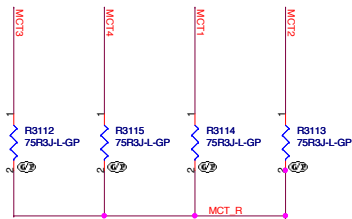
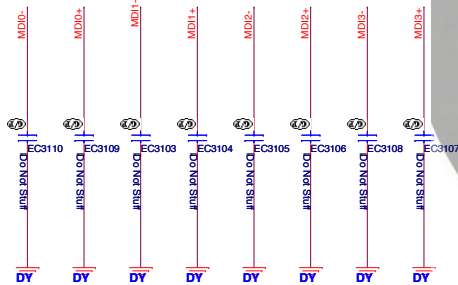
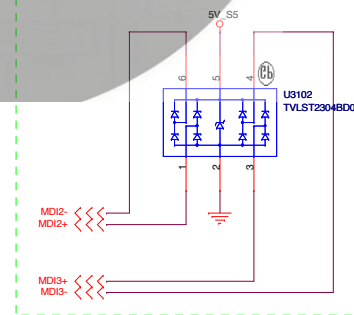
SA 20140506-2



SA 20140423-1



SA 20140423-1



SA 20140502-1

No eMMC

緯創資通 Wistron Corporation	
21F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title (LAN+VGA) CONNECTOR	
Size Custom	Document Number EA30 BM
Date 1/8/2014, July 06, 2014	Sheet 31 of 102
Rev -1	

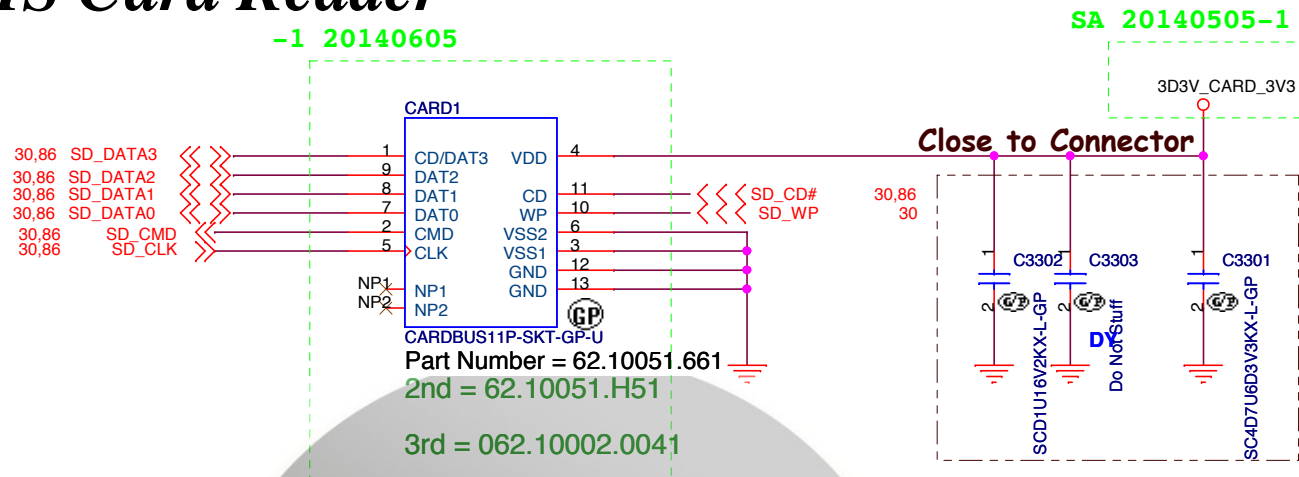


Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission
No eMMC

緯創資通		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
RTS5229(CARD READER)			
Size A4	Document Number EA30 BM		Rev -1
Date: Tuesday, July 08, 2014		Sheet 32 of	102

SSID = SDIO

SD//MS Card Reader



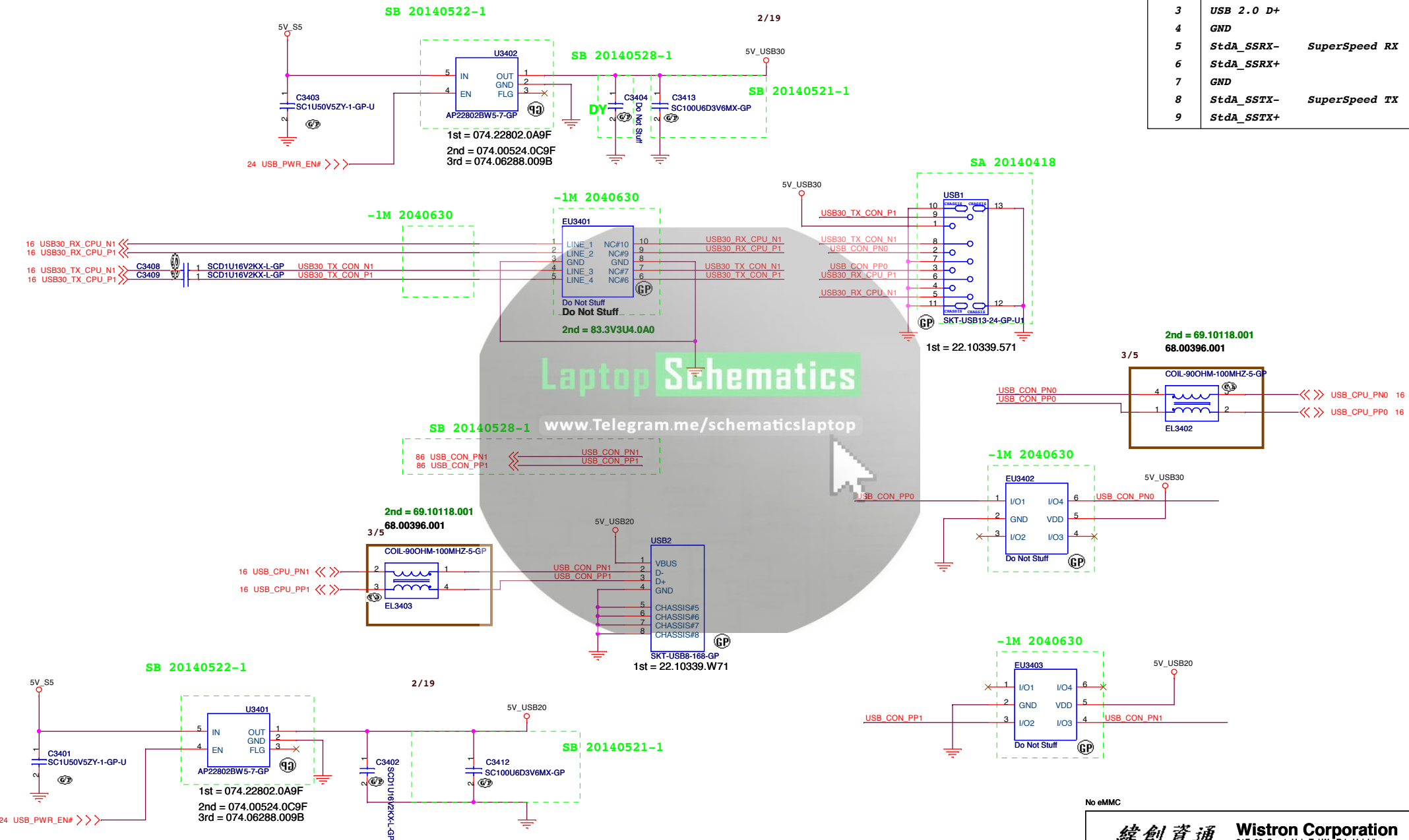
Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

No eMMC

緯創資通		Wistron Corporation	
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title			
CARD Reader CONN			
Size	Document Number	Rev	
Custom	EA30 BM	-1	
Date:	Tuesday, July 08, 2014	Sheet	33 of 102

USB 3.0 Connector Pin definition

1	POWER	
2	USB 2.0 D-	
3	USB 2.0 D+	
4	GND	
5	StdA_SSRX-	SuperSpeed RX
6	StdA_SSRX+	
7	GND	
8	StdA_SSTX-	SuperSpeed TX
9	StdA_SSTX+	



No eMMC

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

Title USB 2.0/3.0 Port		
Size A3	Document Number EA30 BM	Rev -1
Date: Tuesday, July 08, 2014	Sheet 34 of 102	



No eMMC

緯創資通		Wistron Corporation	
		21F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
USB CHARGER			
Size	Document Number		Rev
A3	EA30 BM		-1
Date:	Tuesday, July 08, 2014	Sheet 35 of	102

Power Sequence

Table 55. S4/S5 to S0 (Power Up) Sequence

Parameter		Min	Max	Unit	Notes
T0	RTC_VCC to ILB_RTC_TEST# de-assertion	9		ms	
T1	V3P3A valid to PMC_RSMRST# de-assertion	10		us	
T2	Core well stable to DRAM_CORE_PWROK and PMC_CORE_PWROK assertion	100		ms	
T3					

ALL_SYS_PWRGD

13/8/22 To EC

DDR3_VCCA_PWRGD

DDR3_DRAM_PWROK

From EC SB 20140520-1

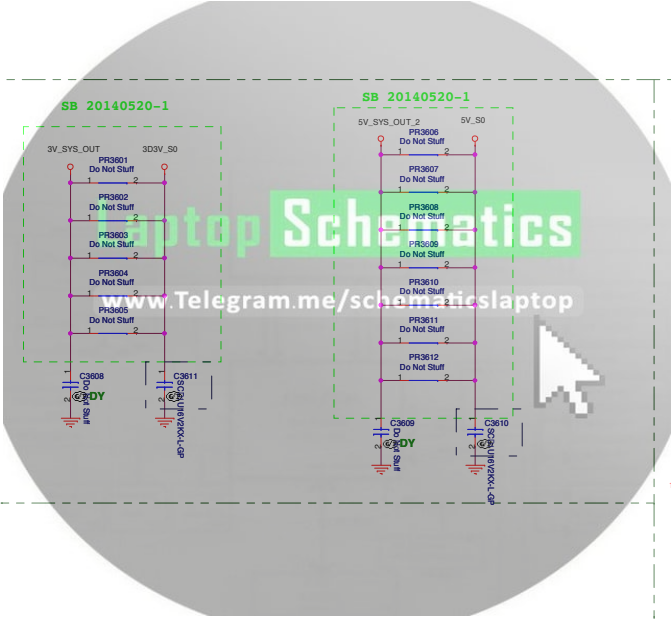
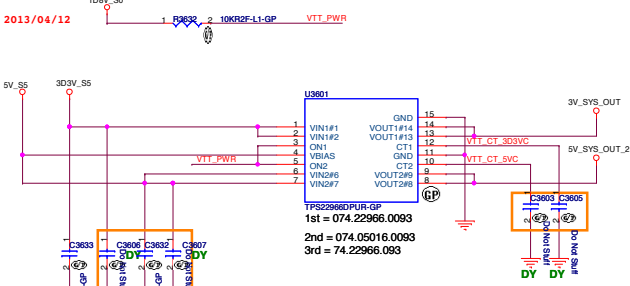
Delay 104ms with ALL_SYS_PWROK

COREPWROK

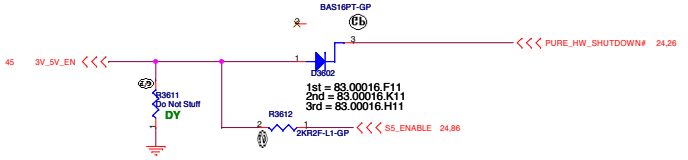
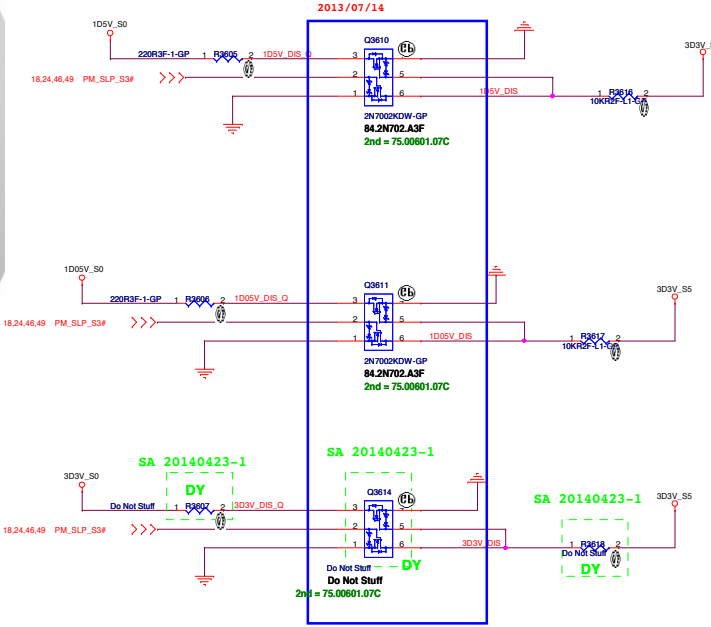
ANNIE Run Power

13/9/18

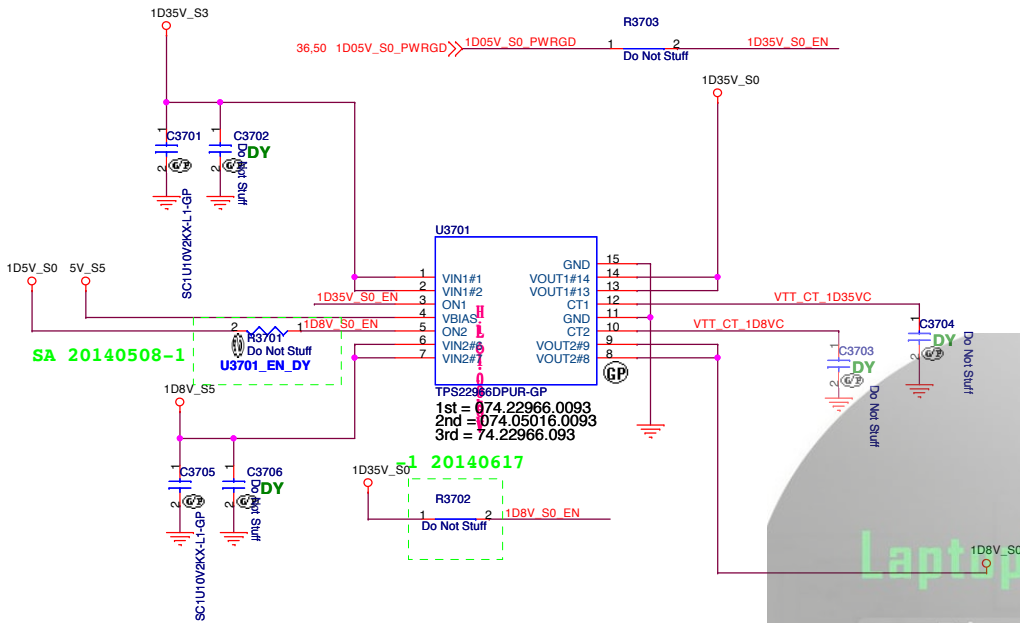
2013/04/09



Discharge circuit



Wistron Confidential document, Anyone can not Duplicate, Modify, Forward or any other purpose application without get Wistron permission



No eMMC

Title			
ADAPTER OCP / S3 reduction			
Size A3	Document Number		Rev
	EA30 BM		-1
Date:	tuesday, July 08, 2014	Sheet 37 of	102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

No eMMC

緯創資通		Wistron Corporation	
		21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
DS3			
Size A4	Document Number EA30 BM		Rev -1
Date: Tuesday, July 08, 2014		Sheet 38	of 102

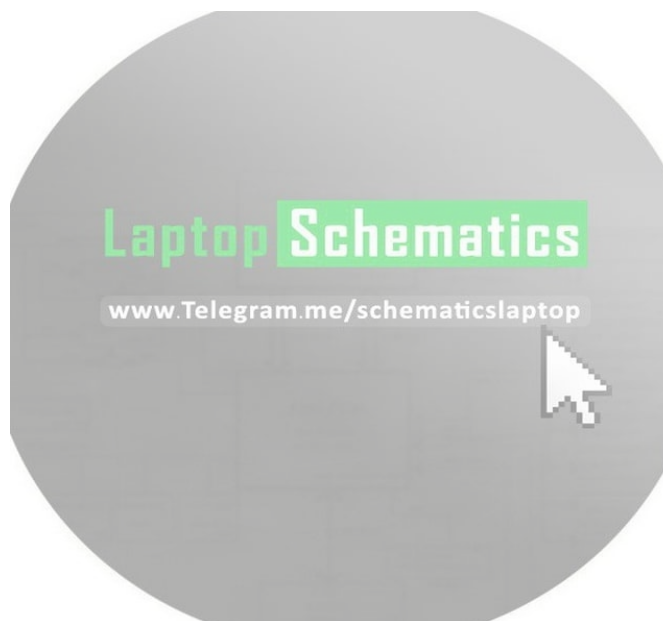
Power Sequence



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
Application without get Wistron permission

No eMMC

緯創資通		Wistron Corporation	
		21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
1D05 M			
Size	Document Number		Rev
Custom	EA30 BM		-1
Date:	Tuesday, July 08, 2014	Sheet 39	of 102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission
No eMMC

緯創資通		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title Connected Standby1			
Size A	Document Number EA30 BM		Rev -1
Date: Tuesday, July 08, 2014		Sheet 40 of	102



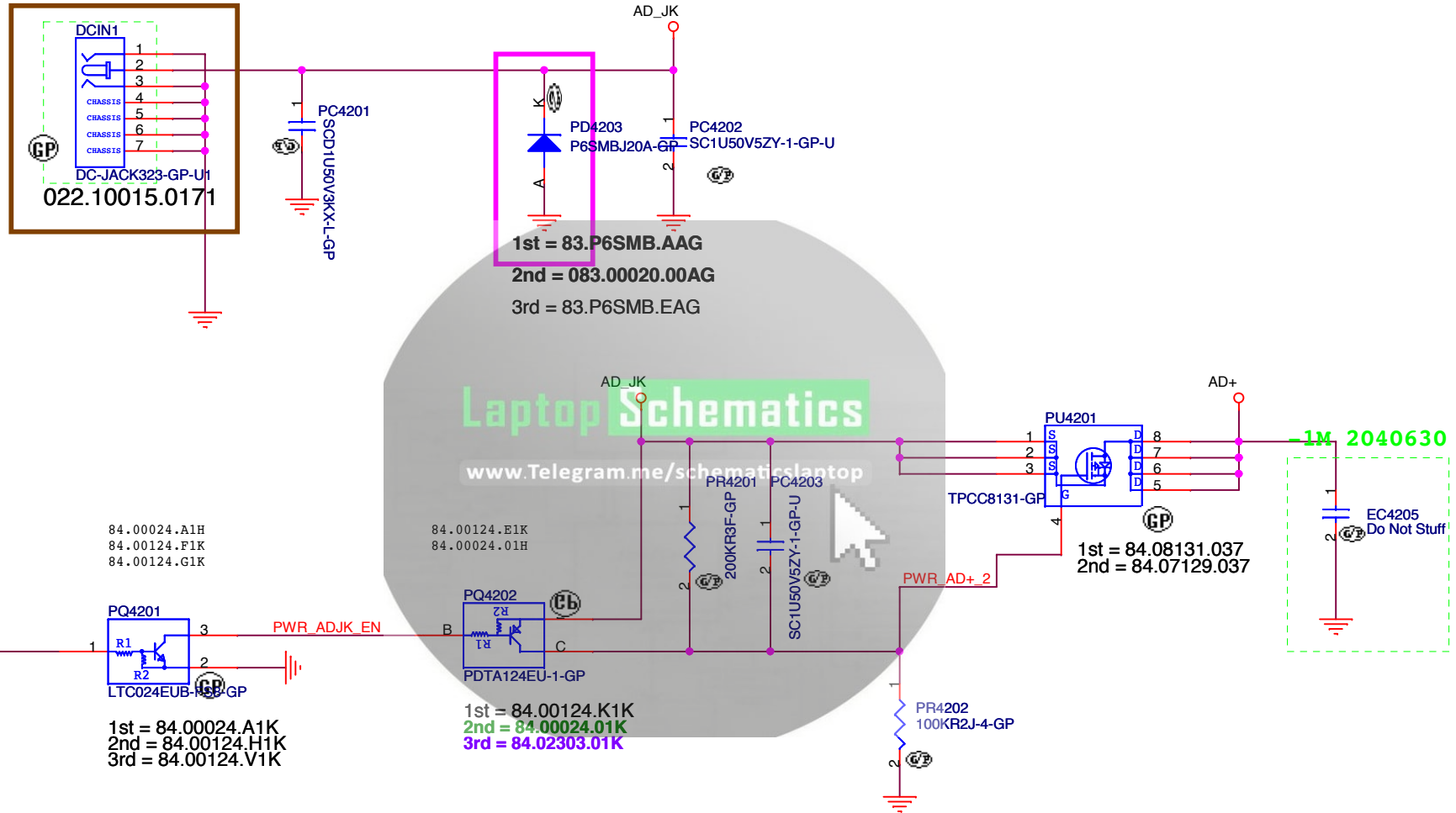
Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission
No eMMC

緯創資通		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title Connected Standby2			
Size A	Document Number EA30 BM		Rev -1
Date: Tuesday, July 08, 2014	Sheet	41	of 102

ANNIE solution

Adaptor in to generate DCBATOUT

3/4 SA 20140418



vic0103

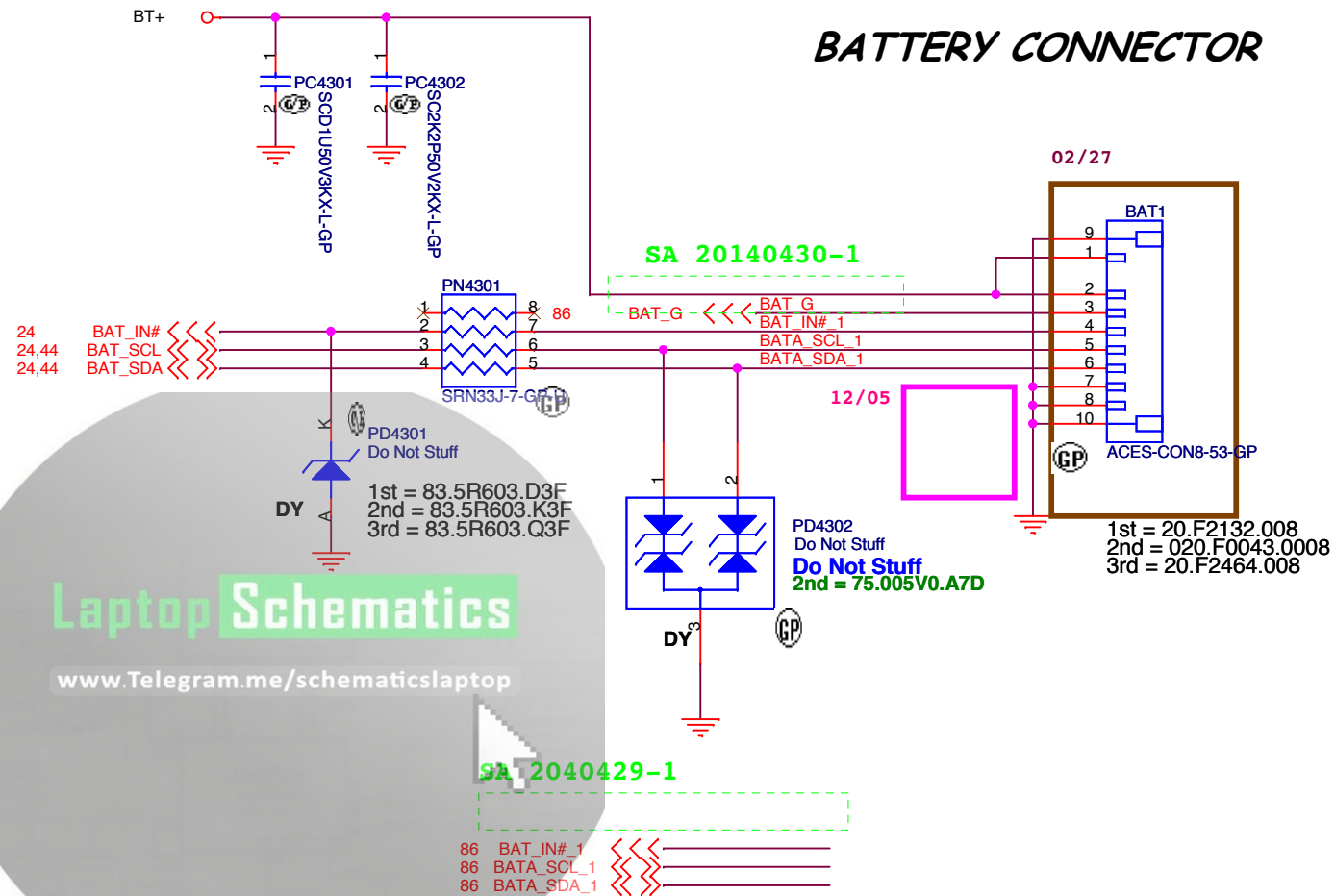
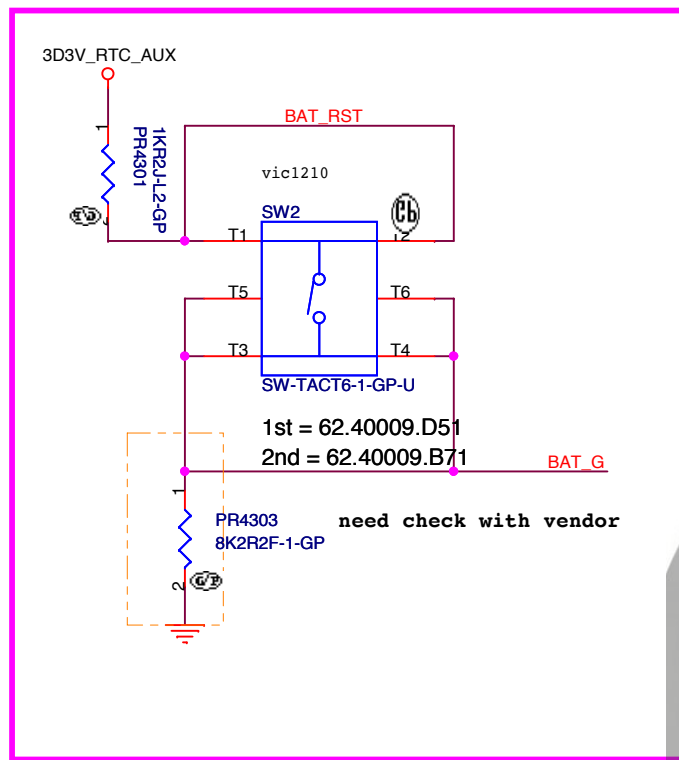


DC IN connector

Wistron Confidential document, Anyone can not Duplicate, Modify, Forward or any other purpose application without get Wistron permission

No eMMC

<p>緯創資通 Wistron Corporation</p> <p>21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.</p>	
Title	
DCIN JACK	
Size	Document Number
A4	EA30 BM
Date:	Rev
Tuesday, July 08, 2014	-1
Sheet	of
42	102



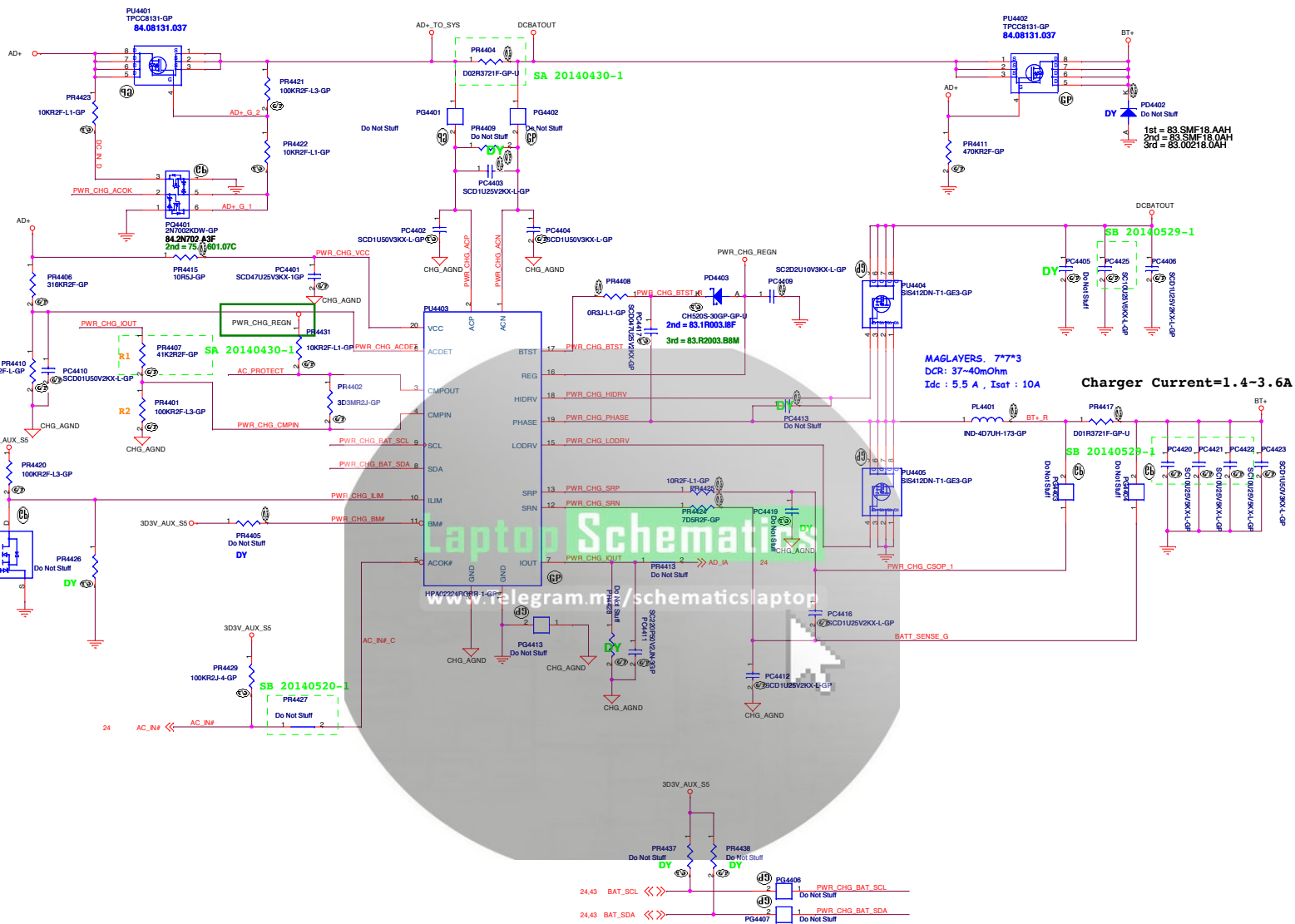
Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

No eMMC

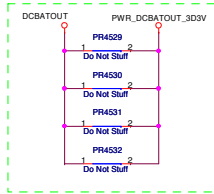
緯創資通		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
BATT CONN			
Size A4	Document Number EA30 BM		Rev -1
Date: Tuesday, July 08, 2014		Sheet 43 of	102

SSID = Charger

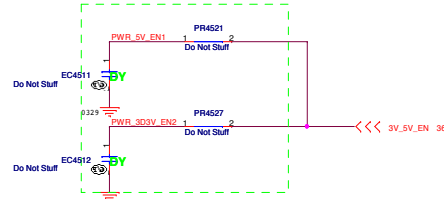
AD+ total power	R1	R2
40W	41.2K	100K



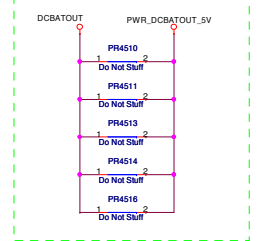
SB 20140520-1



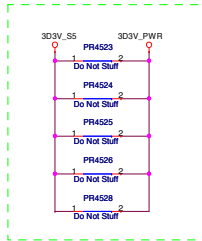
-1 20140617



SB 20140520-1



SB 20140520-1



Design Current=4.5A
7.2A < OCP < 12A

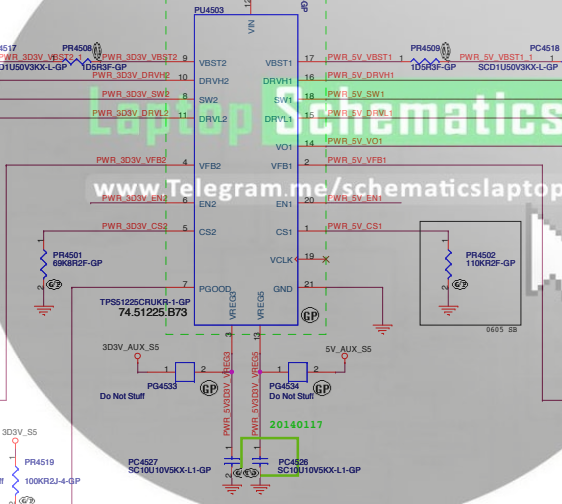
MAGLAYERS, 7*7*3
DCR: 18-20mOhm
I_{dc} : 8.0 A , I_{sat} : 14.0A

$$V_{out} = 2 * (1 + R1/R2) \\ = 2 * (1 + (6.5K/10K)) \\ = 3.33V$$

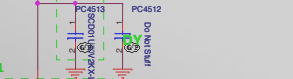
Close to VFB2 Pin (pin4)

51 3V_SV_POK <<< 3V_POK

SB 20140528-1



SA 20140430-1



SB 20140529-1



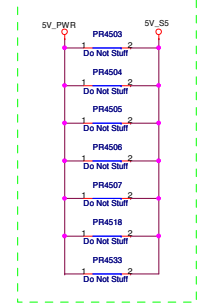
MAGLAYERS, 7*7*3
DCR: 18-20mOhm
I_{dc} : 8.0 A , I_{sat} : 14.0A

Design Current=5.21A
8.6A < OCP < 14.4A

$$V_{out} = 2 * (1 + R1/R2) \\ = 2 * (1 + (15K/10K)) \\ = 5V$$

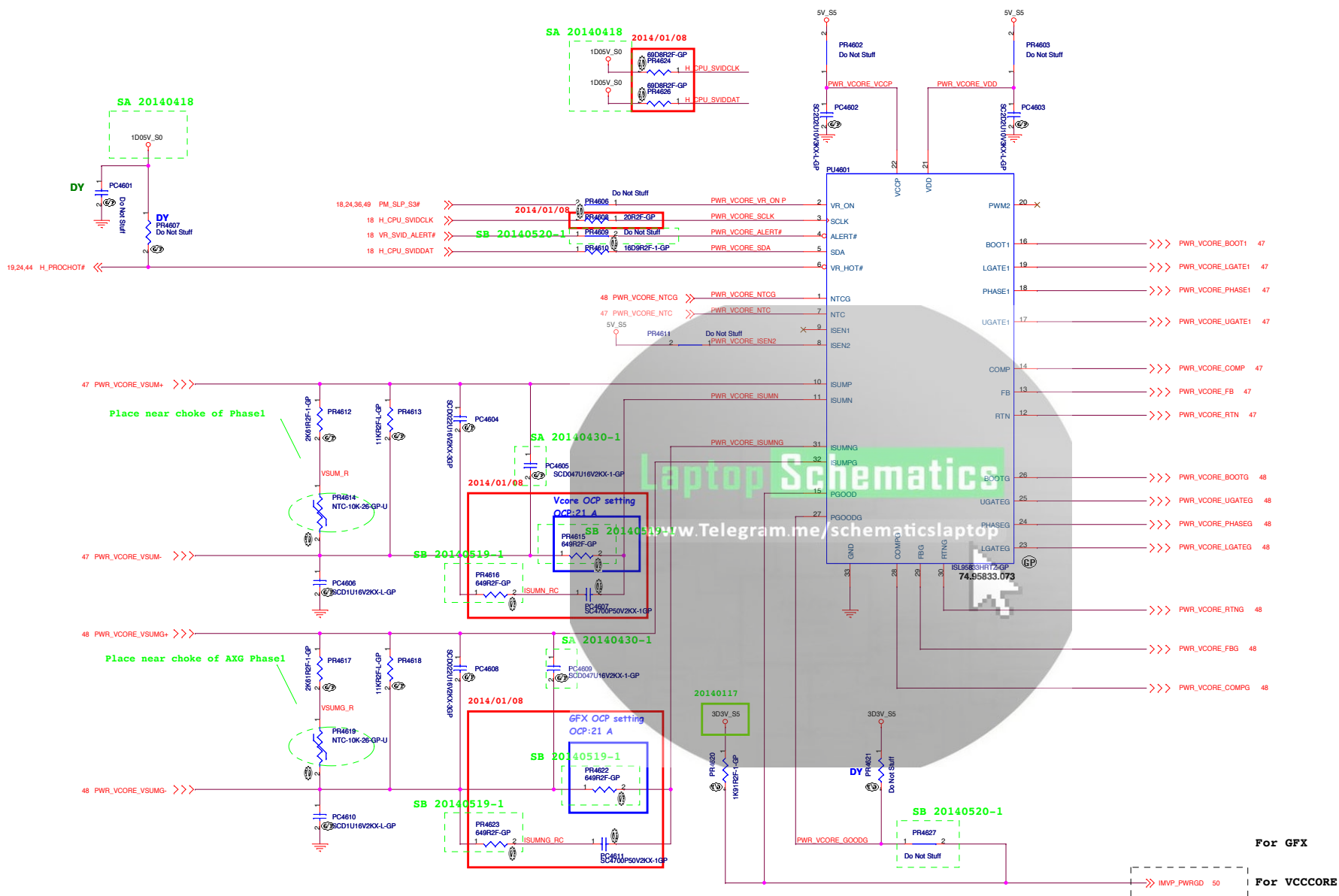
Close to VFB1 Pin (pin2)

SB 20140520-1



No eMMC

SSID = CPU.Regulator

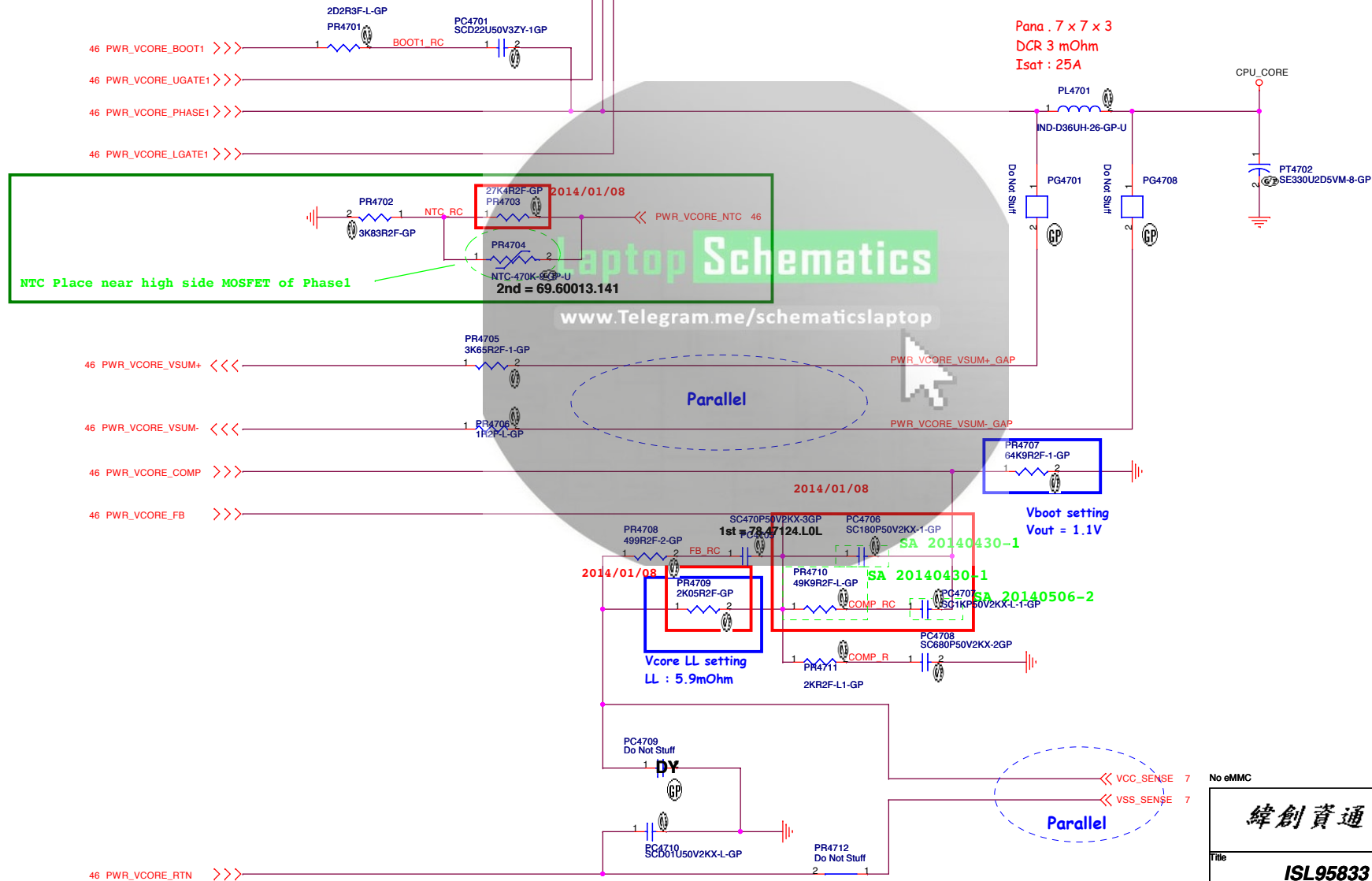


No eMMC

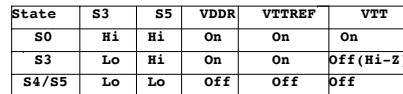
緯創資通

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

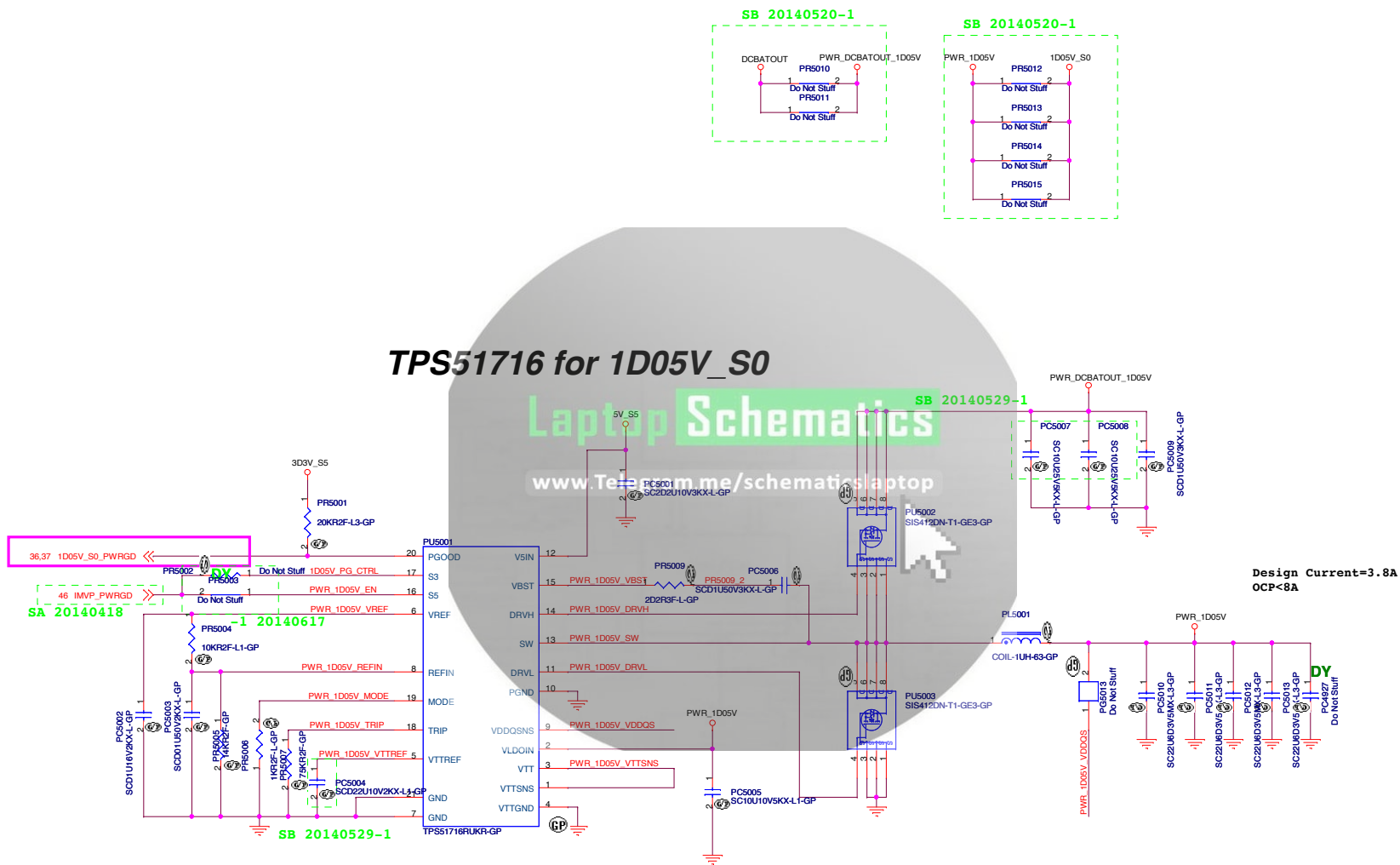
Title			
ISL95833 CPUCORE(1/3)			
Size C	Document Number		Rev
	EA51 BM		-1
Date:	Tuesday, July 08, 2014	Sheet 46 of	102



RT8231 for VDDQ



SSID = PWR.Plane.Regulator_1p05v



State	S3	S5	VDDR	VTTREF	VTT
S0	Hi	Hi	On	On	On
S3	Lo	Hi	On	On	Off (Hi-2)
S4/S5	Lo	Lo	Off	Off	Off

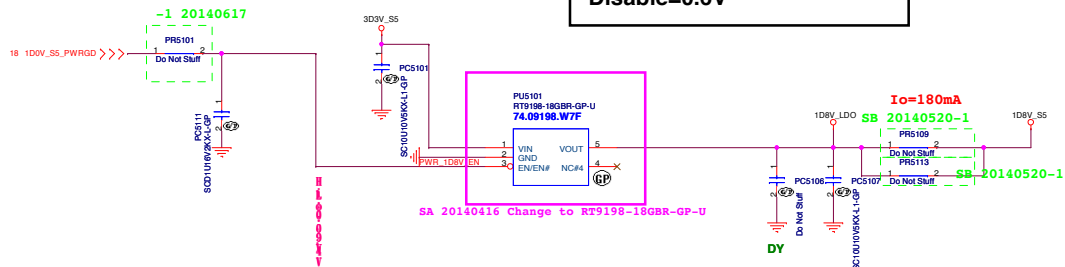
MODE

PR5006	Frequency	Discharge Mode
33k ohm	500kHz	Non-tracking Discharge
22k ohm	670kHz	
12k ohm	670kHz	Tracking Discharge
1k ohm	500kHz	

No eMMC

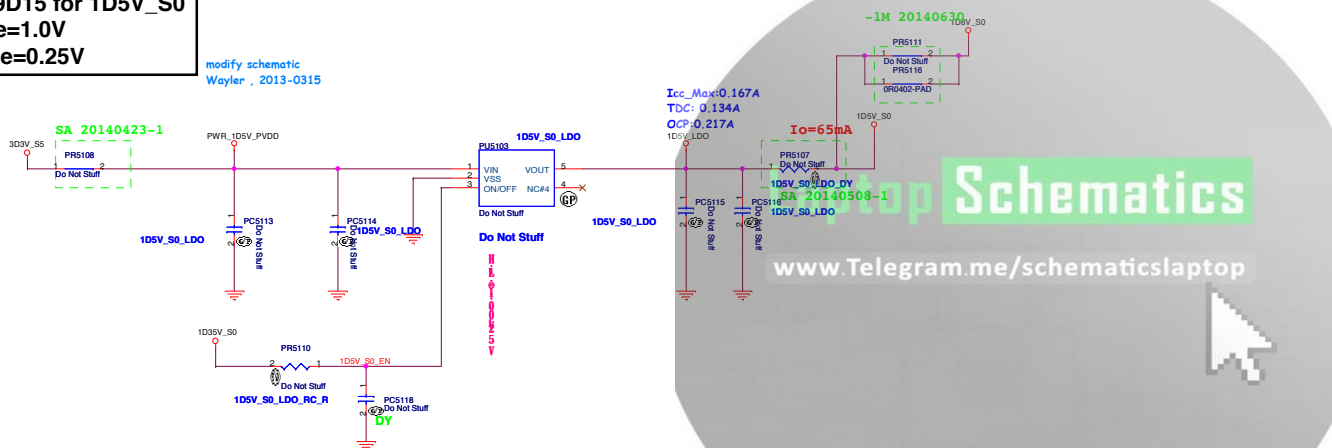
```
SSID = PWR.Plane.Regulator_1p8v
```

TLV70218DBVR for 1D8V_S5
Enable=0.9V
Disable=0.6V



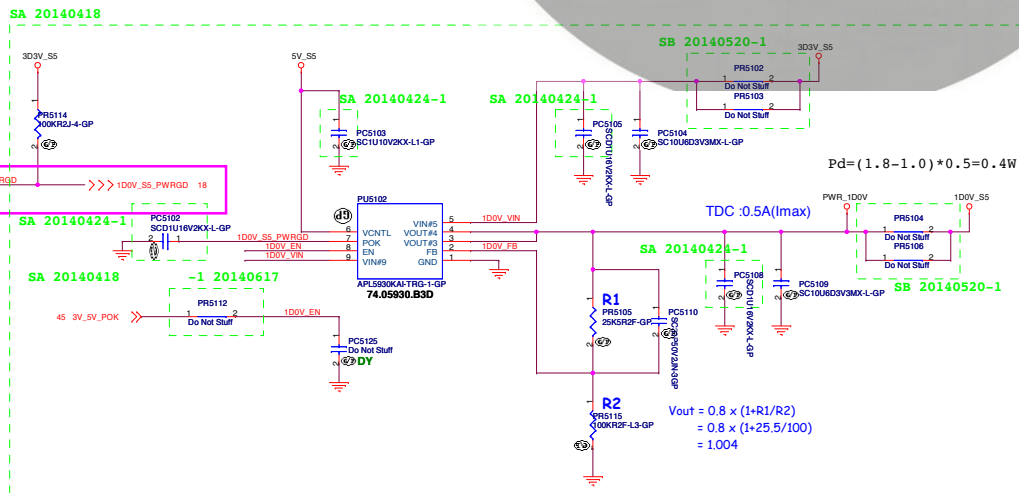
S-1339D15 for 1D5V_S0
Enable=1.0V
Disable=0.25V

modify schematic
Wayler , 2013-0315



20140418 Change to LDO

APL5930 for 1D0V_S5
Enable=1.1V
Disable=0.5V

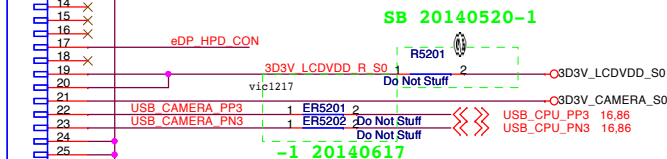
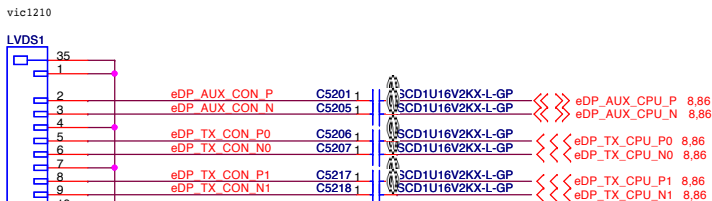


No eMMC

緯創資通 **Wistron Corporation**
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

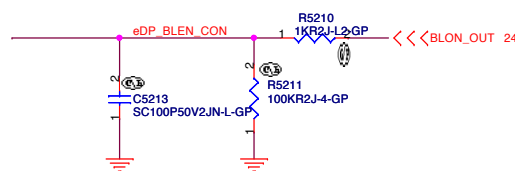
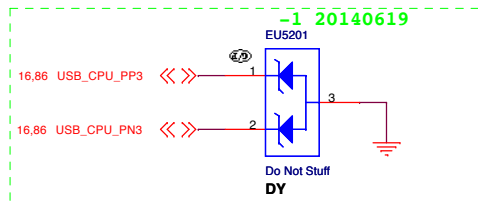
Title			
LDO 1D8V&1D5V(SYW232)			
Size A2	Document Number	Rev	
	EA51 BM	-1	
Date:	Tuesday, July 08, 2014	Sheet	51 of 102

SSID = VIDEO

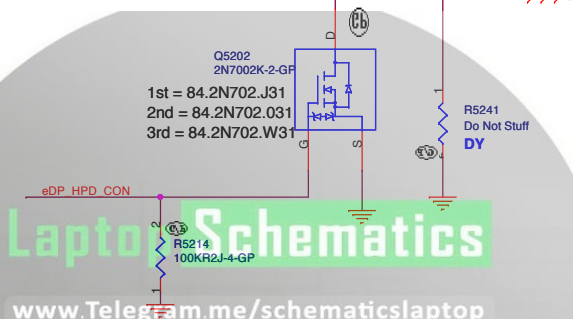


1st = 20.K0809.034
2nd = 20.K0678.034

EDP connector

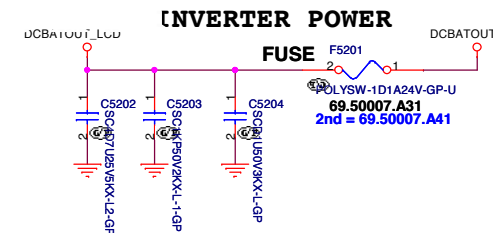


Level shift

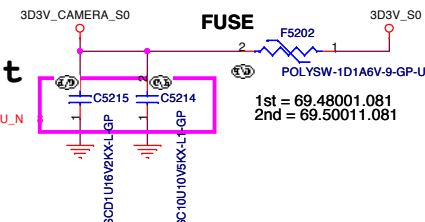


Laptop Schematics

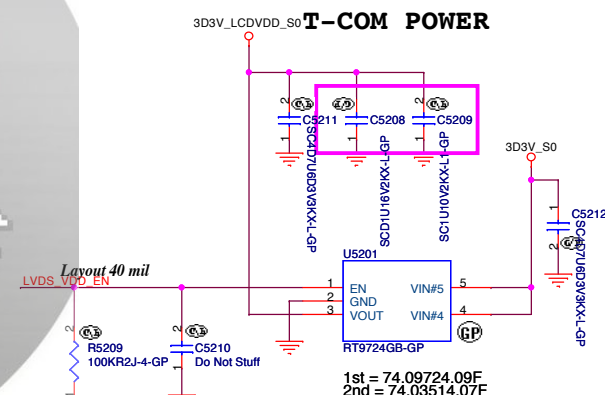
www.Telegram.me/schematics_laptop



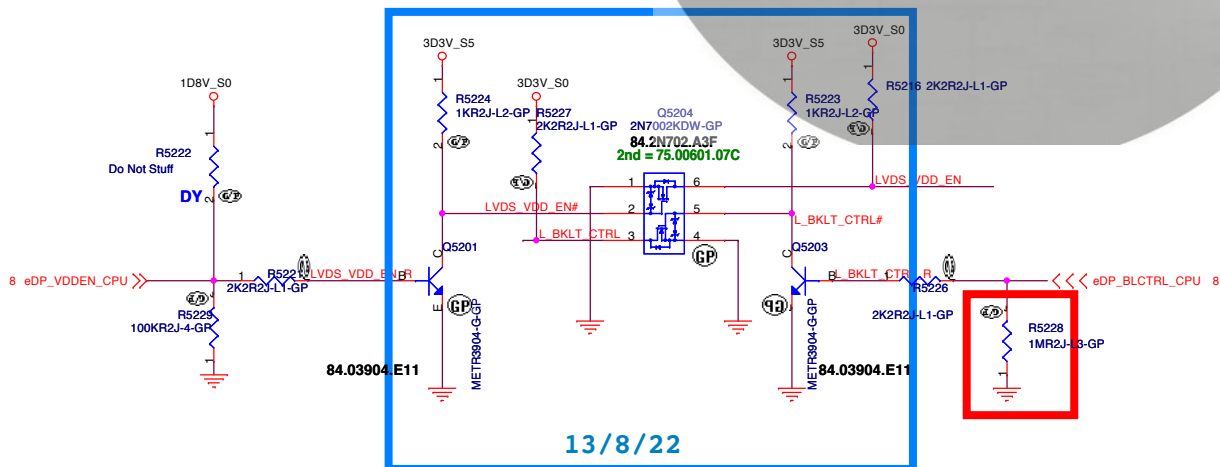
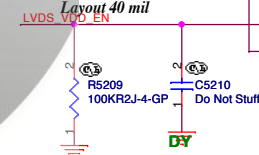
Camera Power



T-COM POWER



Layout 40 mil



Wistron Confidential document, Anyone can not Duplicate, Modify, Forward or any other purpose application without get Wistron permission

No eMMC

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

Title			
EDP Connector			
Size A3	Document Number	Rev	
	EA30 BM	-1	
Date: Tuesday, July 08, 2014	Sheet 52	of	102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

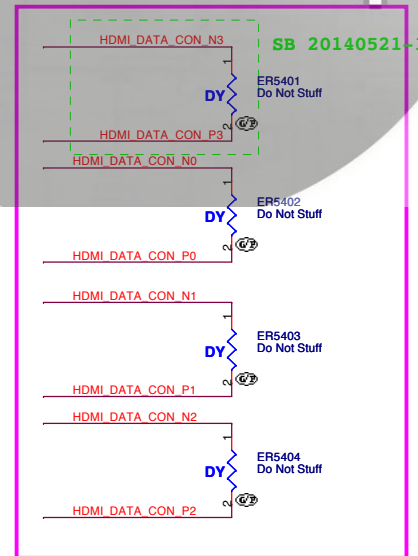
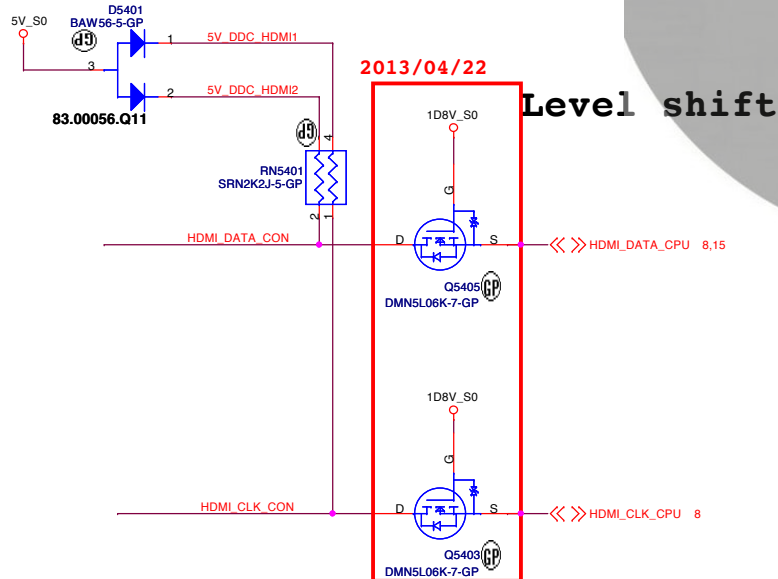
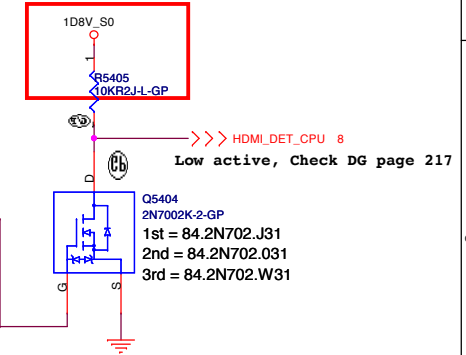
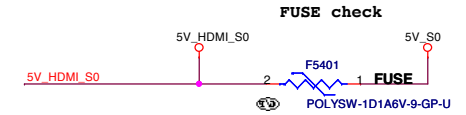
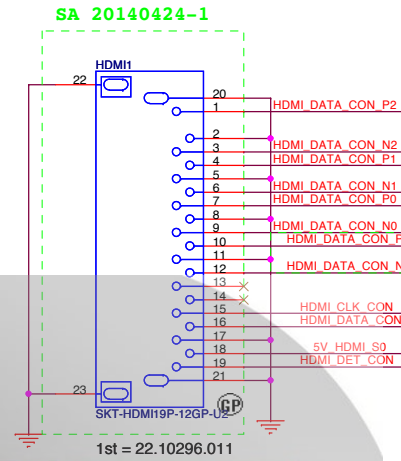
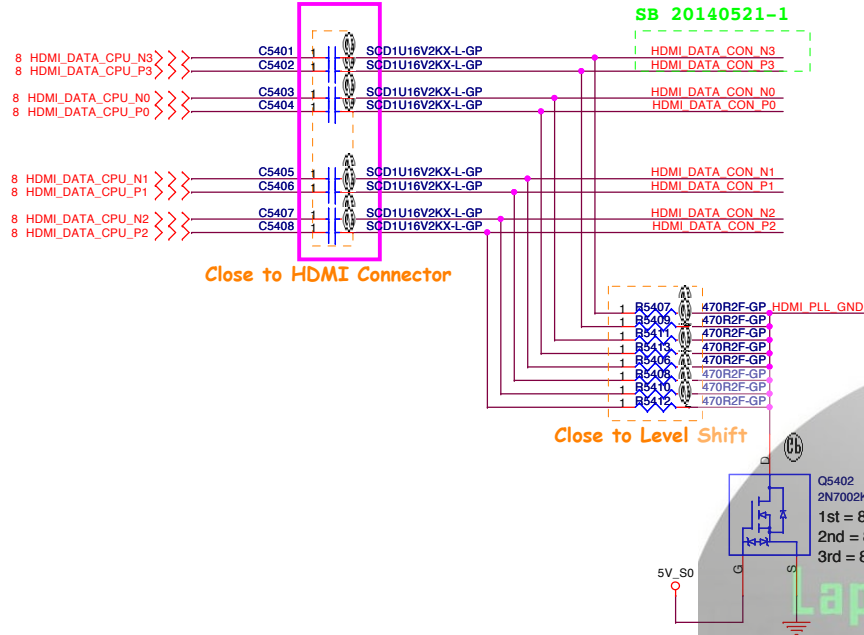
No eMMC

緯創資通		Wistron Corporation	
		21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
CRT Board Connector			
Size	Document Number		Rev
A3	EA30 BM		-1
Date:	Tuesday, July 08, 2014	Sheet 53 of	102

SSID = VIDEO

HDMI Level Shifter & CONNECTOR

HDMI CONN



Wistron Confidential document, Anyone can not Duplicate, Modify, Forward or any other purpose application without get Wistron permission

No eMMC

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

Title		
HDMI Level Shifter/Connector		
Size	Document Number	Rev
A3	EA30 BM	-1
Date:	Tuesday, July 08, 2014	Sheet 54 of 102



No eMMC

緯創資通		Wistron Corporation	
		21F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
Display Port			
Size	Document Number		Rev
A3	EA30 BM		-1
Date:	Tuesday, July 08, 2014	Sheet	55 of 102

[illegible]

AC coupling caps near connector<100 mils

SSID = Wireless *Mini Card Connector (604.11a/b/g/n)*



www.Telegram.me/schematics_laptop

SSID = Wireless

Mini Card Connector(mSATA)



Wistron Confidential document, Anyone can not Duplicate, Modify, Forward or any other purpose application without get Wistron permission

No eMMC

緯創資通		Wistron Corporation	
		21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
WWAN CONN			
Size	Document Number		Rev
A4	EA30 BM		-1
Date:	Tuesday, July 08, 2014		Sheet 59 of 102

SSID = mSATA

Mini Card Connector(mSATA)



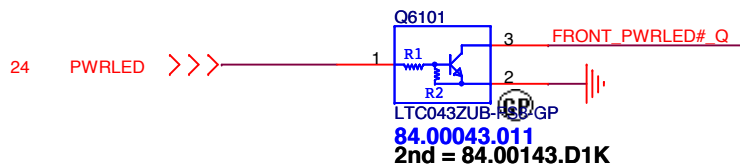
Wistron Confidential document, Anyone can not Duplicate, Modify, Forward or any other purpose application without get Wistron permission

No eMMC

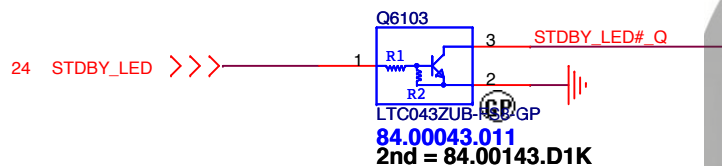
緯創資通		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title mSATA Connector			
Size A4	Document Number EA30 BM		Rev -1
Date: Tuesday, July 08, 2014		Sheet 60 of	102

SSID = User.Interface

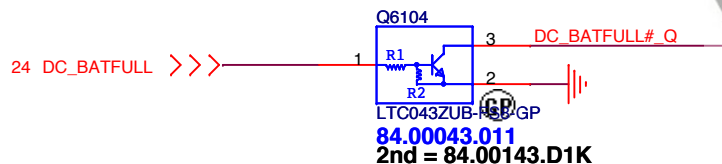
Power button_LED



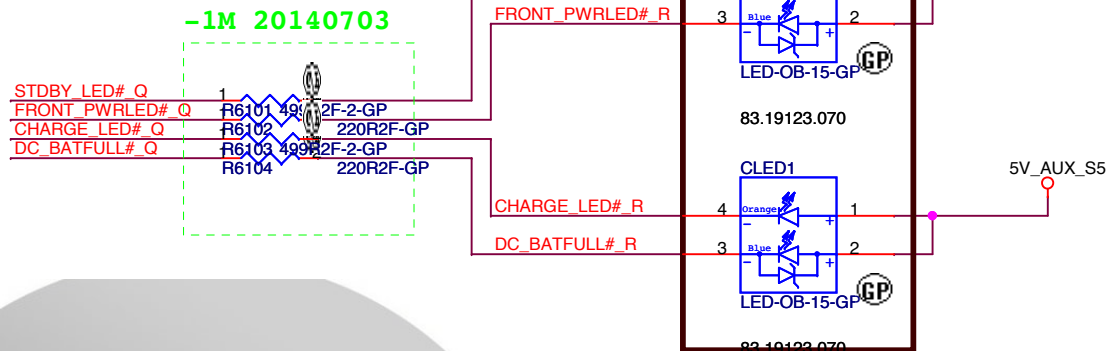
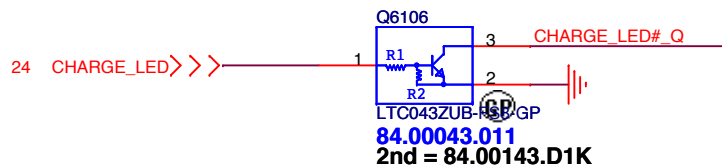
Power STDBY_LED



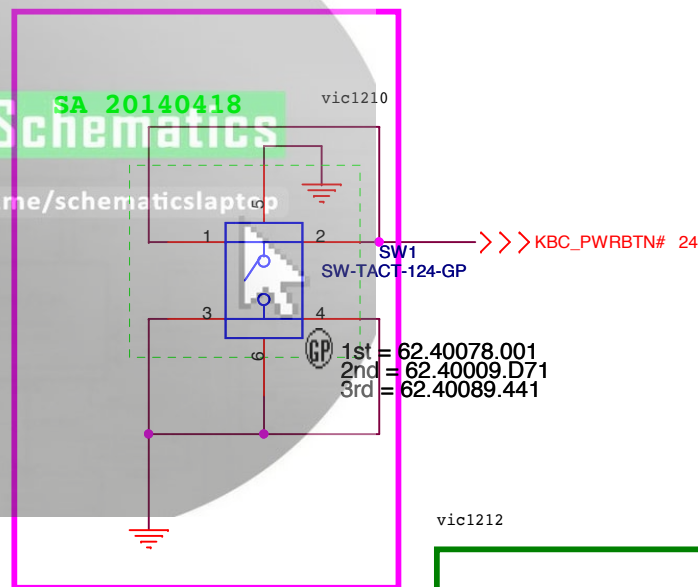
Battery LED2 (DC_BATFULL)



Battery LED1 (CHARGE)



Laptop Schematics
www.Telegram.me/schematics4laptop



24 KBC_PWRBTN# >>>

SW1
SW-TACT-124-GP
1st = 62.40078.001
2nd = 62.40009.D71
3rd = 62.40089.441

KBC_PWRBTN# 24

vic1210
vic1212

No eMMC

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

Title
LED Bard/Power Button

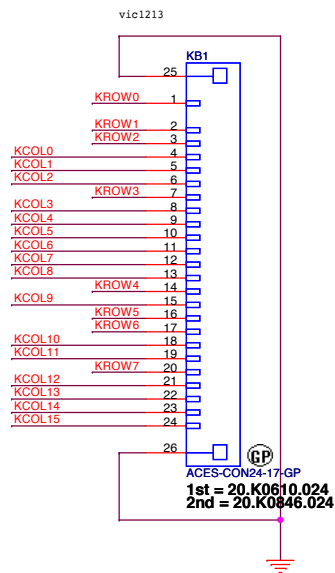
Size A4 Document Number
EA30 BM

Date: Tuesday, July 08, 2014 Sheet 61 of 102

Rev
-1

SSID = Key Board CN & TP CN

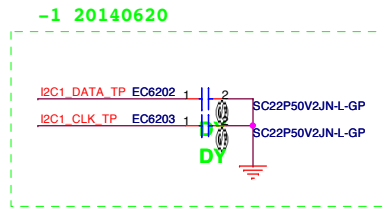
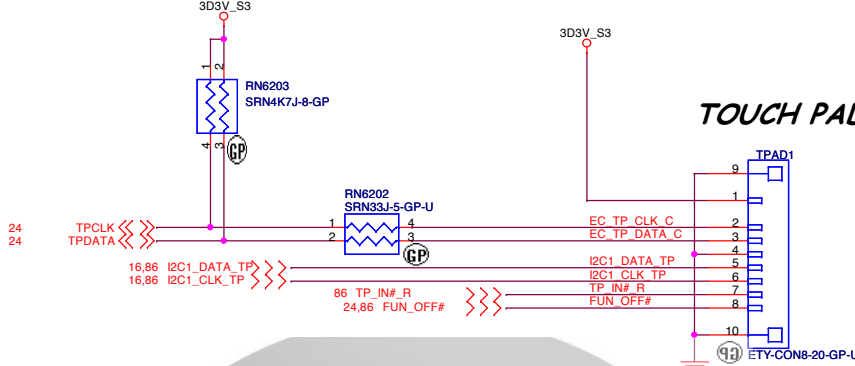
24,86 KROW[0..7] >>> >>> >>> >>>
24,86 KCOL[0..15] >>> >>> >>> >>> >>>



MB PIN DEFINE 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
KB PIN DEFINE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

26 **K/B** 1

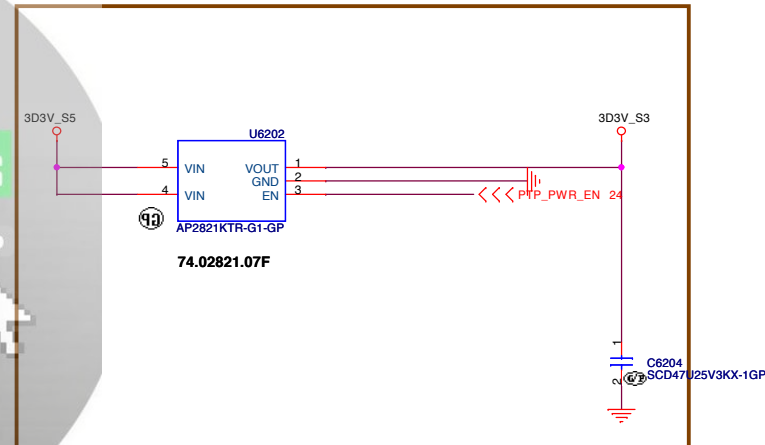
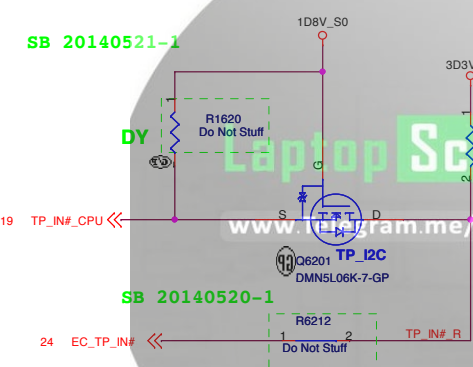
86 EC_TP_...C >>> >>> >>> >>>
86 EC_TP_DATA_C >>> >>> >>> >>>
16,86 I2C1_DATA_TP >>> >>> >>> >>>
16,86 I2C1_CLK_TP >>> >>> >>> >>>



SB 20140521-1

DY

SB 20140520-1



Wistron Confidential document, Anyone can not Duplicate, Modify, Forward or any other purpose application without get Wistron permission

No eMMC

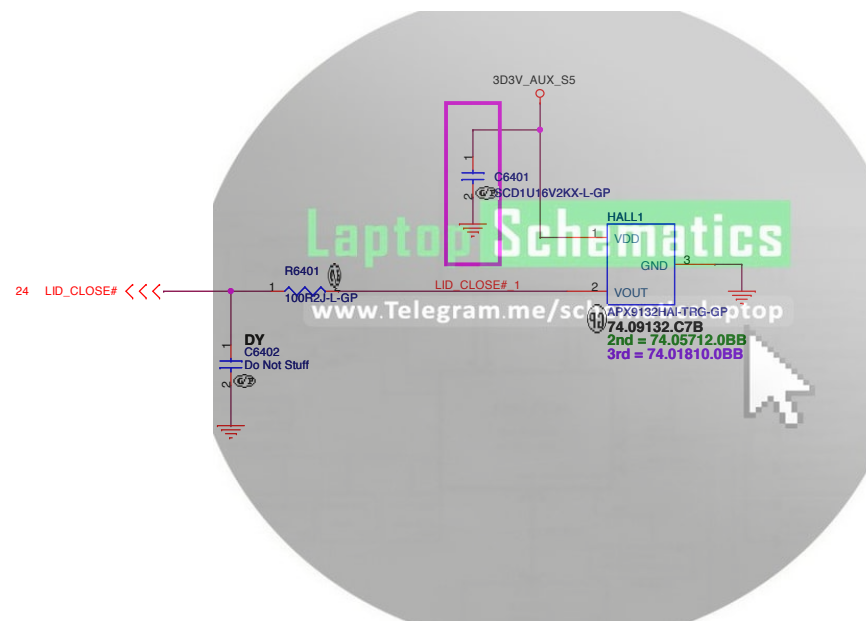
緯創資通		Wistron Corporation	
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title			
Key Board/Touch Pad			
Size A3	Document Number	Rev	-1
Date: Tuesday, July 08, 2014		Sheet 62	of 102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

No eMMC

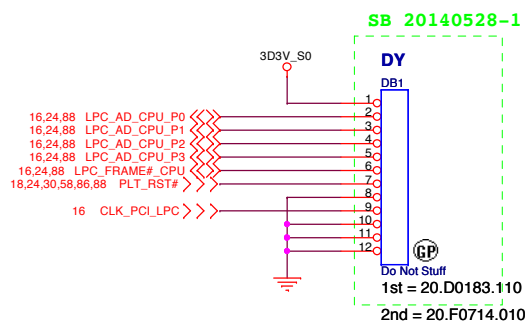
緯創資通		Wistron Corporation	
		21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
IO Board Connector			
Size	Document Number		Rev
A3	EA30 BM		-1
Date:	Tuesday, July 08, 2014	Sheet 63	of 102



No eMMC

Wistron Confidential document, Anyone can not Duplicate, Modify, Forward or any other purpose application without get Wistron permission

緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title	
Hall Sensor	
Size	Document Number
A3	EA30 BM
Date:	Rev
Tuesday, July 08, 2014	-1
Sheet 64 of 102	



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

No eMMC

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

Title			Dubug connector	
Size	Document Number	Rev		
A3	EA30 BM	-1		
Date:	Tuesday, July 08, 2014	Sheet	65	of 102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
Application without get Wistron permission

No eMMC

緯創資通		Wistron Corporation	
		21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
SENSOR HUB			
Size A3	Document Number EA30 BM		Rev -1
Date:	Tuesday, July 08, 2014	Sheet 66	of 102

Free Fall Sensor

Note

- 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



SDO="H"; address="3Ah"
***SDO="L"; address="38h"**

***CS="H"; mode="I2C"**
CS="L"; mode="SPI"

Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

No eMMC

緯創資通

Wistron Corporation

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

Title

G Sensor

Size
A

Document Number

EA30 BM

Rev

-1

Date: Tuesday, July 08, 2014

Sheet 67 of 102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

No eMMC

緯創資通		Wistron Corporation	
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title			
Thunderbolt (1/5)			
Size	Document Number		Rev
Custom	EA30 BM		-1
Date:	Tuesday, July 08, 2014	Sheet 68 of	102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

No eMMC

緯創資通		Wistron Corporation	
		21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
Thunderbolt (2/5)			
Size	Document Number		Rev
Custom	EA30 BM		-1
Date:	Tuesday, July 08, 2014	Sheet 69 of	102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

No eMMC

緯創資通		Wistron Corporation	
		21F, 88, Sec.1, Hsien Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
Thunderbolt (3/5)			
Size	Document Number		Rev
Custom	EA30 BM		-1
Date:	Tuesday, July 08, 2014	Sheet	70 of 102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

No eMMC

緯創資通		Wistron Corporation	
		21F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
Thunderbolt (4/5)			
Size	Document Number		Rev
Custom	EA30 BM		-1
Date:	Tuesday, July 08, 2014	Sheet	71 of 102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission
No eMMC

緯創資通		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title Thunderbolt (5/5)			
Size A4	Document Number EA30 BM		Rev -1
Date: Tuesday, July 08, 2014		Sheet 72 of	102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
Without get Wistron permission

No on-site

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

Title			GPU(PEG)	
Size	Document Number	Rev		
Custom	EA30 BM	-1		
Date:	Tuesday, July 08, 2014		Sheet	73 of 102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
Without get Wistron permission

No eMMC

緯創資通		Wistron Corporation	
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title			
GPU (DIGITALOUT)			
Size	Document Number	Rev	
Custom	EA30 BM	-1	
Date:	Tuesday, July 08, 2014	Sheet	74 of 102







Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
Application without get Wistron permission

No eMMC

緯創資通		Wistron Corporation	
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title GPU (POWER/GND)			
Size	Document Number	Rev	
Custom	EA30 BM	-1	
Date	Tuesday, July 08, 2014	Sheet	77 of 102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
Application without get Wistron permission

No eMMC

緯創資通		Wistron Corporation	
		21F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
GPU-VRAM1,2 (1/4)			
Size	Document Number		Rev
Custom	EA30 BM		-1
Date:	Tuesday, July 08, 2014	Sheet 78 of	102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

No eMMC

緯創資通		Wistron Corporation	
		21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
GPU-VRAM3,4 (2/4)			
Size	Document Number		Rev
Custom	EA30 BM		-1
Date:	Tuesday, July 08, 2014	Sheet 79 of	102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
Application without get Wistron permission

No eMMC

緯創資通		Wistron Corporation	
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title			
GPU-VRAM5,6 (3/4)			
Size	Document Number		Rev
Custom	EA30 BM		-1
Date:	Tuesday, July 08, 2014	Sheet 80	of 102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission
No eMMC

緯創資通		Wistron Corporation	
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title			
GPU-VRAM7,8 (4/4)			
Size	Document Number		Rev
Custom	EA30 BM		-1
Date:	Tuesday, July 08, 2014		Sheet 81 of 102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
Application without get Wistron permission

No exMMC

緯創資通		Wistron Corporation	
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title			
RT8812A VGA CORE			
Size	Document Number	Rev	
Custom	EA30 BM	-1	
Date:	Tuesday, July 08, 2014	Sheet	82 of 102

Laptop Schematics

www.Telegram.me/schematics_laptop



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
Without get Wistron permission

No. 00000000000000000000		Wistron Corporation 21F, 88, Sec. 1, Hsin-Tai Rd., Hsinchu, Taipei Hsien 301, Taiwan, R.O.C.	
DISCRETE VGA POWER			
Document Number		Rev	
EA30 BM		-1	
DATE: 2009.04.14		PAGE: 83 of 88	



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission
No eMMC

		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
Switchable GFX LCD(1/2)			
Size A4	Document Number EA30 BM		Rev -1
Date:	Tuesday, July 08, 2014	Sheet 84 of	102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission
No eMMC

		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
Switchable GFX LCD(2/2)			
Size A4	Document Number EA30 BM		Rev -1
Date:	Tuesday, July 08, 2014	Sheet 85 of	102

SA 20140430-1

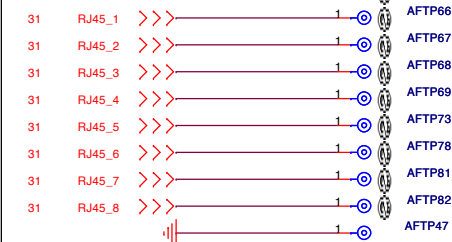
SA 20140422-1

SA 20140506-1

SB 20140528-1

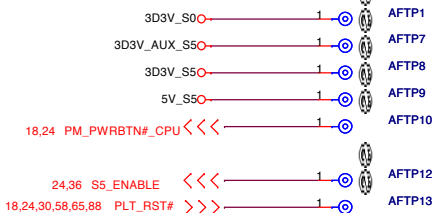
SB 20140528-1

LAN_RJ45 connector

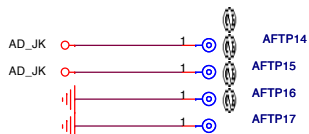


Check test point

Test Point放在 Bottom side 可量測處

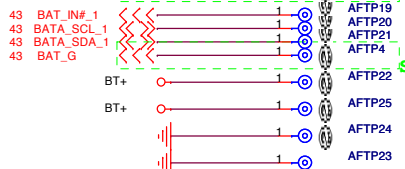


DCIN

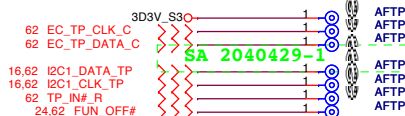


BARRETY

SA 2040429-1



Touch PAD



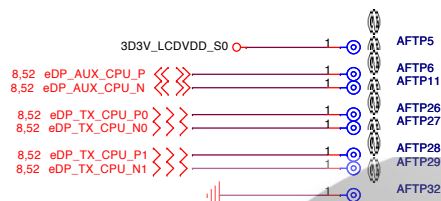
Speaker



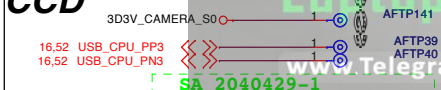
DMIC

SA 2040429-1

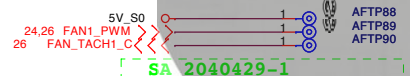
eDP



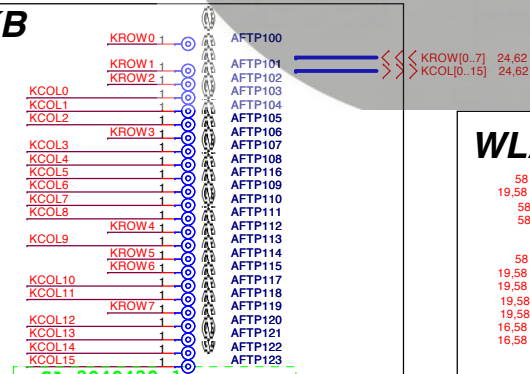
CCD



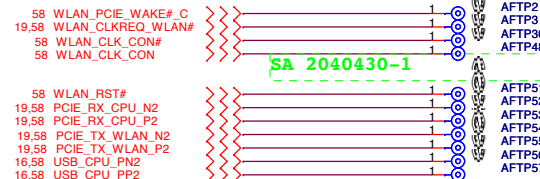
FAN



KB



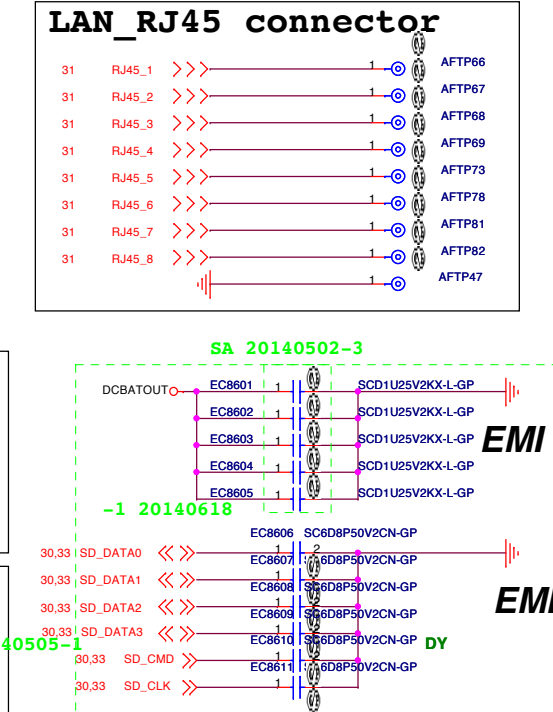
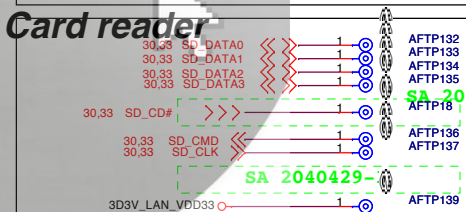
WLAN



Audio Jack



Card reader



USB2

SB 20140528-1



No eMMC

緯創資通

Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.Title
UNUSED PARTS/EMI CapacitorsSize A3 Document Number
EA30 BM

Date: Tuesday, July 08, 2014 Sheet 86 of 102

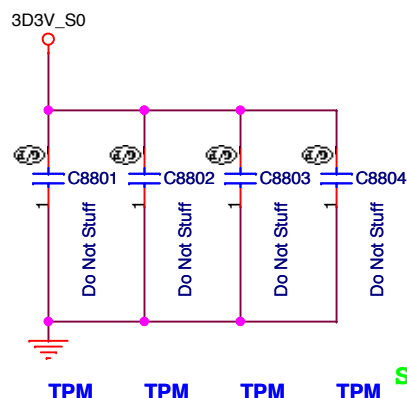
Rev
-1



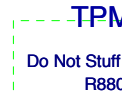
Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
Application without get Wistron permission

No eMMC

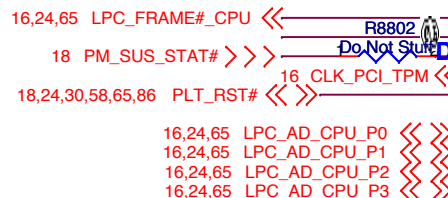
緯創資通		Wistron Corporation	
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title			
NFC			
Size	Document Number	Rev	
Custom	EA30 BM	-1	
Date:	Tuesday, July 08, 2014	Sheet	87 of 102



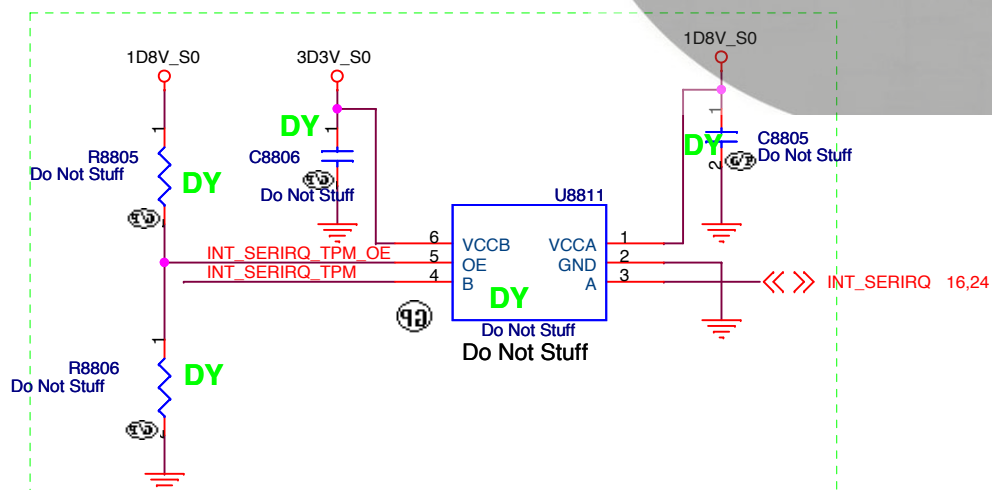
SB 20140521-1



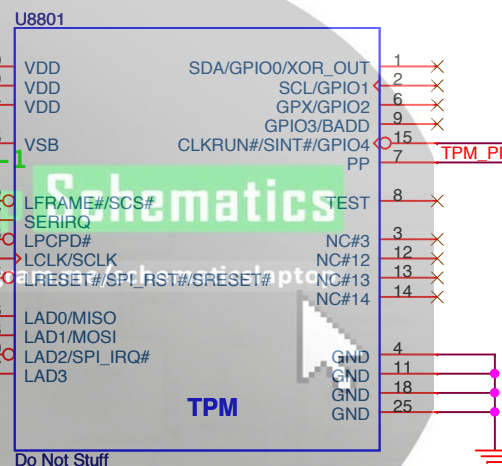
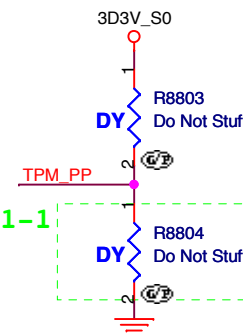
SA 20140513-1



SB 20140513-1



SB 20140521-1



Wistron Confidential document, Anyone can not Duplicate, Modify, Forward or any other purpose application without get Wistron permission

No eMMC

緯創資通 Wistron Corporation

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

Title		
TPM		
Size	Document Number	Rev
A4	EA30 BM	-1
Date:	Tuesday, July 08, 2014	Sheet 88 of 102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission
No eMMC

緯創資通		Wistron Corporation	
		21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
Finger Print			
Size	Document Number		Rev
A4	EA30 BM		-1
Date:	Tuesday, July 08, 2014		Sheet 89 of 102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission
No eMMC

緯創資通		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title Express Card			
Size A	Document Number EA30 BM		Rev -1
Date: Tuesday, July 08, 2014		Sheet 90 of	102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission
No eMMC

緯創資通		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title Smart Card socket			
Size A	Document Number EA30 BM		Rev -1
Date: Tuesday, July 08, 2014		Sheet 91 of	102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission
No eMMC

緯創資通		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title Switchable GFX eDP			
Size A	Document Number EA30 BM		Rev -1
Date: Tuesday, July 08, 2014		Sheet 92 of	102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission
No eMMC

緯創資通		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title Bottom Docking			
Size A	Document Number EA30 BM		Rev -1
Date: Tuesday, July 08, 2014		Sheet 93 of	102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission
No eMMC

緯創資通		Wistron Corporation	
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title			
Inter LAN WG1217LM			
Size A3	Document Number EA30 BM		Rev -1
Date: Tuesday, July 08, 2014		Sheet 94	of 102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

No eMMC

緯創資通		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title LAN Switch			
Size A	Document Number EA30 BM		Rev -1
Date: Tuesday, July 08, 2014	Sheet	95 of	102



Pin	XDP Signal Name	Target Signal	I/O	Device	Pin	XDP Signal Name	Target Signal	I/O	Device
1	OBSFN_A0	Open	I/O		2	OBSFN_A1	Open	I/O	
3	GND	GND	NA		4	OBSDATA_A[0]	Open	I/O	
5	OBSDATA_A[1]	Open	I/O		6	GND	GND	NA	
7	OBSDATA_A[2]	Open	I/O		8	OBSDATA_A[3]	Open	I/O	
9	GND	GND	NA		10	HOOK0 ¹	RSMRST#	I	System
11	HOOK1	BP_PWRGD_RST# ¹	O	System	12	HOOK2	Open	NA	
13	HOOK3	Open	NA		14	HOOK4 ¹	1.05V core	NA	
15	HOOK5	Open	NA		16	VCCOBS_AB	3.3V SUS	I	System
17	HOOK6	RSMRST# ¹	O	System	18	HOOK7	DBR# ¹	O	System
19	GND	GND	NA		20	TDO	JTAG_TDO	I	PCH
21	TRSTn	Open	NA		22	TDI	JTAG_TDI	O	PCH
23	TMS	JTAG_TMS	O	PCH	24	TCK1	Open	NA	
25	GND	GND	NA		26	TCK0	JTAG_TCK	O	PCH

Wistron Confidential document, Anyone can not Duplicate, Modify, Forward or any other purpose application without get Wistron permission

No eMMC

<div>緯創資通</div>		<div>Wistron Corporation</div> <div>21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.</div>	
Title			
<div>PCH_XDP</div>			
Size A4	Document Number <div>EA30 BM</div>		Rev -1
Date:	Tuesday, July 08, 2014	Sheet 96 of 102	

Blanking

Laptop Schematics

www.Telegram.me/schematics_laptop

Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

No eMMC

緯創資通

Wistron Corporation

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

Title

table of content

Size
A4

Document Number

EA30 BM

Rev
-1

Date: Tuesday, July 08, 2014

Sheet 97 of 102



Wistron Confidential document, Anyone can not
Duplicate, Modify, Forward or any other purpose
application without get Wistron permission

No eMMC

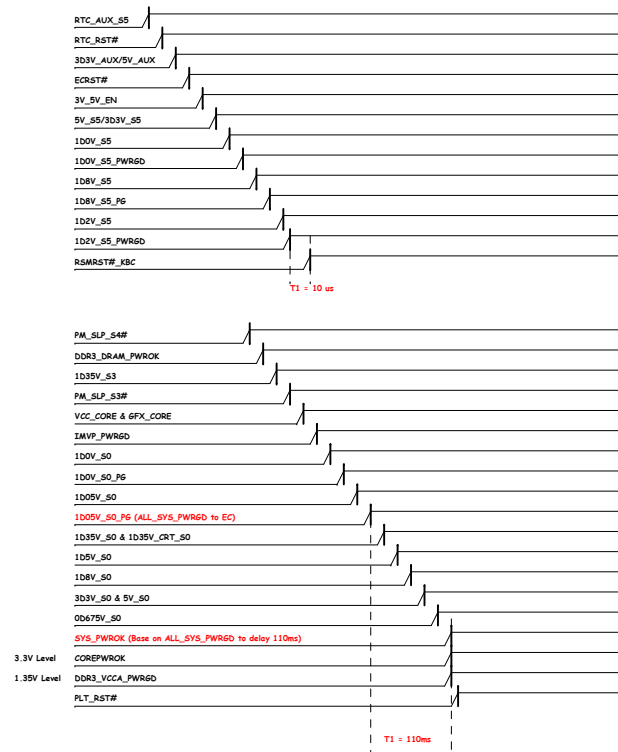
緯創資通 **Wistron Corporation**
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title

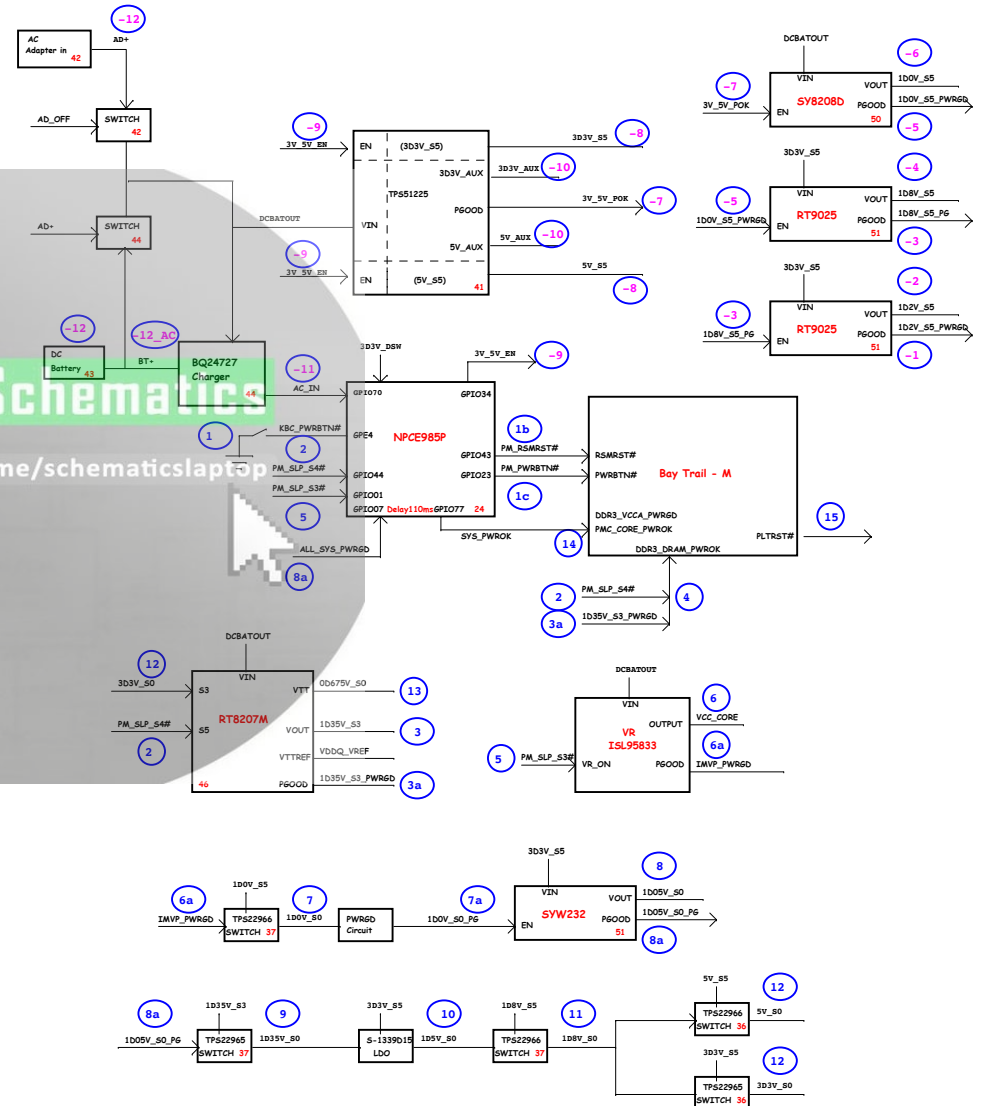
Change History

Size	Document Number	Rev
A4	EA30 BM	-1

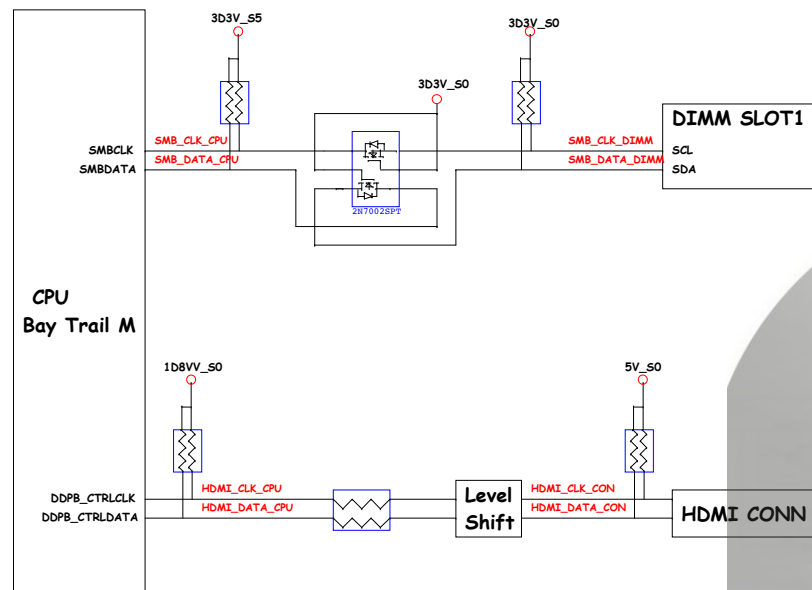
Intel-Power Up Sequence with non-S0ix



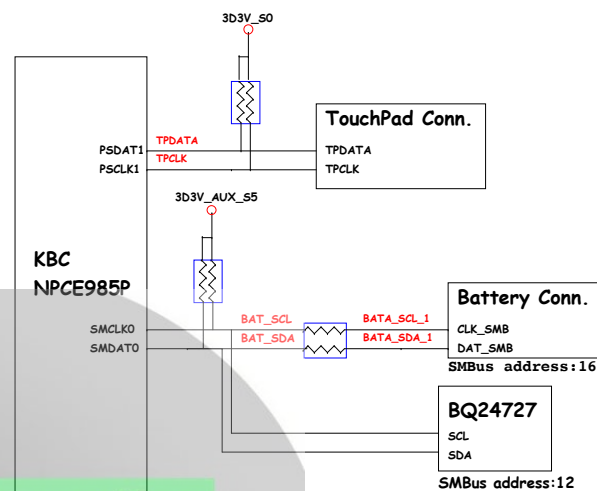
Bay Trail - M POWER UP SEQUENCE DIAGRAM



PCH SMBus Block Diagram



KBC SMBus Block Diagram



Laptop Schematics

www.Telegram.me/schematics-laptop

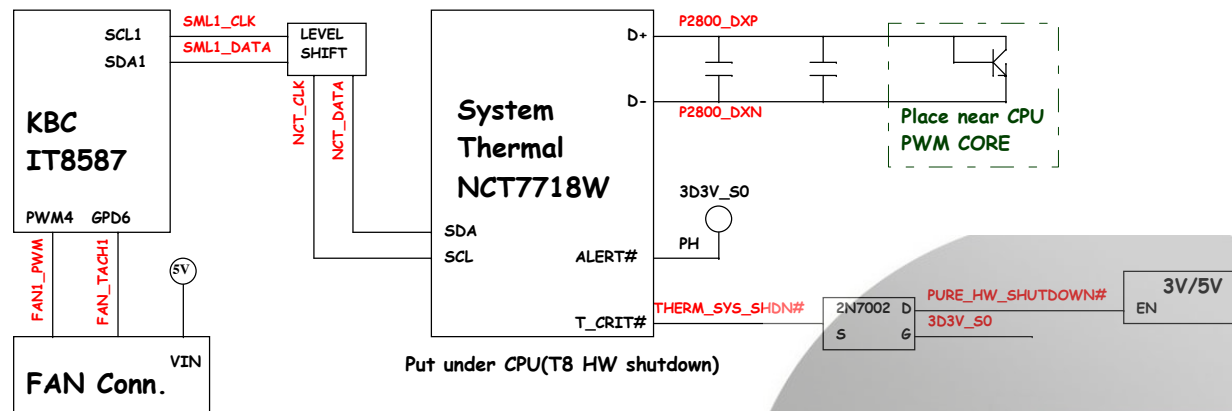
Wistron Confidential document. Anyone can not Duplicate, Modify, Forward or any other purpose application without get Wistron permission.

No oMMG

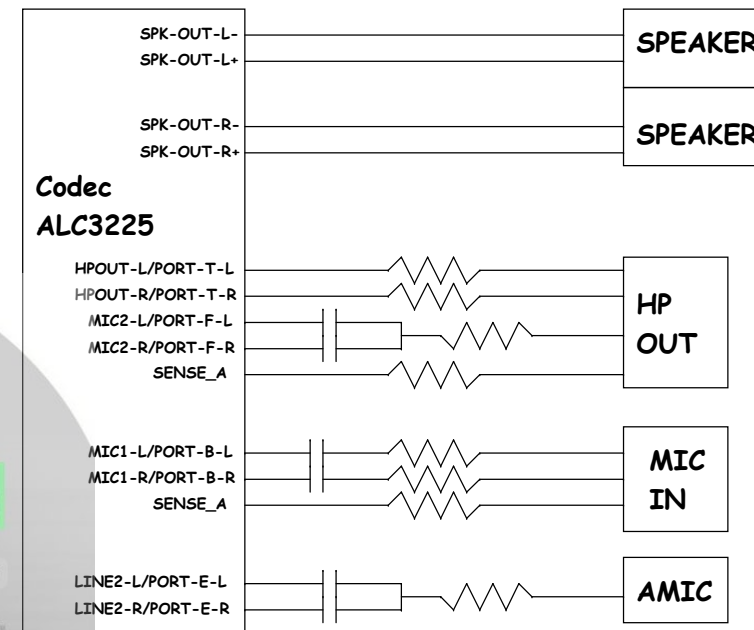
緯創資通 Wistron Corporation
21F, 8B, Sec.1, Hsin Tai Wu Rd., Hsinchu,
Taipei Hsien 321, Taiwan, R.O.C.

SMBUS BLOCK DIAGRAM			
Size	Document Number	Rev	
A2	EA30 BM	-1	
Date: Tuesday, July 06, 2014 Sheet 101 of 102			

Thermal Block Diagram



Audio Block Diagram



Laptop Schematics

www.Telegram.me/schematics1aptop

Wistron Confidential document, Anyone can not Duplicate, Modify, Forward or any other purpose application without get Wistron permission

No eMMC

緯創資通		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title THERMAL/AUDIO BLOCK DIAGRAM			
Size Custom	Document Number EA30 BM	Rev -1	
Date: Tuesday, July 08, 2014	Sheet 102	of 102	102

Laptop Schematics
www.telegram.me/schematics_laptop
www.s-manuals.com