AMD KABINI EA/EG-40/50
PX /UMA Schematics Document
AMD FT3 APU
AMD GPU SUN XT M2/64bit

EAEG50 KB UMA

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		
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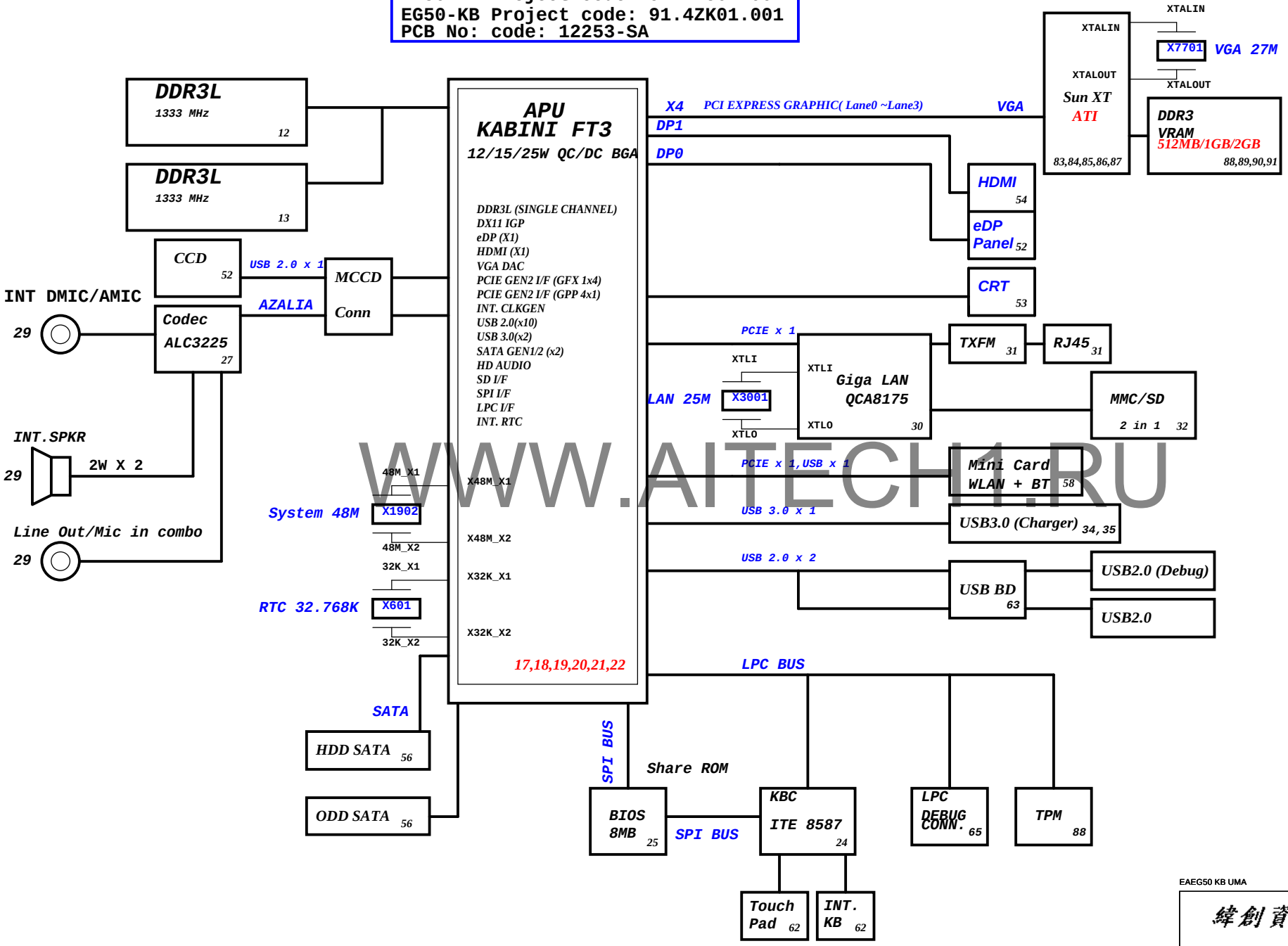
AMD KABINI

EA40-KB Project code: 91.4ZF01.001
PCB No: code: 12247-SA
EA50-KB Project code: 91.4YU01.001
EG50-KB Project code: 91.4ZK01.001
PCB No: code: 12253-SA



SYSTEM DC/DC TPS51225	45
INPUTS	OUTPUTS
DCBATOUT	5V_CHARGER (6.52A) 3D3V_S5(5.05A)

SYSTEM DC/DC RT8207	49
DCBATOUT	1D5V_S3(10.5A)
RT8207	
DCBATOUT	0D75_S0(1.2A)

SYSTEM DC/DC RT8068	50
INPUTS	OUTPUTS
3D3V_S5	1D8V_S5(3.05A
SY8208	48 , 51
DCBATOUT	1D5V_S5(5.4A)
DCBATOUT	0D95V_S5(5.6A)

TPS22966	36
5V_CHARGER	5V_S5(5.83A)
	5V_S0(3.5A)
TPS22966	36
3D3V_S5	3D3V_S0(2.8A
1D5V_S5	1D5V_S0(0.6A
TPS22966	36
1D8V_S5	1D8V_S0(1.5A
0D95V_S5	0D95V_S0(5.6A)

CHARGER BQ24737	44
INPUTS	OUTPUTS
DCBATOUT	CHG_PWR 18V 5.5A

CPU DC/DC ISL6267	46,47
INPUTS	OUTPUTS
DCBATOUT	APU_VDD 0.3~1.4V,21A APU_VDDNB 0.7~1.325V,17A

VGA DC/DC TPS51728	82
DCBATOUT	VGA_CORE(35.5A)
TPS22966	83
3D3V_S0	3D3V_VGA_S0
1D5V_S5	1D5V_VGA_S0
TPS22966	83
1D8V_S5	1D8V_VGA_S0
0D95V_S5	0D95V_VGA_S0

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Title: Block Diagram

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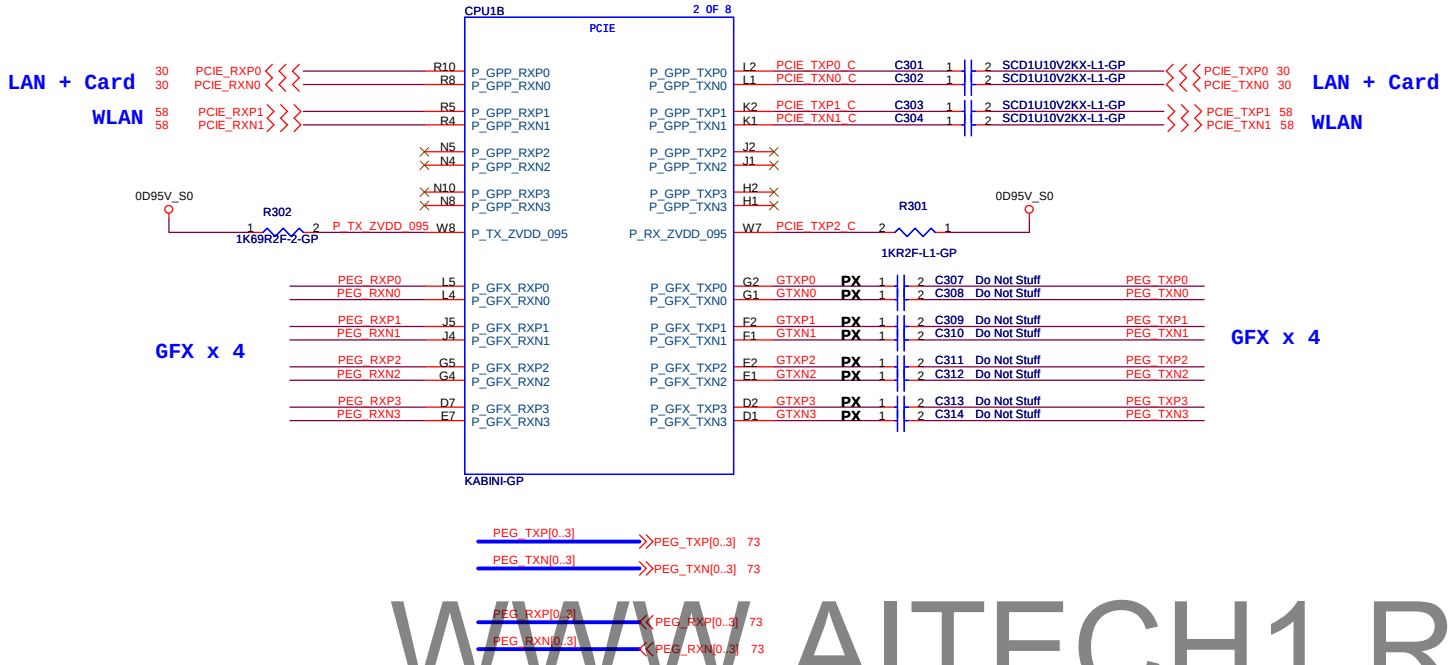

PCIE Table

0	LAN + Card
1	WLAN
2	NC
3	NC

71.KABIN.B0U IC CPU Kabini 4110 1.5GHz 15W4C FT3 ES2 BGA

71.KABIN.C0U IC CPU Kabini 5110 2.0GHz 25W4C FT3 ES2 BGA

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Title: CPU_PCIE

Size: A3 | Document Number: KABINI | Rev:

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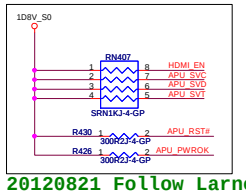
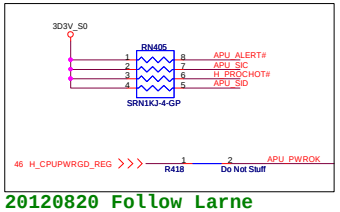


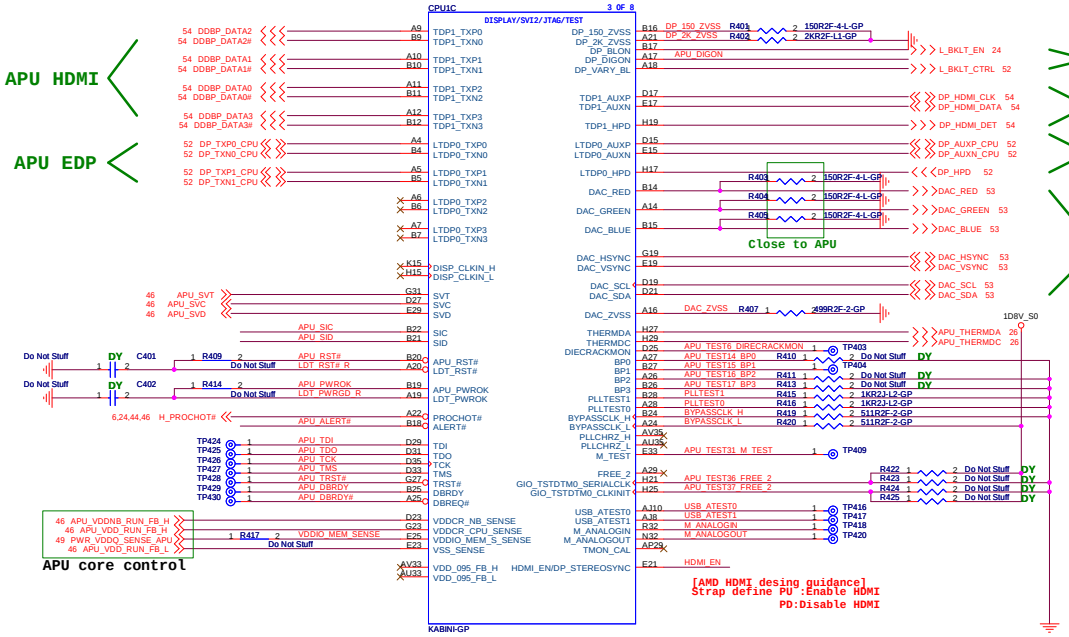
20120821 Follow Larne

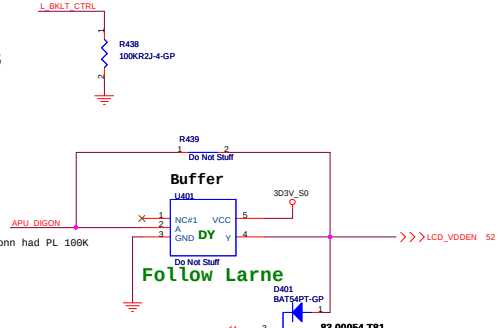
TABLE 6. PRE-PWROK METAL VID CODES

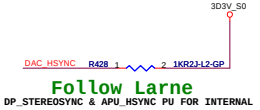
SVC	SVD	OUTPUT VOLTAGE (V)
0	0	1.1
0	1	1.0
1	0	0.9
1	1	0.8

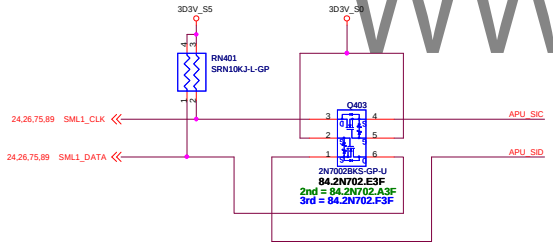


20120820 Follow Larne









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Title: CPU_DISPLAY/CLK/MISC

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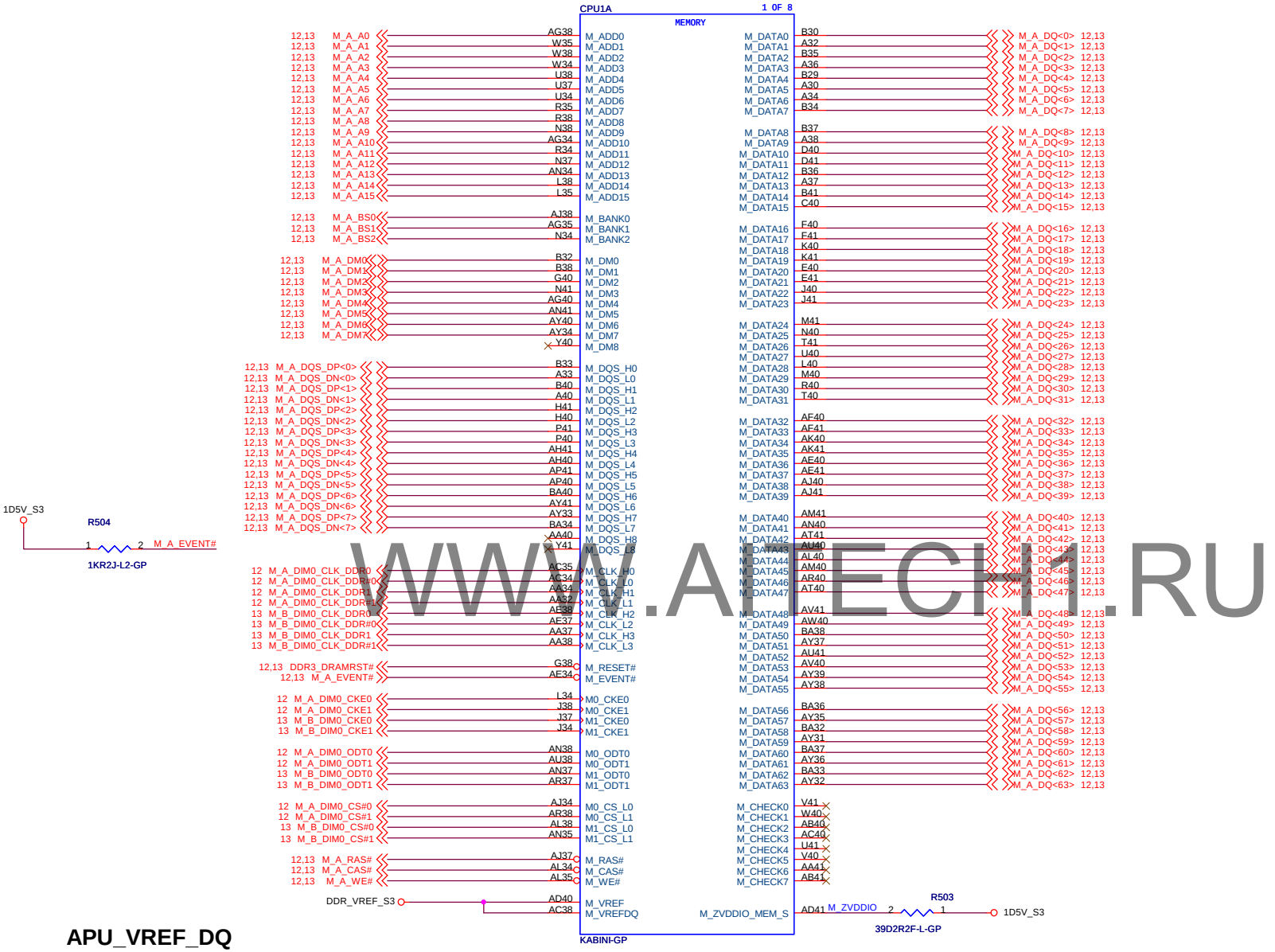
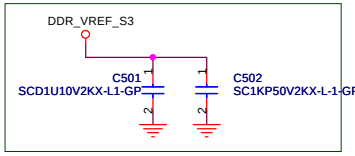


APU_VREF_DQ



LAYOUT: place them close to APU

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Title	CPU_DDR	
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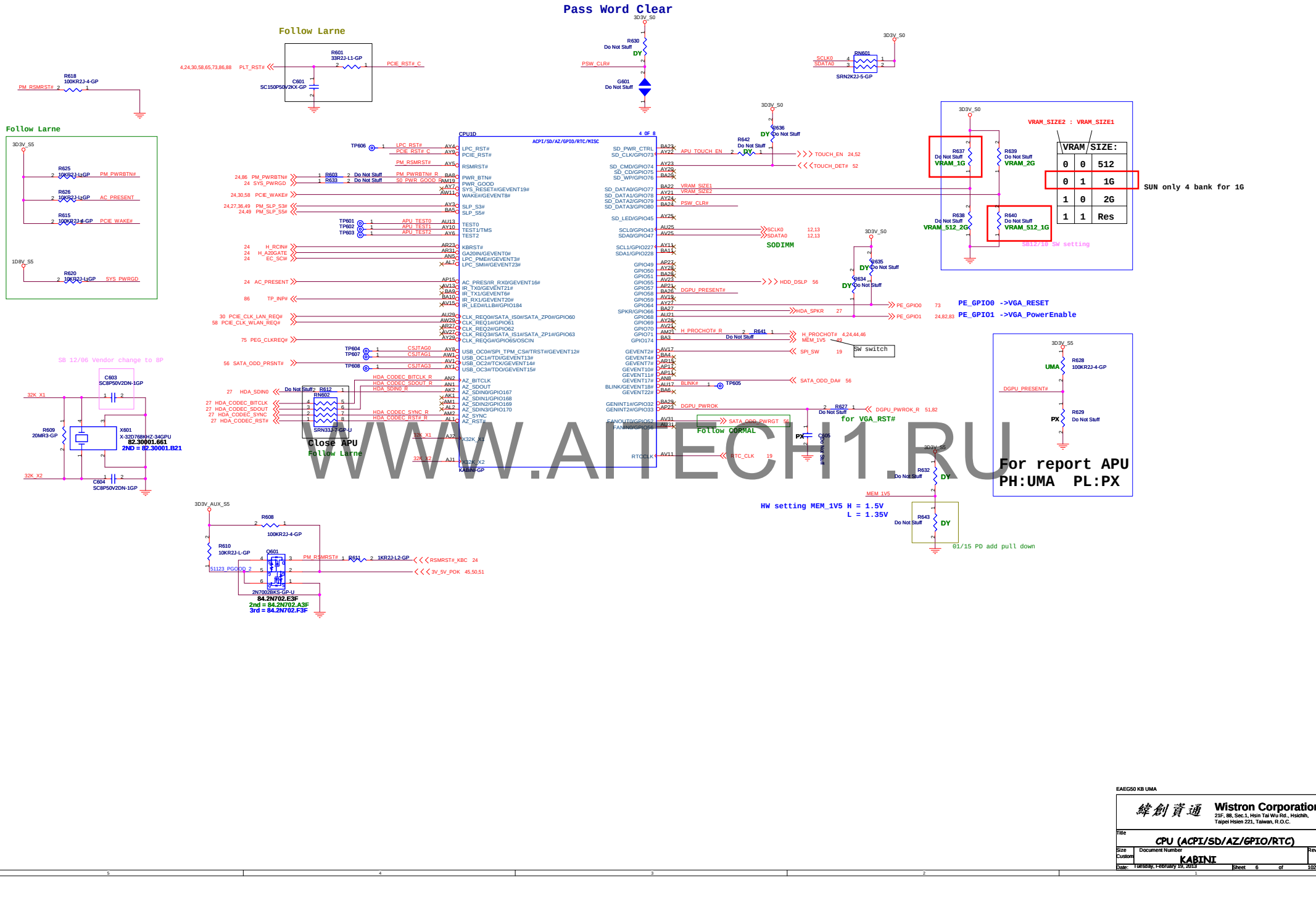

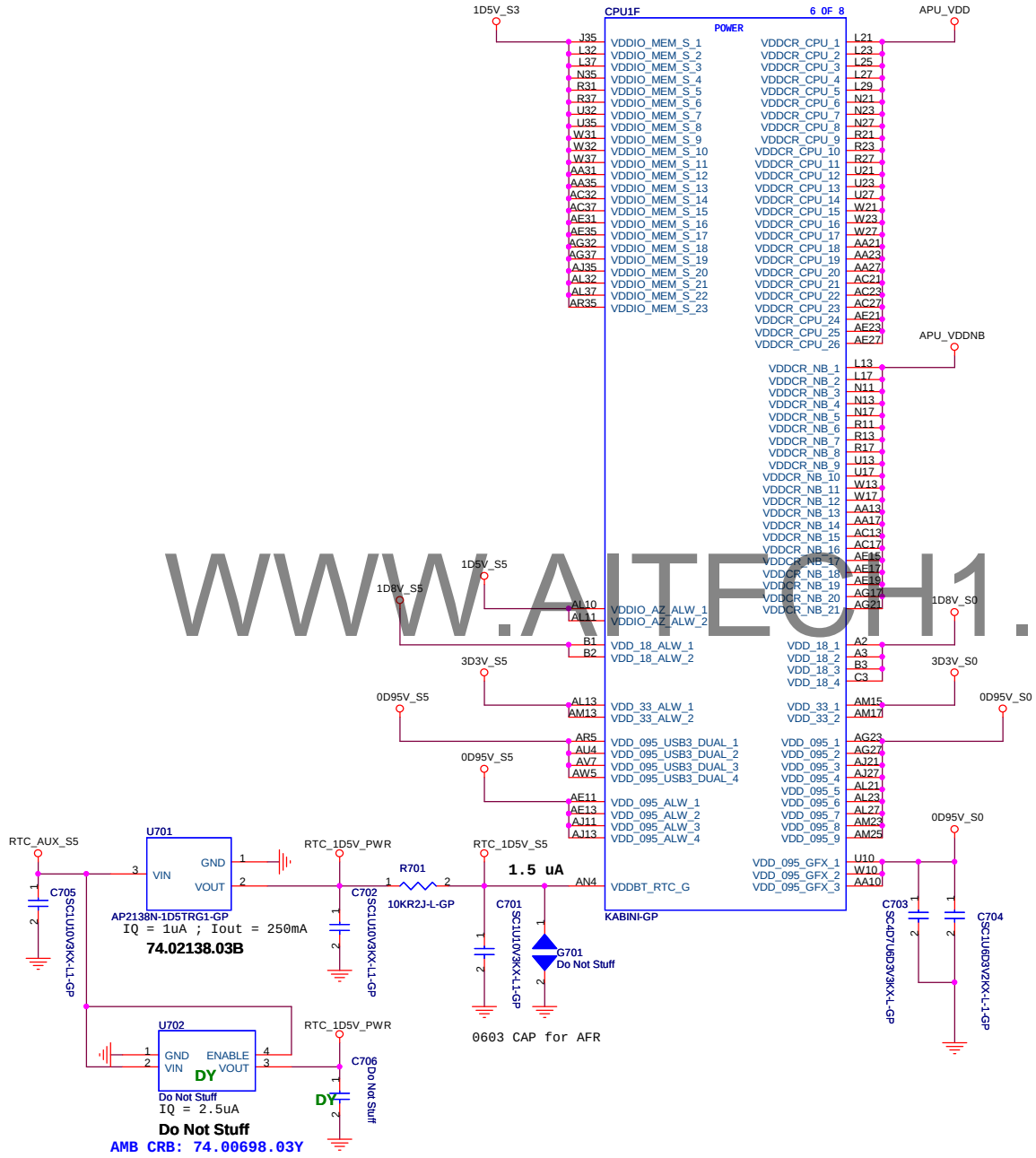

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Title: CPU_VCC CORE

Size: A3 | Document Number: KABINI | Rev:

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Title: CPU_VCC GFXCORE

Size	Document Number	Rev
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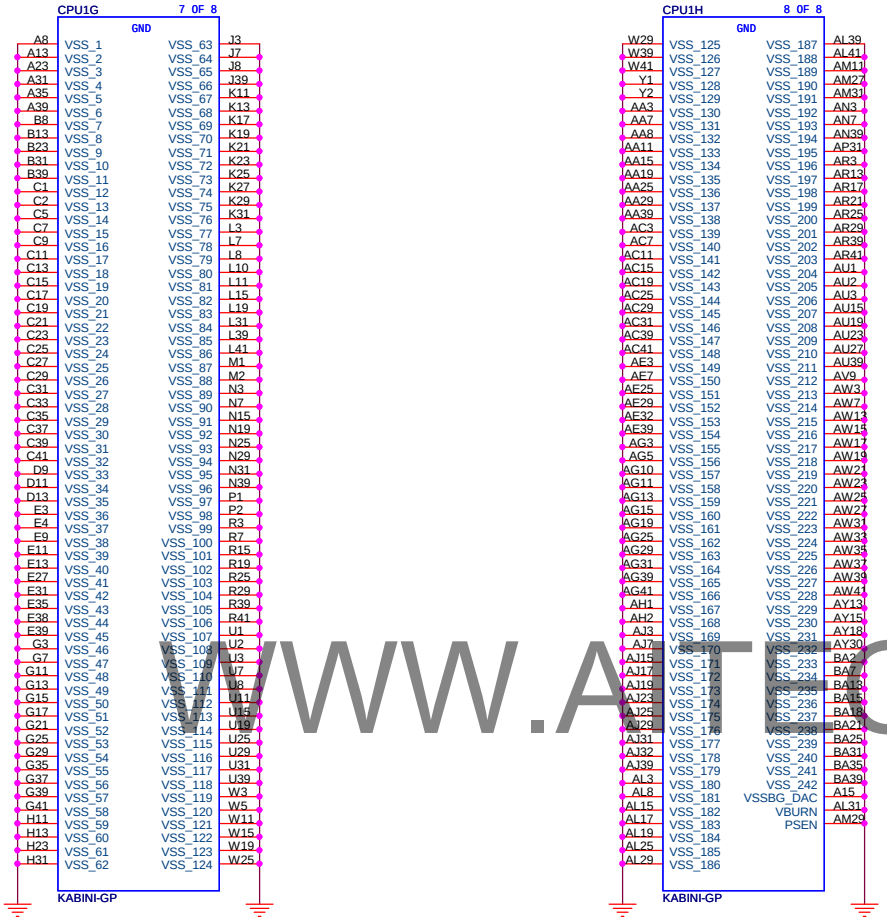

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Title: **CPU_VSS**

Size	Document Number	Rev
A3	KABINI	

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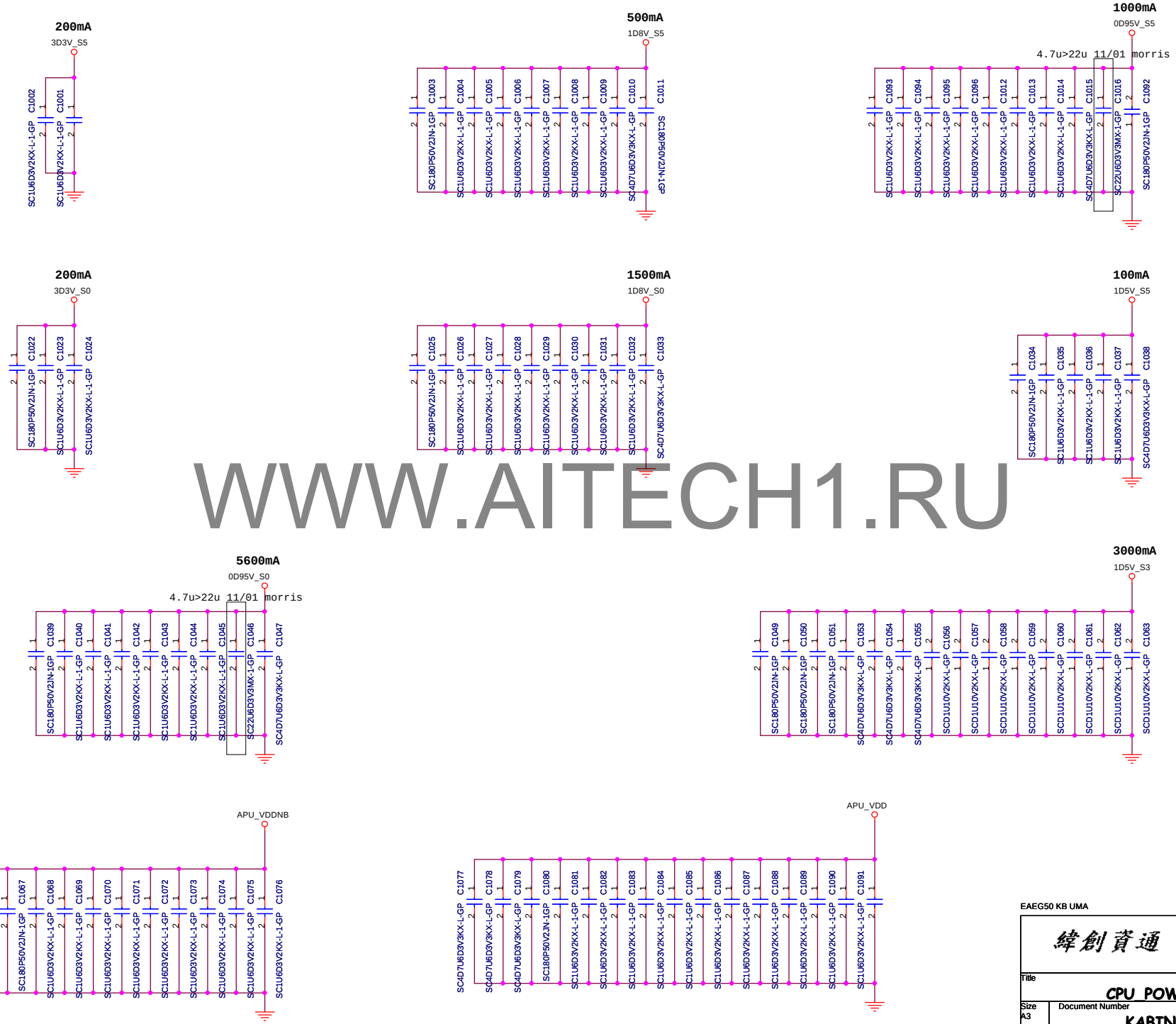

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Title: **CPU_POWER CAP1**

Size	Document Number	Rev
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Title

CPU_POWER CAP2

Size	Document Number	Rev
A	**KABINI**	

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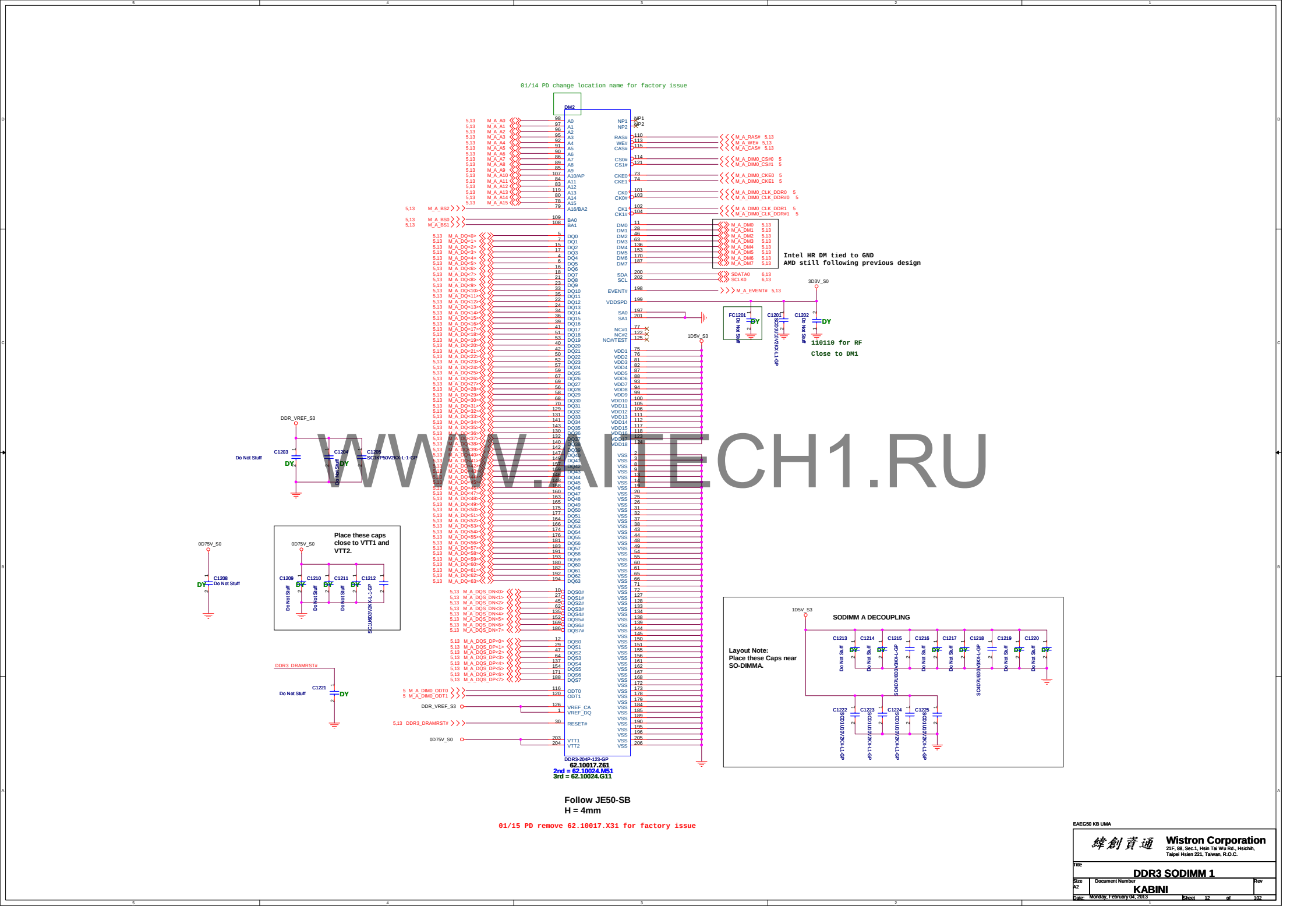

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Title: DDR3 SODIMM 1

Size: A2 | Document Number: KABINI | Rev:

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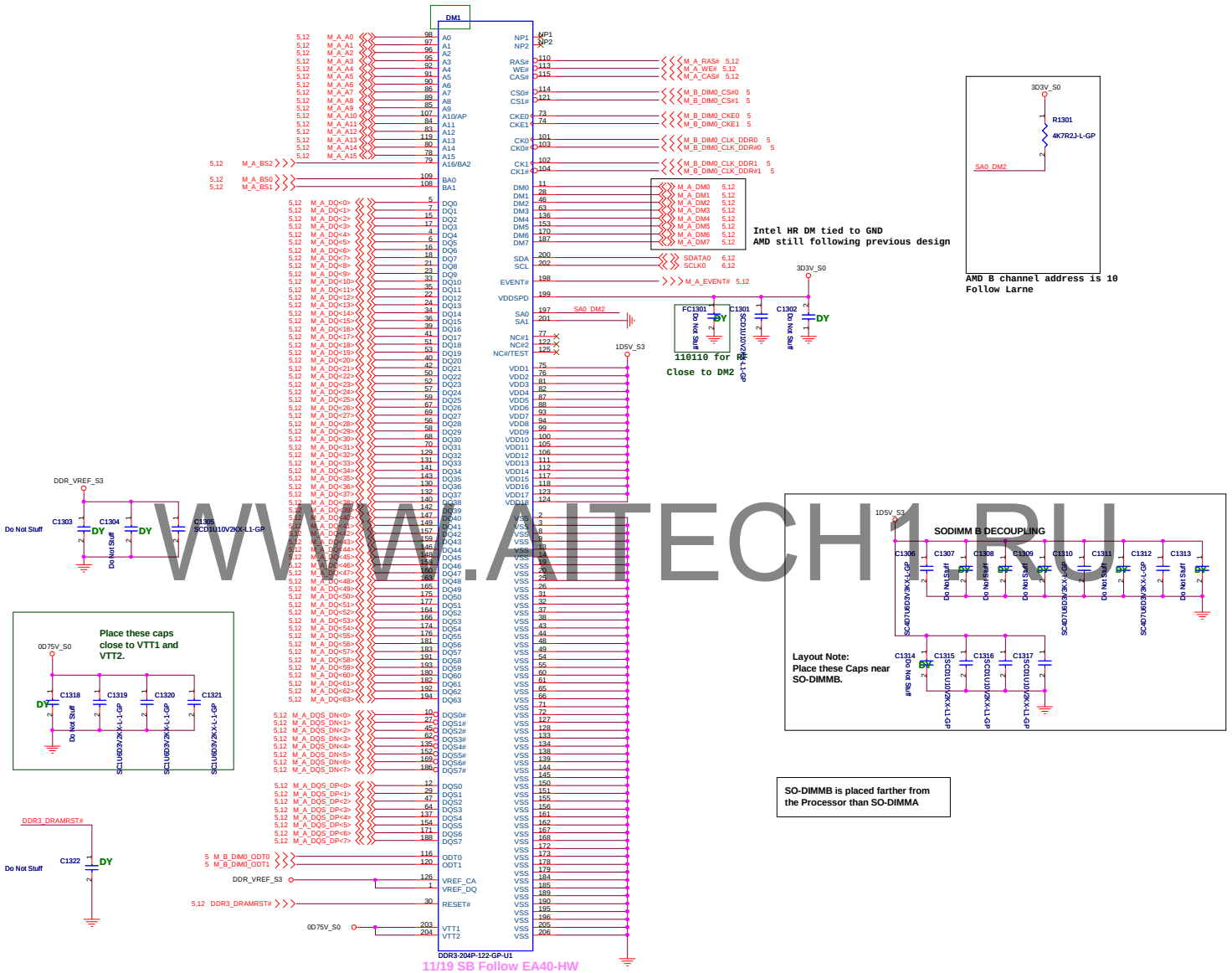
01/14 PD change location name for factory issue



11/19 SB Follow EA40-HW

62.10017.Z51

2nd = 62.10024.G21

3rd = 62.10024.M31

01/15 PD remove 62.10017.X41 for factory issue

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Title: DDR3 SODIMM 2

Size: A2 | Document Number: KABINI | Rev:

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Title

DDR3 SODIMM 3

Size	Document Number	Rev
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Title: CPU_EDP SIDEBAND/GPIO/DDI

Size	Document Number	Rev
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Title

CPU_PCIE/USB

Size	Document Number	Rev
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Title

CPU DMI/FDI/PM

Size	Document Number	Rev
A	KABINI	

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Title: **CPU_PCIE/SMBUS/CLK/CL/SPI**

Size	Document Number	Rev
A	**KABINI**	

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SATA Table

0	HDD
1	ODD

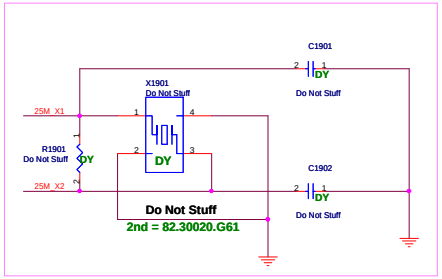
USB Table

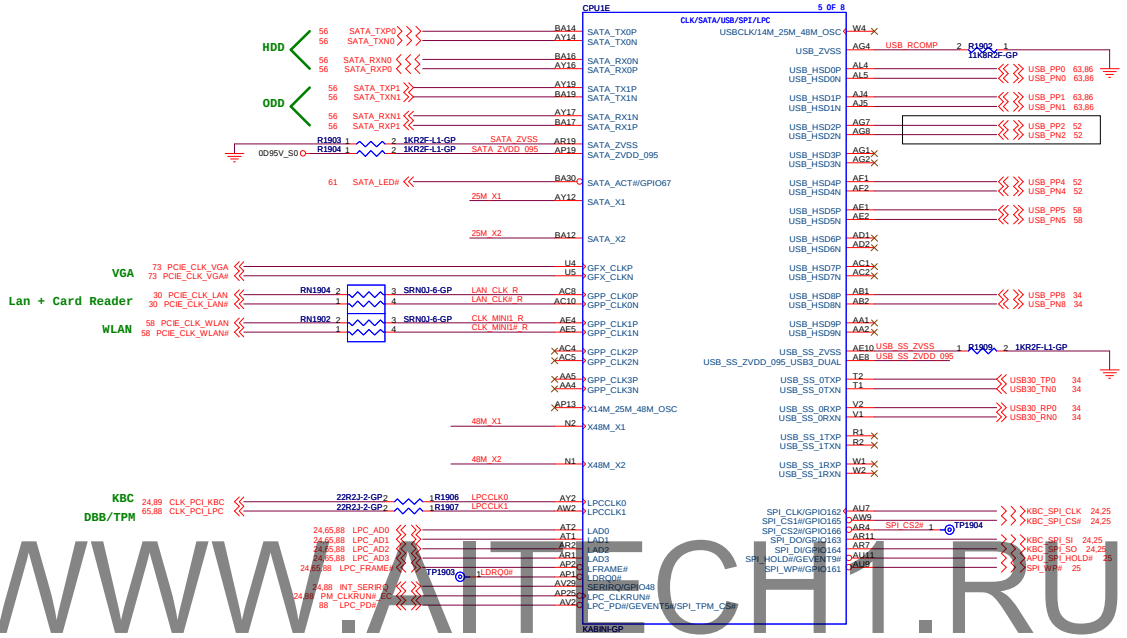
Pair	Device
0	USB2.0 Debug (DB Conn)
1	USB2.0 (DB Conn)
2	Touch Panel
3	
4	CCD (CCD Conn)
5	WLAN + BT (Mini PCI-E)
6	
7	
0/8	USB3.0 & USB 2.0 Charger (MB)
1/9	

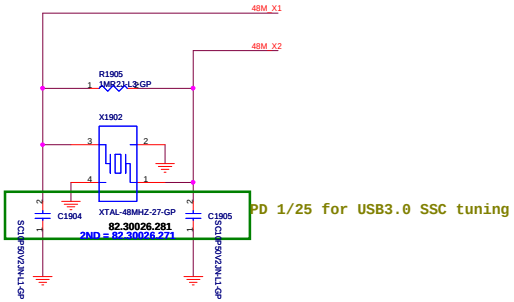
Xtal Table

		CLK
0	System & USB	48M
1	RTC	32.768K
2	SATA	25M
3	LAN	25M
4	VGA	27M

SB 11/27 25M XTAL Reserved for AMD

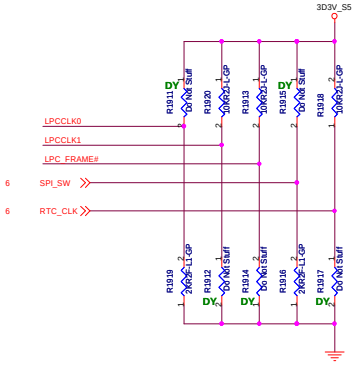






PD 1/25 for USB3.0 SSC tuning

SYSTEM STRAPPINGS



	LPC_CLK0	LPC_CLK1	LFRAME_L	EXPCARD_PCIE_PWREN#	RTC_CLK
PULL HIGH	BOOT FAIL TIMER ENABLED	CLKGEN ENABLED (DEFAULT)	SPI ROM (DEFAULT)	1.8V SPI ROM (DEFAULT)	NORMAL POWR UP/RESET TIMING (DEFAULT)
PULL LOW	BOOT FAIL TIMER DISABLED (DEFAULT)	CLKGEN DISABLED	LPC ROM	3.3V SPI ROM	FAST POWER UP/RESET TIMING FOR SIMULATION

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Title: CPU_SATA/USB/LPC/SPI/CLK

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Title: CPU_GPIO/MISC

Size	Document Number	Rev
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Title

CPU_POWER1

Size	Document Number	Rev
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Title: **CPU_RSVD**

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Title: **CPU_VSS**

Size	Document Number	Rev
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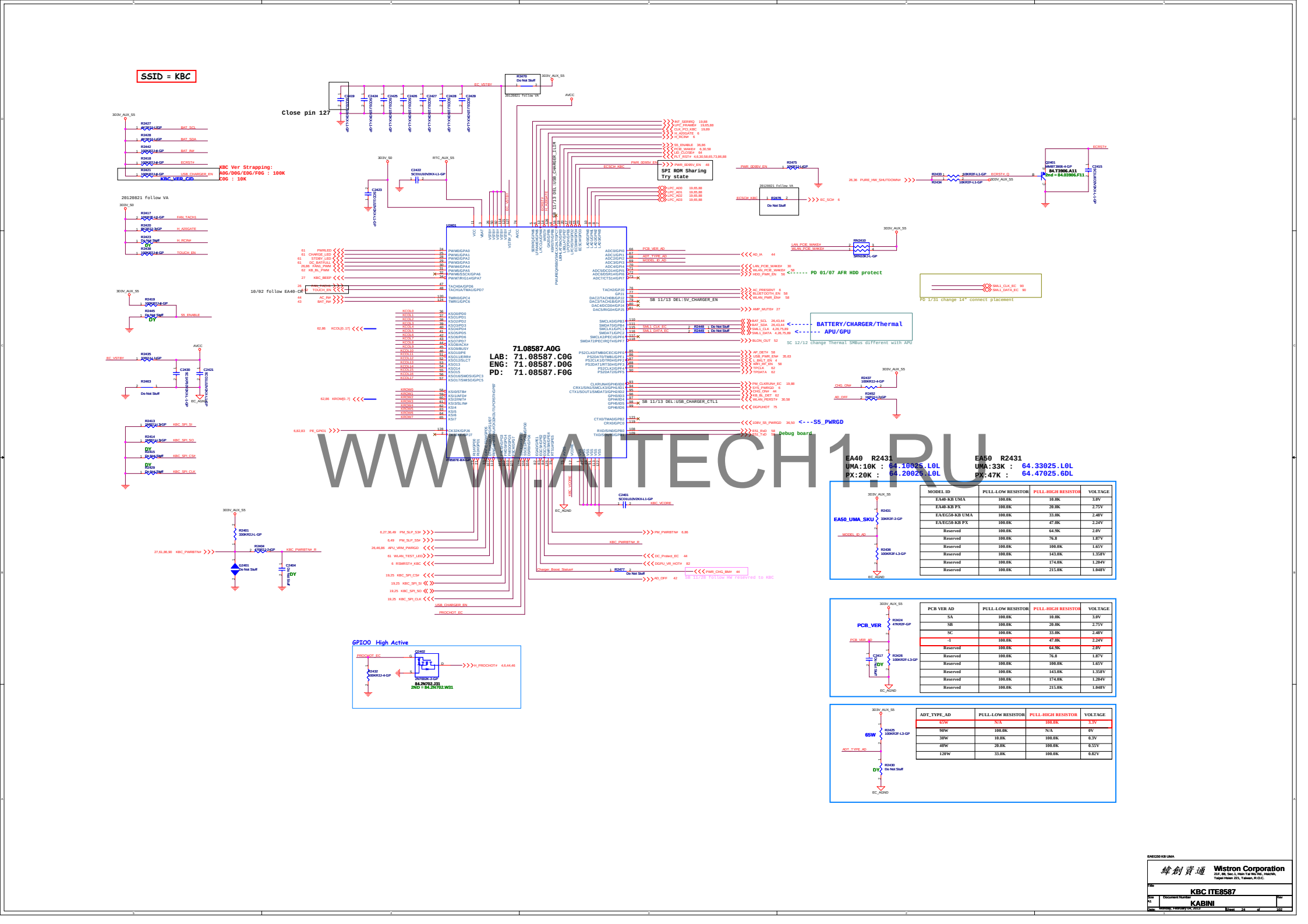


MODEL ID	PULL-LOW RESISTOR	PULL-HIGH RESISTOR	VOLTAGE
EA40-KB UMA	100.0K	10.0K	3.0V
EA40-KB PX	100.0K	20.0K	2.75V
EA/EG50-KB UMA	100.0K	33.0K	2.48V
EA/EG50-KB PX	100.0K	47.0K	2.24V
Reserved	100.0K	64.9K	2.0V
Reserved	100.0K	76.8	1.87V
Reserved	100.0K	100.0K	1.65V
Reserved	100.0K	143.0K	1.358V
Reserved	100.0K	174.0K	1.204V
Reserved	100.0K	215.0K	1.048V

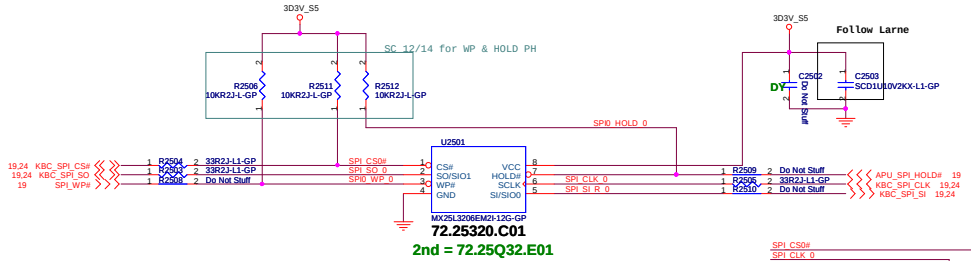
PCB VER AD	PULL-LOW RESISTOR	PULL-HIGH RESISTOR	VOLTAGE
SA	100.0K	10.0K	3.0V
SB	100.0K	20.0K	2.75V
SC	100.0K	33.0K	2.48V
-1	100.0K	47.0K	2.24V
Reserved	100.0K	64.9K	2.0V
Reserved	100.0K	76.8	1.87V
Reserved	100.0K	100.0K	1.65V
Reserved	100.0K	143.0K	1.358V
Reserved	100.0K	174.0K	1.204V
Reserved	100.0K	215.0K	1.048V

ADT_TYPE_AD	PULL-LOW RESISTOR	PULL-HIGH RESISTOR	VOLTAGE
65W	N/A	100.0K	3.3V
90W	100.0K	N/A	0V
30W	10.0K	100.0K	0.3V
40W	20.0K	100.0K	0.55V
120W	33.0K	100.0K	0.82V

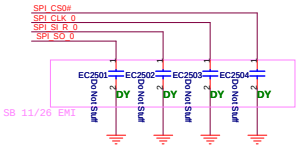
SSID = Flash.ROM

SPI FLASH ROM (4M byte) for KBC

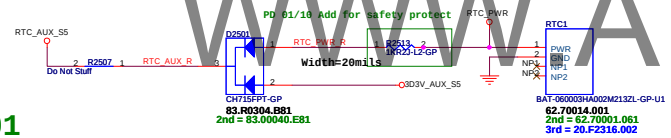
PD 1/28 SPI ROM：4MB Dual IO
1st. MXIC : 72.25320.C01
2nd. WINBOND : 72.25Q32.E01
(手置件)請PCC移至DIP件



SPI ROM：4MB Dual IO



SSID = RBAT



CR2032額外備料:
1.KTS: 23.20068.001
2.DBV: 23.22065.001

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Title: Flash/RTC
Size: | Project Name: KABINI | Rev: SA
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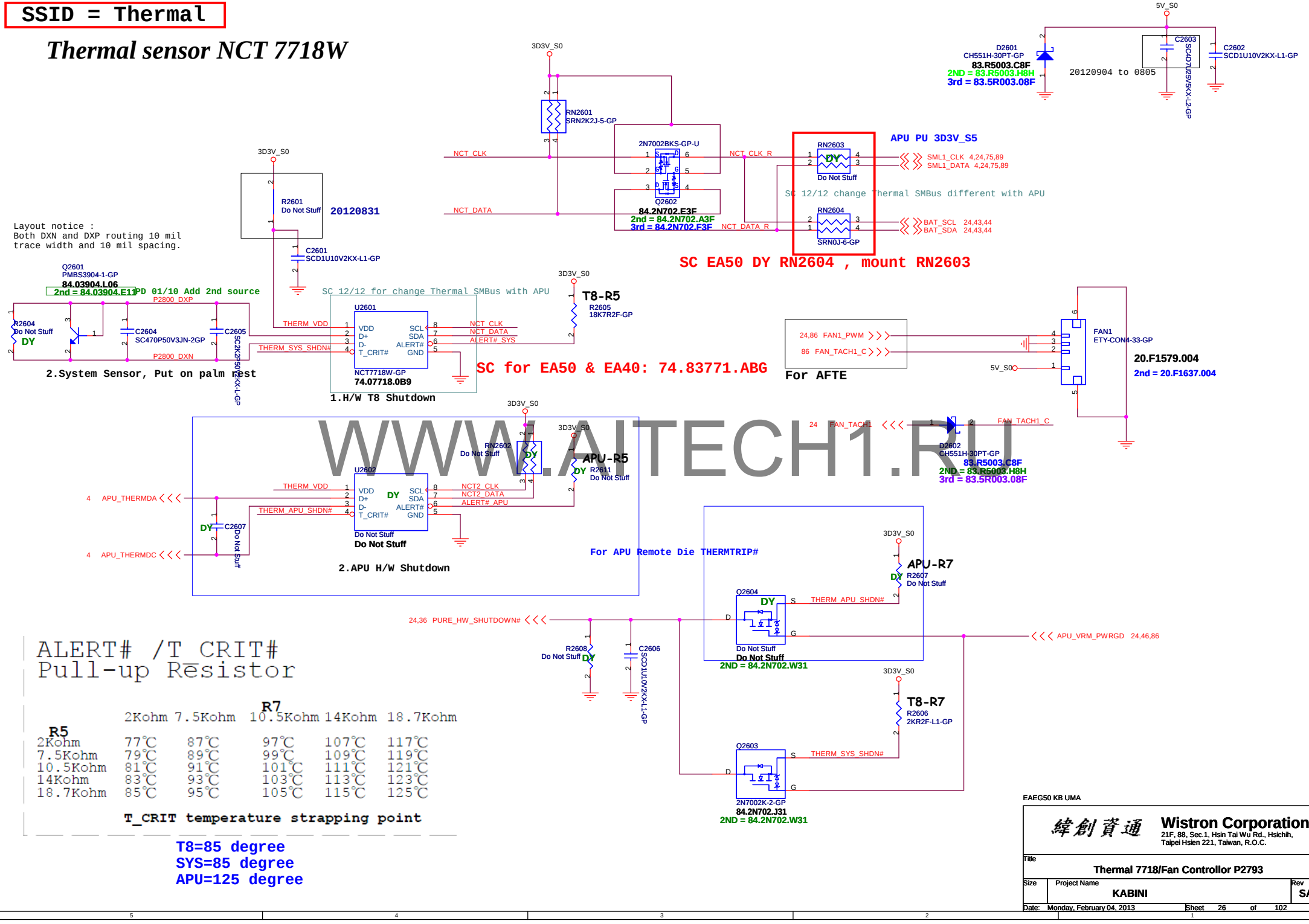
SSID = Thermal

Thermal sensor NCT 7718W



ALERT# /T_CRIT#
Pull-up Resistor

R5 \ R7	2Kohm	7.5Kohm	10.5Kohm	14Kohm	18.7Kohm
2Kohm	77℃	87℃	97℃	107℃	117℃
7.5Kohm	79℃	89℃	99℃	109℃	119℃
10.5Kohm	81℃	91℃	101℃	111℃	121℃
14Kohm	83℃	93℃	103℃	113℃	123℃
18.7Kohm	85℃	95℃	105℃	115℃	125℃

T_CRIT temperature strapping point

T8=85 degree
SYS=85 degree
APU=125 degree

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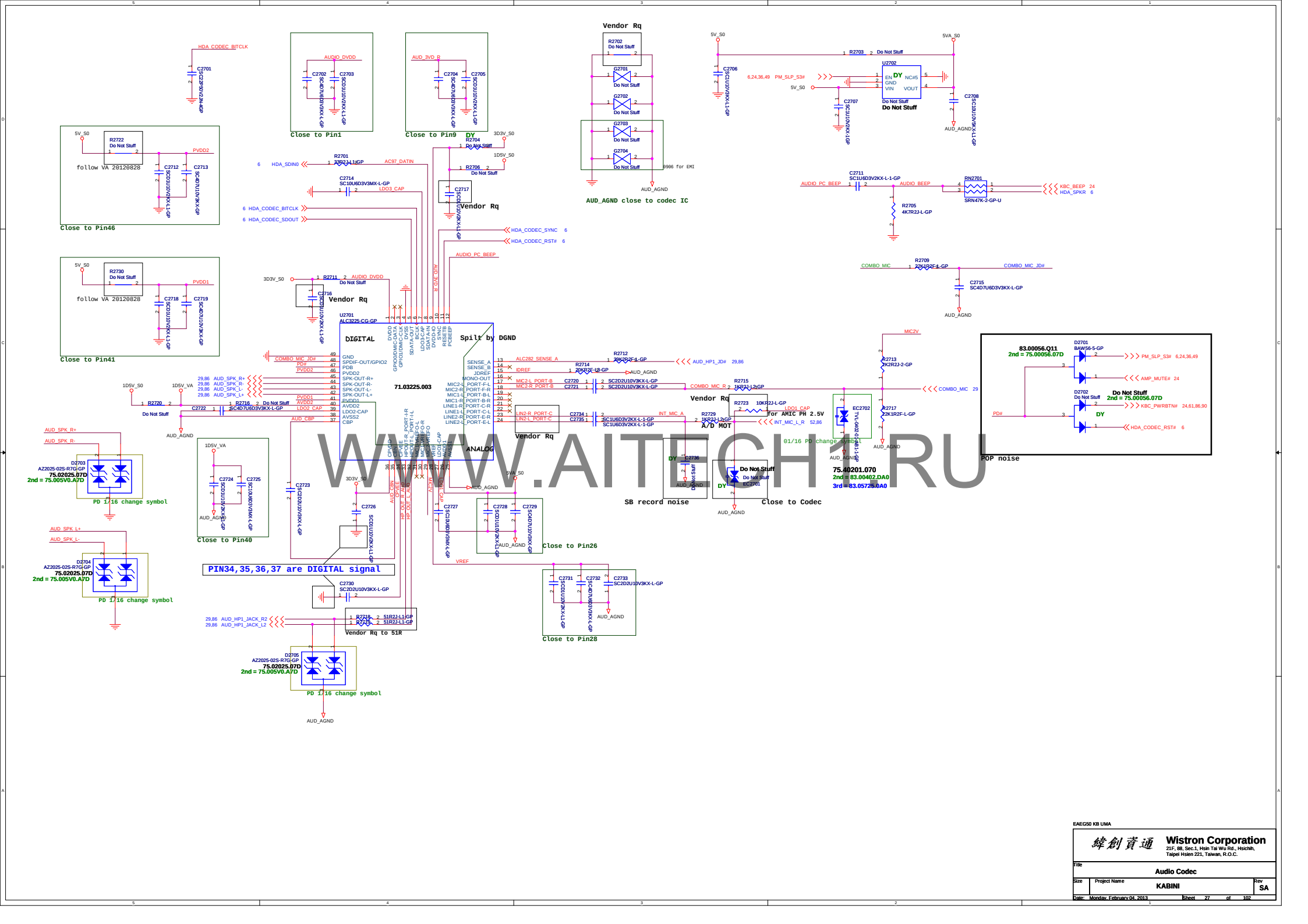
Title: Thermal 7718/Fan Controllor P2793
Size | Project Name: KABINI | Rev: SA
Date: Monday, February 04, 2013 | Sheet 26 of 102



EAEG50 KB UMA

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

Title: Audio Codec

Size | Project Name: KABINI | Rev: SA

Date: Monday, February 04, 2013 | Sheet 27 of 102

EAEG50 KB UMA

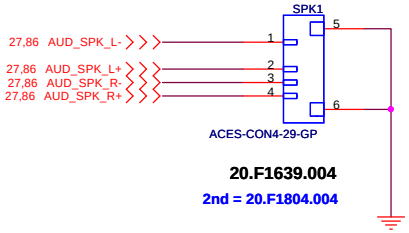
緯創資通 **Wistron Corporation**
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

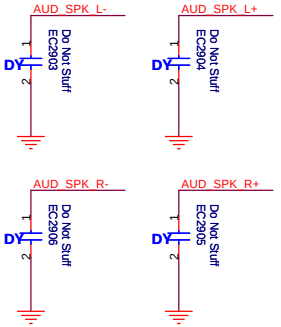
Title	**AMP ALC1001**	
Size	Project Name **KABINI**	Rev **SA**
Date: Friday, September 07, 2012	Sheet 28 of 102	

SSID = AUDIO

Speaker

2W 4ohm X 2 speaker

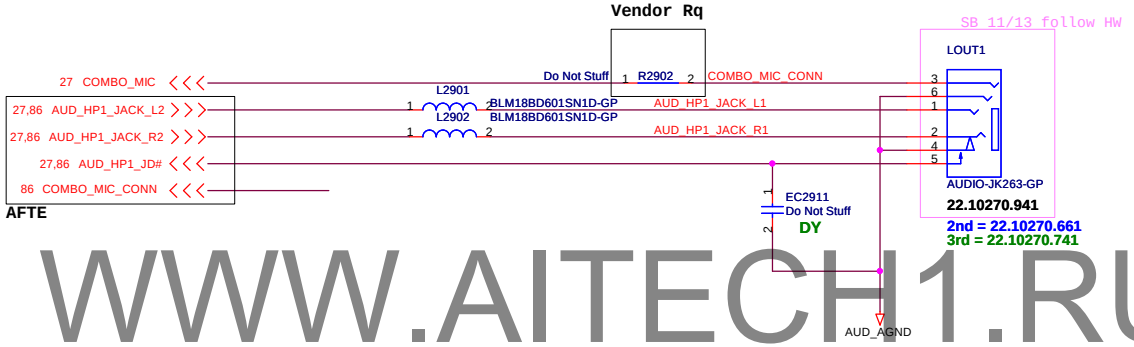




Layout Note:

Trace width=40mil

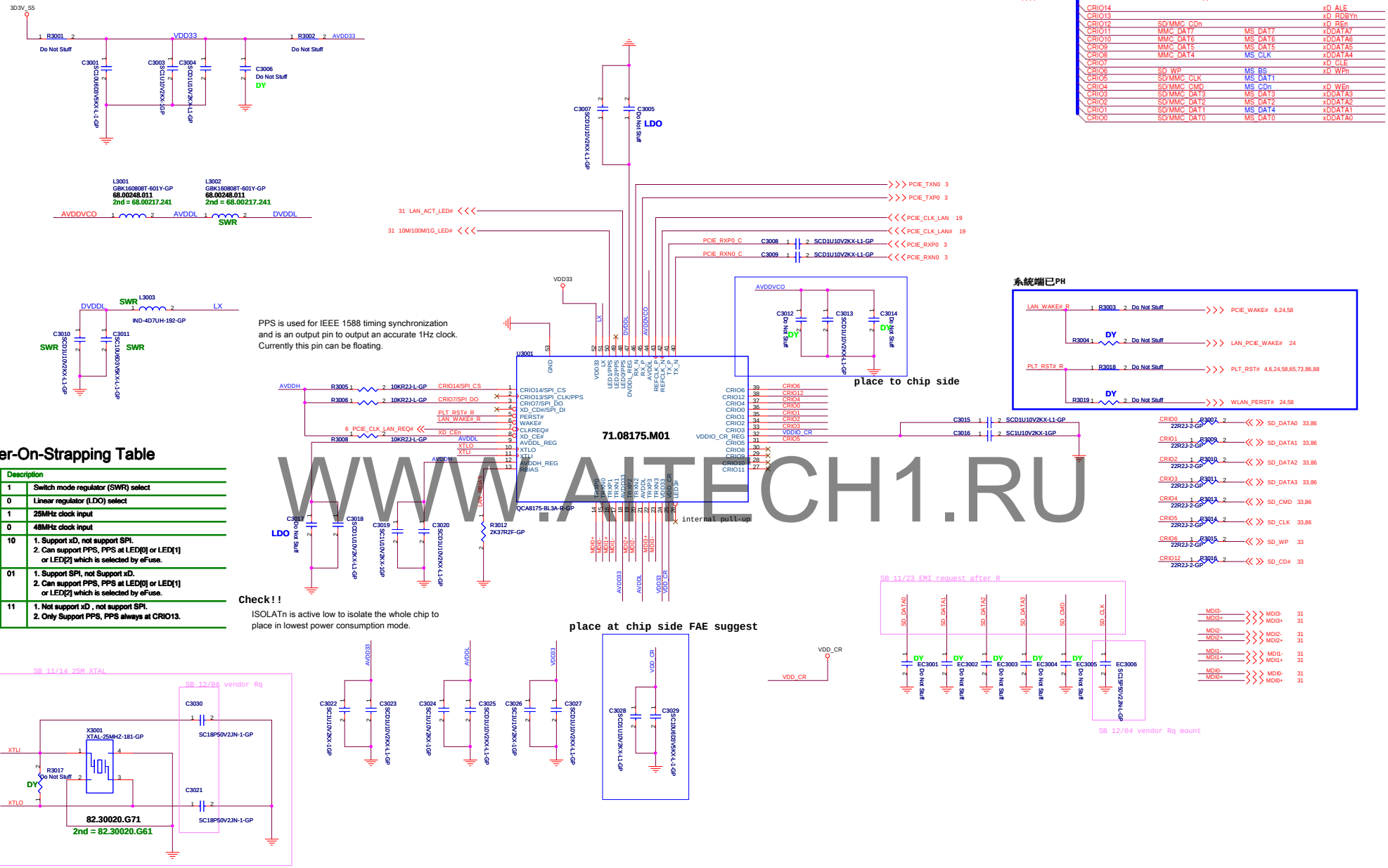
Combo Jack



EAEG50 KB UMA

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

Title	Audio Jack	
Size	Project Name: KABINI	Rev: SA
Date: Monday, February 04, 2013	Sheet 29 of 102	



EAEG50 KB UMA

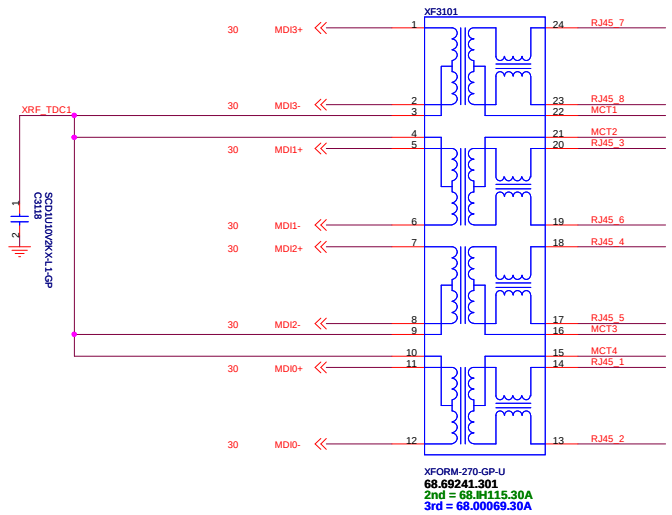
Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.

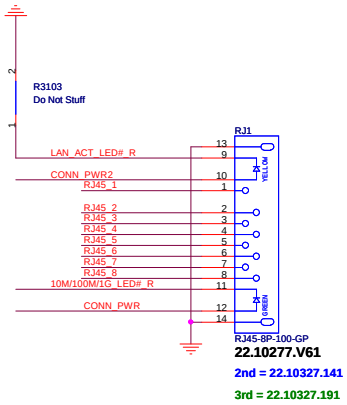
Title: RTL8411

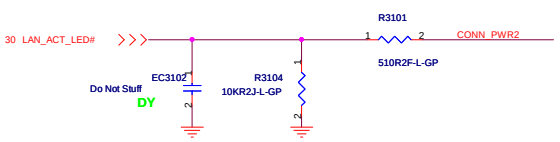
Size | Project Name: KABINI | Rev: SA

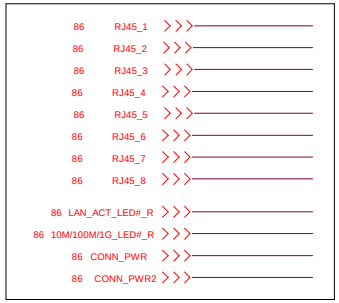
Date: Monday, February 04, 2013 | Sheet 30 of 102

SSID = LAN



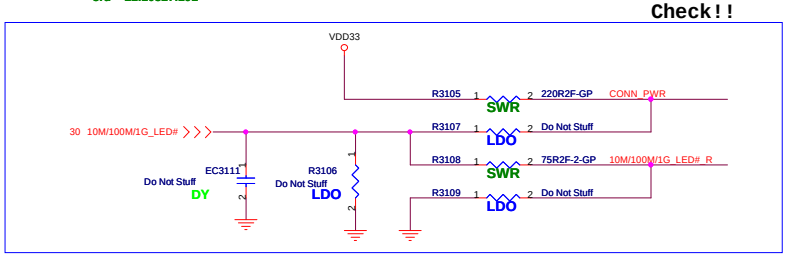


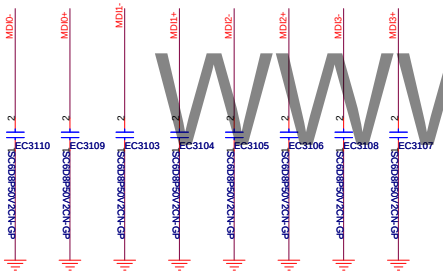


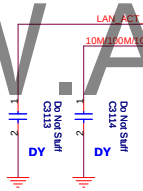


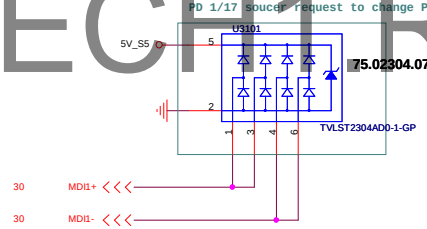
For AFTE

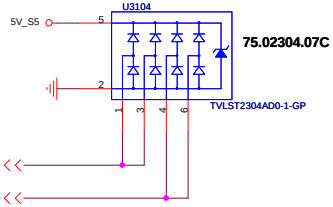
Check!!

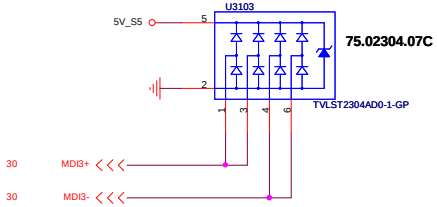


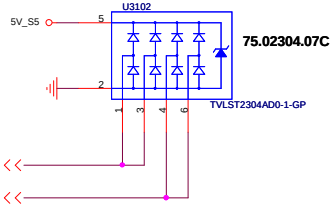


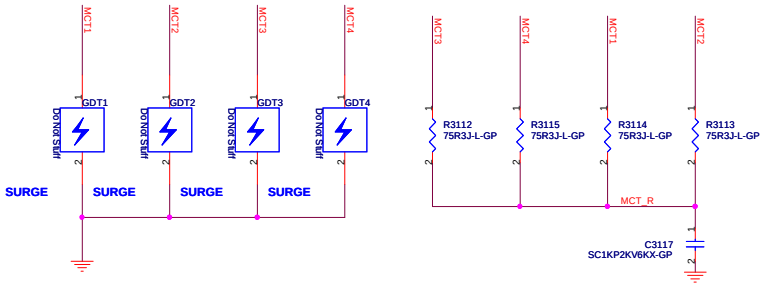












EAEG50 KB UMA

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

Title: LAN CONNECTOR
Size: Project Name: KABINI
Rev: SA
Date: Monday, February 04, 2013
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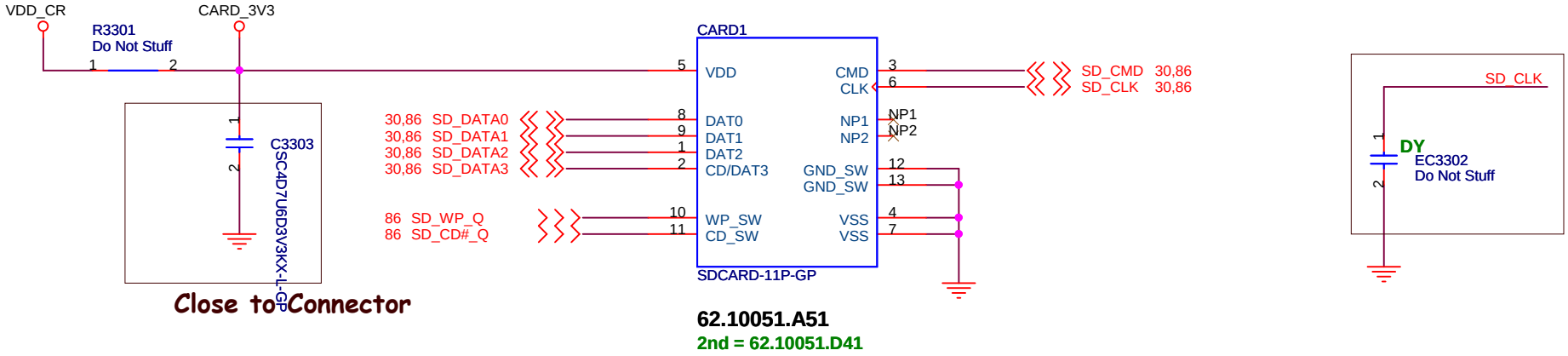
EAEG50 KB UMA

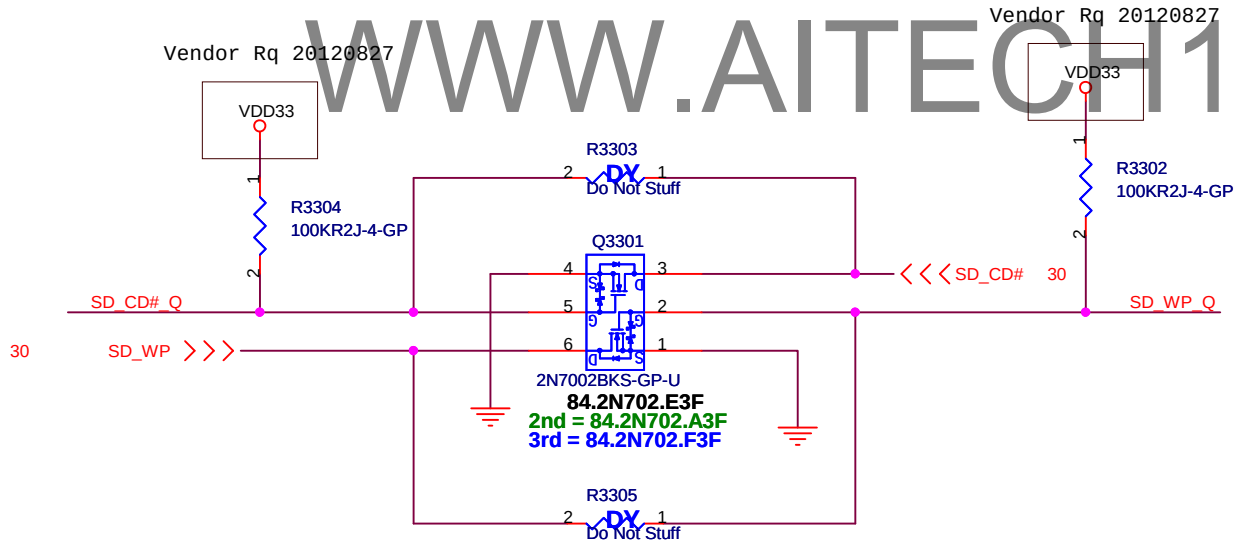
緯創資通 **Wistron Corporation**
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title	**Card Reader IC**	
Size	Project Name **KABINI**	Rev **SA**
Date: Friday, September 07, 2012	Sheet 32 of 102	

SSID = SDIO

SD//MS Card Reader



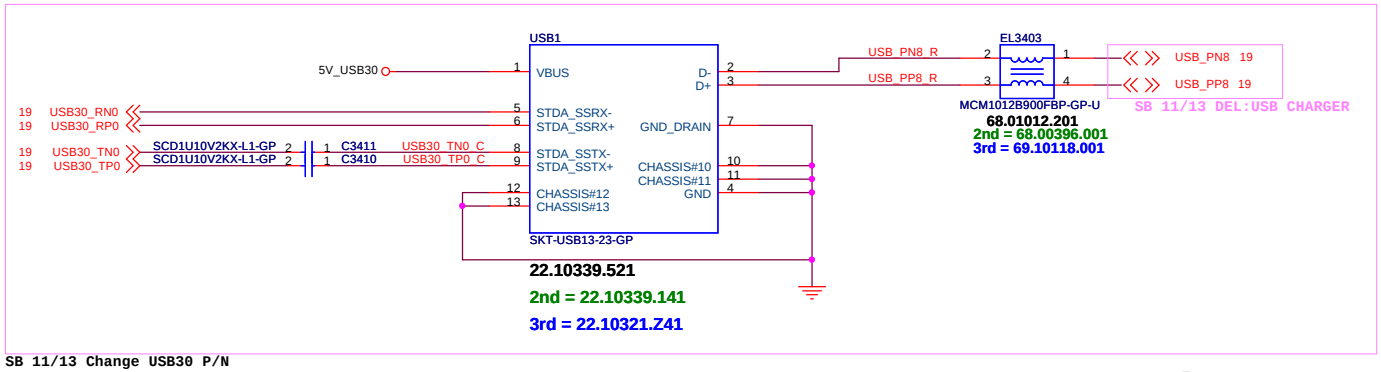


For CR conn normal colse type

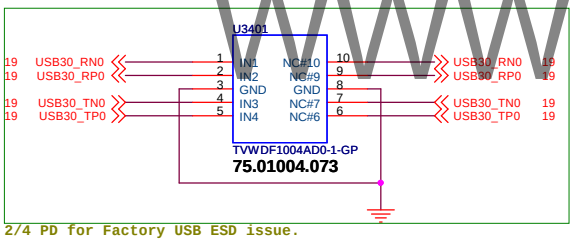
EAEG50 KB UMA

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	Project Name: **KABINI**	Rev: **SA**
Date: Monday, February 04, 2013	Sheet 33 of 102	

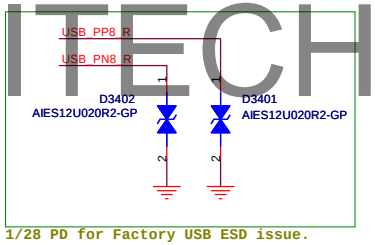
USB 2.0 CONTACT PIN		USB 3.0 CONTACT PIN	
PIN NO.	SIGNAL NAME	PIN NO.	SIGNAL NAME
1	VBUS	5	StdA_SSRX-
2	D-	6	StdA_SSRX+
3	D+	7	GND_DRAIN
4	GND	8	StdA_SSTX-
		9	StdA_SSTX+



SB 11/13 Change USB30 P/N



2/4 PD for Factory USB ESD issue.



1/28 PD for Factory USB ESD issue.

EAEG50 KB UMA

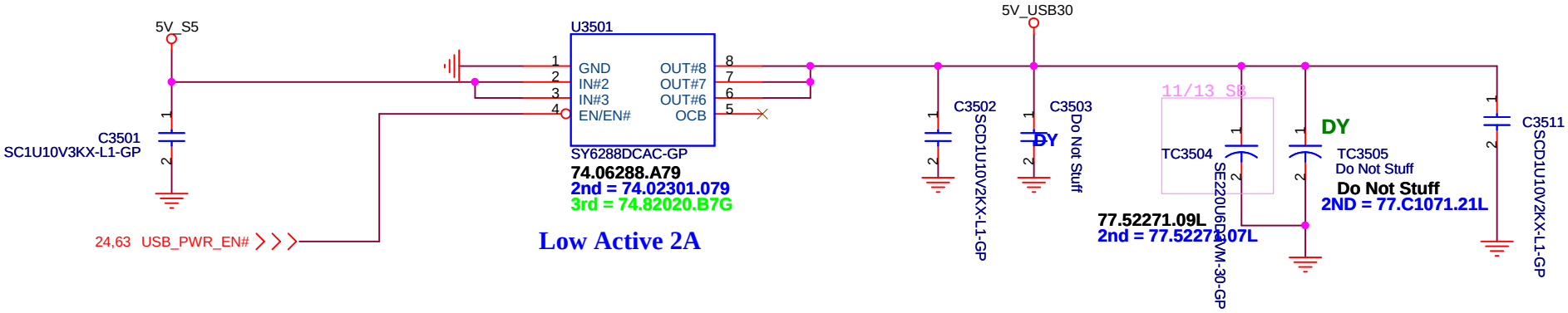
緯創資通 Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title: USB 3.0 Port

Size | Project Name: KABINI | Rev: SA

Date: Monday, February 04, 2013 | Sheet 34 of 102

SB 11/13 Change USB30

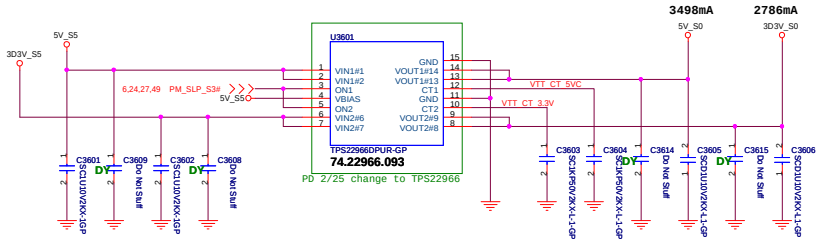


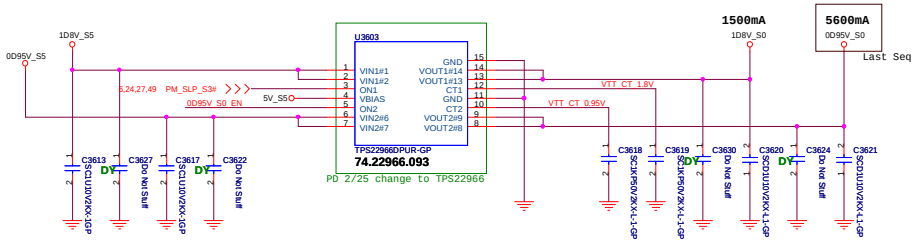
SC 12/20 EA50: Mount TC3504 , DY TC3505

EAEG50 KB UMA

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	Project Name: KABINI	Rev: SA
Date: Monday, February 04, 2013	Sheet 35 of 102	

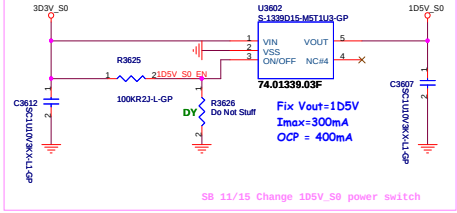
Power Sequence

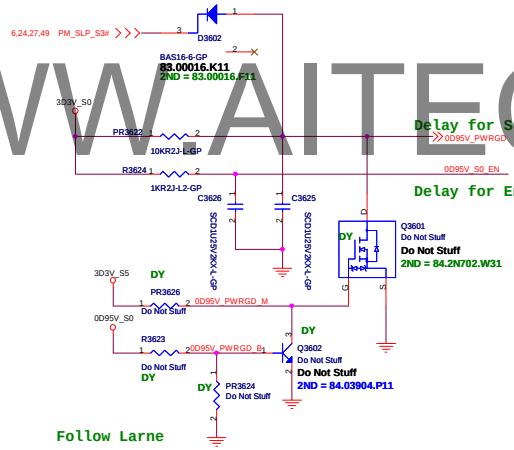


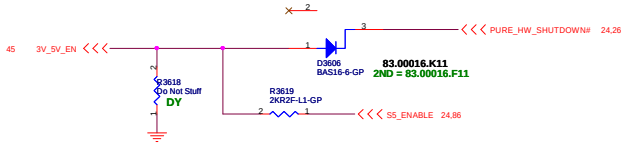


LDO for 1D5V_S0 (SB 11/15)

100mA for Audio chipset







EAEG50 KB UMA

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

Title: Power Plane Enable

Size | Project Name: KABINI | Rev: SA

Date: Monday, February 25, 2013 | Sheet 36 of 102

EAEG50 KB UMA

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

Title	ADAPTER OCP / S3 reduction	
Size	Project Name: KABINI	Rev: SA
Date: Thursday, January 24, 2013	Sheet 37 of 102	

EAEG50 KB UMA

緯創資通

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

Title: **Deep Standby**

Size	Project Name	Rev
	KABINI	*SA*

Date: Friday, September 07, 2012 Sheet 38 of 102

EAEG50 KB UMA

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	Project Name KABINI	Rev SA
Date: Friday, September 07, 2012	Sheet 39 of 102	

EAEG50 KB UMA

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

Title

Size	Project Name	Rev
	KABINI	SA

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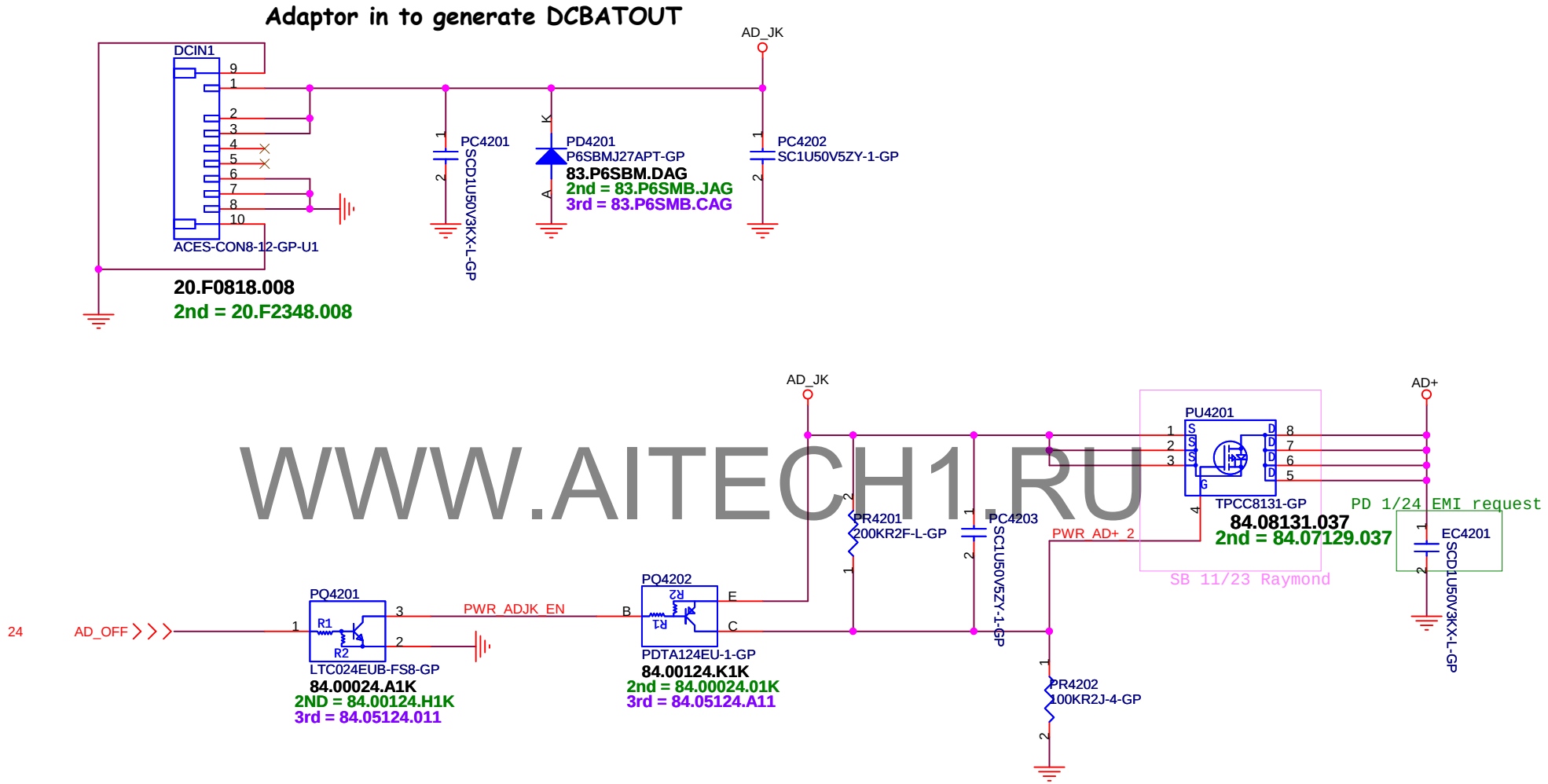
EAEG50 KB UMA

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

Title		
Size	Project Name: KABINI	Rev: SA
Date: Friday, September 07, 2012	Sheet 41 of 102	

ANNIE solution



EAEG50 KB UMA

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

Title: **DCIN JACK**

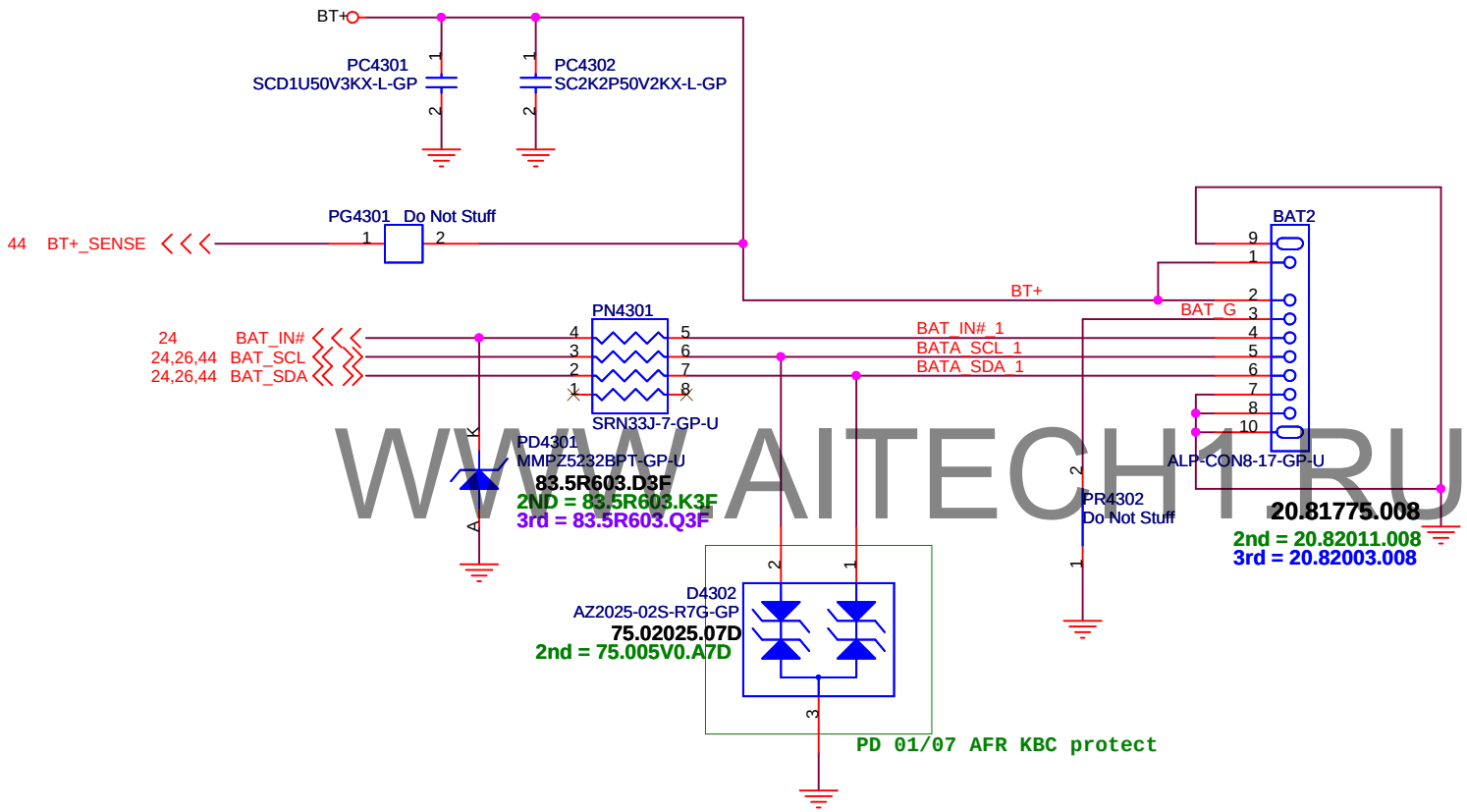
Size	Project Name	Rev
	KABINI	SA

Date: Tuesday, February 19, 2013 Sheet 42 of 102

BATTERY CONNECTOR

86 BATA_SDA_1
86 BATA_SCL_1
86 BAT_IN#_1
86 BAT_G

For AFTE



EAEG50 KB UMA

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 | Project Name: KABINI | Rev: SA

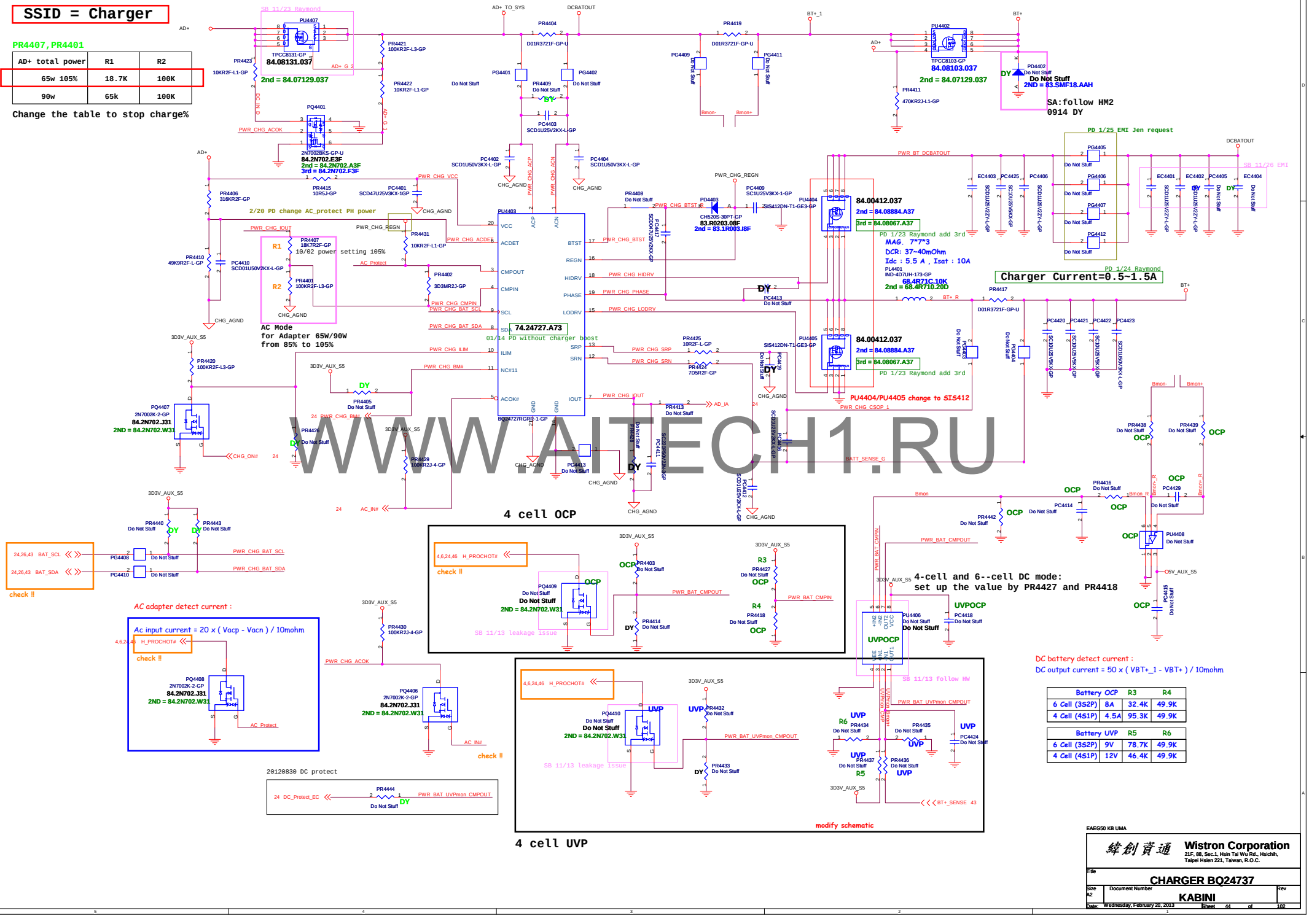
Date: Wednesday, February 20, 2013 | Sheet 43 of 102

SSID = Charger

PR4407,PR4401

AD+ total power	R1	R2
65w 105%	18.7K	100K
90w	65k	100K

Change the table to stop charge%



EAEG50 KB UMA

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

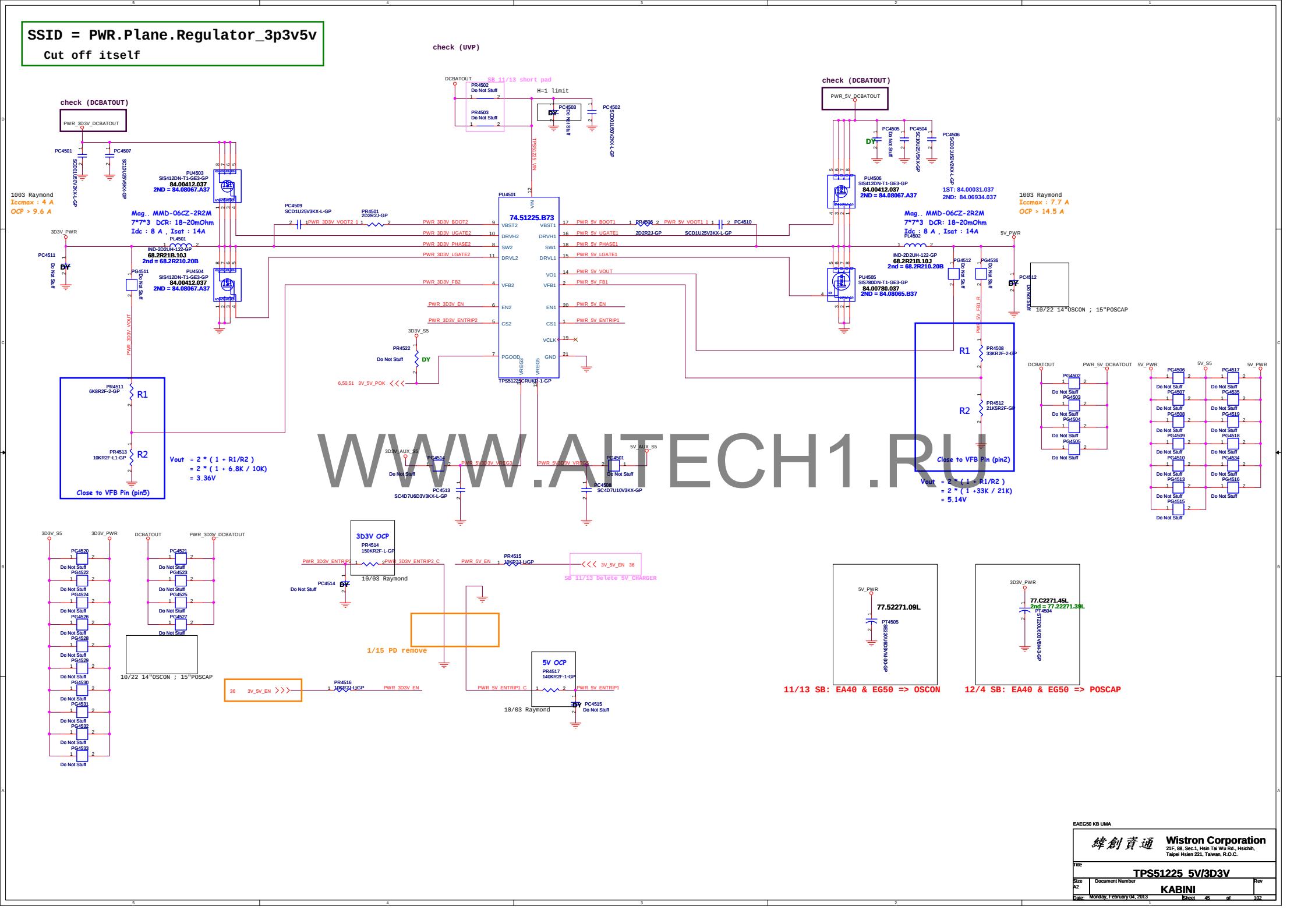
Title: CHARGER BQ24737

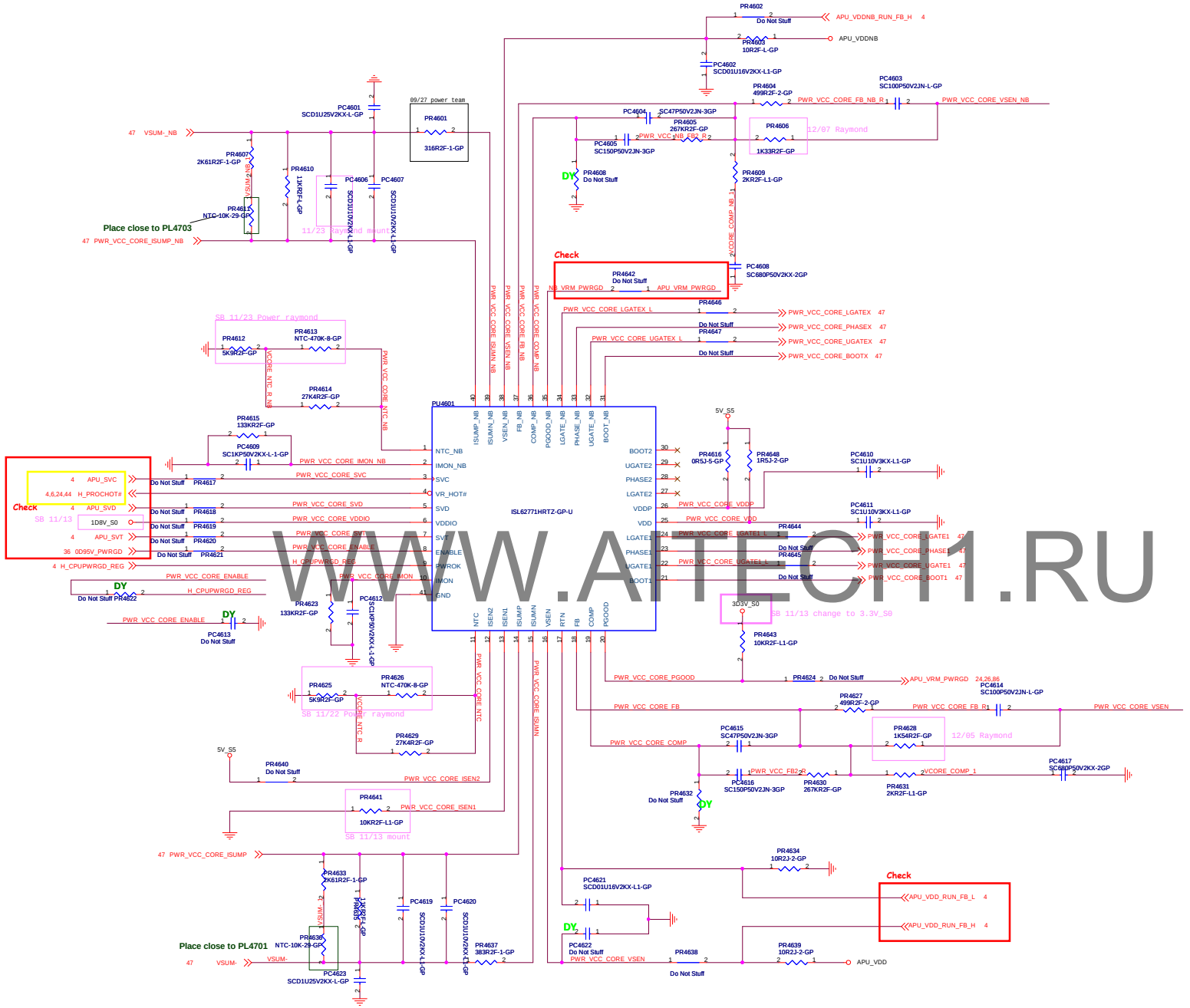
Size: A2 | Document Number: KABINI | Rev:

Date: Wednesday, February 20, 2013 | Sheet 44 of 102

SSID = PWR.Plane.Regulator_3p3v5v

Cut off itself





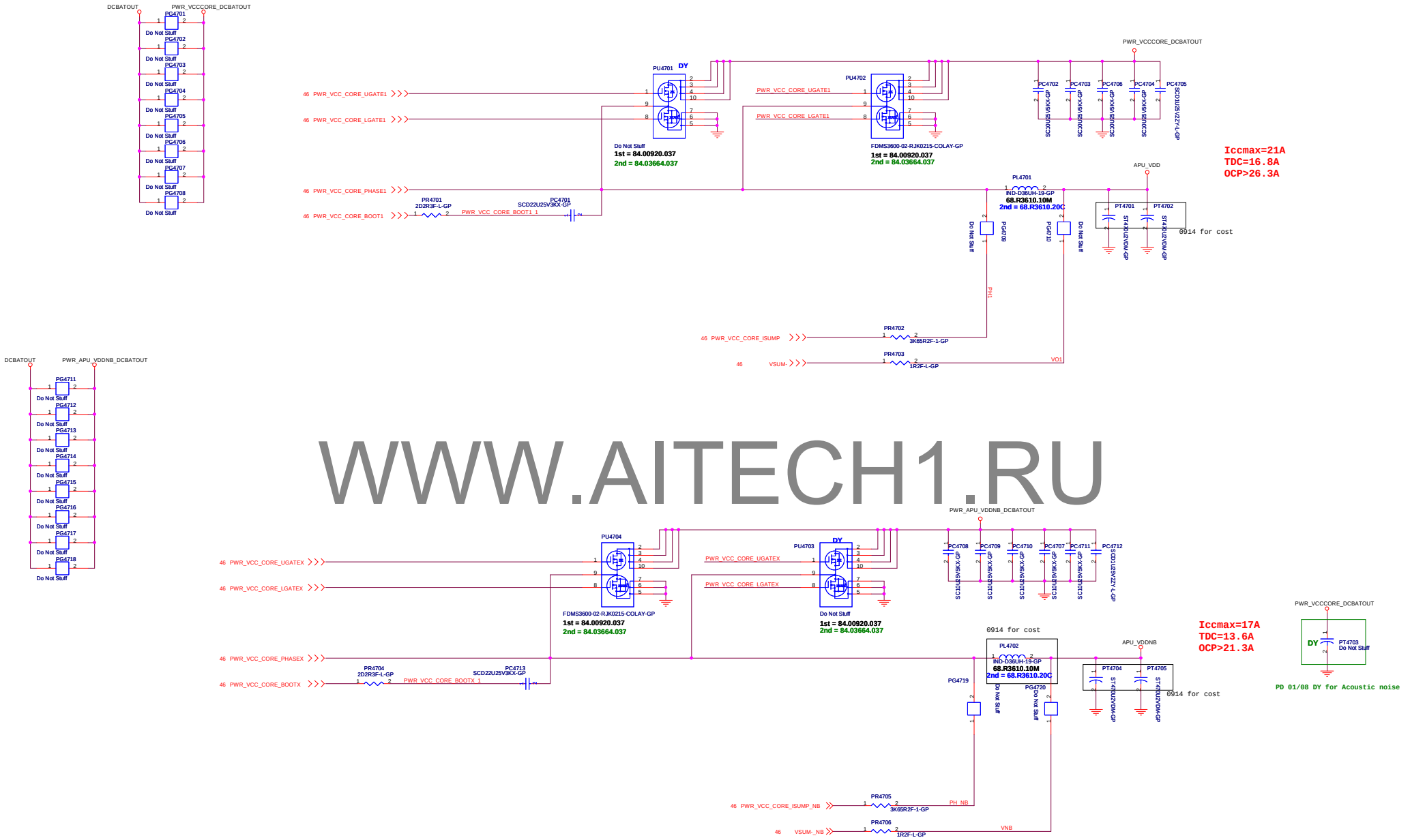
EAEG50 KB UMA

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

Title: TPS51631_CPUCORE(1/2)

Size: A2 | Document Number: KABINI | Rev:

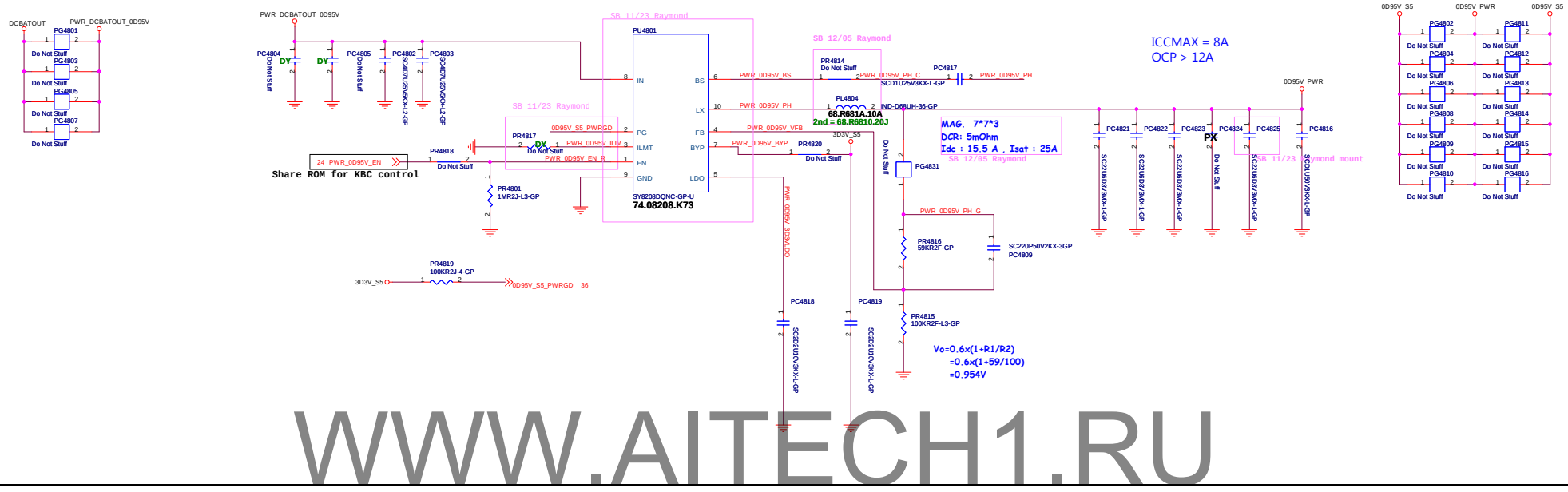
Date: Monday, February 04, 2013 | Sheet 46 of 102



EAEG50 KB UMA

緯創資通	Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.
Title	TPS51631_CPUCORE(2/2)
Size: A2	Document Number: KABINI
Rev	
Date: Monday, February 04, 2013	Sheet 47 of 102

SY8208D for 0D95V



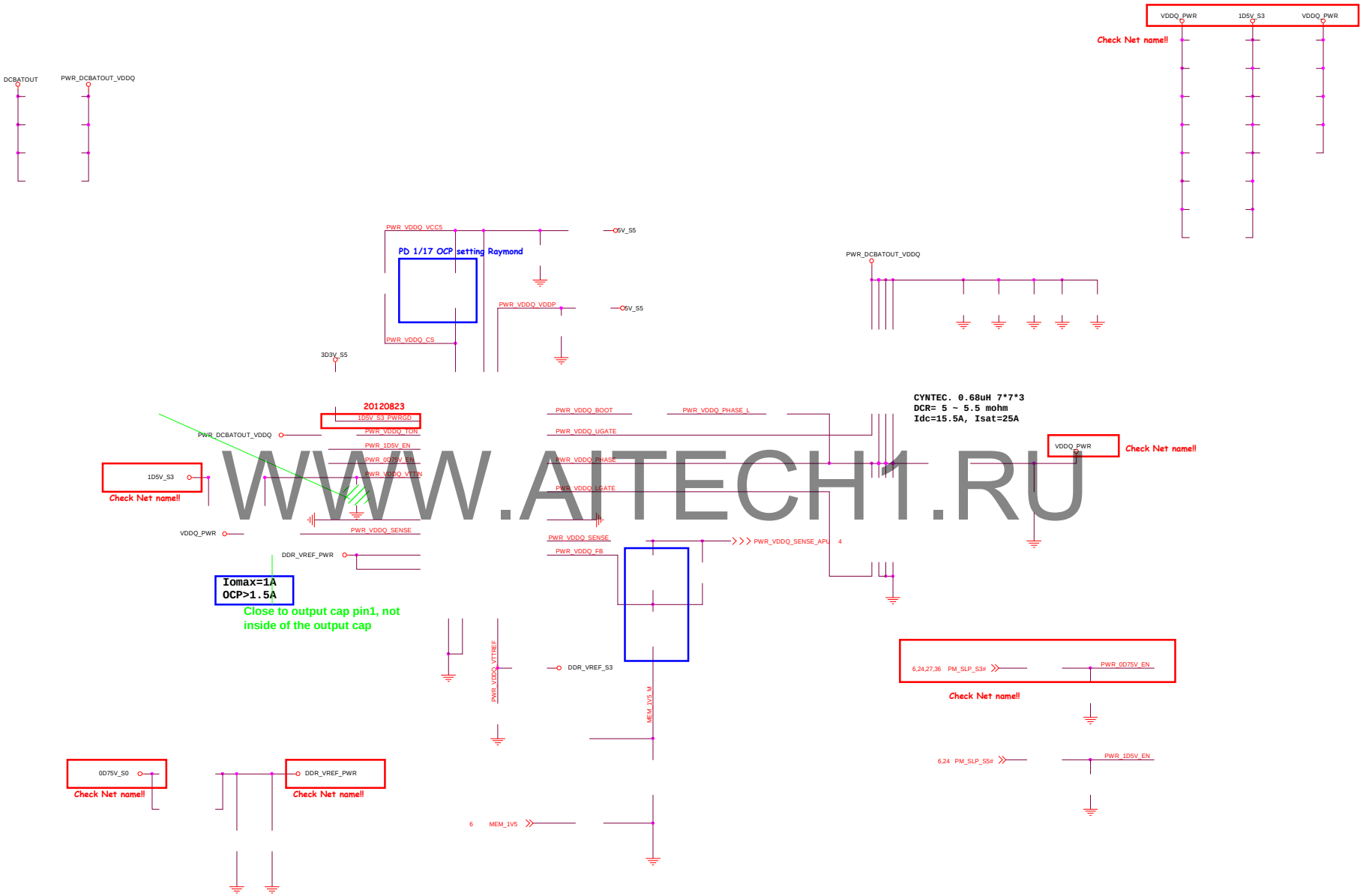
EAEG50 KB UMA

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

Title: DC to DC 0D95V(RT8237C)

Size: A2 | Document Number: KABINI | Rev:

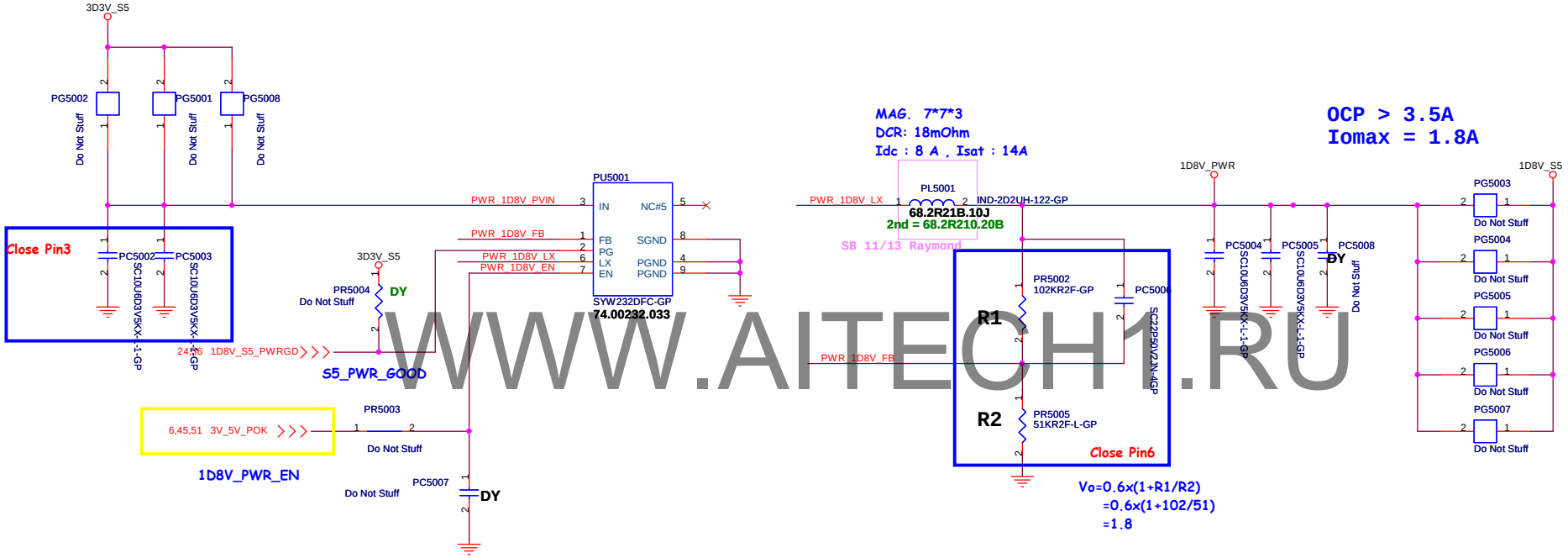
Date: Tuesday, February 19, 2013 | Sheet 48 of 102



EAEG50 KB UMA

緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.		
Title: RT8207		
Size: A2	Document Number: KABINI	Rev
Date: Monday, February 04, 2013	Sheet 49 of 102	

SSID = PWR.Plane.Regulator_1p8v



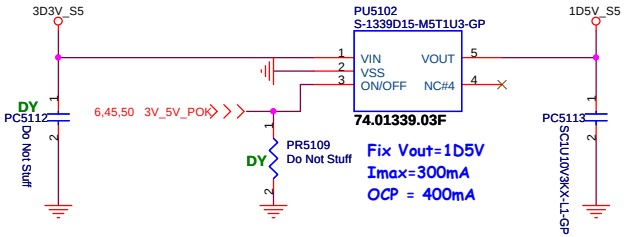
EAEG50 KB UMA

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

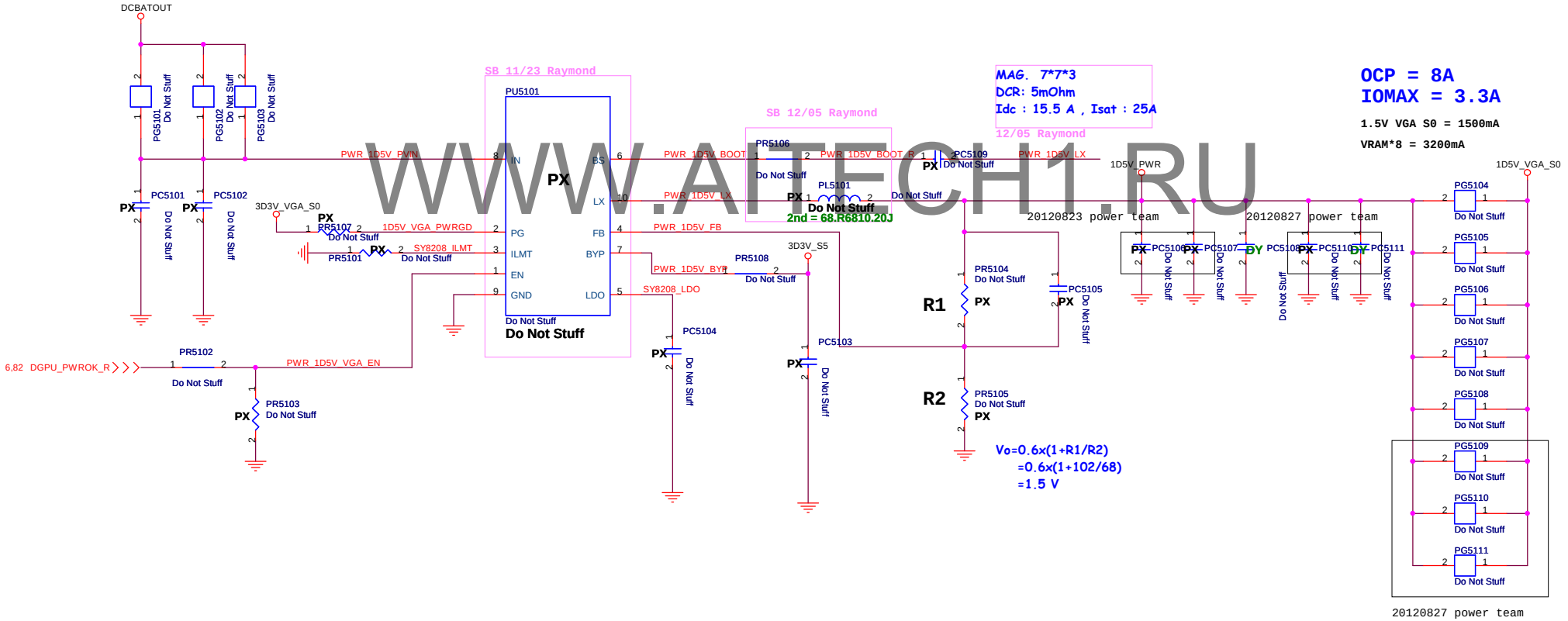
Title	1D8V_S0 SYW232	
Size A3	Document Number KABINI	Rev
Date: Monday, February 04, 2013	Sheet 50 of 102	

LDO for 1D5V_S5 (SB 11/13)

1.5V S0 = 100mA(VDDIO_AZ) + 100mmA(Audio) + 600mA(Minicard DY) = 200mA



SY8208D for 1D5V_VGA_S0 (SB 11/13)



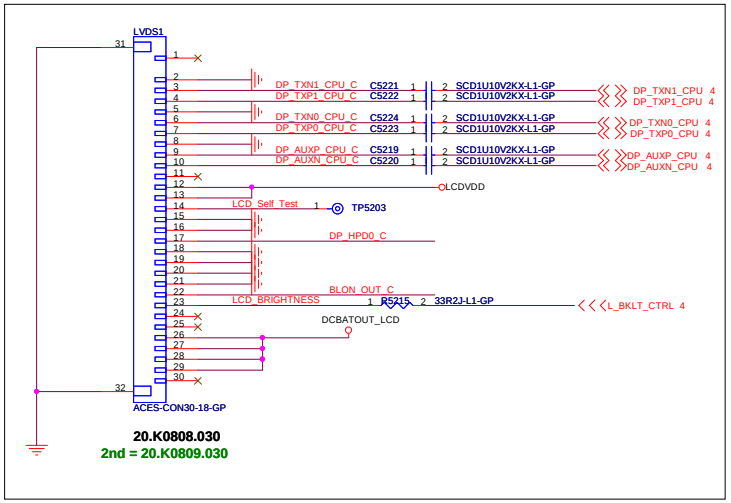
EAEG50 KB UMA

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

Title	1D5V_S5 SY8208D	
Size A3	Document Number KABINI	Rev
Date: Tuesday, February 19, 2013	Sheet 51 of 102	

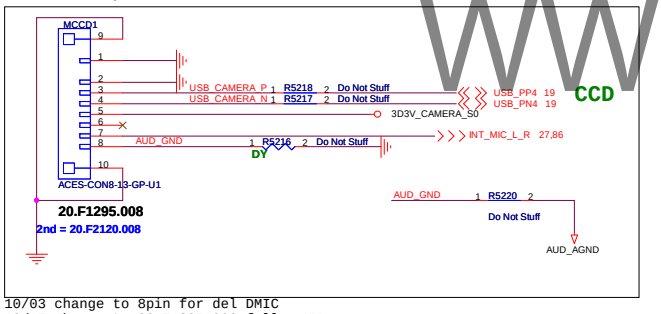
SSID = VIDEO

eDP Conn.



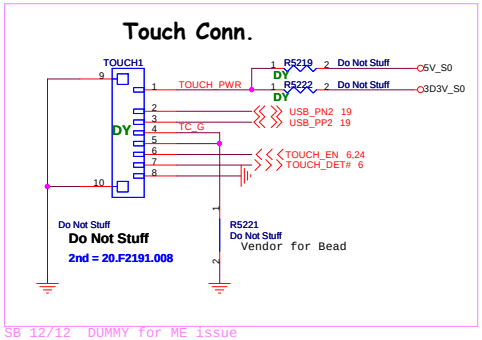
10/04 change to 20.K0808.030 for ME request

Camera+MIC Conn.



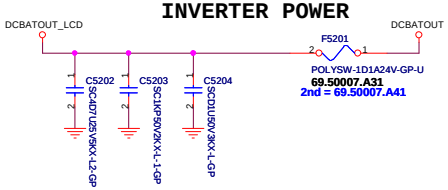
10/03 change to 8pin for del DMIC
10/15 change to 20.F1295.008 follow HW

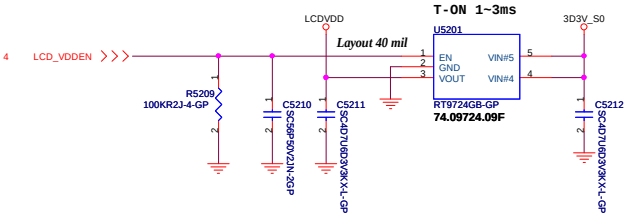
Touch Conn.

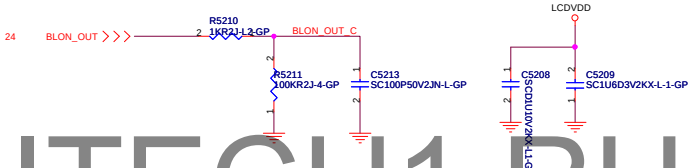


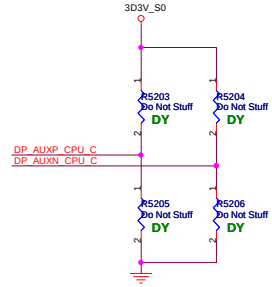
SB 12/12 DUMMY for ME issue
SC NO support

INVERTER POWER

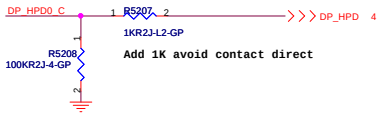




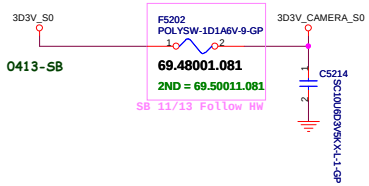


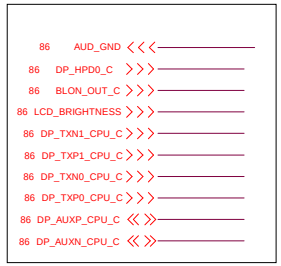


EDP HPD High active



Camera Power

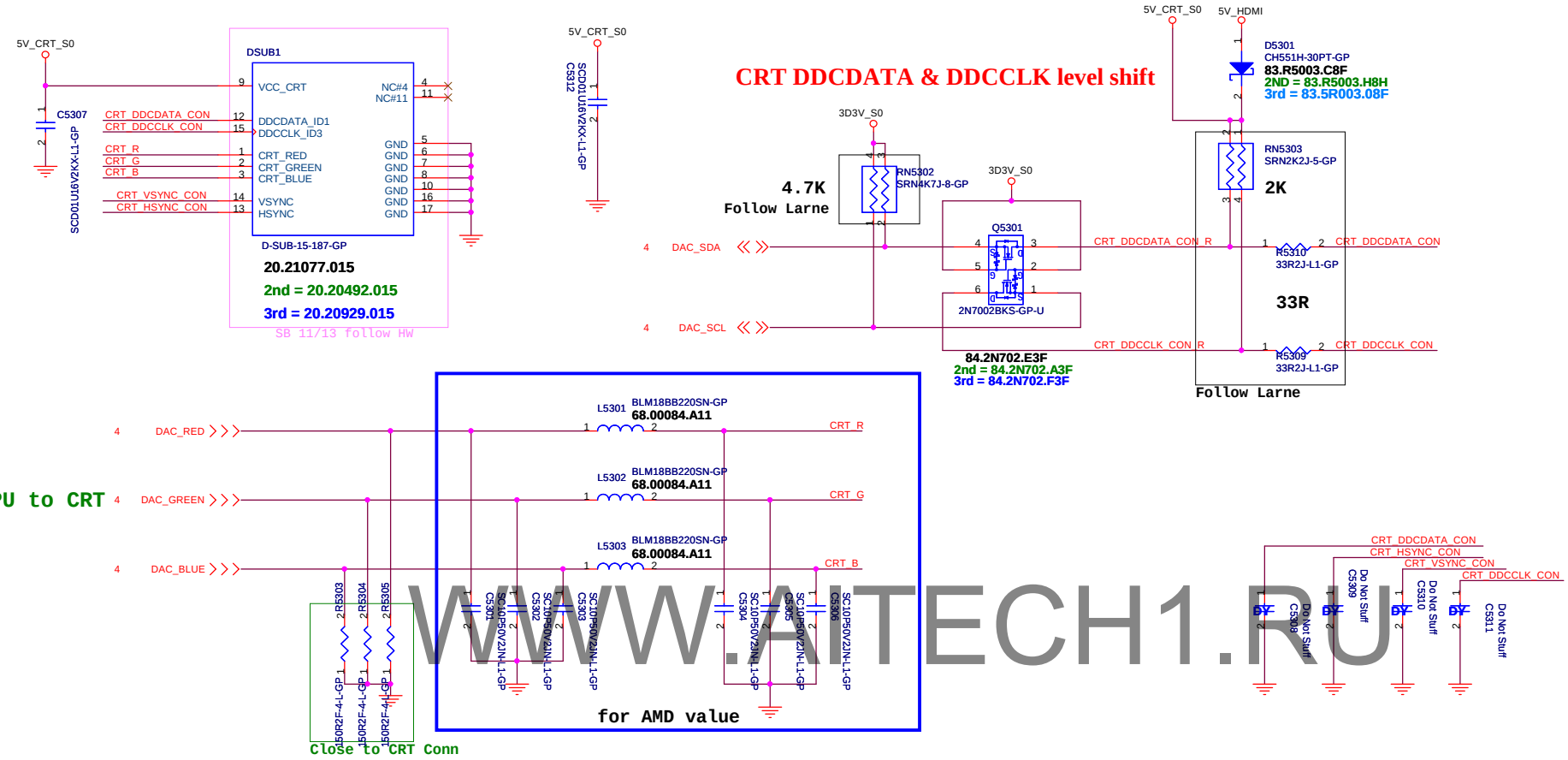




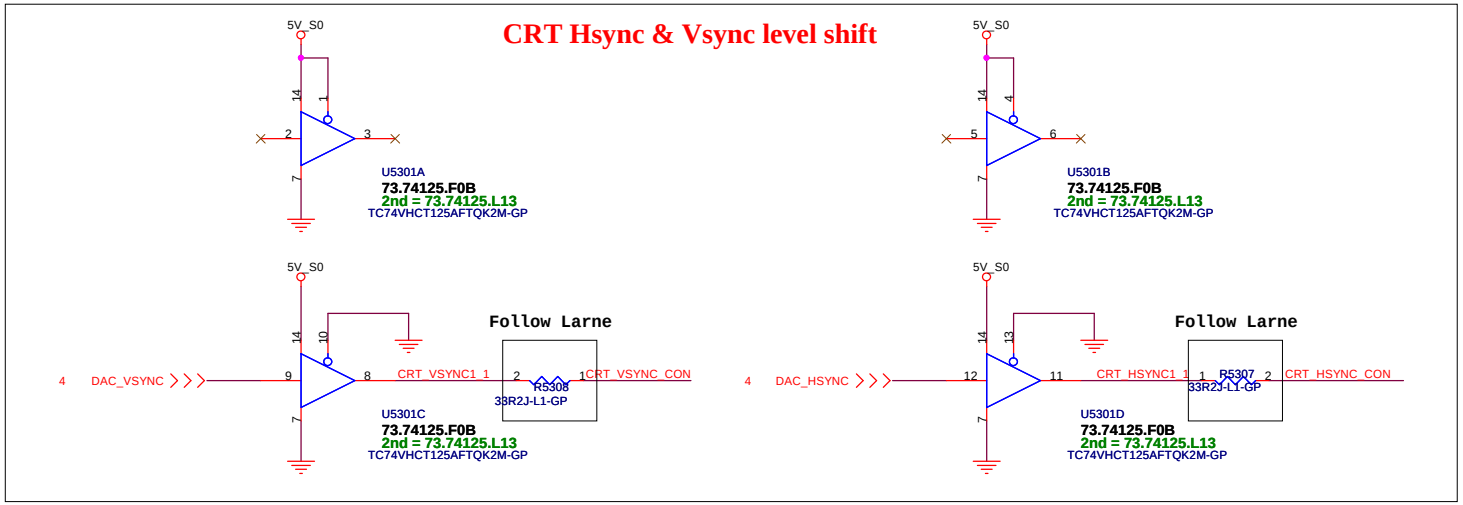
For AFTE

EAEG50 KB UMA

緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.		
Title: LCD Connector		
Size	Project Name: KABINI	Rev: SA
Date: Monday, February 25, 2013	Sheet 52 of 102	



10/16 follow COMAL



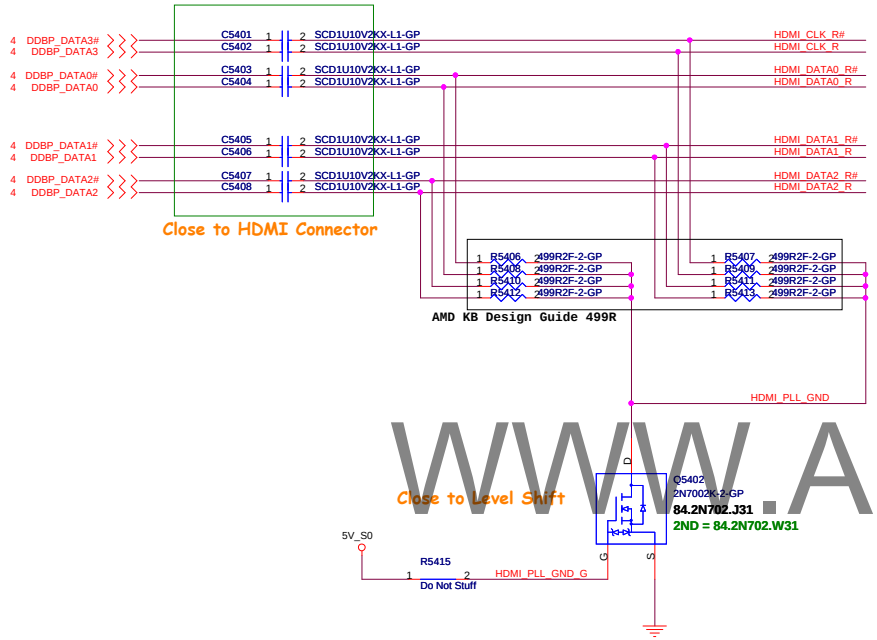
EAEG50 KB UMA

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

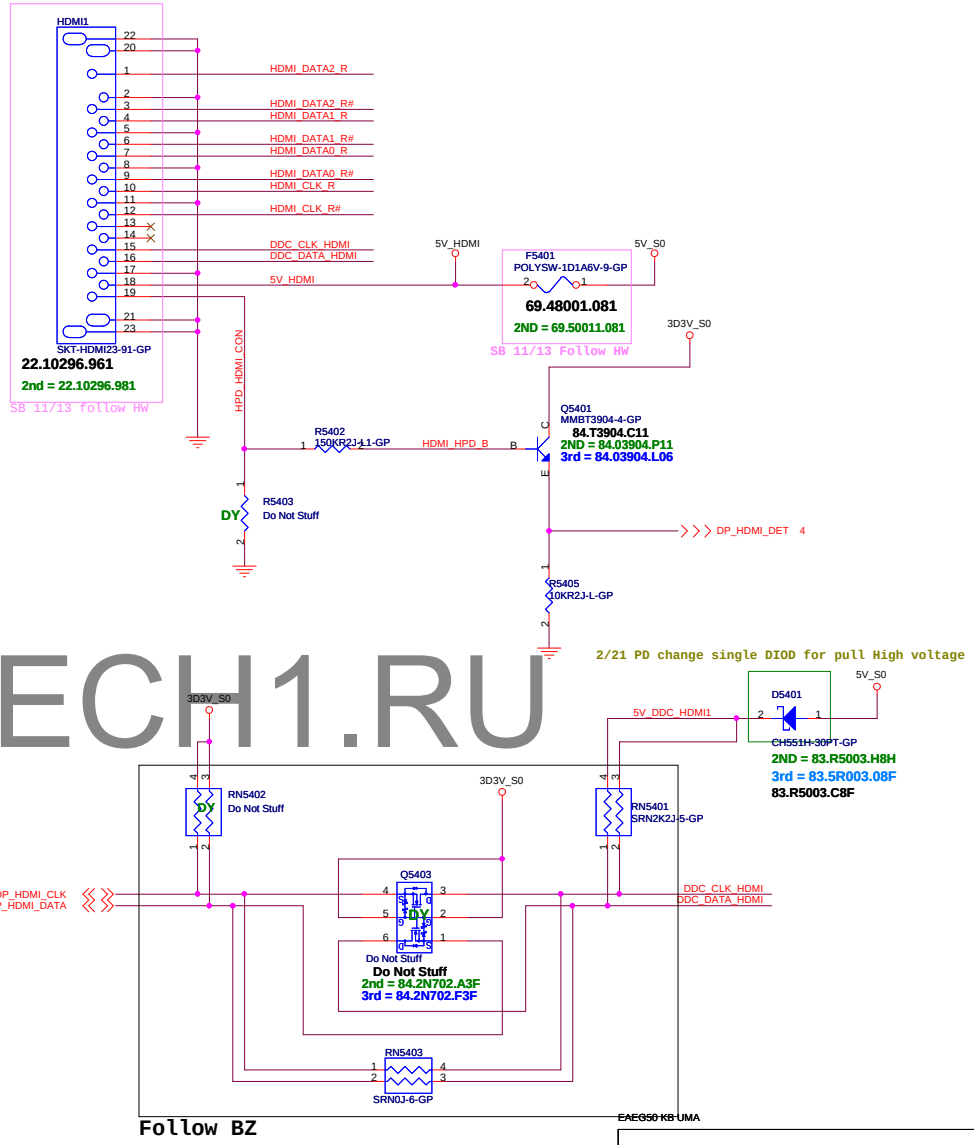
Title	CRT Board Connector	
Size	Project Name: KABINI	Rev: SA
Date: Monday, February 04, 2013	Sheet 53 of 102	

SSID = VIDEO

HDMI Level Shifter & CONNECTOR



HDMI CONN



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	Project Name: KABINI	Rev: SA
Date: Thursday, February 21, 2013	Sheet 54 of 102	

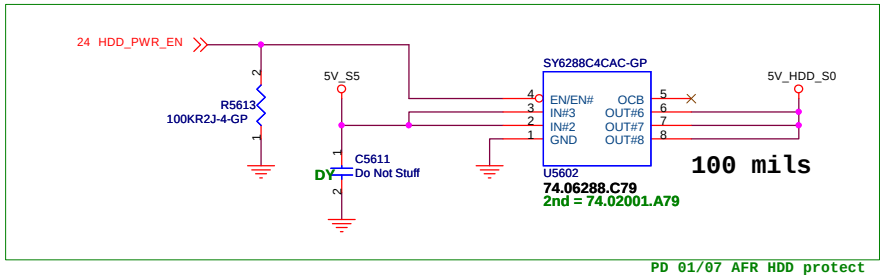
EAEG50 KB UMA

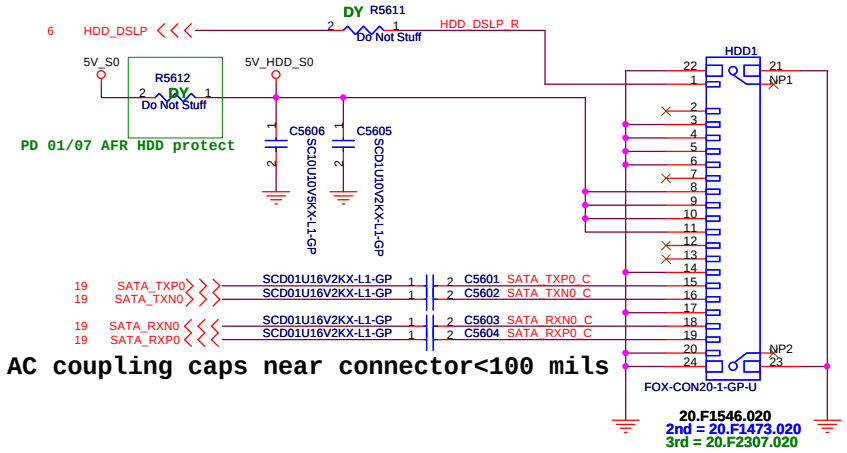
緯創資通 **Wistron Corporation**
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title	**Reserved**	
Size	Project Name **KABINI**	Rev **SA**
Date: Friday, September 07, 2012	Sheet 55 of 102	

SSID = SATA

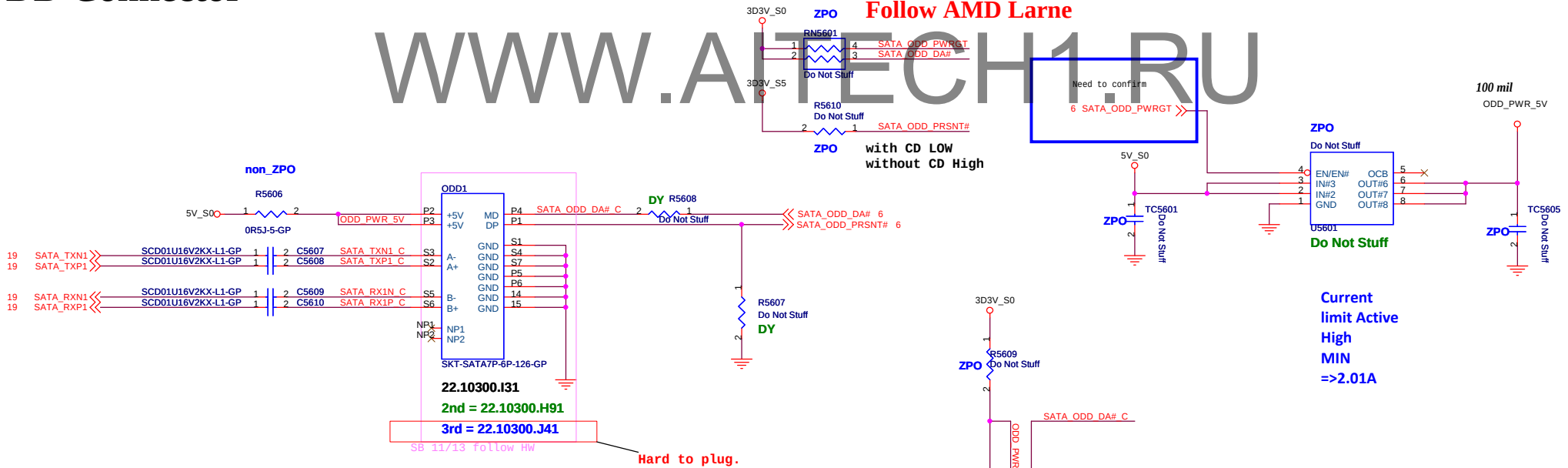
SATA HDD Connector





ODD Connector

SATA Zero Power ODD
Follow AMD Larne



EAEG50 KB UMA

緯創資通	Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.
Title	HDD/ODD
Size	Project Name: KABINI — Rev: SA
Date: Monday, February 04, 2013	Sheet 56 of 102

EAEG50 KB UMA

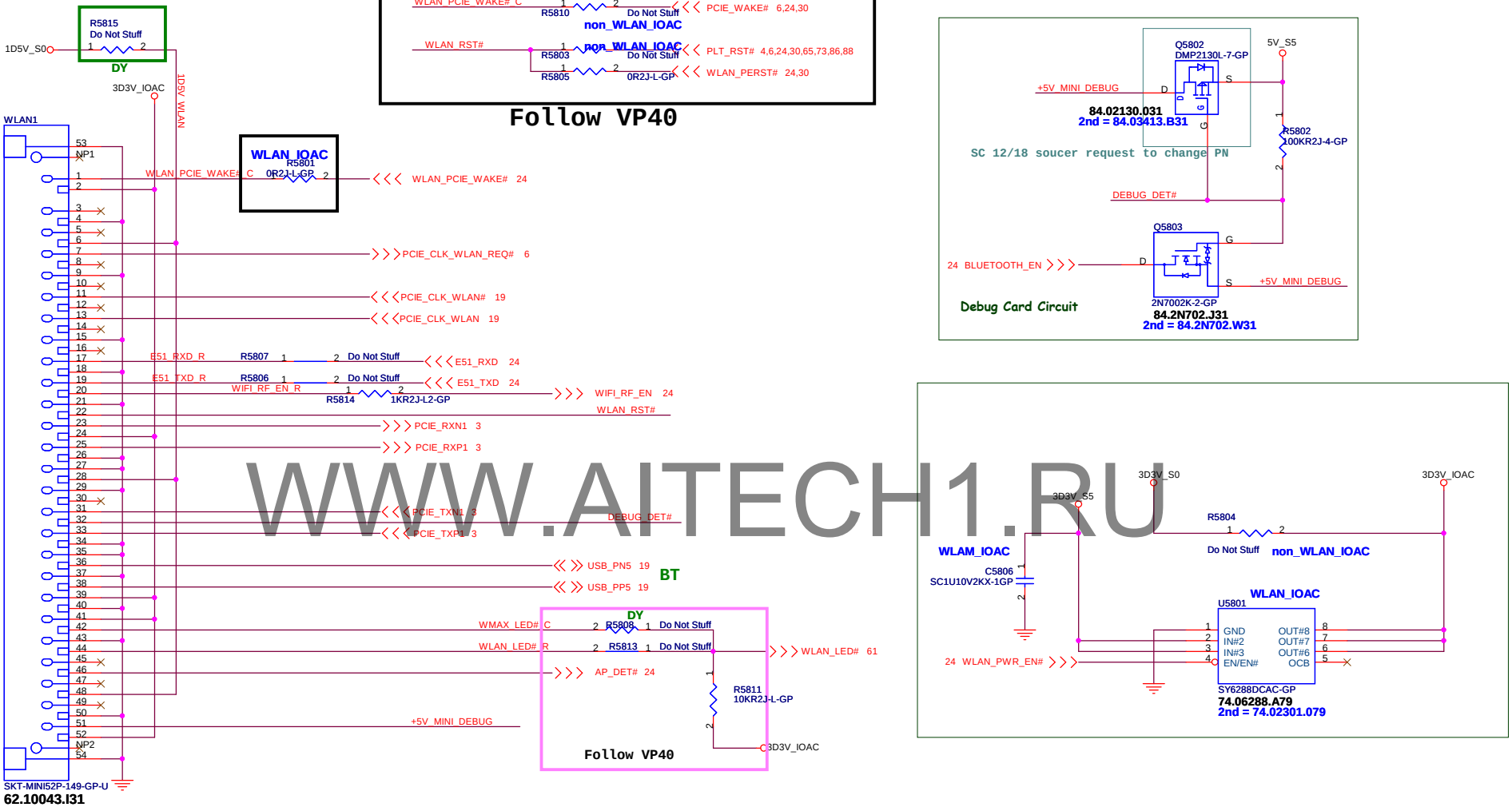
緯創資通 **Wistron Corporation**
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

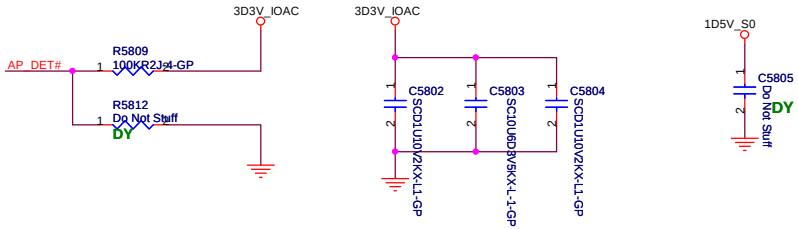
Title	**Reserved**	
Size	Project Name **KABINI**	Rev **SA**
Date: Friday, September 07, 2012	Sheet 57 of 102	

SSID = Wireless

Mini Card Connector(802.11a/b/g/n)

10/15 follow EA40-HW





EAEG50 KB UMA

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

Title	MINICARD(WLAN)	
Size	Project Name: KABINI	Rev: SA
Date: Tuesday, February 19, 2013	Sheet 58 of 102	

SSID = Wireless

Mini Card Connector(WWAN)

EAEG50 KB UMA

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	Project Name: KABINI	Rev: SA
Date: Friday, September 07, 2012	Sheet 59 of 102	

SSID = mSATA

Mini Card Connector(mSATA)

EAEG50 KB UMA

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	Project Name: KABINI	Rev: SA
Date: Friday, September 07, 2012	Sheet 60 of 102	

SSID = User.Interface

PD 1/24 LED tuning

STDBY_LED#_Q — R6101 1K2R2F-1-GP — STDBY_LED#_R

FRONT_PWRLED#_Q — R6102 390R2F-2GP — FRONT_PWRLED#_R

PLED1 — **System LED (BLU/ORG)** — 5V_S5

11/21 EG50 LED fine tune

LED-BO-22-GP

83.00326.M70

2nd = 83.01212.A70

PD 1/24 LED tuning

CHARGE_LED#_Q — R6103 1K2R2F-1-GP — CHARGE_LED#_R

DC_BATFULL#_Q — R6104 330R2F-GP — DC_BATFULL#_R

CHLED1 — **Battery LED (BLU/ORG)** — 5V_AUX_S5

11/21 EG50 LED fine tune

LED-BO-22-GP

83.00326.M70

2nd = 83.01212.A70

24 PWRLED — Q6101 — FRONT_PWRLED#_Q

LTC043ZUB-FS8-GP

84.00043.011

2nd = 84.00143.D1K

24 STDBY_LED — Q6103 — STDBY_LED#_Q

LTC043ZUB-FS8-GP

84.00043.011

2nd = 84.00143.D1K

24 DC_BATFULL — Q6104 — DC_BATFULL#_Q

LTC043ZUB-FS8-GP

84.00043.011

2nd = 84.00143.D1K

SATA_LED#_1 — R6105 680R2F-GP — MEDIA_LED#_R

HLED1 — ZENER — **SATA HDD LED (BLU)** — 5V_S0

11/21 EG50 LED fine tune

LED-B-162-GP

83.00320.B70

2nd = 83.01211.070

3D3V_S0 — Q6105 — SATA_LED#_1 — SATA_LED#_19

LTC043ZUB-FS8-GP

84.00043.011

2nd = 84.00143.D1K

WLAN_LED# — R6106 560R2F-GP — WLAN_LED#_EA

RFLED1 — **RF LED (ORG)** — 3D3V_IOAC

11/21 EG50 LED fine tune

LED-O-36-GP-U

83.00270.D70

24 CHARGE_LED — Q6106 — CHARGE_LED#_Q

LTC043ZUB-FS8-GP

84.00043.011

2nd = 84.00143.D1K

14"

FRONT_PWRLED#_Q — R6107 Do Not Stuff — FRONT_PWRLED#_EA

PWLED1 — **EA40 Power LED (BLU)** — 5V_S5

14"

Do Not Stuff

SB 11/19 for LED turning

Do Not Stuff

2nd = 83.19117.070

WLAN_LED

From module

WLAN_LED# 58

Q6107 2N7002K-2-GP

84.2N702.J31

2ND = 84.2N702.W31

WLAN_TEST_LED 24

for factory test

5V_S5

SB 11/26 EMI Close PBD1

EC6101 SCD1U10V2KX-1-GP

PBD1 — PTWO-CON6-13-GP — 5V_S5

15"

KBC_PWRBTN#

FRONT_PWRLED#_Q

20.K0397.006

2nd = 20.K0610.006

For EA-50

PW1 Do Not Stuff

14"

Do Not Stuff

2nd = 62.40089.441

KBC_PWRBTN# 24,27,86,90

FRONT_PWRLED#_Q 90

For AFTE

EAEG50 KB UMA

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 | Project Name: KABINI | Rev: SA

Date: Monday, February 04, 2013 | Sheet 61 of 102

SSID = KBC

Internal KeyBoard Connector

86,89,90 TP_DATA
86,89,90 TP_CLK
86,89,90 SWR
86,89,90 SWL

for AFTP

3D3V_S0

RN6203
SRN4K7J-8-GP

RN6202
SRN33J-5-GP-U

24 TPCLK
24 TPDATA
TP_CLK
TP_DATA
TP_CLK 86,89,90
TP_DATA 86,89,90

14" & 15" TOUCH PAD

PD 1/14 Diffferent 14" & 15" TOUCH PAD reversion

14"& 15" use the same KB

KB1
ACES-CON26-13-GP-U

20.K0615.026
2nd = 20.K0449.026

KCOL0 KCOL1 KCOL2 KCOL3 KCOL4 KCOL5 KCOL6 KCOL7 KCOL8 KCOL9 KCOL10 KCOL11 KCOL12 KCOL13 KCOL14 KCOL15 KCOL16 KCOL17
KROW0 KROW1 KROW2 KROW3 KROW4 KROW5 KROW6 KROW7

KROW[0..7] 24,86
KCOL[0..17] 24,86

26 K/B 1

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

for EA/EG-50
Pin3 : NC
Pin2 : DET

for EA-40
Pin3 : DET
Pin2 : NC

ELKB1
ACES-CON4-50-GP
20.K0722.004
2nd = 20.K0397.004

KB_BL_DET_R R6205
KB_BL_DET_15 R6206
14" Do Not Stuff
15" 200KR2J-4-GP
KB_LED_PWM_D
KB_BL_DET 24

5V_S0
C6201
SCD1U25V2KX-L-GP

R6202
200KR2F-L-GP

24 KB_BL_PWM
R6203
0R2J-L-GP
KB_BL_PWM_R

Q6201
AO3418L-GP
84.03418.A31

C6202
Do Not Stuff

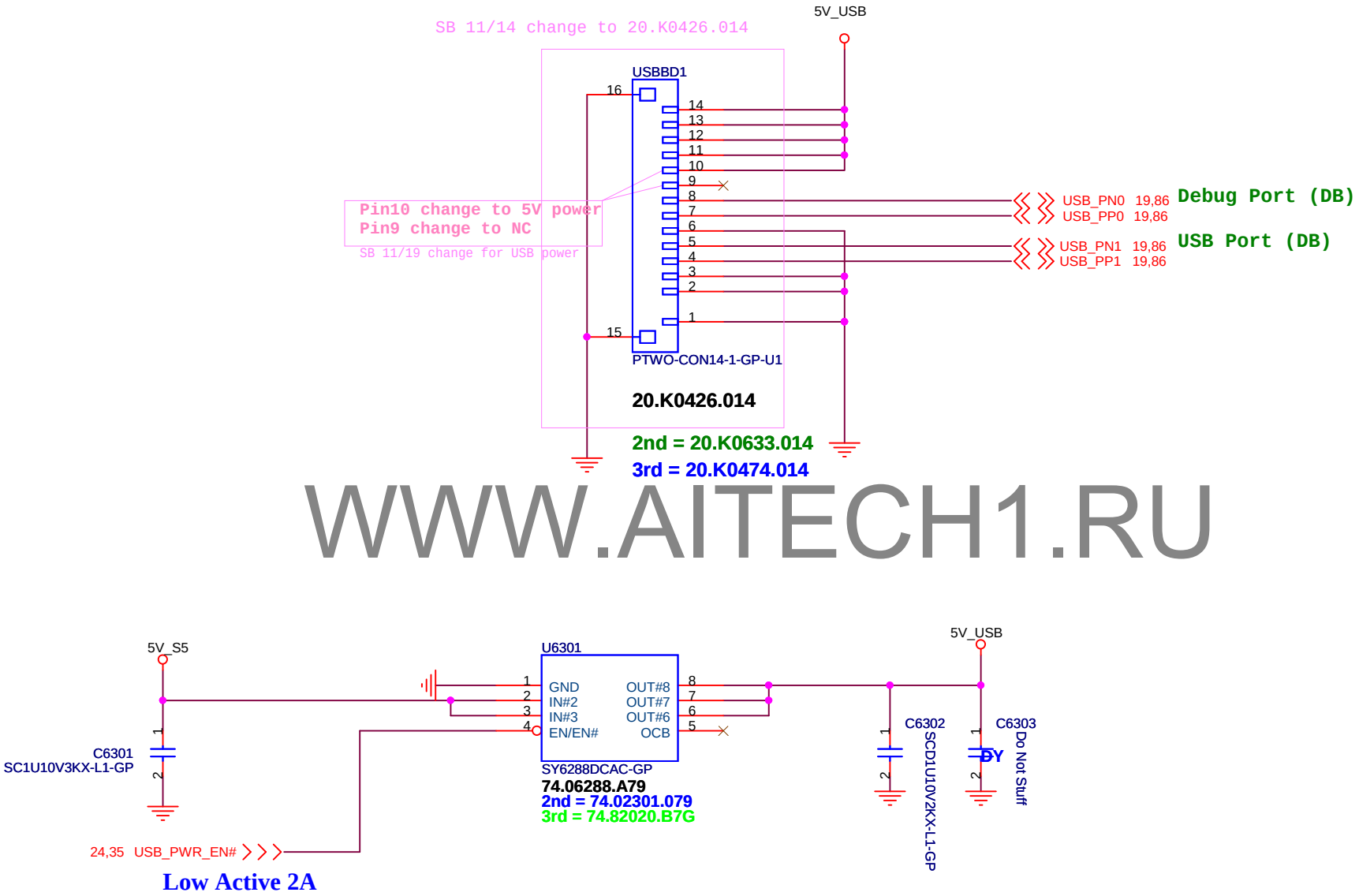
1016

For BL KB current 303mA
84.03418.A31 = 3.8A

EAEG50 KB UMA

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: | Project Name: KABINI | Rev: SA
Date: Tuesday, February 19, 2013 | Sheet 62 of 102



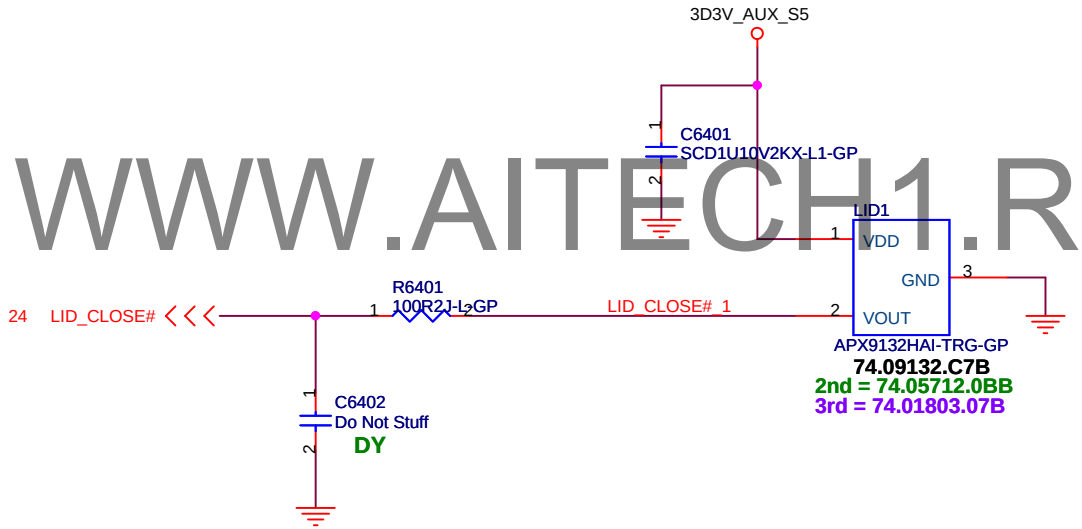
EAEG50 KB UMA

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 | Project Name: KABINI | Rev: SA

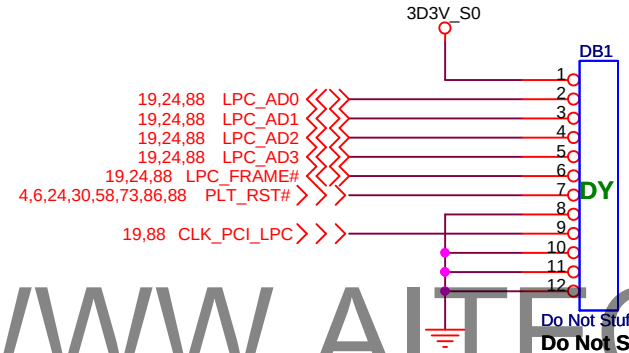
Date: Monday, February 04, 2013 | Sheet 63 of 102



EAEG50 KB UMA

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	Project Name: KABINI	Rev: SA
Date: Monday, February 04, 2013	Sheet 64 of 102	



EAEG50 KB UMA

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	Project Name **KABINI**	Rev **SA**
Date: Monday, February 04, 2013	Sheet 65 of 102	

(Blanking)

EAEG50 KB UMA

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	Project Name **KABINI**	Rev **SA**
Date: Friday, September 07, 2012	Sheet 66 of 102	

SSID = User.Interface

EAEG50 KB UMA

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	Project Name	Rev
	KABINI	SA

Date: Friday, September 07, 2012 Sheet 67 of 102

EAEG50 KB UMA

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	Project Name: KABINI	Rev: SA
Date: Friday, September 07, 2012	Sheet 68 of 102	

EAEG50 KB UMA

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	Project Name: **KABINI**	Rev: **SA**
Date: Friday, September 07, 2012	Sheet 69 of 102	

EAEG50 KB UMA

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

Title	Thunderbolt (3/5)	
Size	Project Name: KABINI	Rev: SA
Date: Friday, September 07, 2012	Sheet 70 of 102	

EAEG50 KB UMA

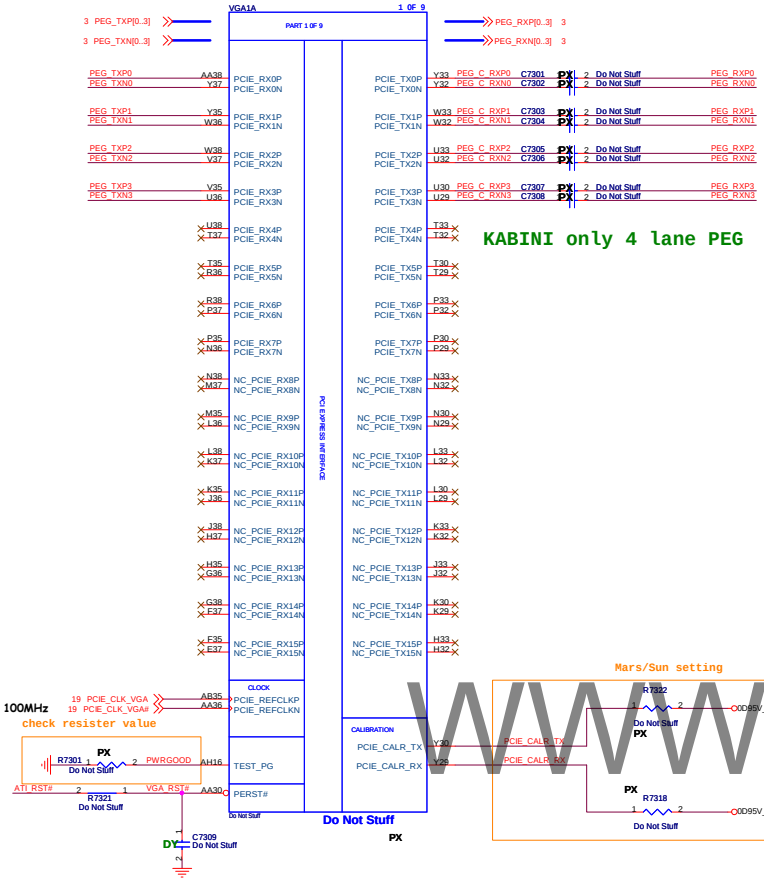
緯創資通 **Wistron Corporation**
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title	Thunderbolt (4/5)	
Size	Project Name: KABINI	Rev: SA
Date: Friday, September 07, 2012	Sheet 71 of 102	

EAEG50 KB UMA

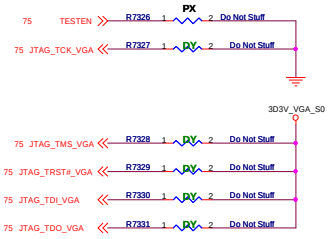
緯創資通 **Wistron Corporation**
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

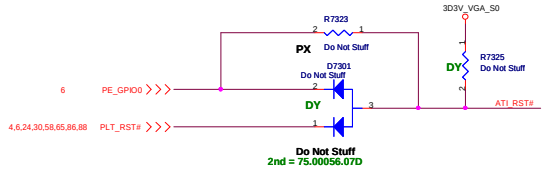
Title	Thunderbolt (5/5)	
Size	Project Name: KABINI	Rev: SA
Date: Friday, September 07, 2012	Sheet 72 of 102	



JTAG SIGNAL OPTION

Signal	Normal mode	Debug mode	pilot run mode
TESTEN	"0"(PD)	"1"(PU)	"0"(PD)
JTAG_TRST#	"1"(PU)	"1"(PU)	NC
JTAG_TCK	"0"(PD)	"1"(PU)	NC
JTAG_TMS	"1"(PU)	"1"(PU)	NC





	PE_GPIO0
dGPU mode	H
IGPU	L
IGPU with BACO	H

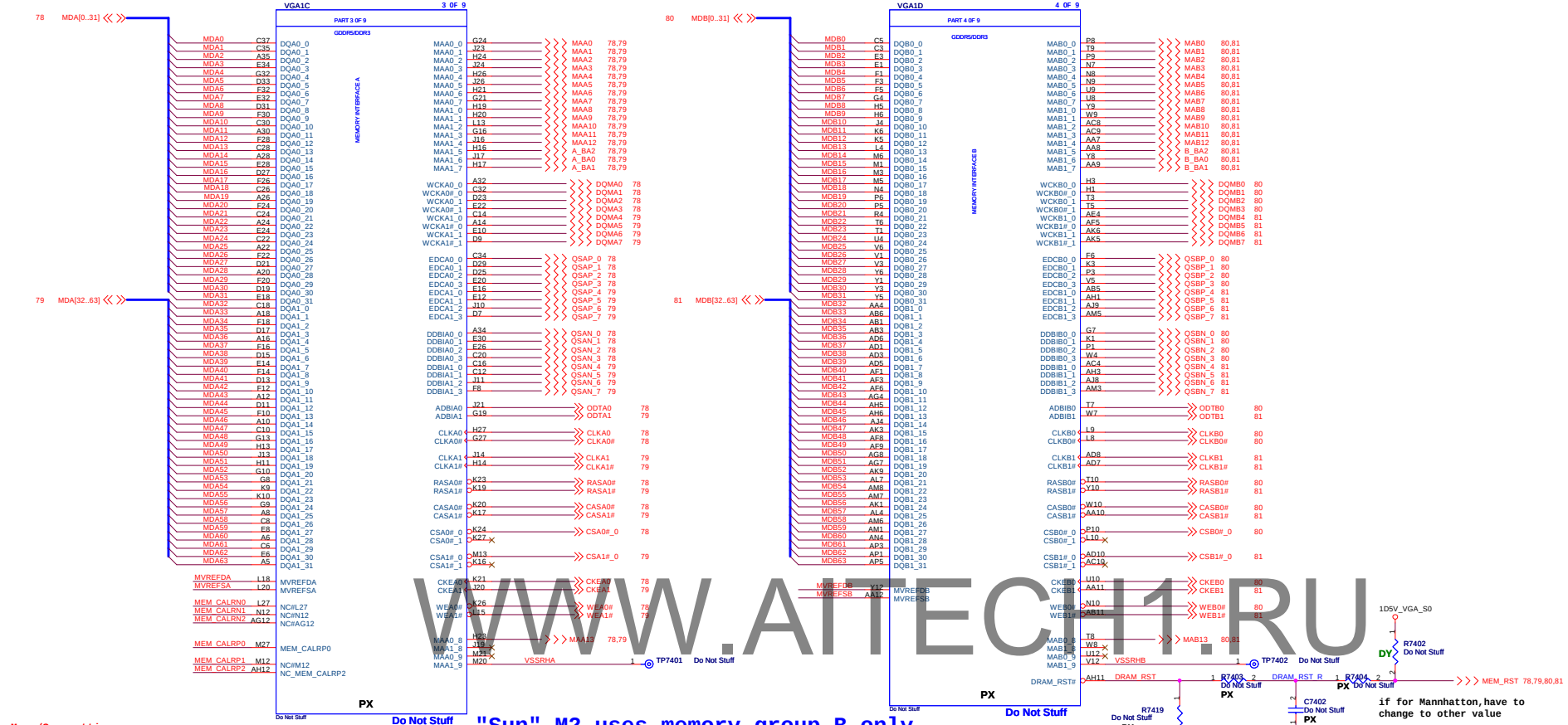
EAEG50 KB UMA

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

Title: GPU PCIE/STRAPPING

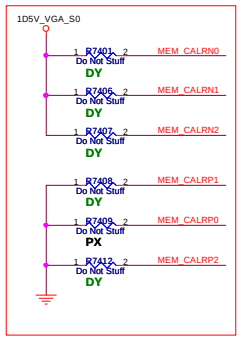
Size | Project Name: KABINI | Rev: SA

Date: Monday, February 04, 2013 | Sheet 73 of 102



"Sun"-M2 uses memory group B only,
while "Sun"-S3 uses memory group A only

Mars/Sun setting



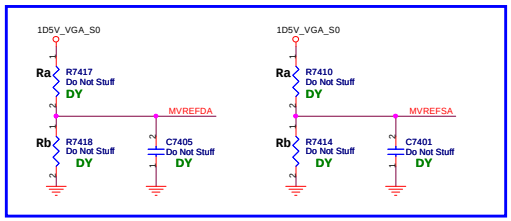
This basic topology should be used for DRAM_RAT for DDR3/GDDR5

DDR3/GDDR3 Memory Stuff Option(Mad/Park)

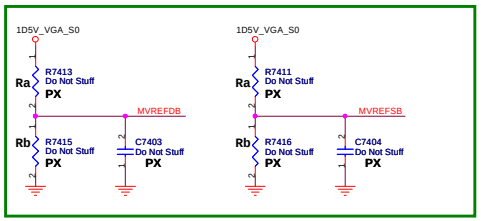
	GDDR5	GDDR3	DDR3
MVDDQ	1.5V	1.8V/1.5V	1.5V
Ra	40.2R	40.2R	40.2R
Rb	100R	100R	100R

PLACE MVREF DIVIDERS AND CAPS CLOSE TO ASIC

SUN S3 package



SUN M2 package



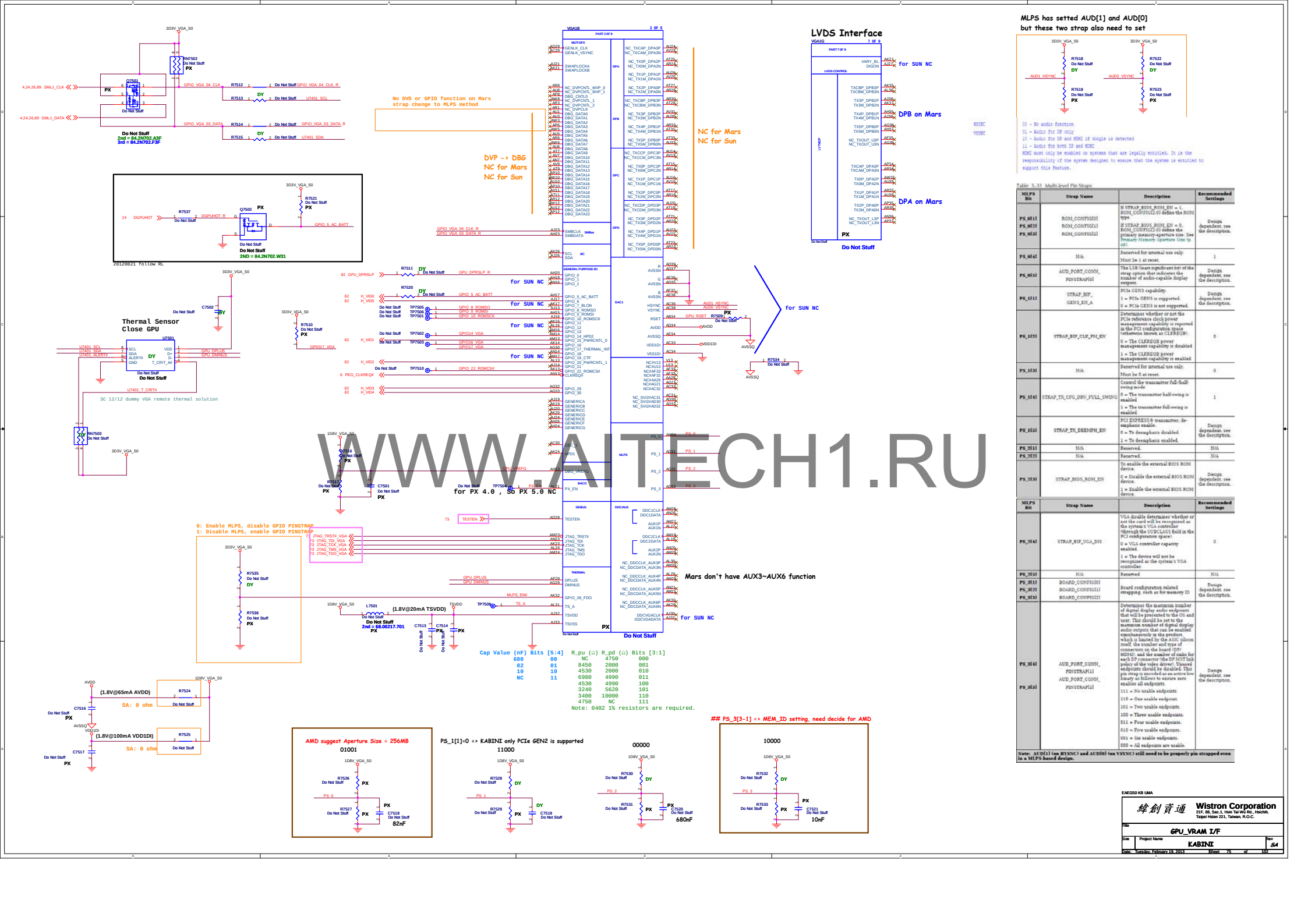
MEM_CALRN0	Whistler/Thames: Connect to VDDR1 through a 240Ω (±0.5%) resistor, Preferred resistor tolerance is 0.5%, but 1% is acceptable. Seymour: NC Heathrow/Chelsea :NC
MEM_CALRN1	Whistler/Thames: NC Seymour: Connect to VDDR1 through a 240Ω (±0.5%) resistor Heathrow/Chelsea :NC
MEM_CALRN2	Whistler/Thames: Connect to VDDR1 through a 240Ω (±0.5%) resistor Seymour: NC Heathrow/Chelsea :NC

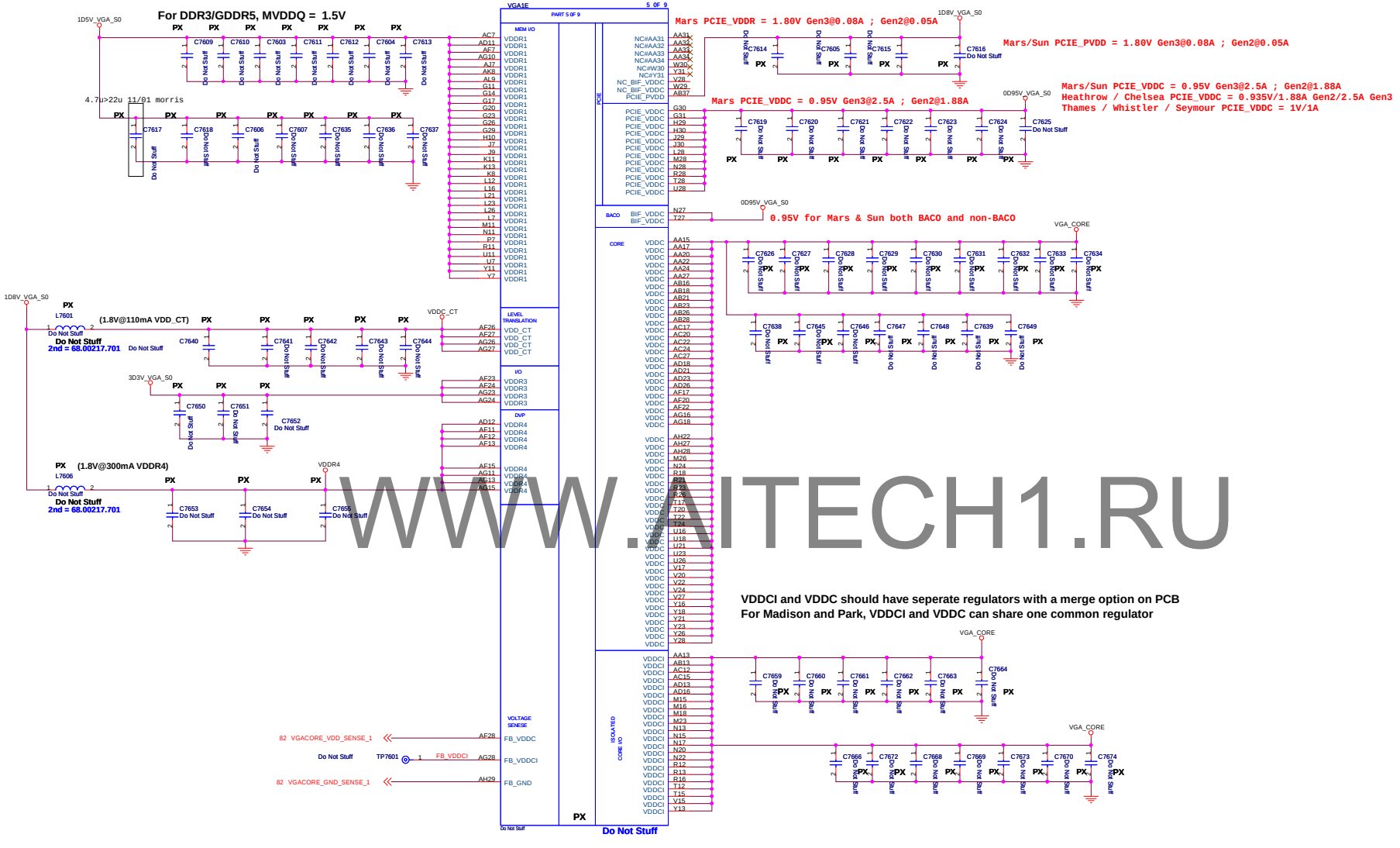
MEM_CALRP0	Whistler/Thames: need a 240 Ω (1%) termination to ground Seymour: NC Heathrow/Chelsea: Need a 120Ω (1%) termination to ground
MEM_CALRP1	Whistler/Thames: NC Seymour: MEM_CALRP1—need a 240Ω (1%) termination to ground
MEM_CALRP2	Whistler/Thames: MEM_CALRP2—need a 240Ω (1%) termination to ground Seymour: NC Heathrow/Chelsea: Need a 120Ω (1%) termination to ground

EAEG50 KB UMA

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

Title: GPU_Digitalout
Size: Project Name: KABINI
Rev: SA
Date: Monday, February 04, 2013 Sheet 74 of 102





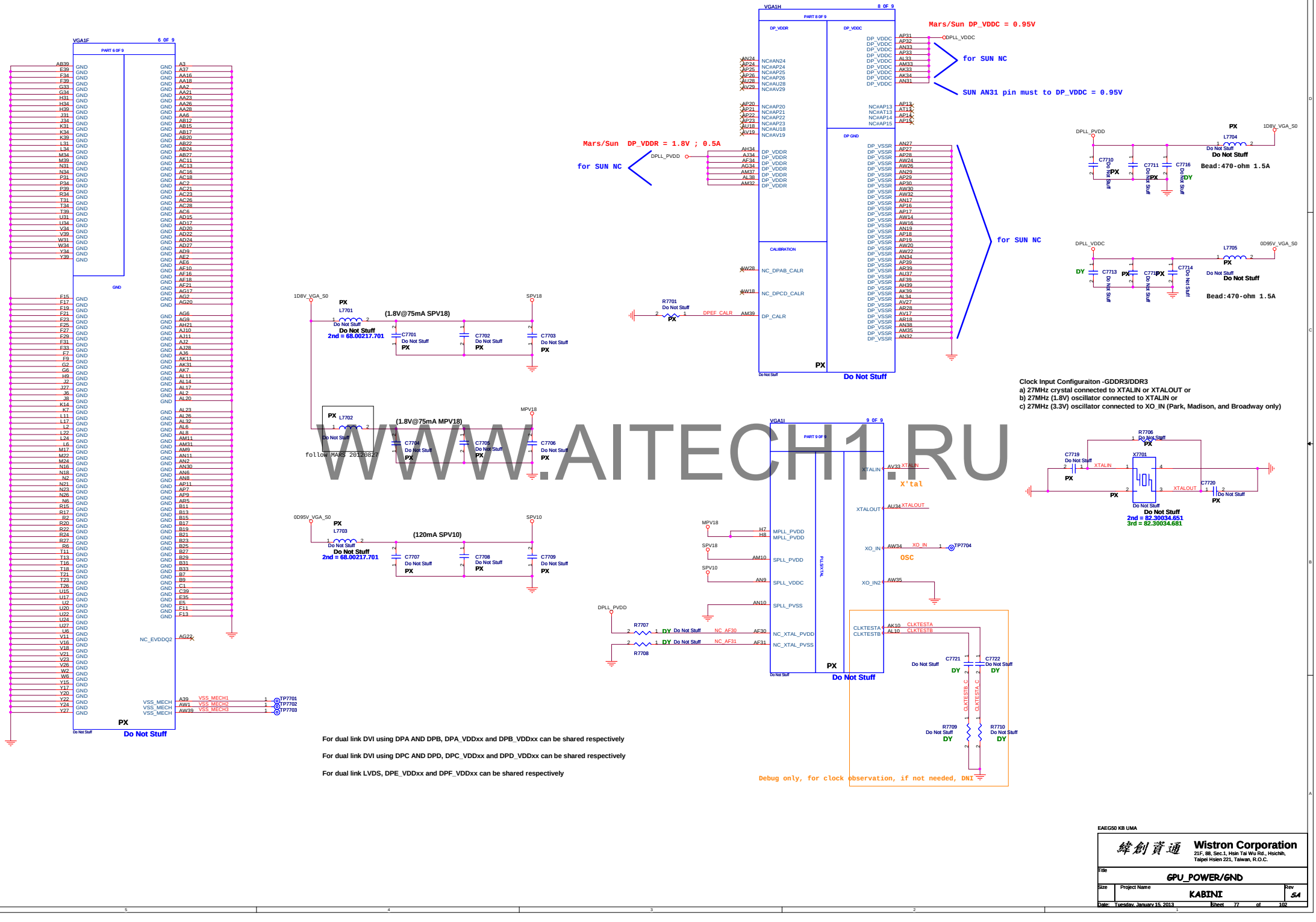
EAEG50 KB UMA

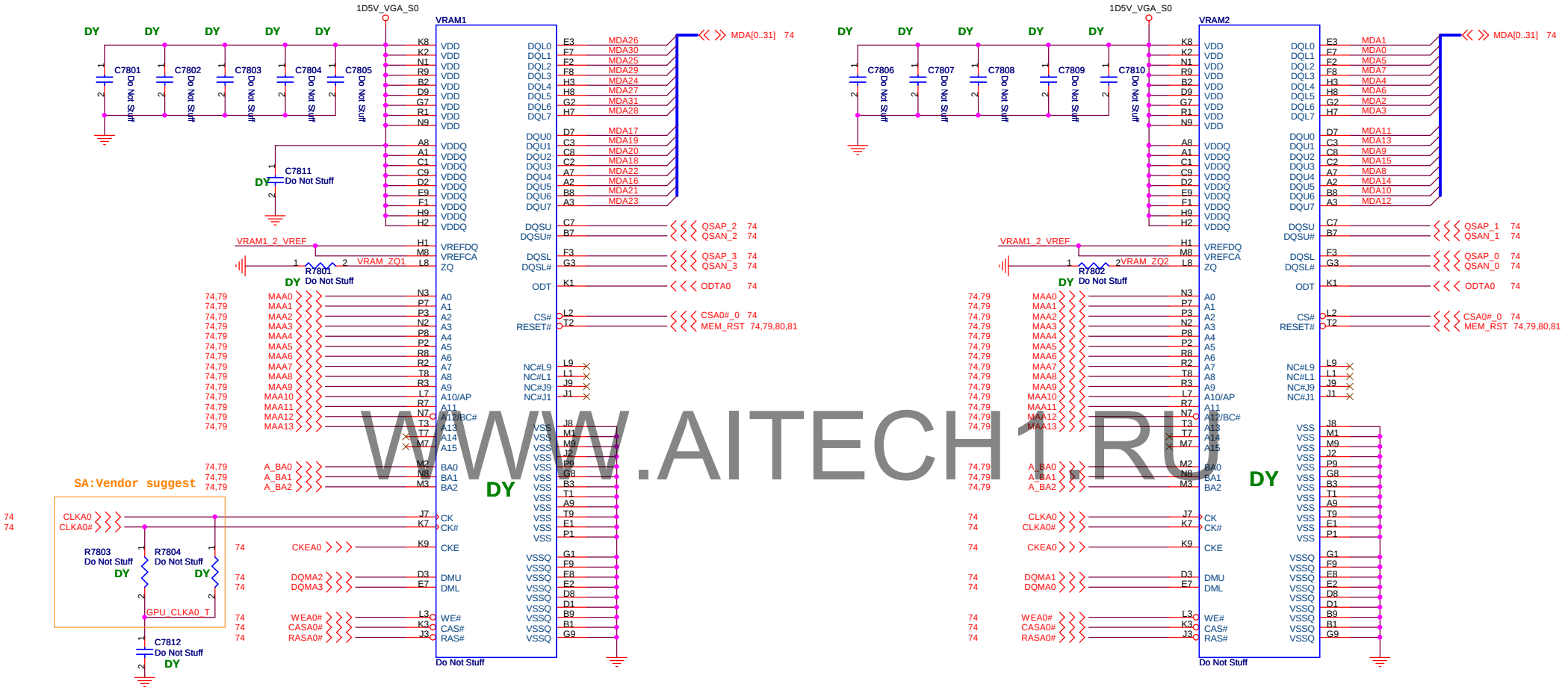
Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title: GPU_GPIO/STRAP

Size | Project Name: KABINI | Rev: SA

Date: Monday, February 04, 2013 | Sheet 76 of 102



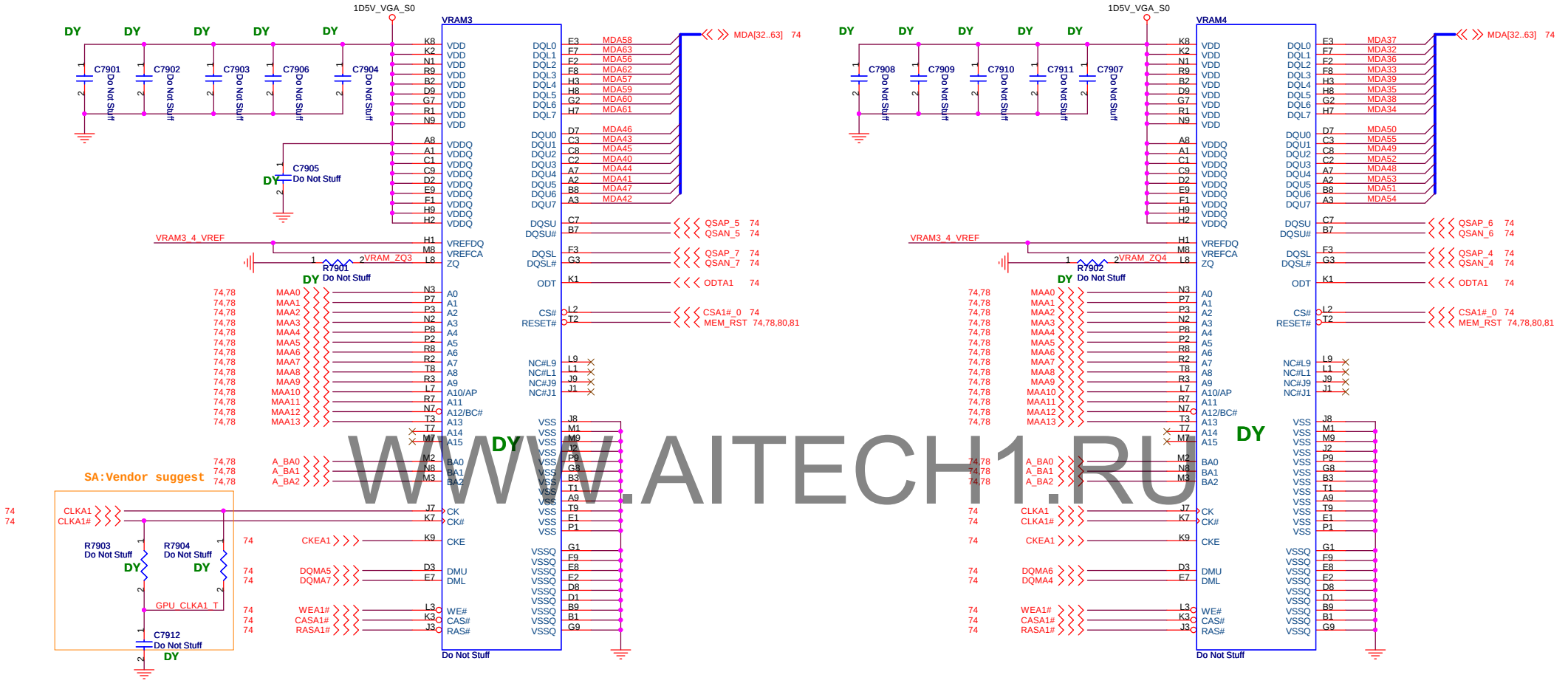


Do Not Stuff

Do Not Stuff

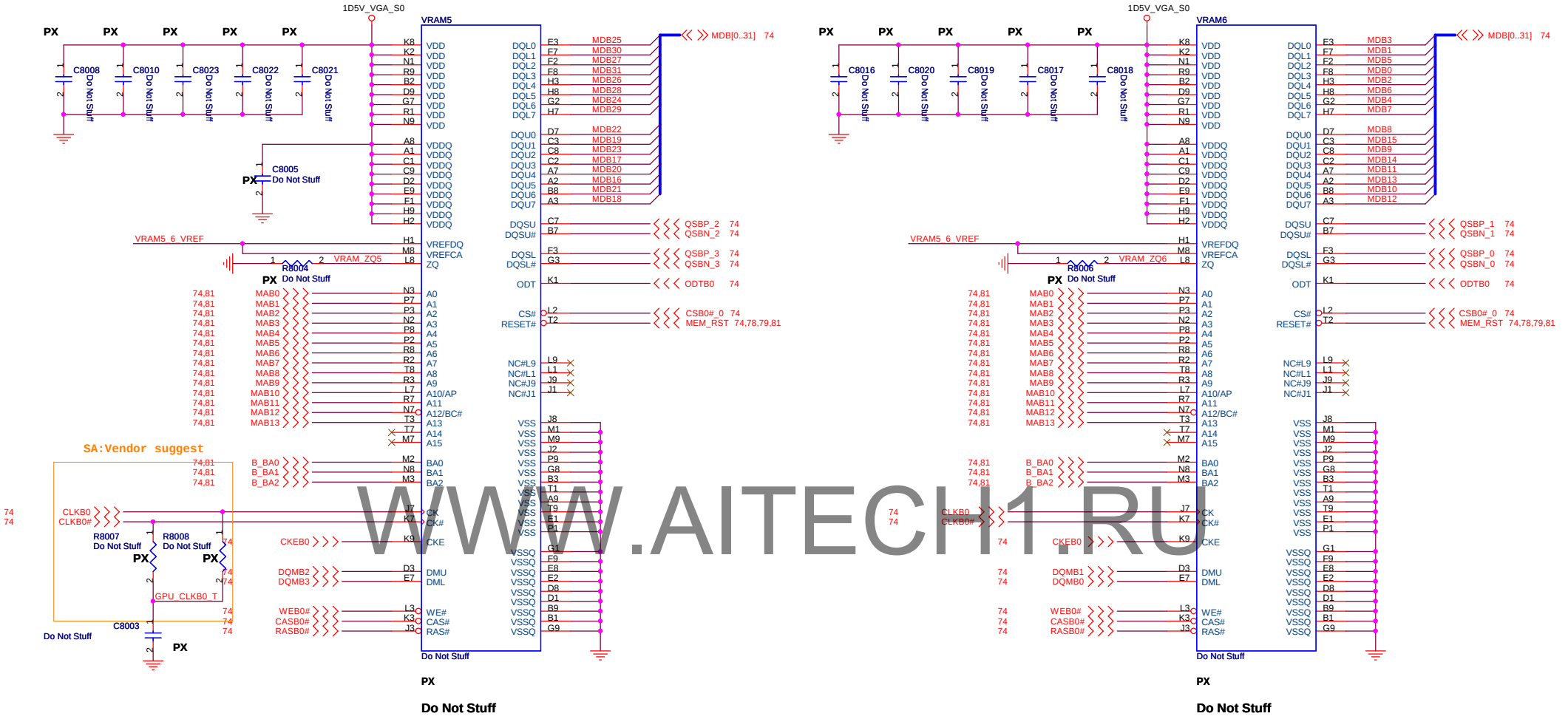
EAEG50 KB UMA

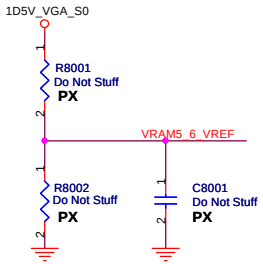
緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.		
Title: VRAM 1,2		
Size	Project Name: KABINI	Rev: SA
Date: Monday, February 04, 2013	Sheet 78 of 102	



EAEG50 KB UMA

緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.		
Title: VRAM 3,4		
Size	Project Name: KABINI	Rev: SA
Date: Monday, February 04, 2013	Sheet 79 of 102	

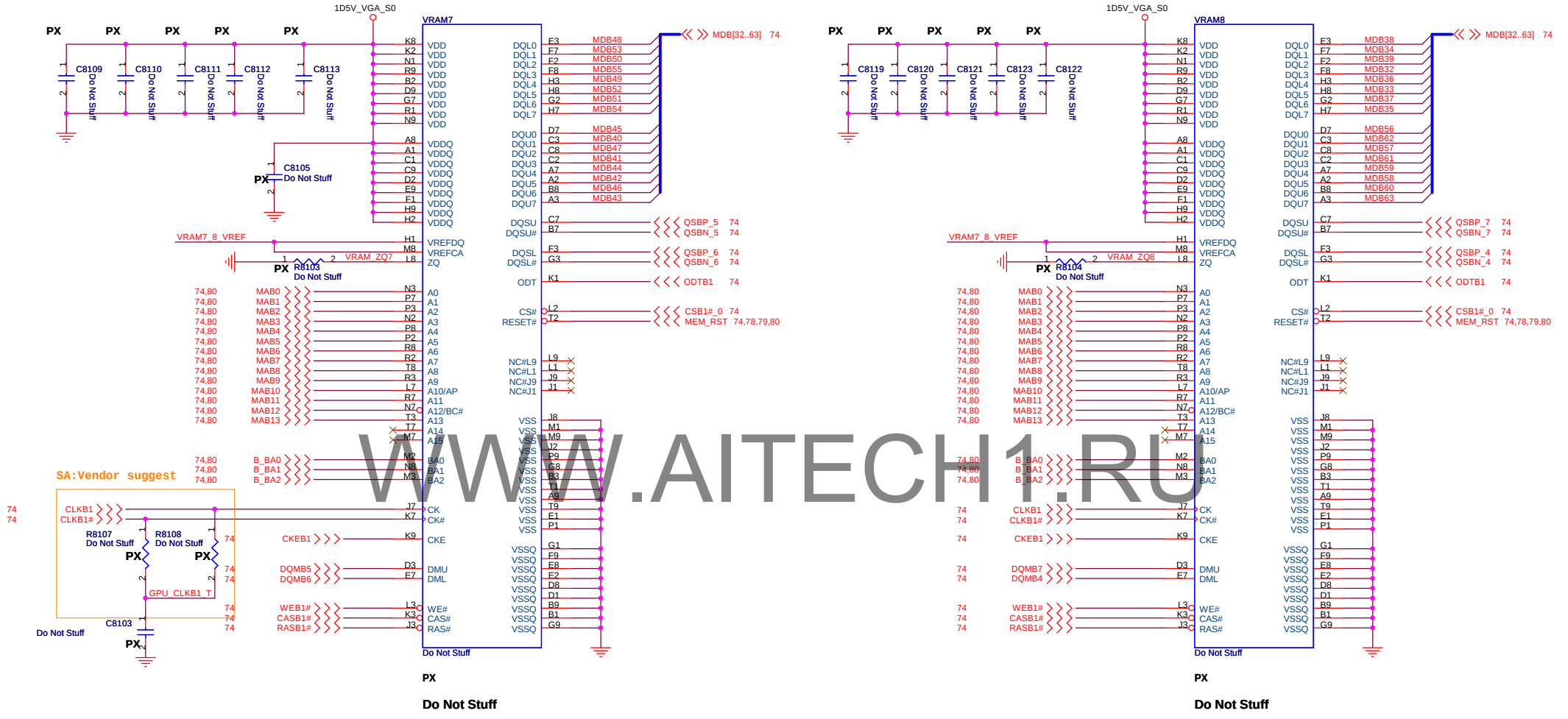


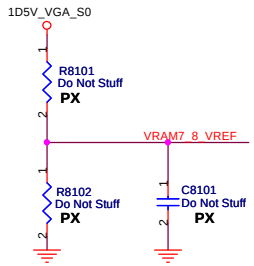


EG50 VRAM: 72.52G63.C0U (VR.2GB0G.005)
IC VRAM H5TQ2G63DFR-11C FBGA 96P 128M*16 x4

EAEG50 KB UMA

緯創資通	**Wistron Corporation** 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title	VRAM 5,6	
Size	Project Name: KABINI	Rev: SA
Date: Monday, February 04, 2013	Sheet 80 of 102	





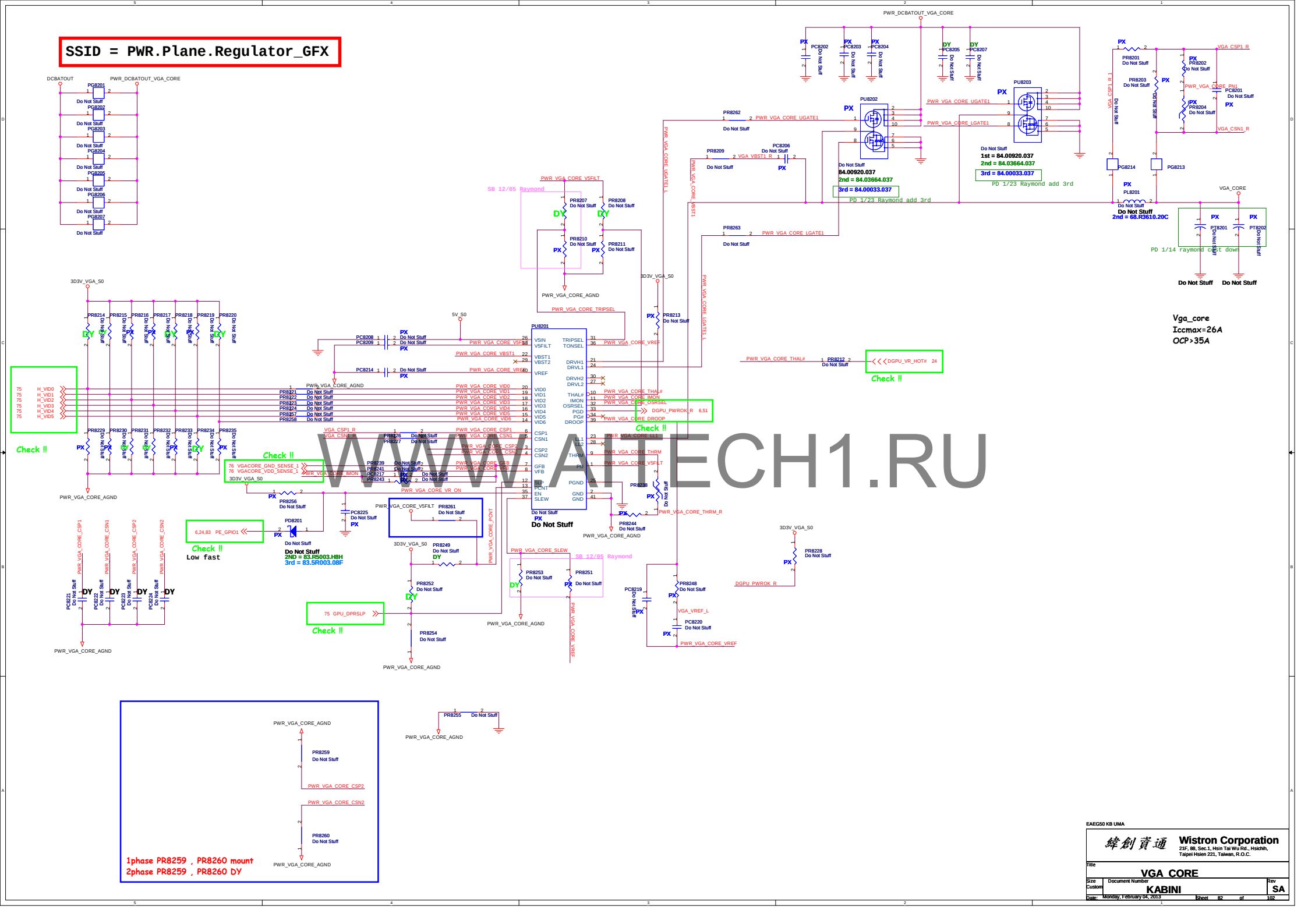
EG50 VRAM: 72.52G63.C0U (VR.2GB0G.005)
IC VRAM H5TQ2G63DFR-11C FBGA 96P 128M*16 x4

EAEG50 KB UMA

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

Title	VRAM 7,8	
Size	Project Name: KABINI	Rev: SA
Date: Monday, February 04, 2013	Sheet 81 of 102	

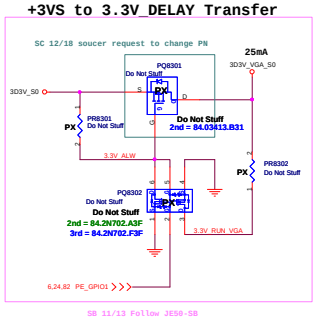
SSID = PWR.Plane.Regulator_GFX

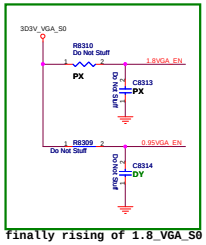


APL3523 for VGA_Power

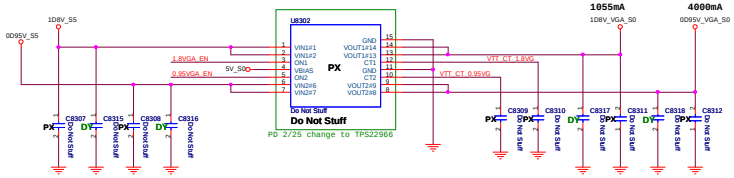
	PE_GPIO0	PE_GPIO1
dGPU mode	H	H
IGPU	L	L
IGPU with BACO	H	H

+3VS to 3.3V_DELAY Transfer





finally rising of 1.8_VGA_S0



Mars : 1000mA
Sun : 500mA
1055mA

Mars GEN3.0 : 4500mA
Sun GEN3.0 : 4000mA
4000mA

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

Title: DISCRETE VGA POWER

Size: Custom | Document Number: KABINI | Rev: SA

Date: Monday, February 25, 2013 | Sheet 83 of 89

EAEG50 KB UMA

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

Title	**Switch GFX**	
Size	Project Name: **KABINI**	Rev: **SA**
Date: Friday, September 07, 2012	Sheet 84 of 102	

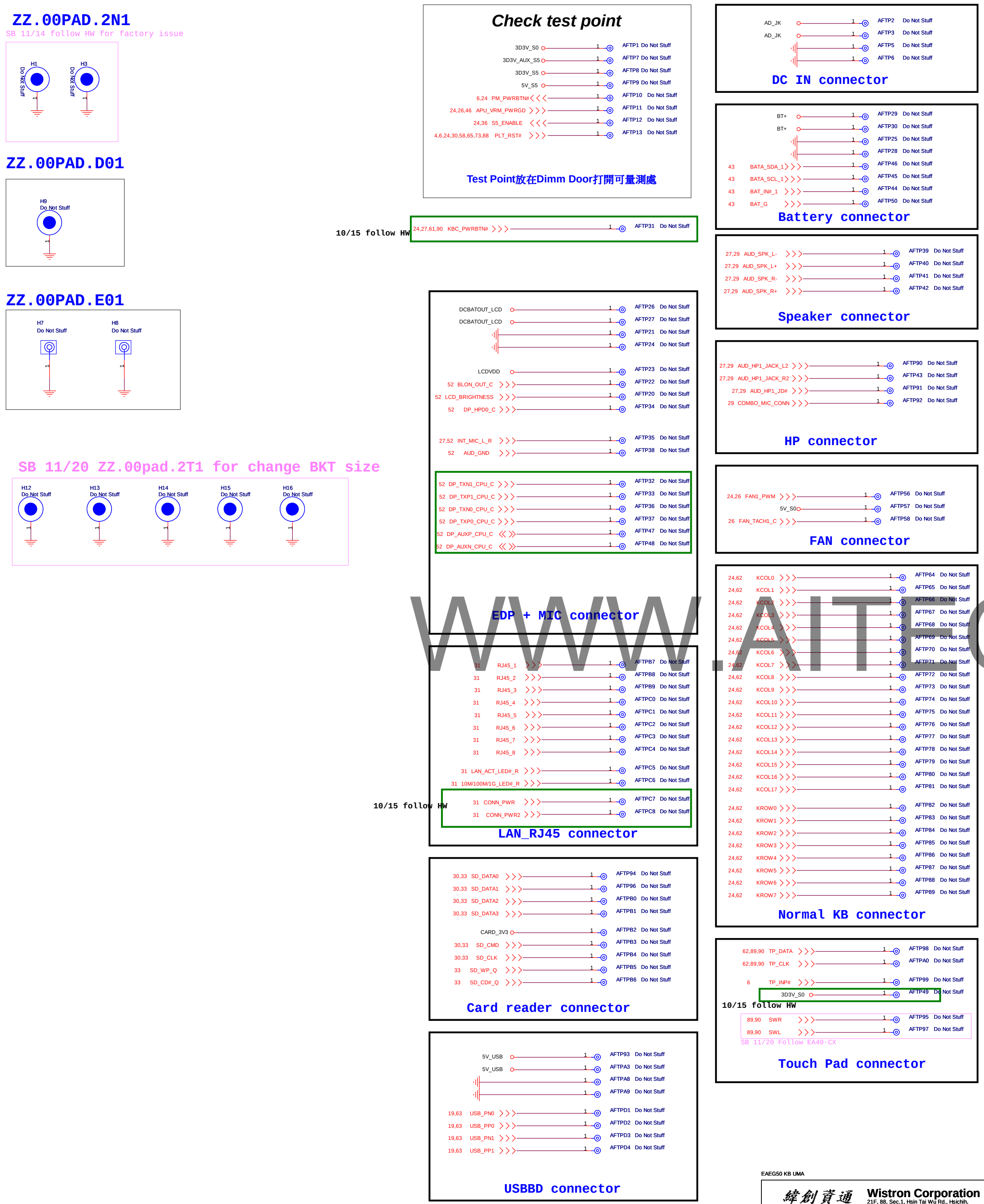
EAEG50 KB UMA

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

Title: **Switch VGA**

Size	Project Name	Rev
	KABINI	**SA**

Date: Friday, September 07, 2012 Sheet 85 of 102



EAEG50 KB UMA

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

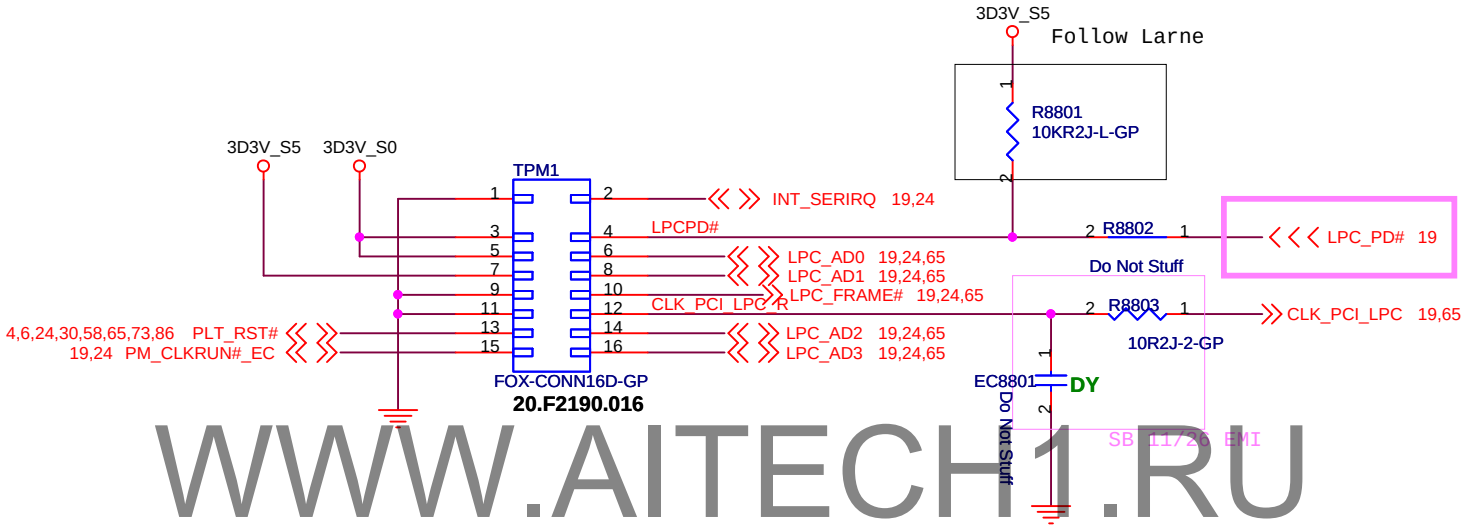
Title	UNUSED PARTS/EMI Capacitors	
Size	Project Name: KABINI	Rev: SA
Date: Monday, February 04, 2013	Sheet 86 of 102	

EAEG50 KB UMA

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	Project Name	KABINI	Rev SA
Date: Friday, September 07, 2012	Sheet 87 of 102		

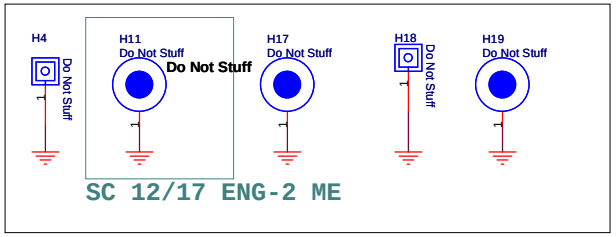


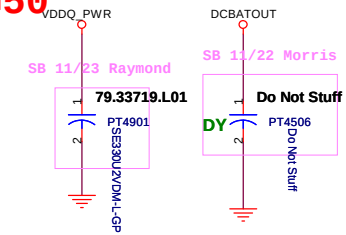
EAEG50 KB UMA

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	Project Name: KABINI	Rev: SA
Date: Monday, February 04, 2013	Sheet 88 of 102	

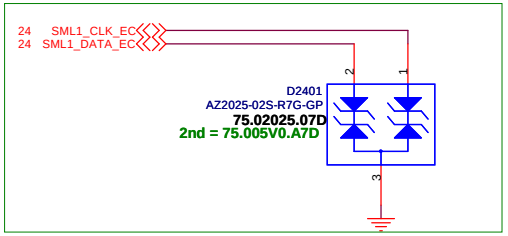
H4 & H11 & H17 & H18 & H19 for EG50





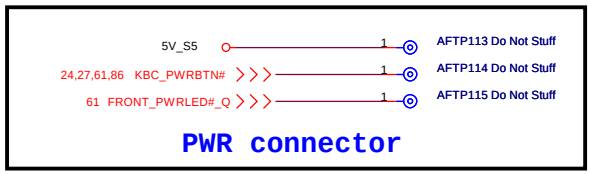
SB 11/23 3mm high limit in EG50

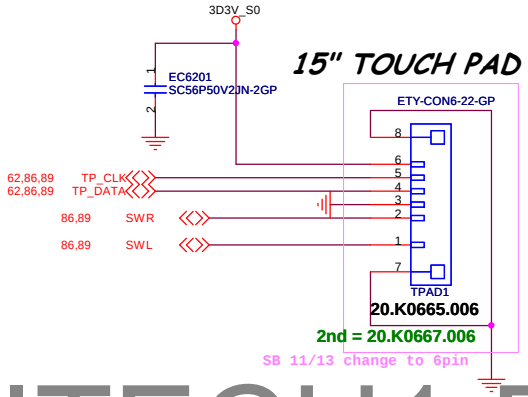
PD 01/31 Different Net name in 14" & 15" for placement



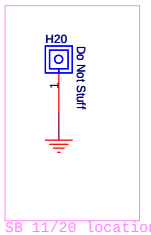
For AFTE

PWRBD AFTP for EG50



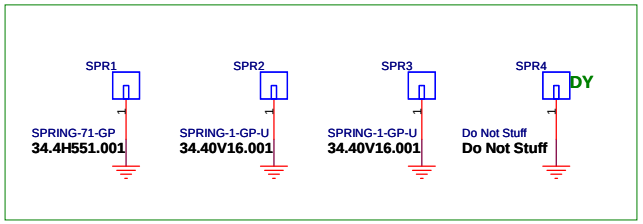


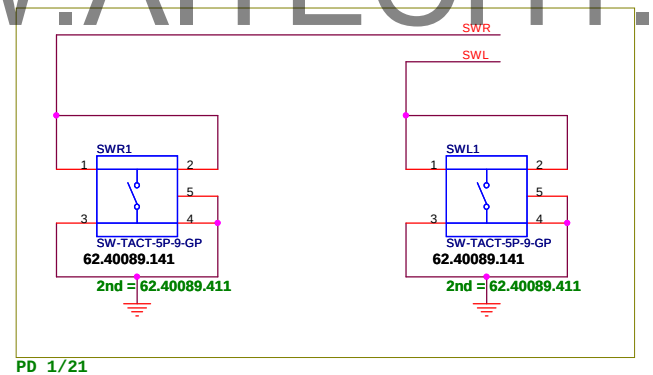
ZZ.00PAD.571



SB 11/20 location same with 14" H2

PD 1/23 EMI Jen





PD 1/21
SWL1 / SWR1 1st change to 62.40089.141,2nd change to 62.40089.411 ,
because 160kg change to 100kg.

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

Title		
15"		
Size	Project Name	Rev
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EAEG50 KB UMA

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	Project Name	Rev
	KABINI	SA

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EAEG50 KB UMA

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	Project Name	Rev
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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	Project Name	Rev
	KABINI	SA

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EAEG50 KB UMA

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	Project Name	Rev
	KABINI	SA

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EAEG50 KB UMA

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	Project Name	Rev
	KABINI	SA

Date: Friday, September 07, 2012 Sheet 95 of 102

EAEG50 KB UMA

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

Title	PCH_XDP	
Size	Project Name: KABINI	Rev: SA
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EAEG50 KB UMA

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	Project Name	Rev
	KABINI	SA

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EAEG50 KB UMA

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 | Project Name: **KABINI** | Rev: **SA**

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EAEC50 KB LIMA

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

Title: Power Sequence

Size	Project Name	Rev
	KABINI	SA

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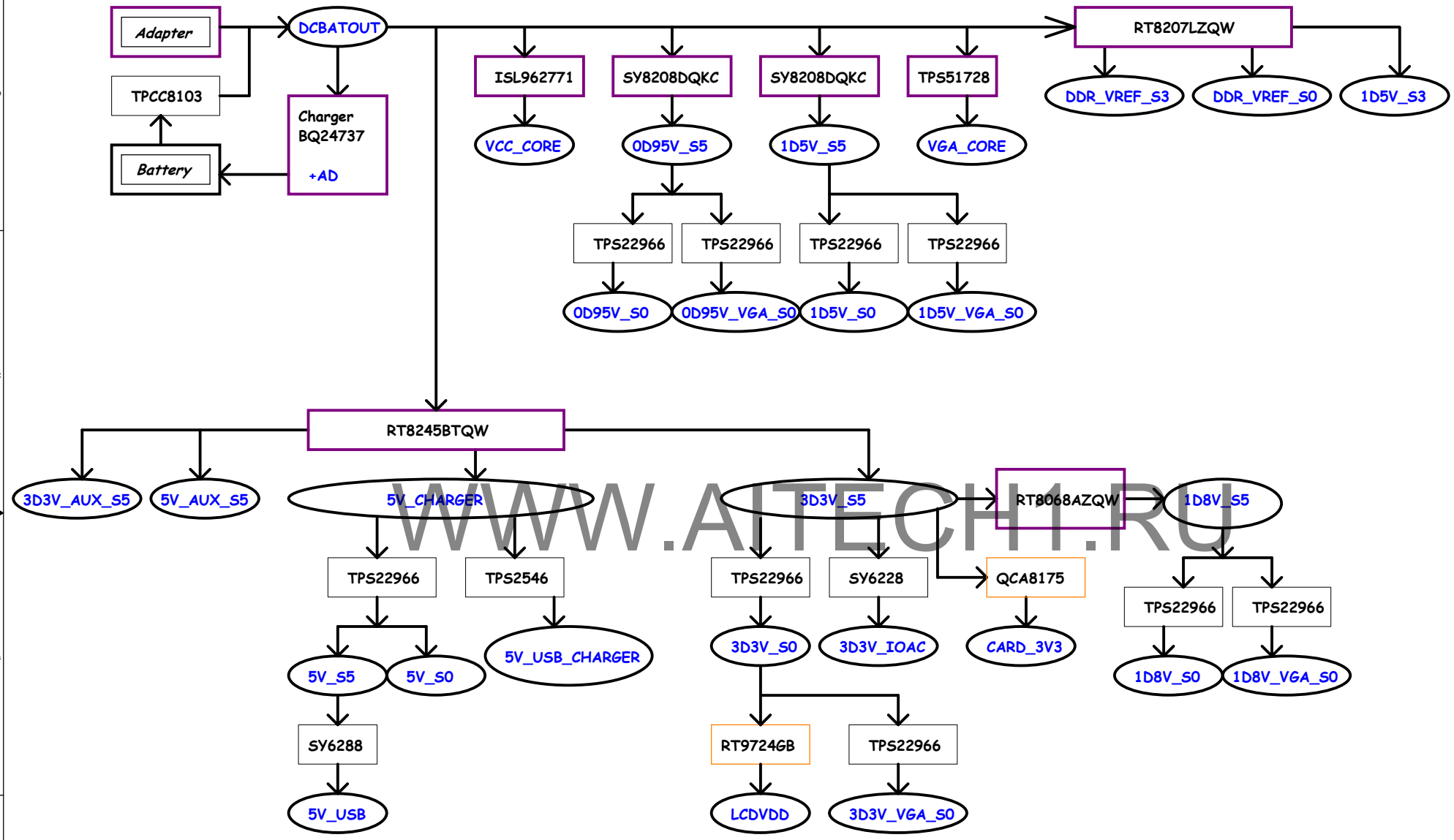

Power Shape

Regulator	LDO	Switch

EAEG50 KB UMA

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

Title: Power block Diagram

Size	Project Name	Rev
	KABINI	SA

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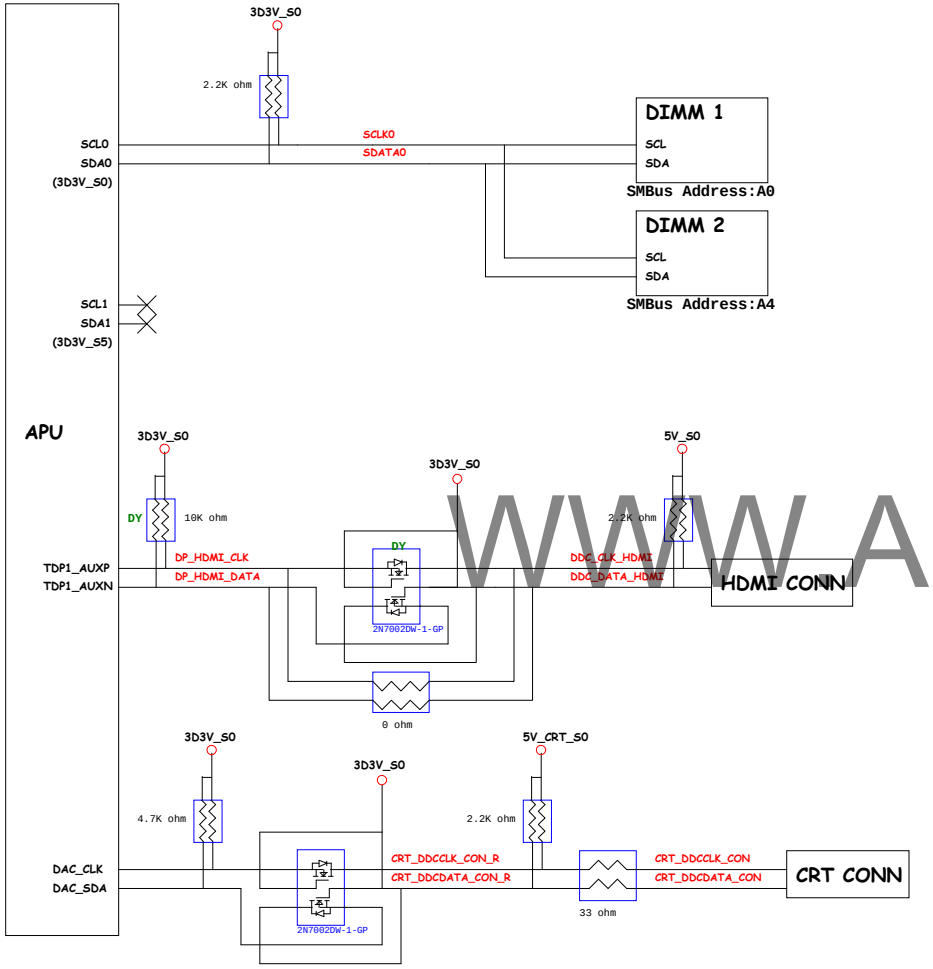
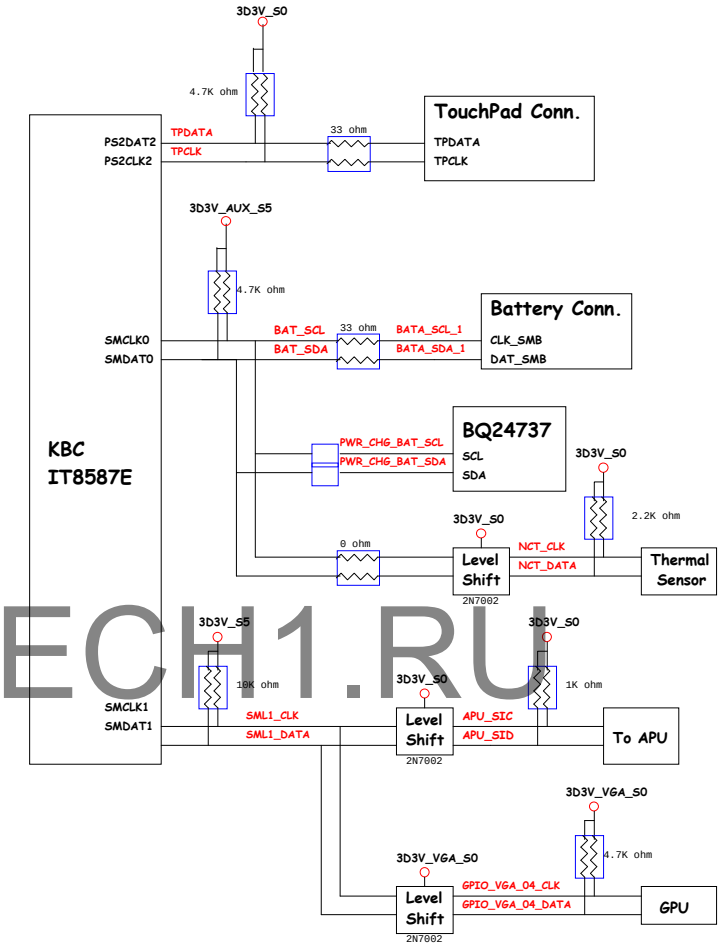
SMBus Block Diagram



KBC SMBus Block Diagram



EAEG50 KB UMA

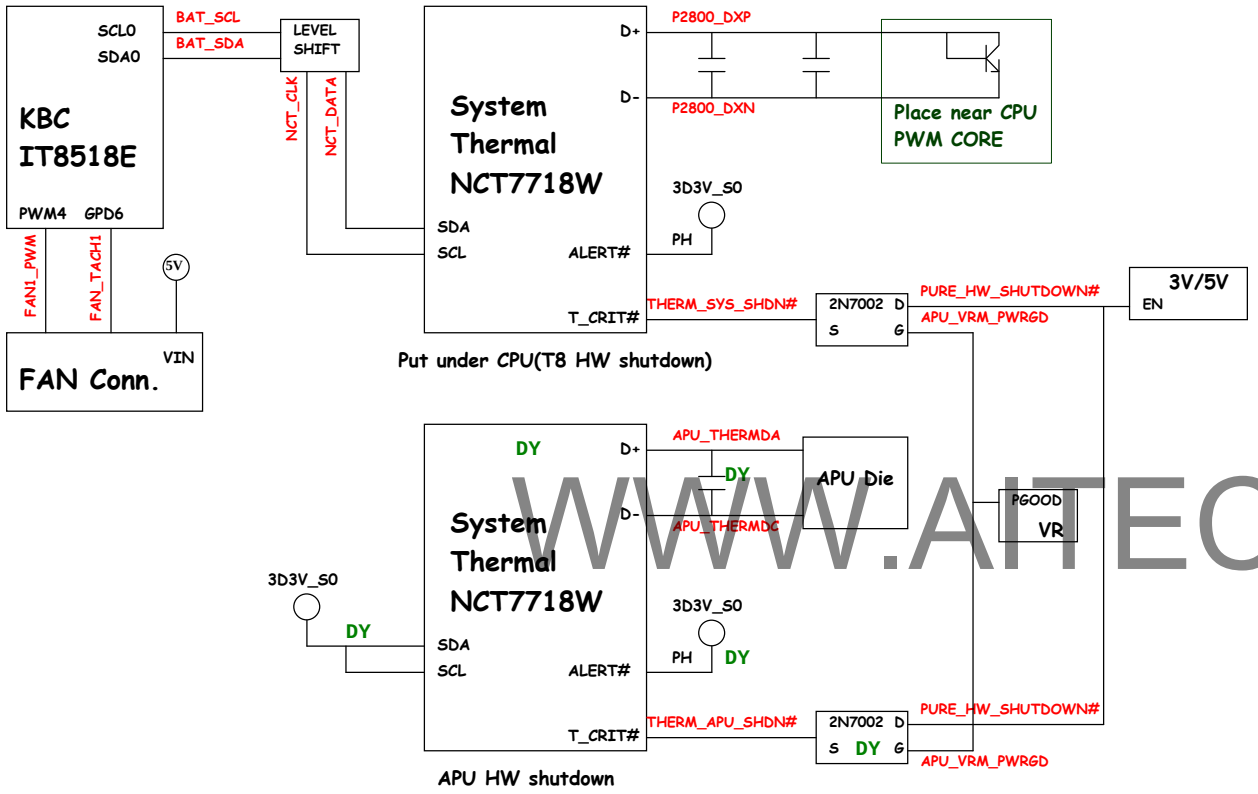
Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title: SMBUS Block Diagram

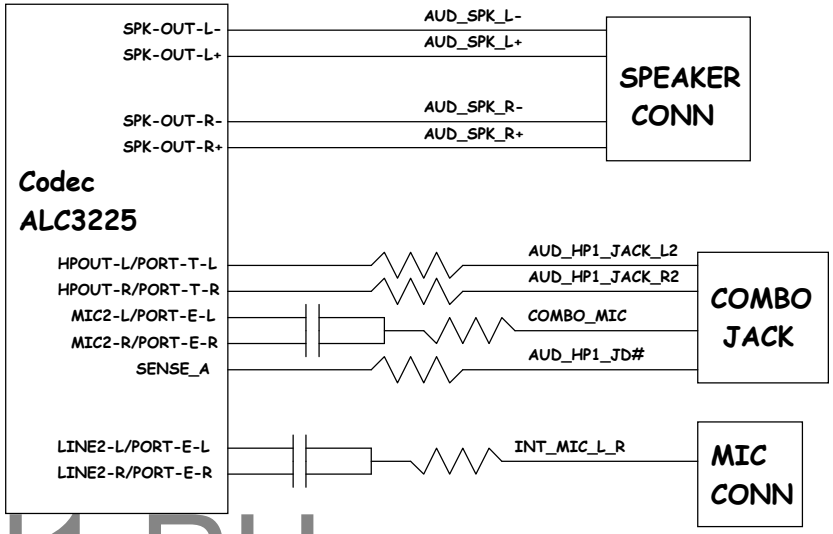
Size	Project Name	Rev
	KABINI	SA

Date: Wednesday, December 26, 2012 Sheet 101 of 102

Thermal Block Diagram



Audio Block Diagram



EAEG50 KB UMA

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	Project Name: KABINI	Rev: SA
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