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Cedar Schematic Beema

2014-03-05
REV : A00

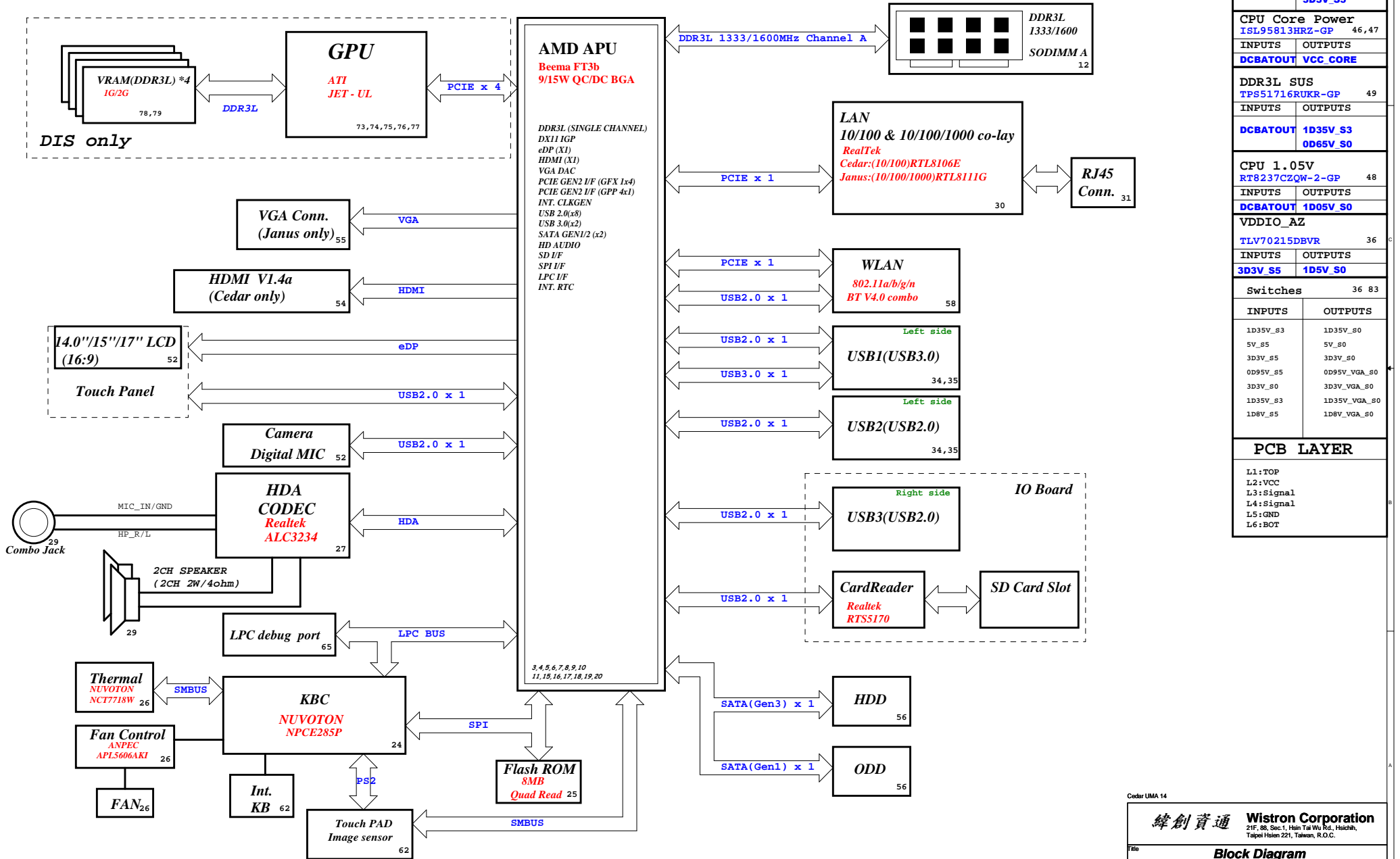
DY : None Installed
UMA: UMA only installed
OPS: DISCRTE SG installed

Cedar UMA 14

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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Project code:4PD00G010001
PCB P/N: 13283-1
Revision: A00

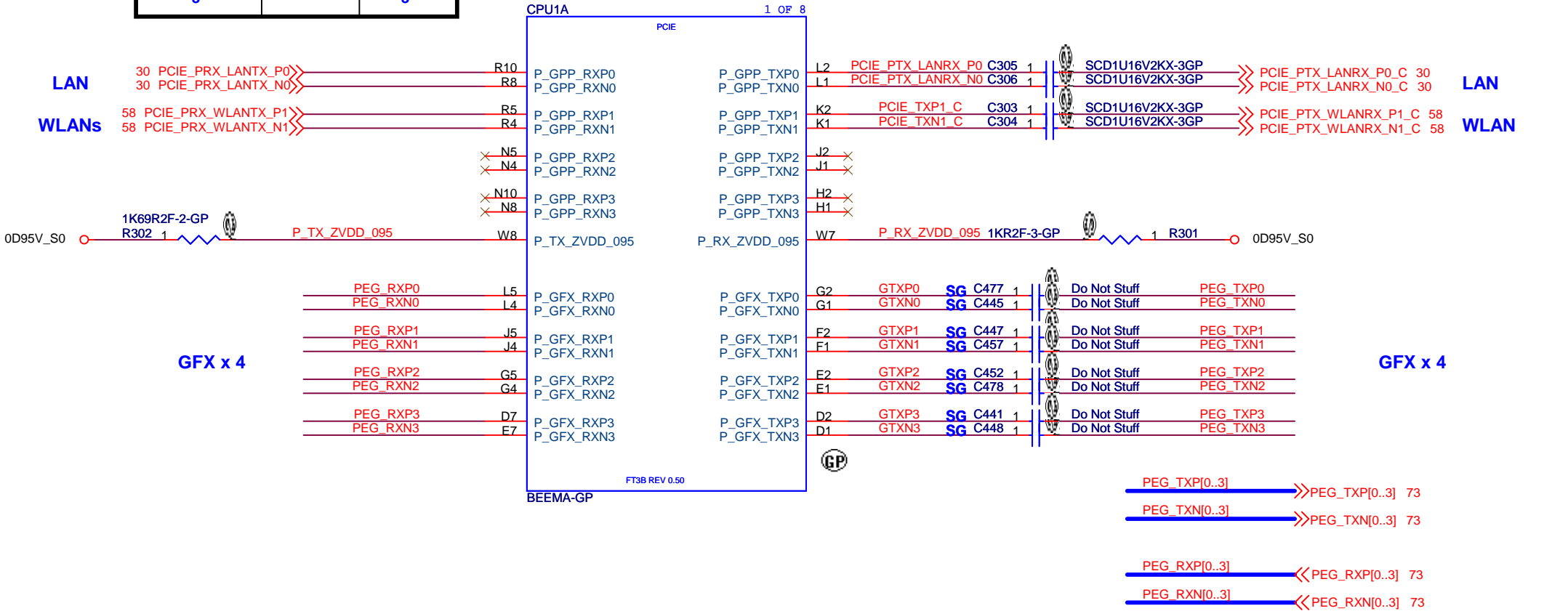
Cedar Block Diagram




CHARGER	
BQ24727RGRR	
44	
INPUTS	OUTPUTS
AD+	DCBATOUT
BT+	
SYSTEM DC/DC	
TPS51225RUKR-GP	
45	
INPUTS	OUTPUTS
DCBATOUT	3D3V_AUX_S5 5V_AUX_S5 5V_S5 3D3V_S5
CPU Core Power	
ISL95813HRZ-GP	
46,47	
INPUTS	OUTPUTS
DCBATOUT	VCC_CORE
DDR3L SUS	
TPS51716RUKR-GP	
49	
INPUTS	OUTPUTS
DCBATOUT	1D35V_S3 0D65V_S0
CPU 1.05V	
RT8237CZQW-2-GP	
48	
INPUTS	OUTPUTS
DCBATOUT	1D05V_S0
VDDIO_AZ	
TLV70215DBVR	
36	
INPUTS	OUTPUTS
3D3V_S5	1D5V_S0
Switches	
36	83
INPUTS	OUTPUTS
1D35V_S3	1D35V_S0
5V_S5	5V_S0
3D3V_S5	3D3V_S0
0D95V_S5	0D95V_VGA_S0
3D3V_S0	3D3V_VGA_S0
1D35V_S3	1D35V_VGA_S0
1D8V_S5	1D8V_VGA_S0
PCB LAYER	
L1:TOP L2:VCC L3:Signal L4:Signal L5:GND L6:BOT	

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GPP CLK port	Device	CLKREQ#
0	LAN WLAN	0
1		1
2		2
3		3



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Title

CPU (PCIE)

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Rev **A00**

Pre-PWROK METAL VID CODES

SVD	SVC	Output Voltage
0	0	1.1
1	0	1.0
0	1	0.9
1	1	0.8

HDMI

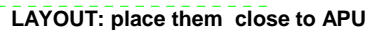
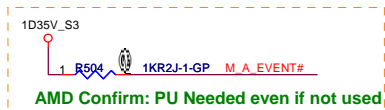
eDP

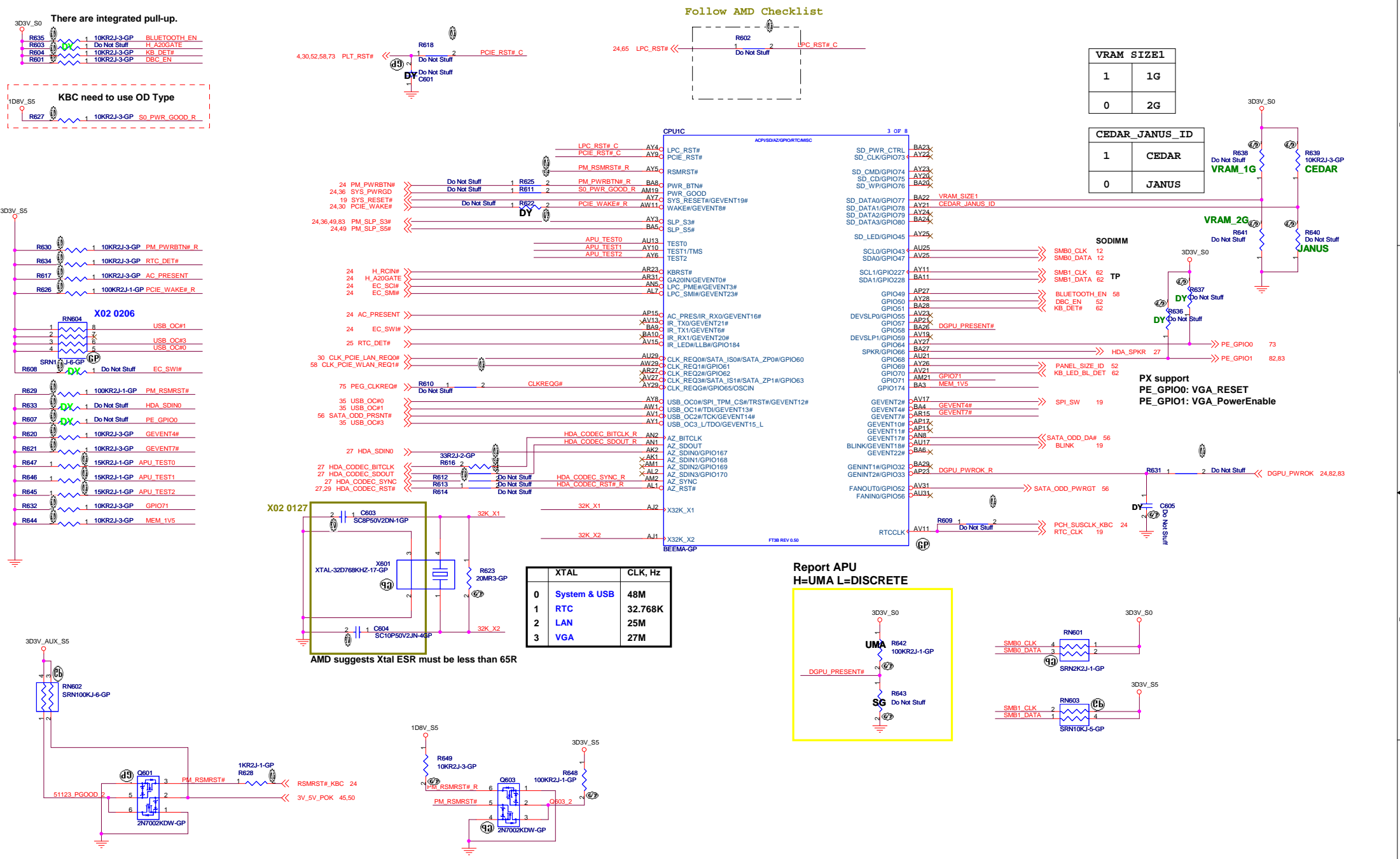
SMB1

APU core Control

HDT+ Connectors

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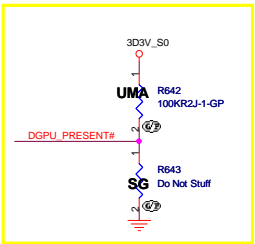


Follow AMD Checklist

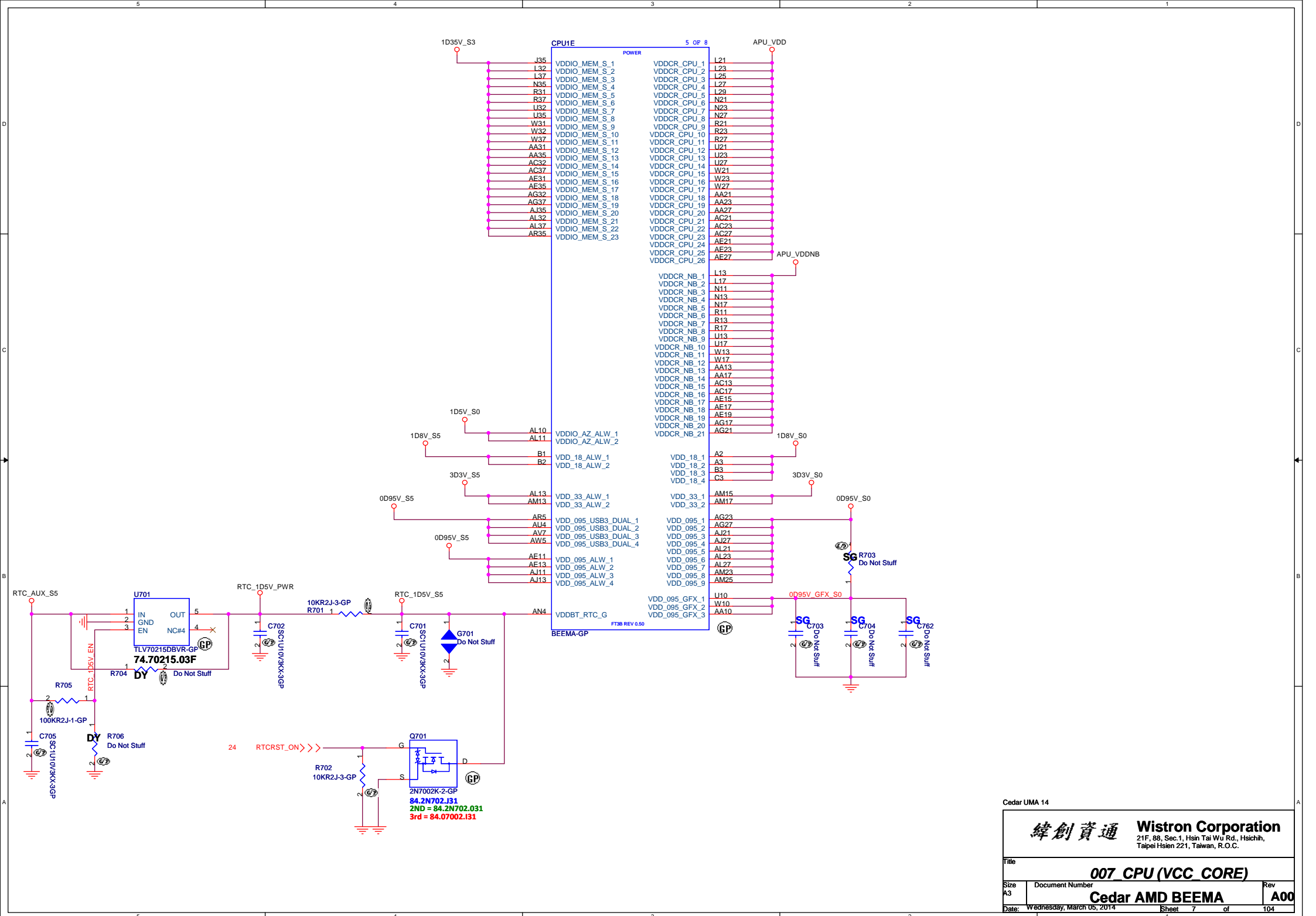
VRAM_SIZE1	
1	1G
0	2G

CEDAR_JANUS_ID	
1	CEDAR
0	JANUS

Report APU
H=UMA L=DISCRETE



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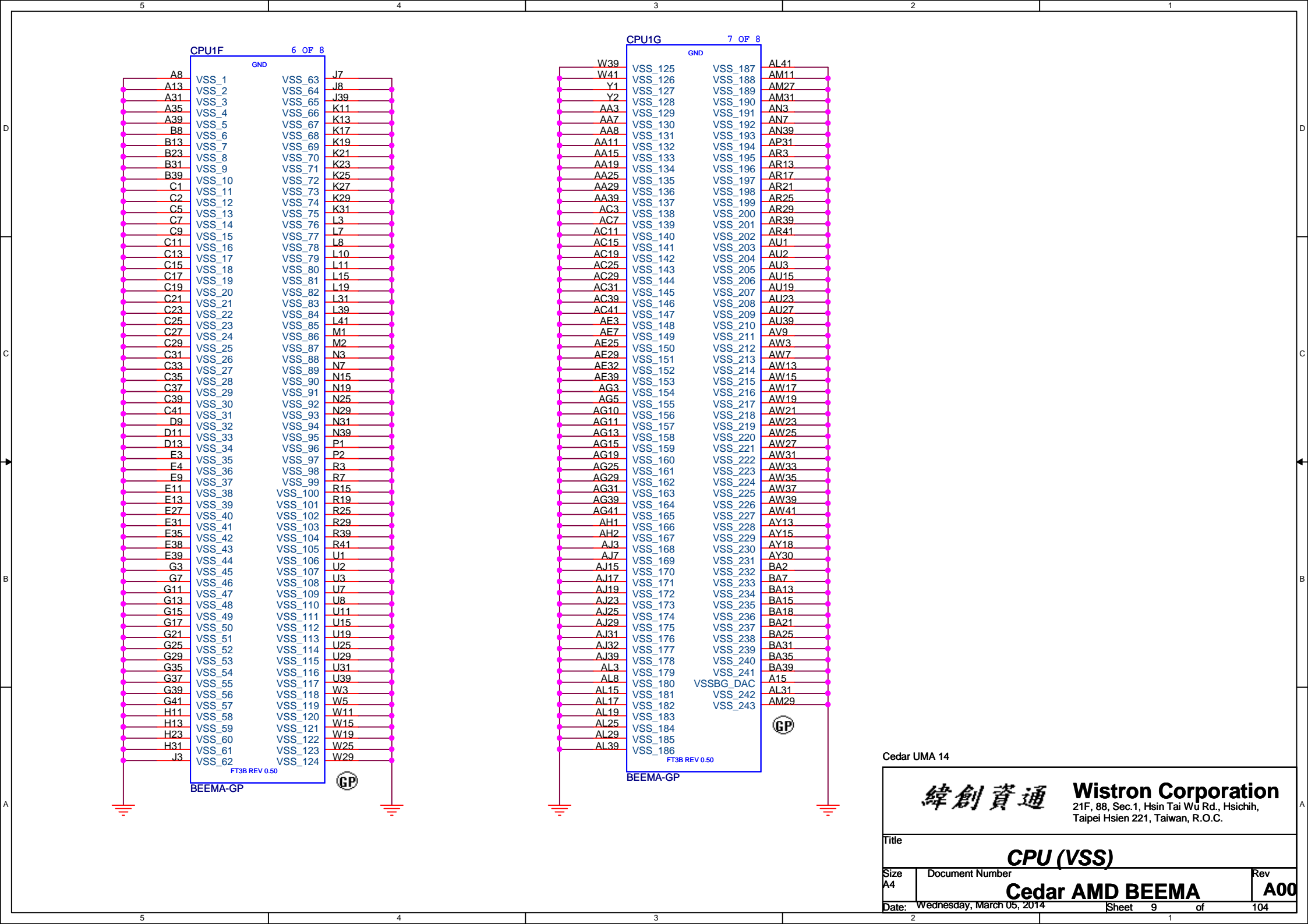


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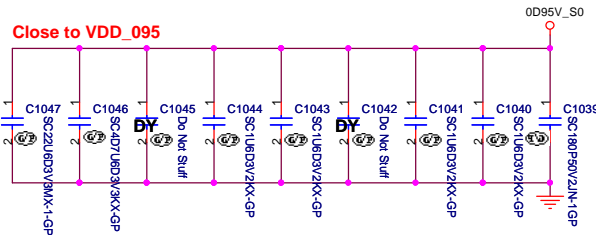
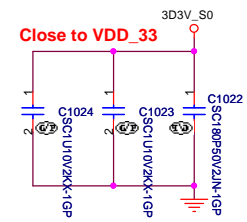
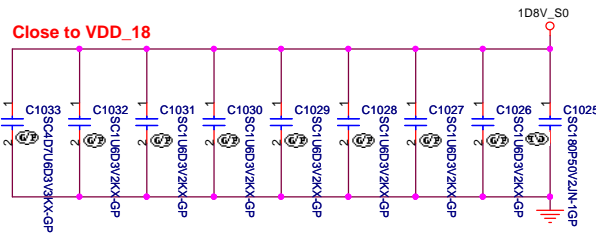
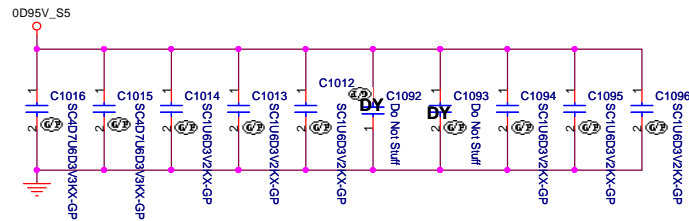
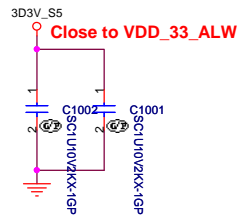
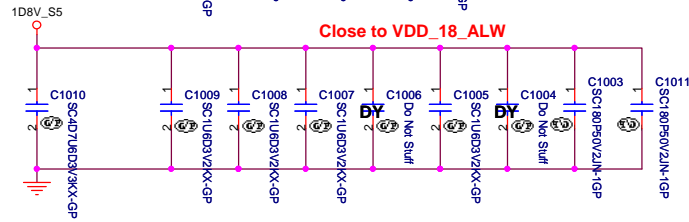
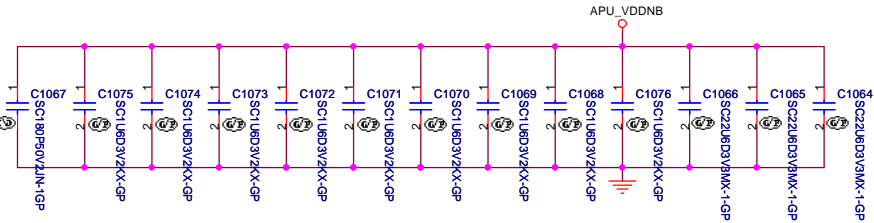
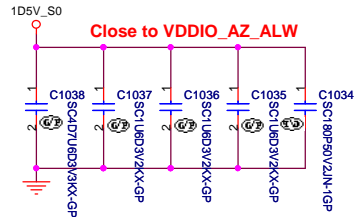
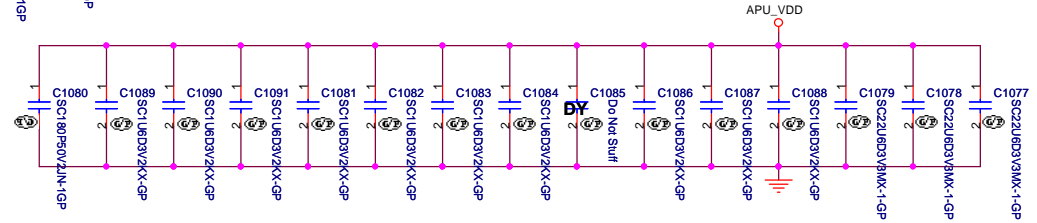
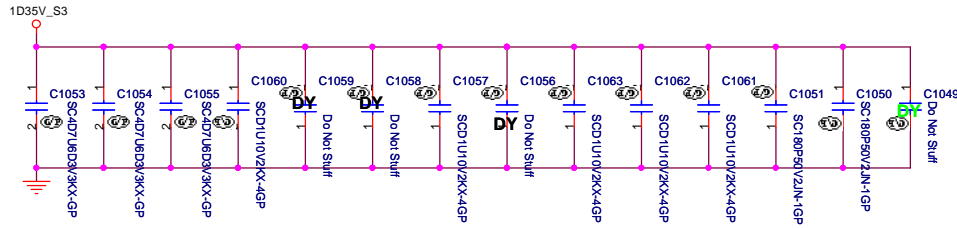
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Title		
CPU (VSS)		
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A4	Cedar AMD BEEMA				A00
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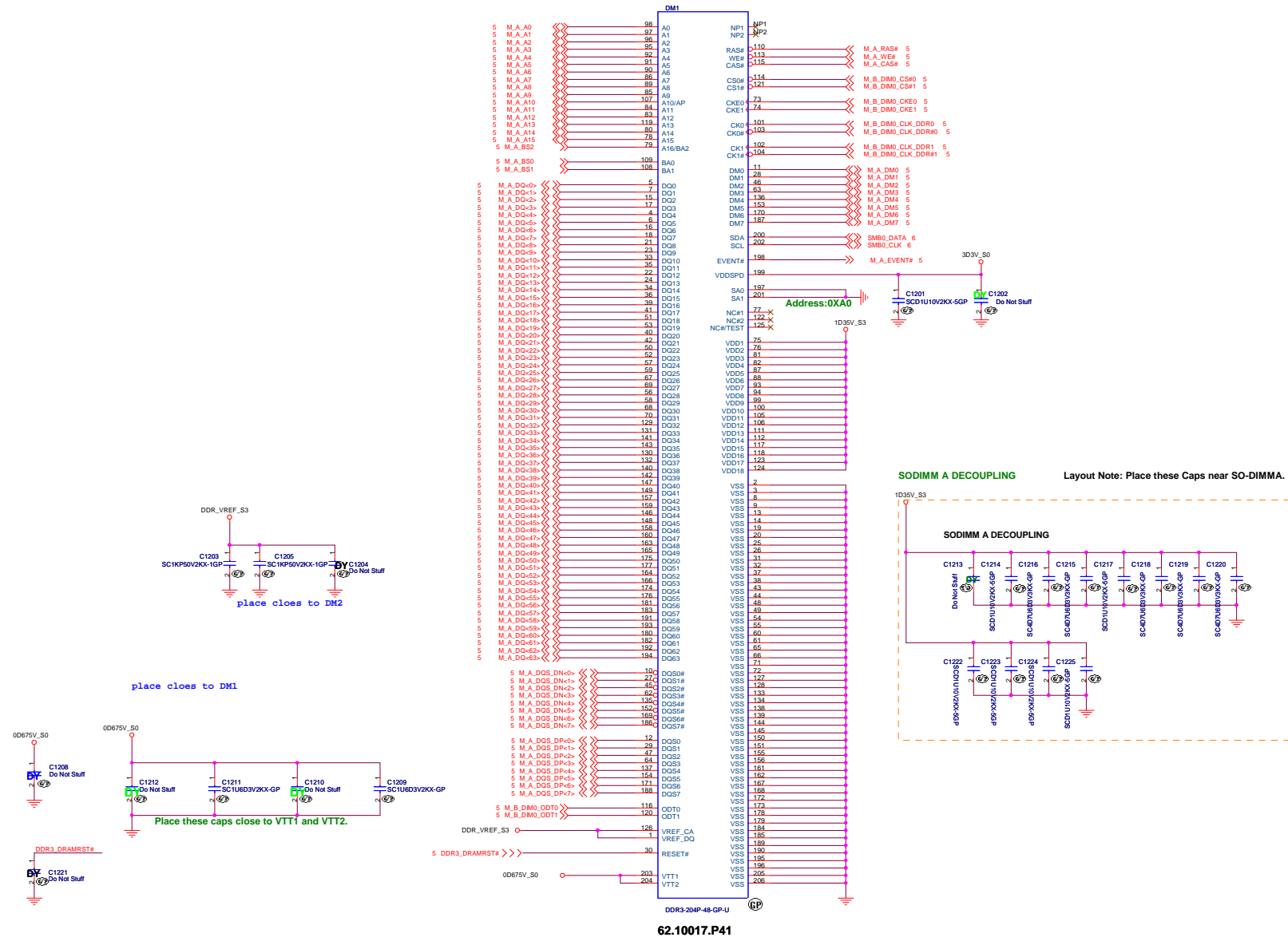
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SSID = MEMORY



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DDR3-SODIMM2

Size
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Rev

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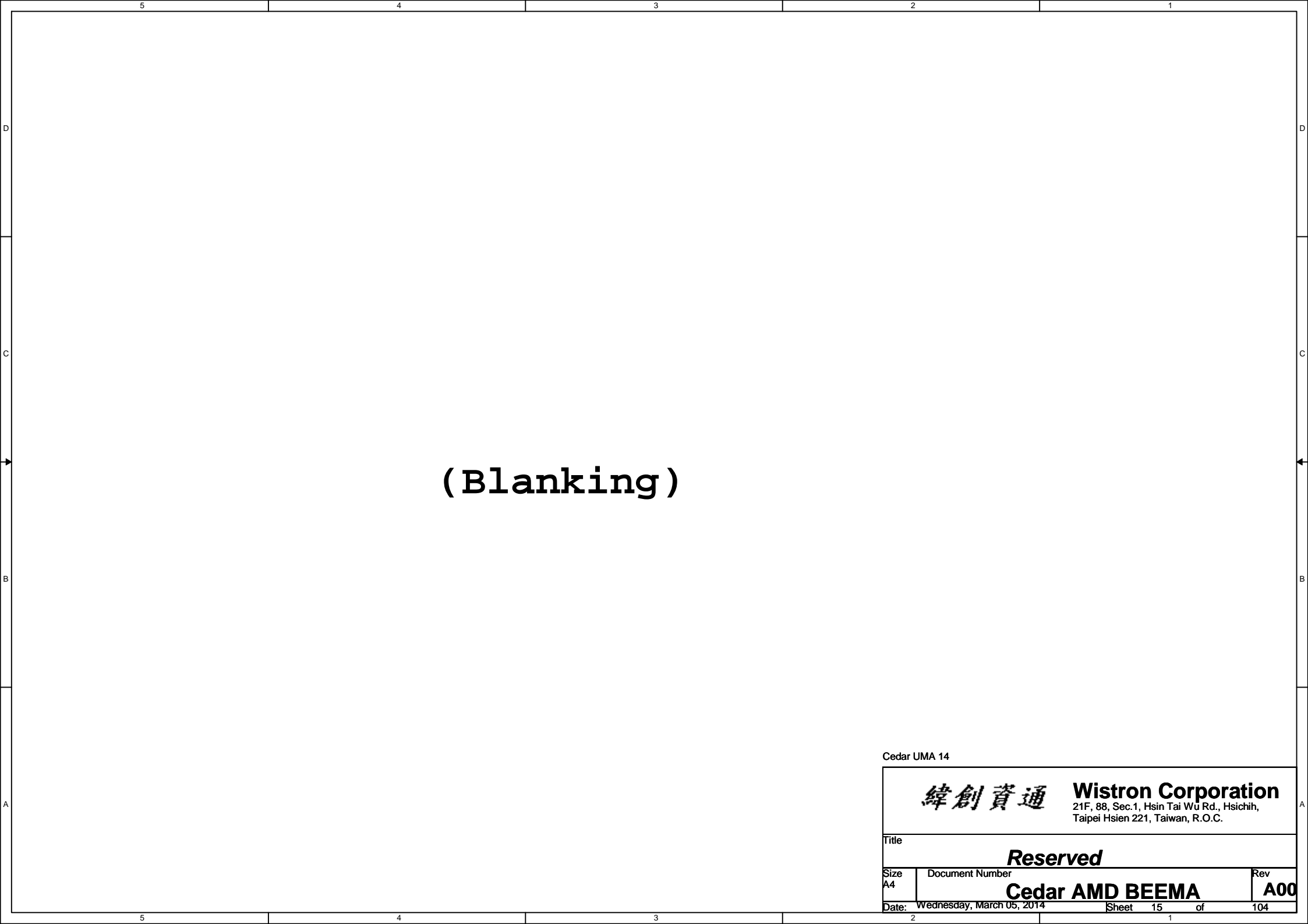
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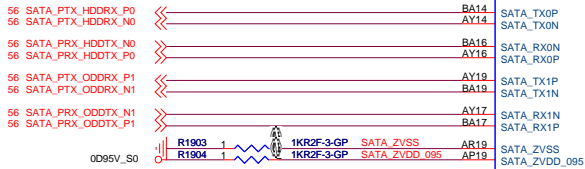
3

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SATA HDD

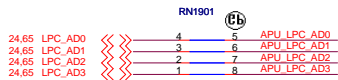
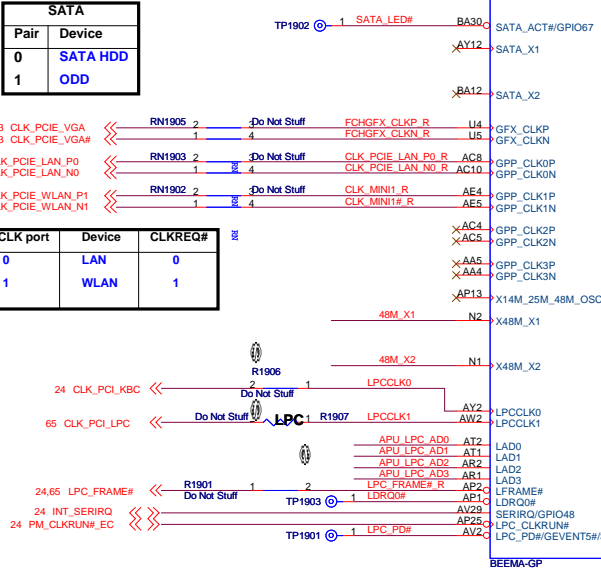
ODD



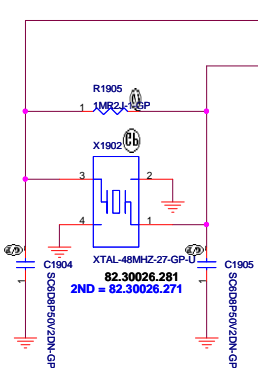
LAN

WLAN

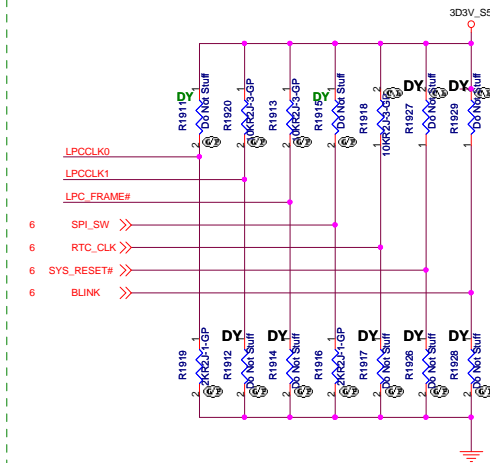
GPP CLK port	Device	CLKREQ#
0	LAN	0
1	WLAN	1



Do Not Stuff



SYSTEM STRAPPINGS



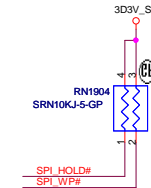
REQUIRED SYSTEM STRAPS

	LPC_CLK0	LPC_CLK1	LPC_FRAME#	SPI_SELECT	RTC_CLK	SYS_RESET#	BLINK
PULL HIGH	Boot Fail Timer Enabled	CLKGEN ENABLED DEFAULT	SPI ROM DEFAULT	1.8V SPI ROM DEFAULT	Coin Battery DEFAULT	NORMAL POWR UP /RESET TIMING DEFAULT	PWROK and RST_L pin routed to APU DEFAULT
PULL LOW	Boot Fail Timer Disabled DEFAULT	CLKGEN DISABLED	LPC ROM	3.3V SPI ROM	Direct DC	Reserved	Reserved

USB Table

Pair	Device
0	USB2.0 PORT1 Debug
1	USB2.0 PORT3 (DB Conn)
2	
3	NA
4	Card Reader
5	WLAN + BT (Mini PCI-E)
6	Touch Panel
7	CCD (CCD Conn)
0/8	USB3.0 & USB 2.0 (MB port2)
1/9	

	XTAL	CLK, Hz
0	System & USB	48M
1	RTC	32.768K
2	LAN	25M
3	VGA	27M



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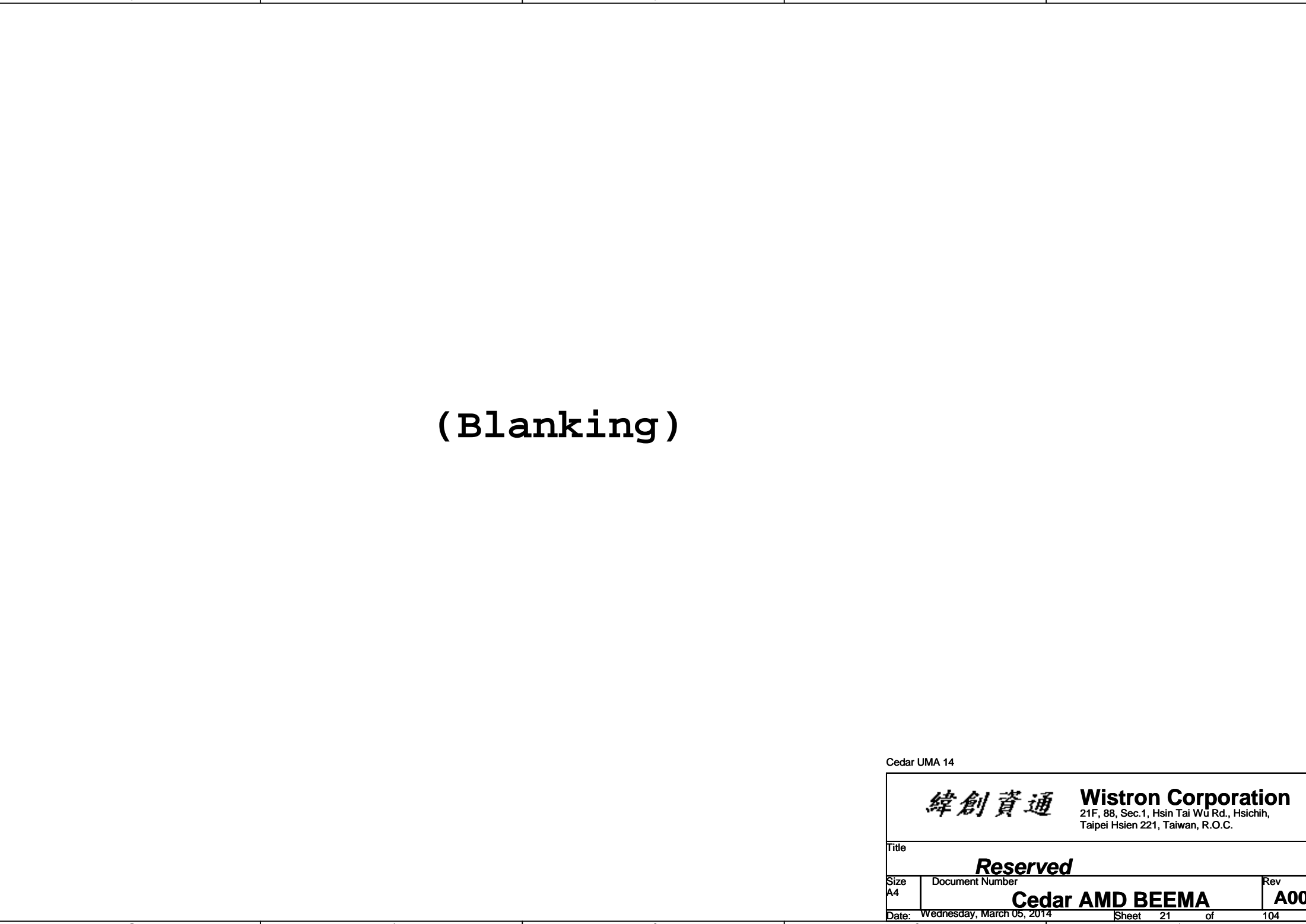
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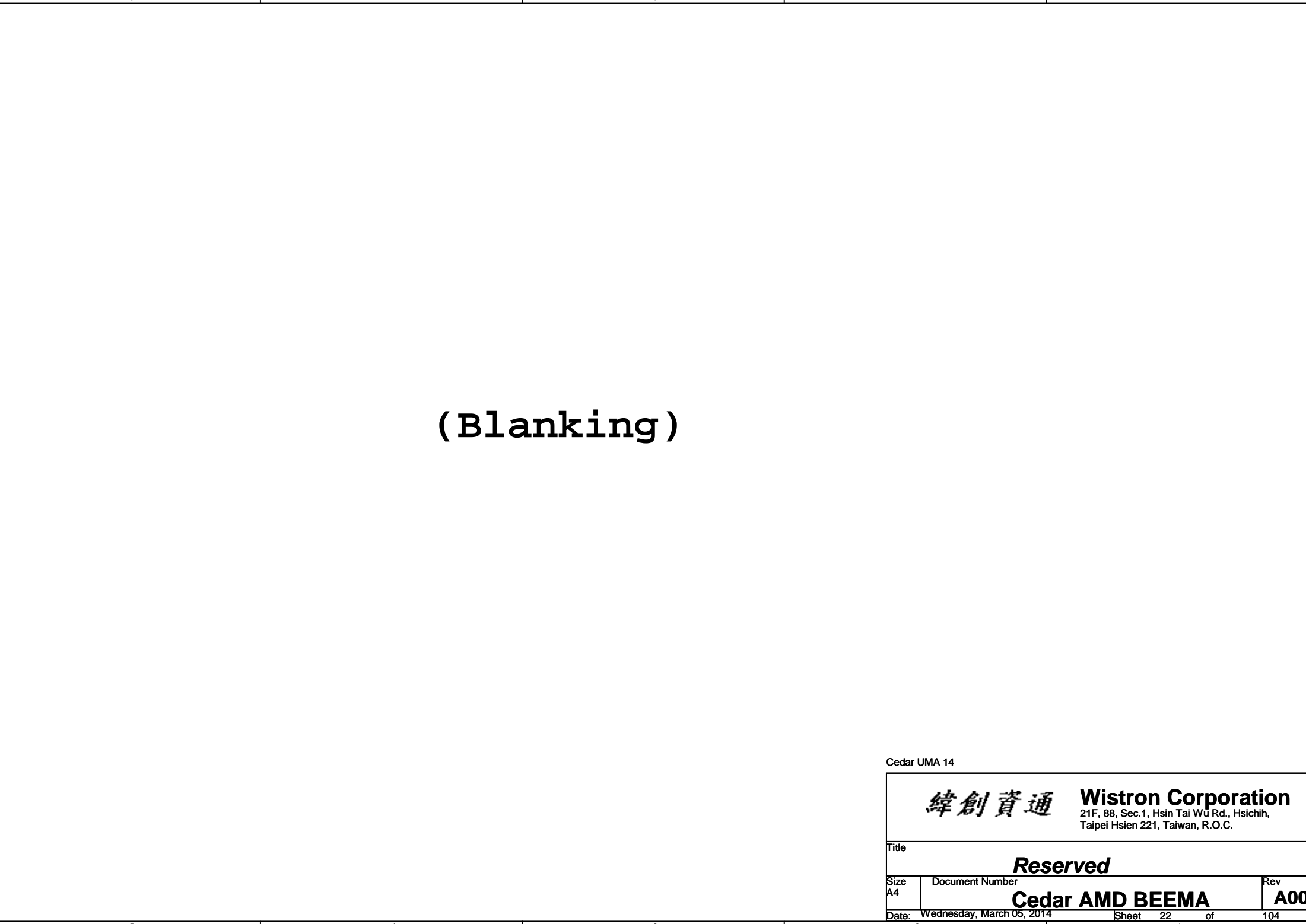
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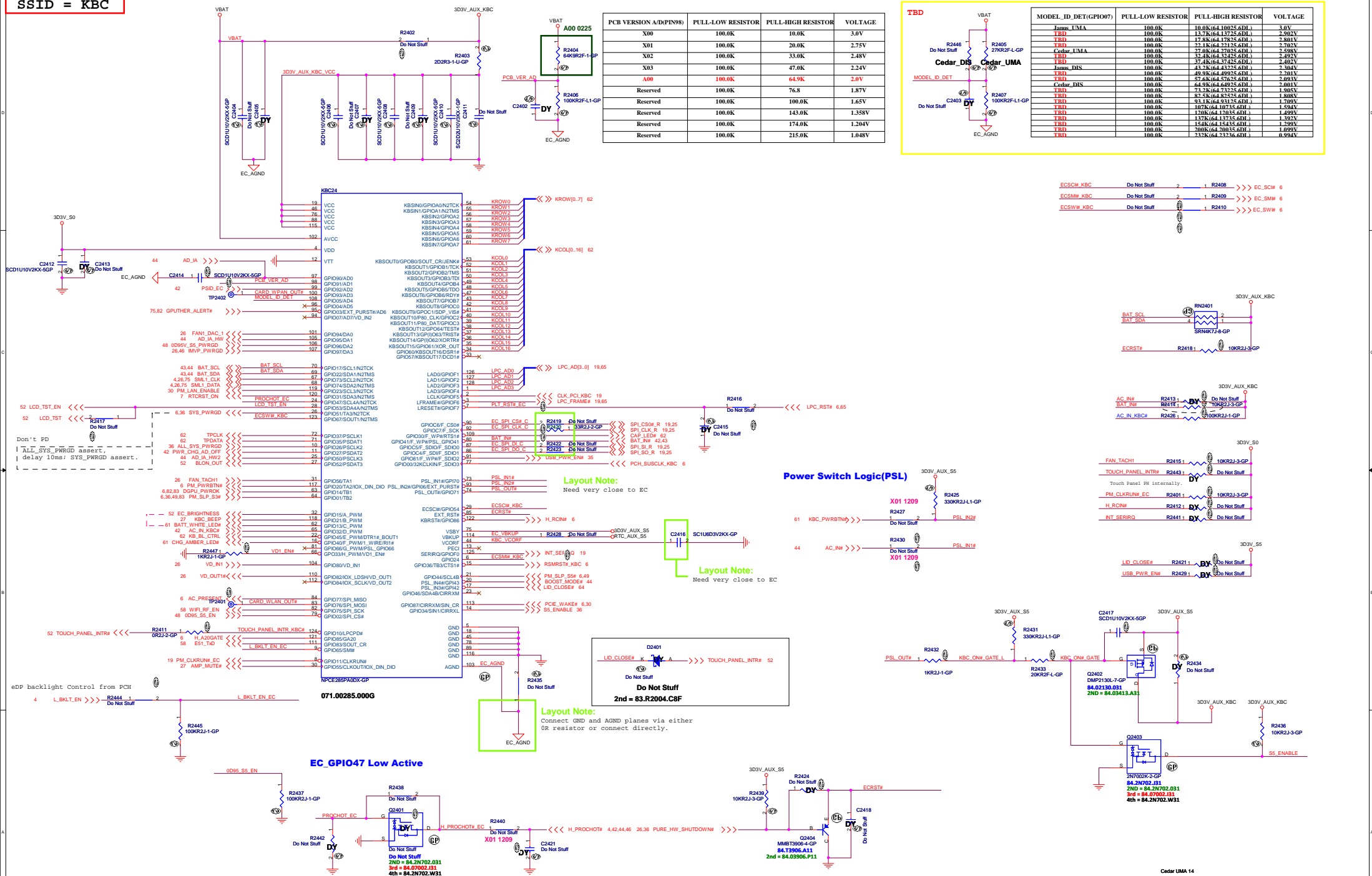
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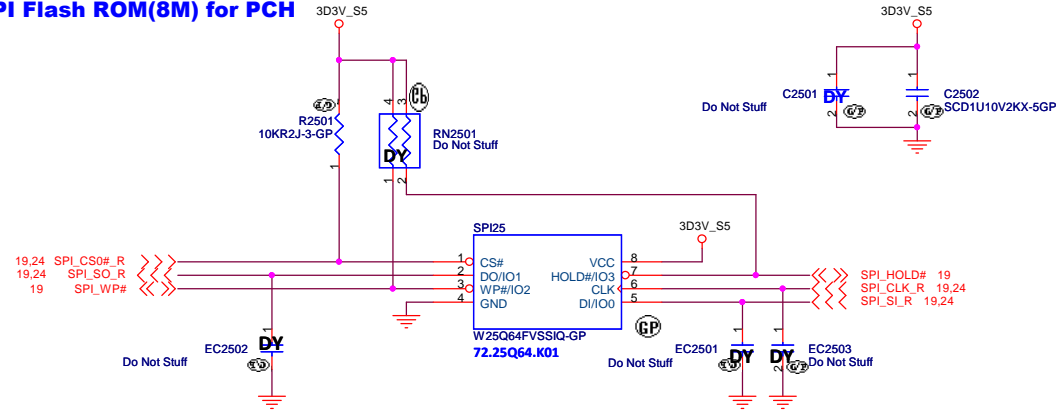
1

SSID = KBC



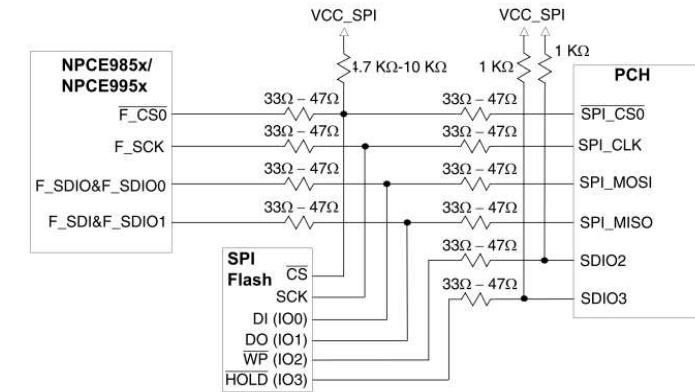
SSID = Flash.ROM

SPI Flash ROM(8M) for PCH



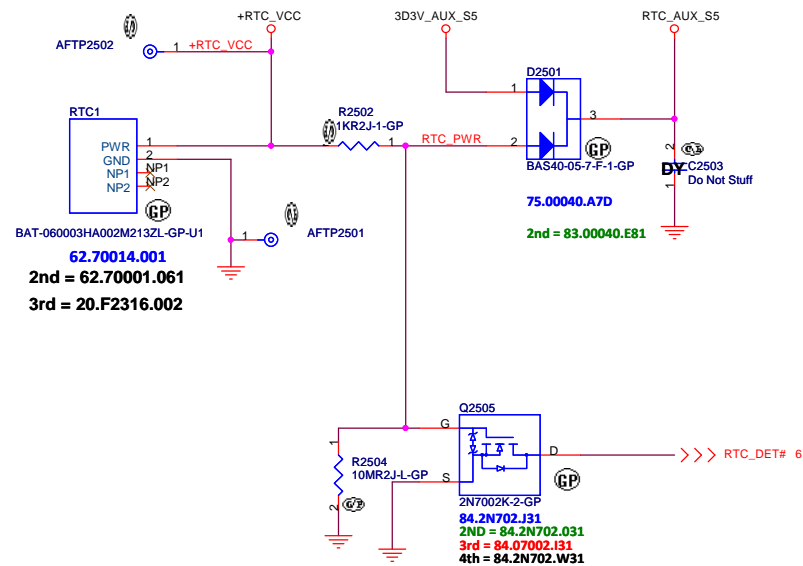
Source	QUAD/DUAL fast read	DUAL fast read
72.25Q64.K01	0	0
72.25647.00A	0	0

Single SPI shared flash connection (SPI Quad I/O mode)



Refer to "NCPE985x/ NPCE995x board design reference guide"

SSID = RBATT

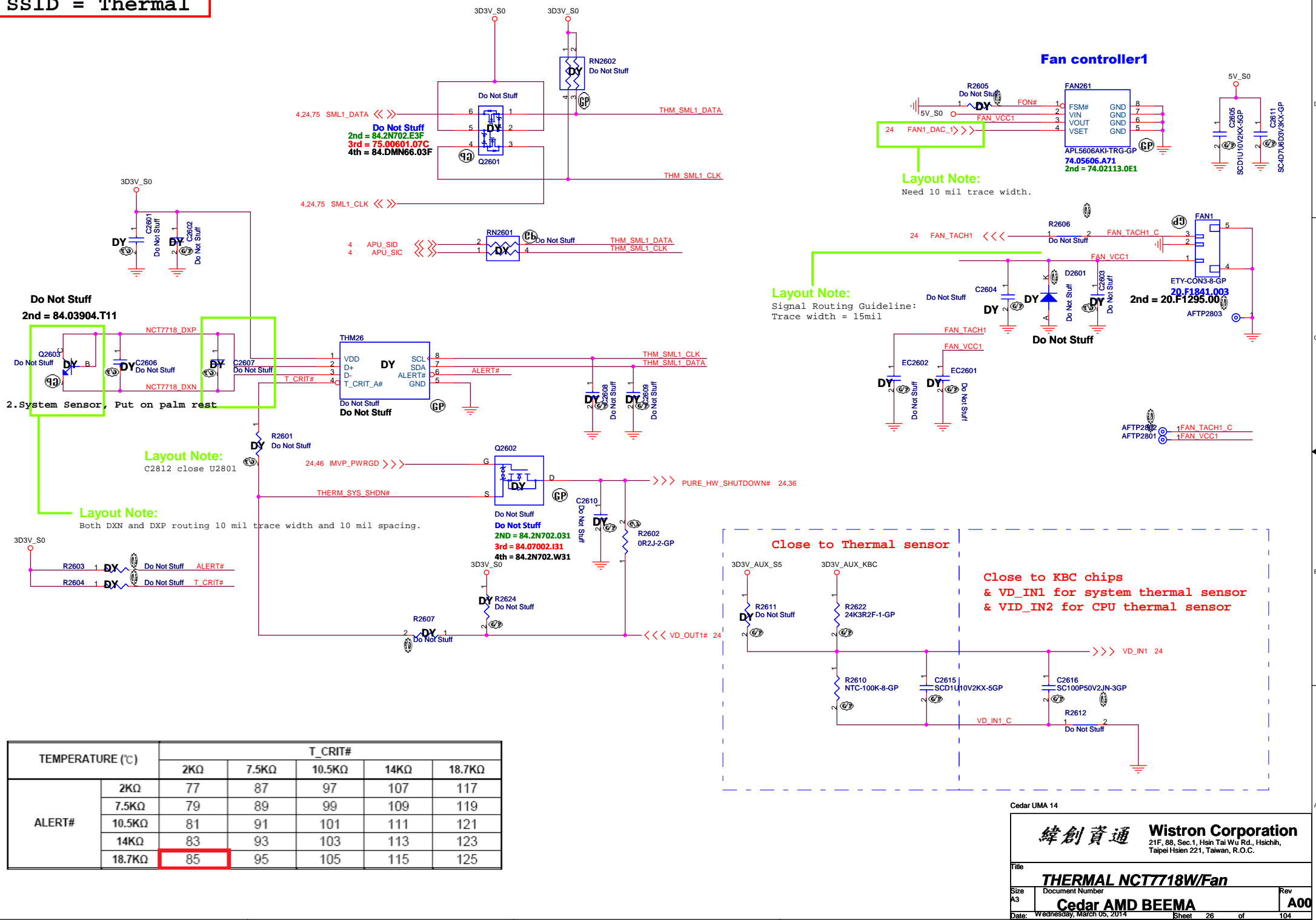


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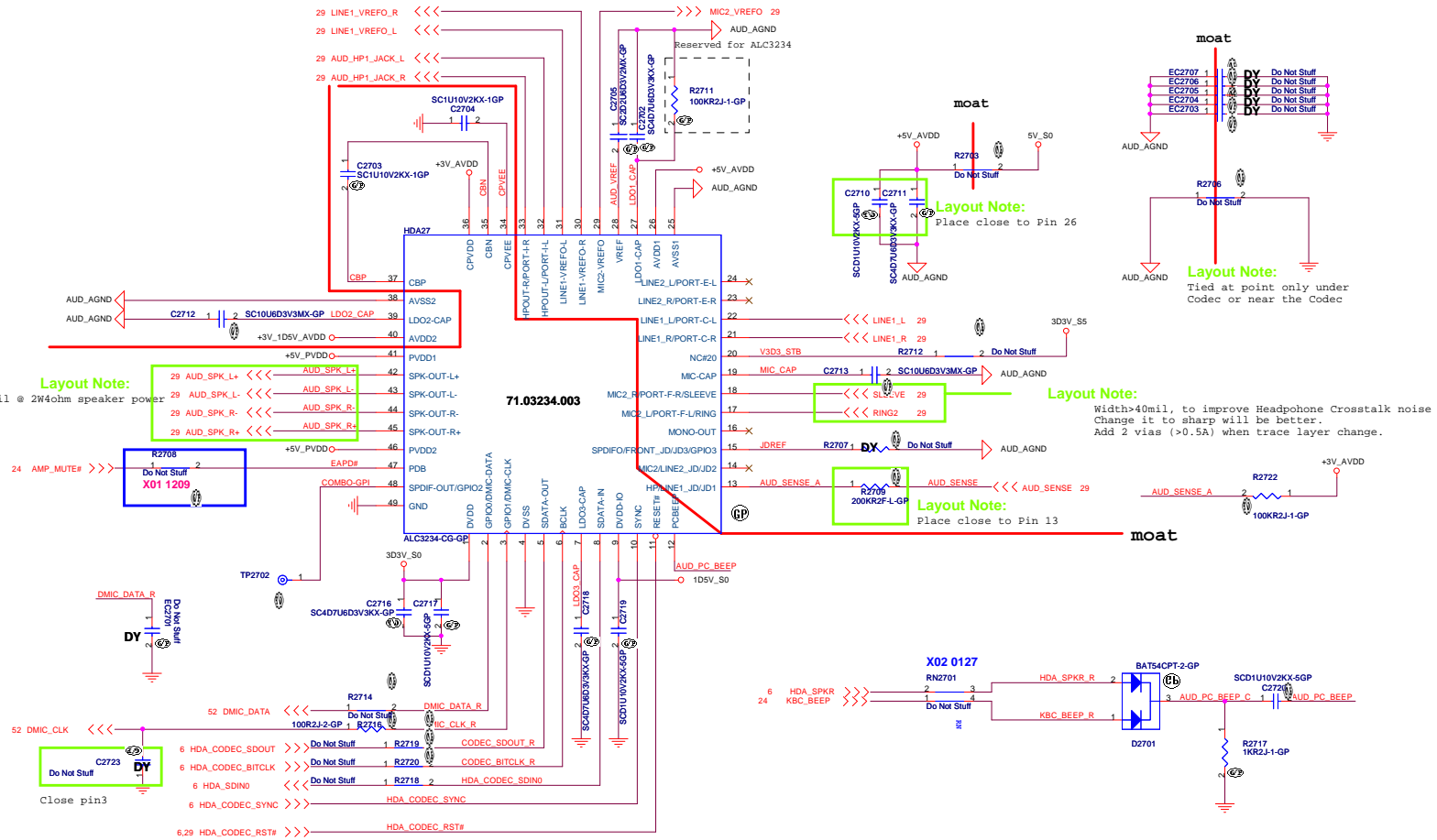
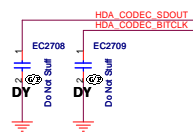
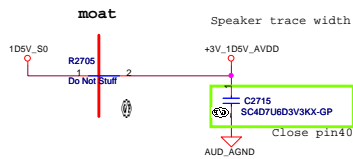
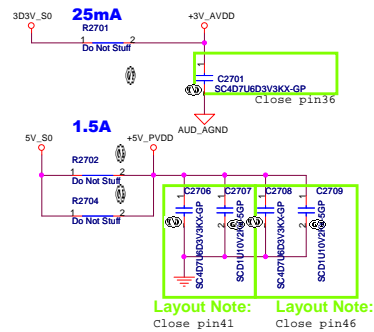
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Title			
Flash/RTC			
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SSID = Thermal



SSID = AUDIO



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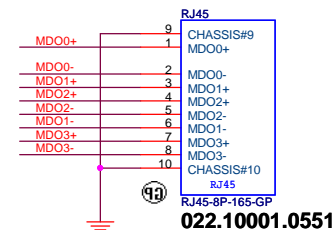
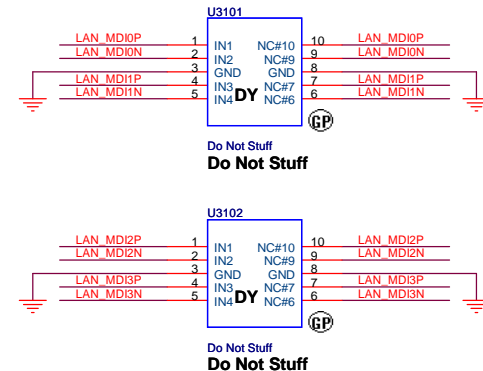
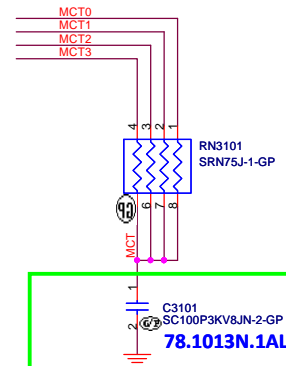
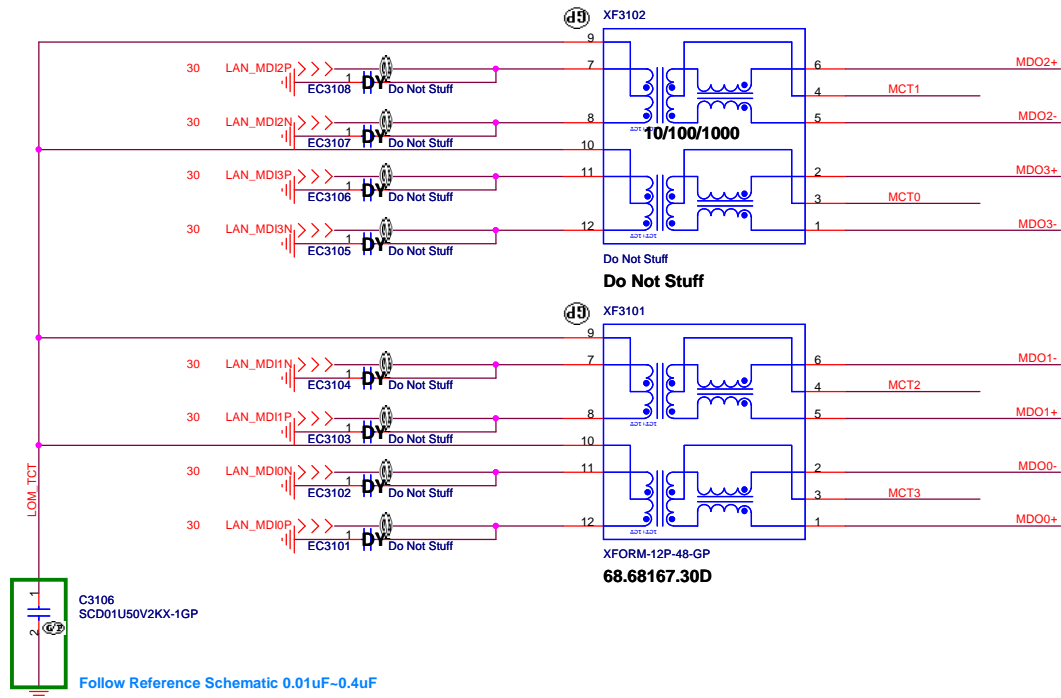
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SSID = LOM

LAN TransFormer (10/100/1000M & 10/100M co-lay)

Layout note:
30 mil spacing between MDI differential pairs.



Layout:
Place near RJ45



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Title

(Reserved)Card Reader

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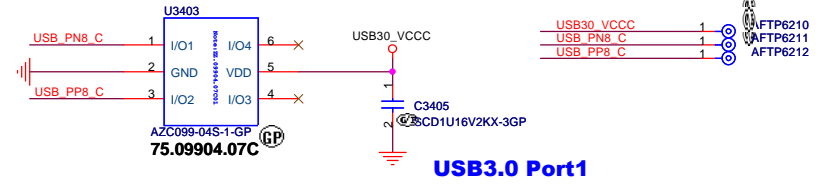
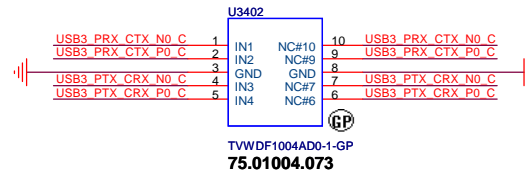
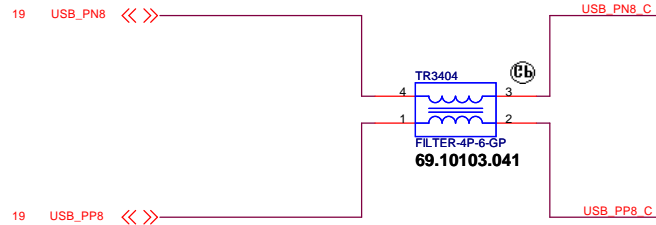
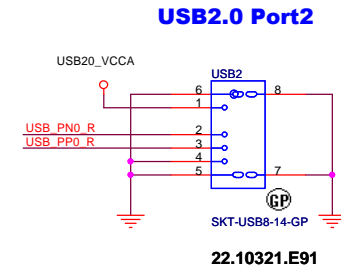
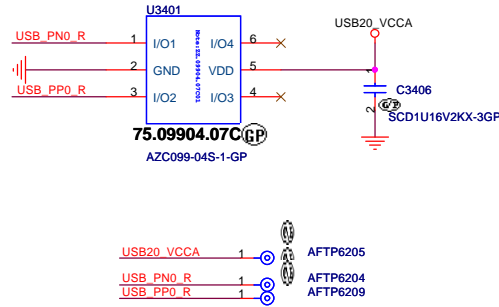
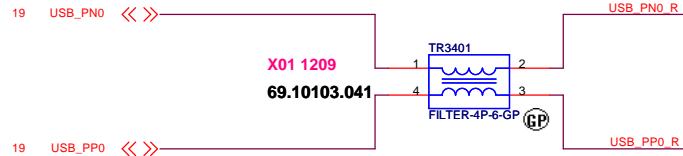
4

3

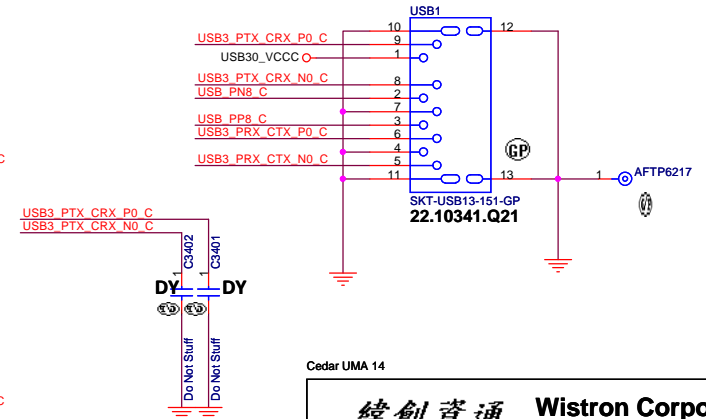
2

1

SSID = USB



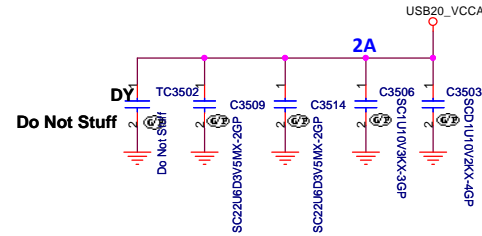
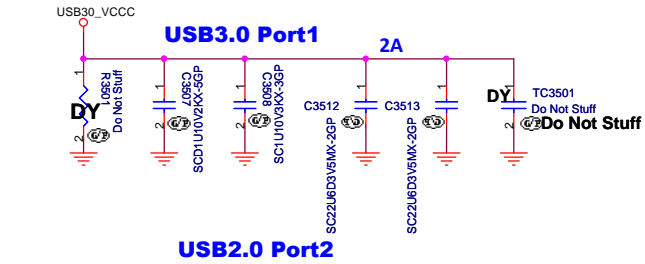
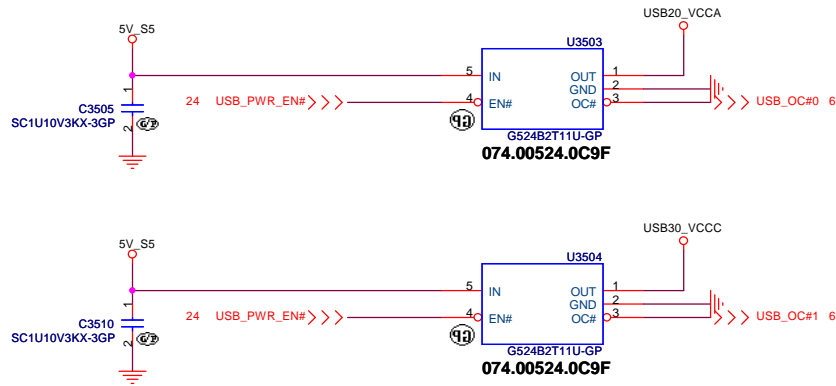
USB3.0 Port1



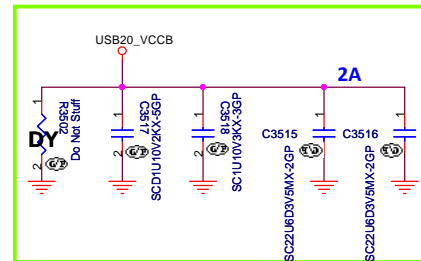
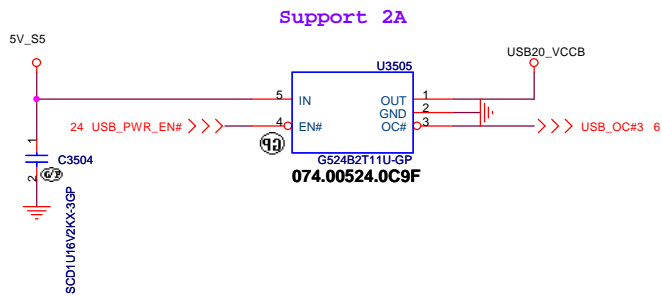
Cedar UMA 14

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Title			USB 3.0	
Size	Document Number	Rev		
A3	Cedar AMD BEEMA	A00		
Date:	Wednesday, March 05, 2014	Sheet	34	of 104



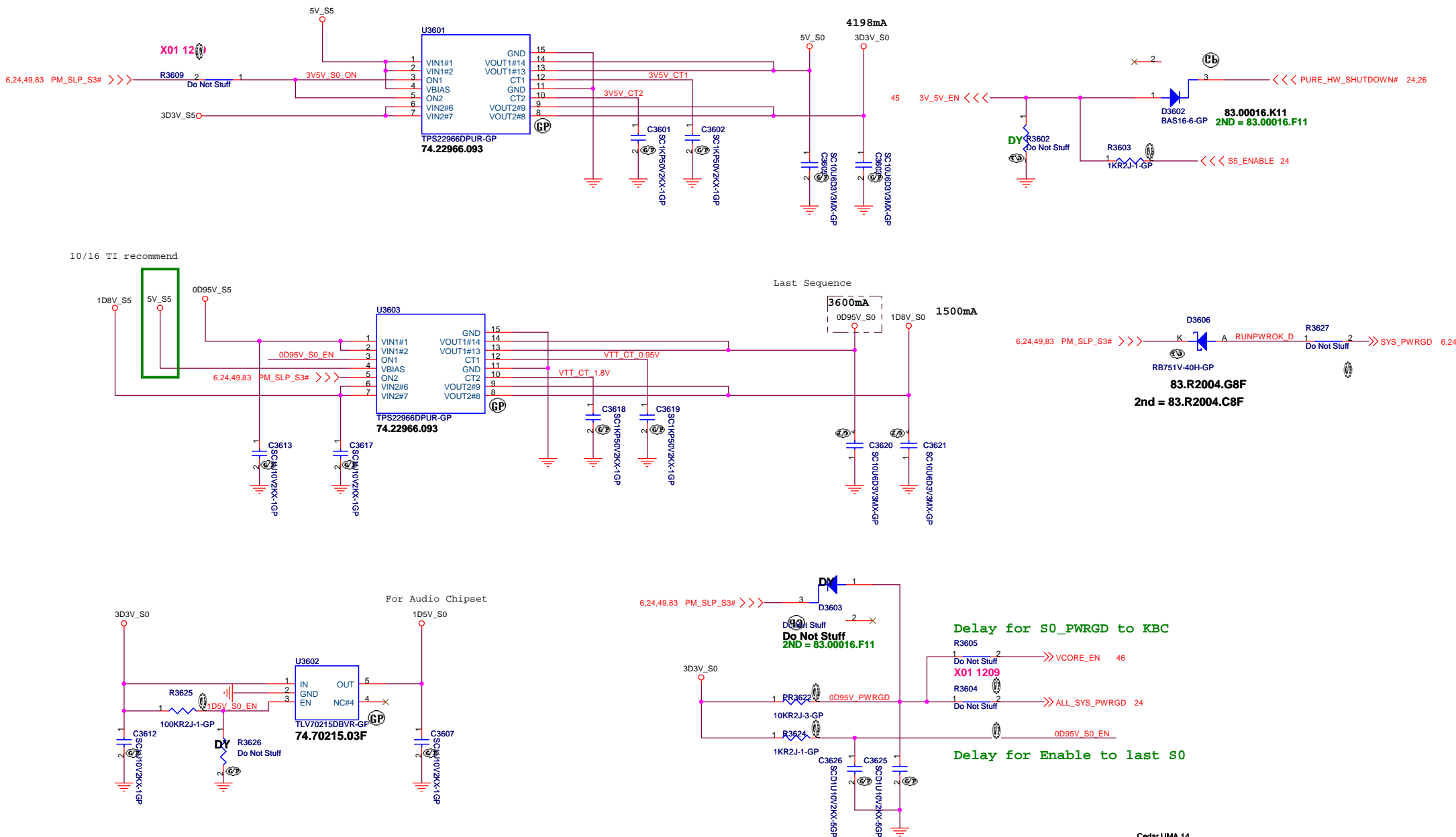
Layout Note: Close CON1



USB2.0 Port3 (IO Board)

Cedar UMA 14

Power Sequence



Cedar UMA 14

緯創資通 **Wistron Corporation**
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Taipei Hsien 221, Taiwan, R.O.C.

Title			
Power Plane Enable			
Size A3	Document Number		Rev
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SSID = Reset.Suspend

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Cedar UMA 14

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Title <div>(Reserved)</div>		
Size <div>A4</div>	Document Number <div>Cedar AMD BEEMA</div>	Rev <div>A00</div>
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Cedar UMA 14

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Title <div>(Reserved) 1D05_M</div>		
Size <div>A4</div>	Document Number <div>Cedar AMD BEEMA</div>	Rev <div>A00</div>
Date: Wednesday, March 05, 2014		Sheet 39 of 104

(Blanking)

Cedar UMA 14

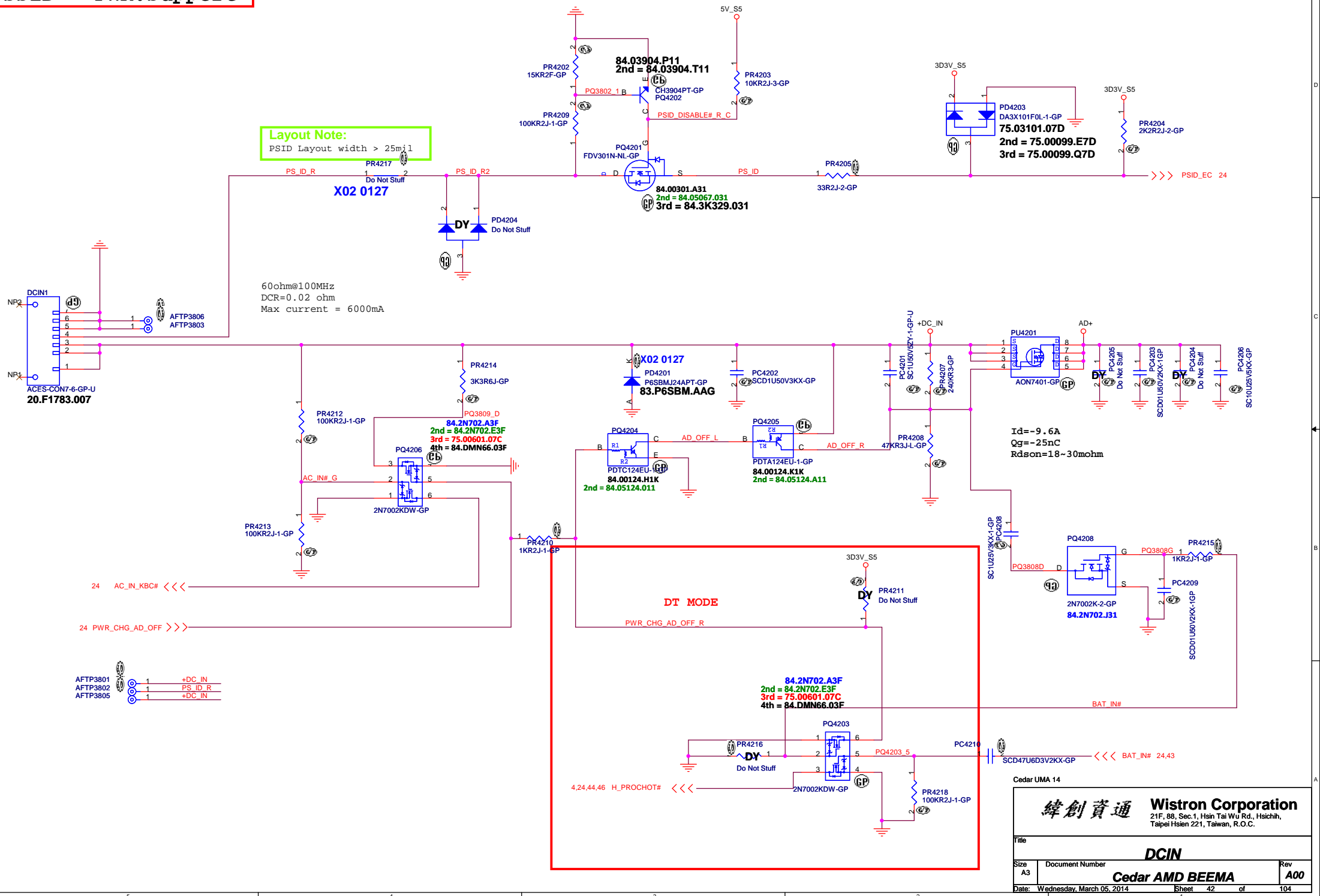
<div>緯創資通</div> <div>Wistron Corporation</div> <div>21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.</div>		
Title		
Reserved		
Size A4	Document Number Cedar AMD BEEMA	Rev A00
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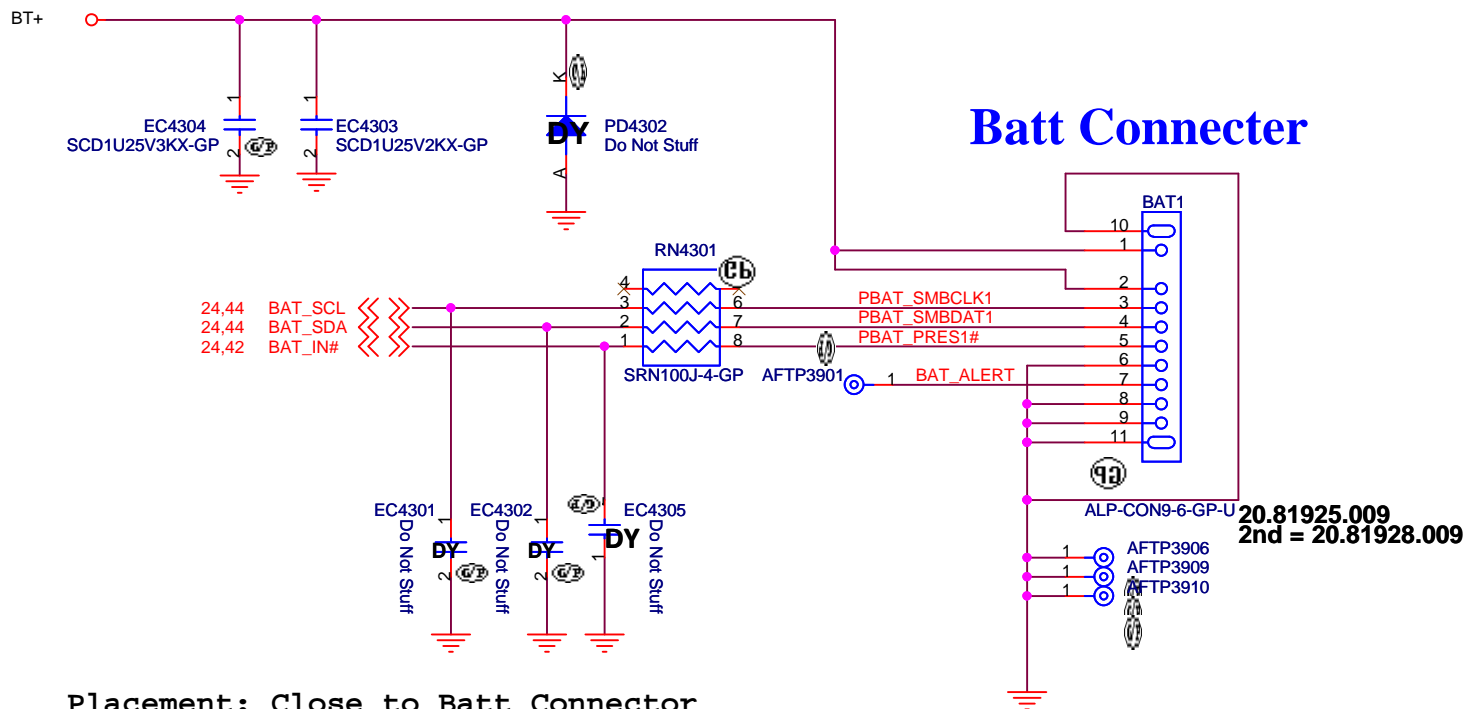
Cedar UMA 14

<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>Reserved</div>					
Size	Document Number		Rev		
A4	<div>Cedar AMD BEEMA</div>		A00		
Date:	Wednesday, March 05, 2014		Sheet 41 of 104		

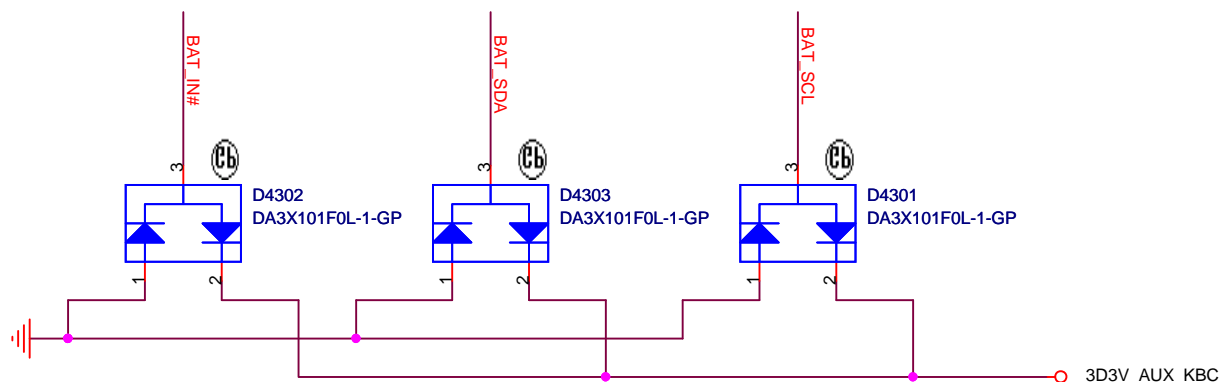
SSID = PWR.Support



SSID = PWR.Support



Placement: Close to Batt Connector



75.03101.07D

2nd = 75.00099.E7D

3rd = 75.00099.Q7D

75.03101.07D

2nd = 75.00099.E7D

3rd = 75.00099.Q7D

75.03101.07D

2nd = 75.00099.E7D

3rd = 75.00099.Q7D

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Title

BATT CONN

Size
A4

Document Number

Cedar AMD BEEMA

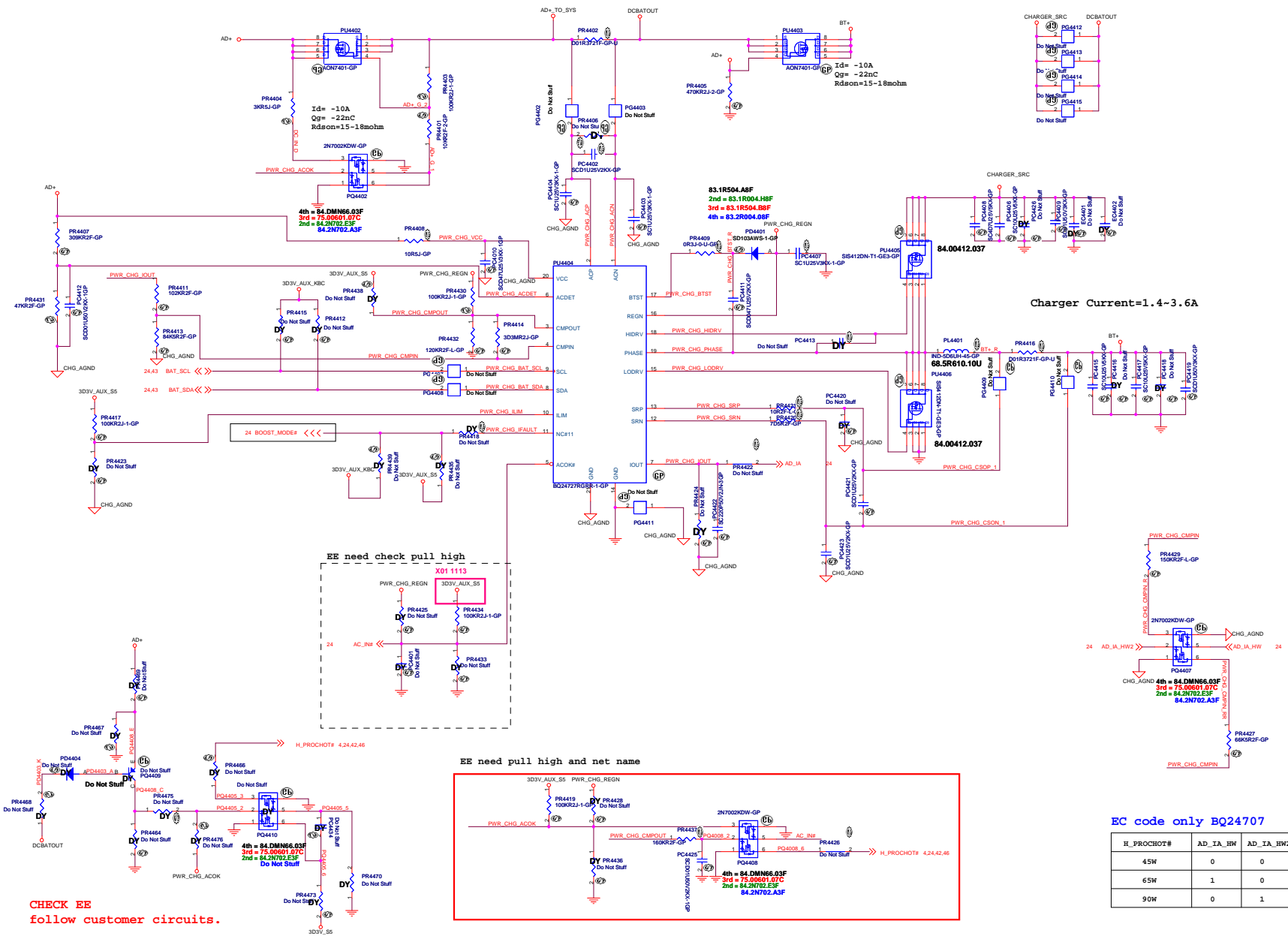
Rev

A00

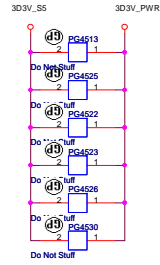
Date: Wednesday, March 05, 2014

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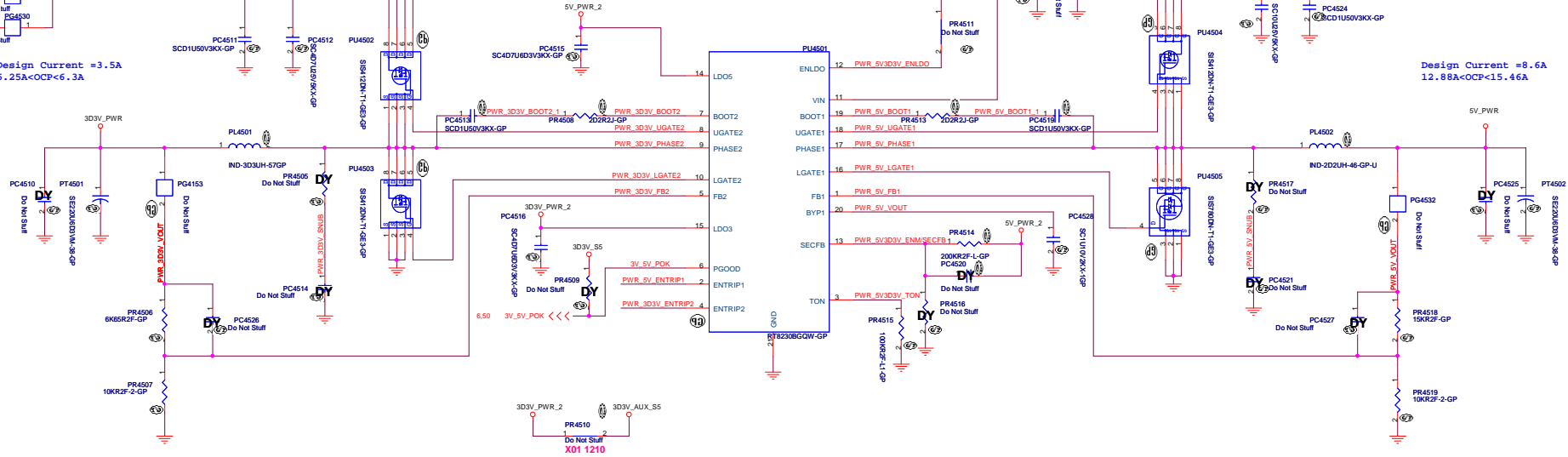
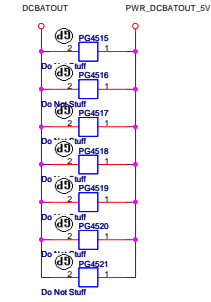
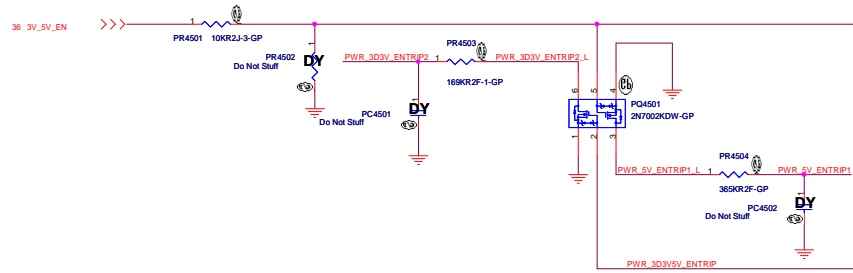
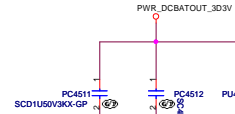
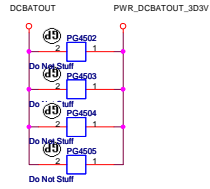
SSID = Charger



SSID = PWR.Plane.Regulator_5v3p3v



Design Current =3.5A
5.25A<OCP<6.3A

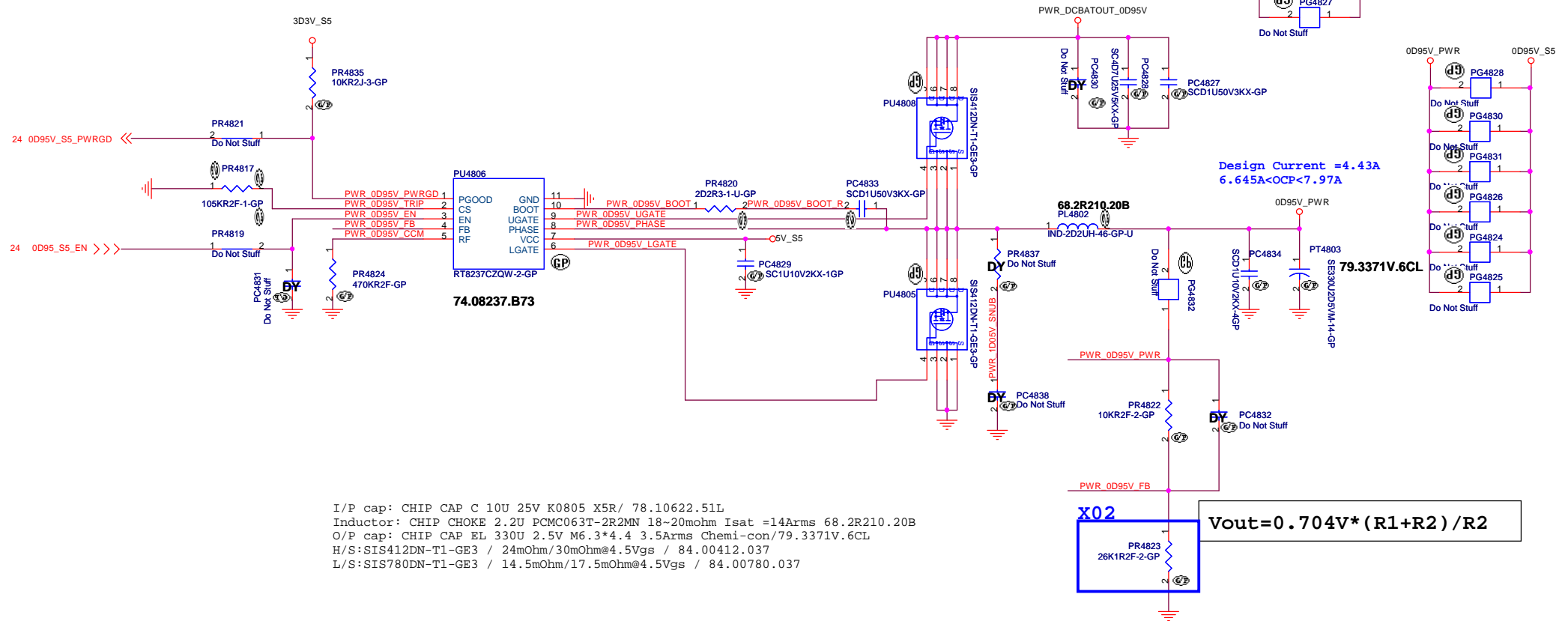


I/P cap: CHIP CAP C 10U 25V K0805 X5R/ 78.10622.51L
Inductor: CHIP IND 3.3UH PCMC063T-3R3MN Cyntec 28mohm/30mohm Isat =13.5Arms 68.3R310.20A
O/P cap:CHIP CAP EL 220U 6.3V M6.3*4.4 /Chemi-con/ 18mOhm / 79.22710.3KL
H/S:SIS412 / 24mOhm/30mOhm@4.5Vgs / 84.00412.037
L/S:SIS780 / 14.5mOhm/17.5mOhm@4.5Vgs / 84.00780.037

I/P cap: CHIP CAP C 10U 25V K0805 X5R/ 78.10622.51L
Inductor: CHIP CHOKE 2.2U PCMC063T-2R2MN 18mohm/20mohm Isat =14Arms 68.2R210.20B
O/P cap:CHIP CAP EL 220U 6.3V M6.3*4.4 /Chemi-con/ 18mOhm / 79.22710.3KL
H/S:SIS412 / 24mOhm/30mOhm@4.5Vgs / 84.00412.037
L/S:SIS780 / 14.5mOhm/17.5mOhm@4.5Vgs / 84.00780.037

Cedar UMA 14

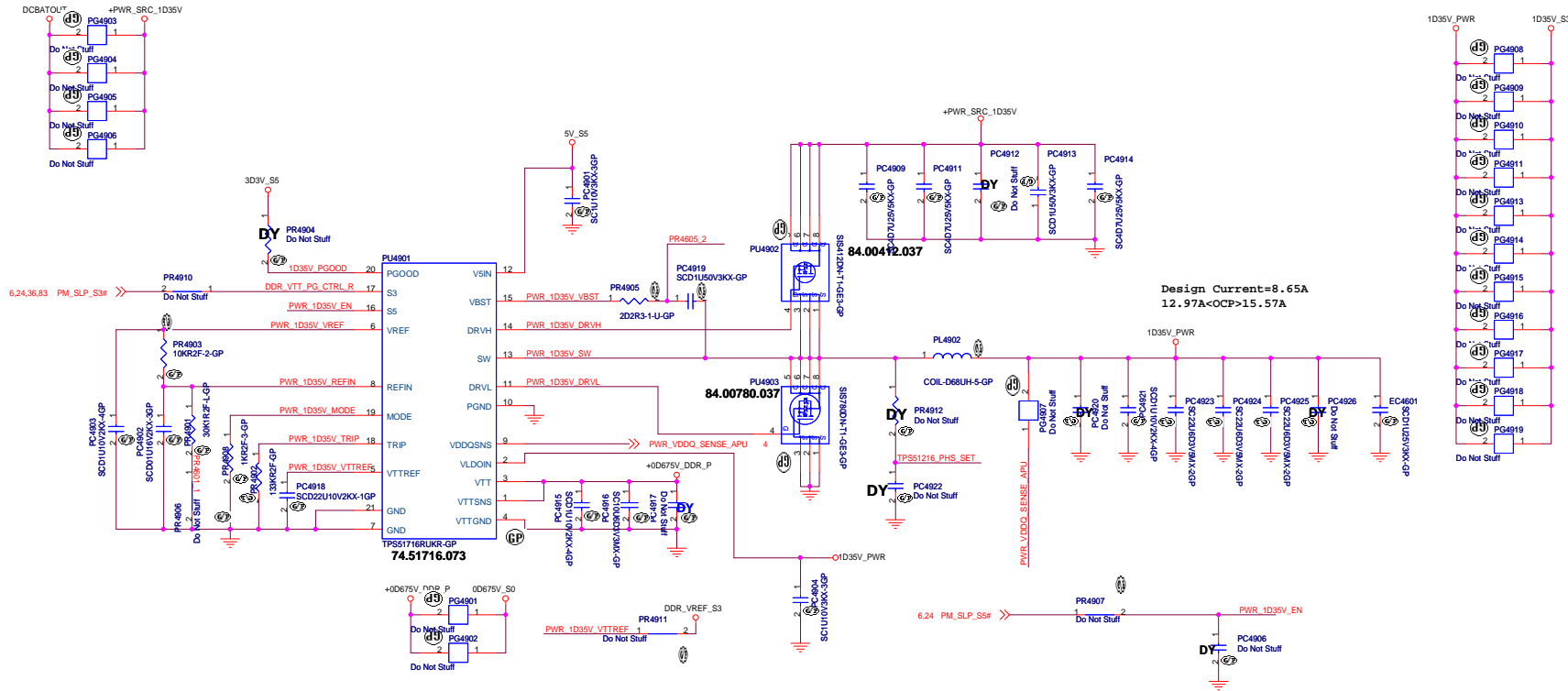

```
SSID = PWR.Plane.Regulator_1p05v
```



I/P cap: CHIP CAP C 10U 25V K0805 X5R/ 78.10622.51L
Inductor: CHIP CHOKE 2.2U PCMC063T-2R2MN 18-20mohm Isat =14Arms 68.2R210.20B
O/P cap: CHIP CAP EL 330U 2.5V M6.3*4.4 3.5Arms Chemi-con/79.3371V.6CL
H/S:SIS412DN-T1-GE3 / 24mOhm/30mOhm@4.5Vgs / 84.00412.037
L/S:SIS780DN-T1-GE3 / 14.5mOhm/17.5mOhm@4.5Vgs / 84.00780.037

$$V_{out} = 0.704V * (R1 + R2) / R2$$

SSID = PWR.Plane.Regulator 1p35v0p675v



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

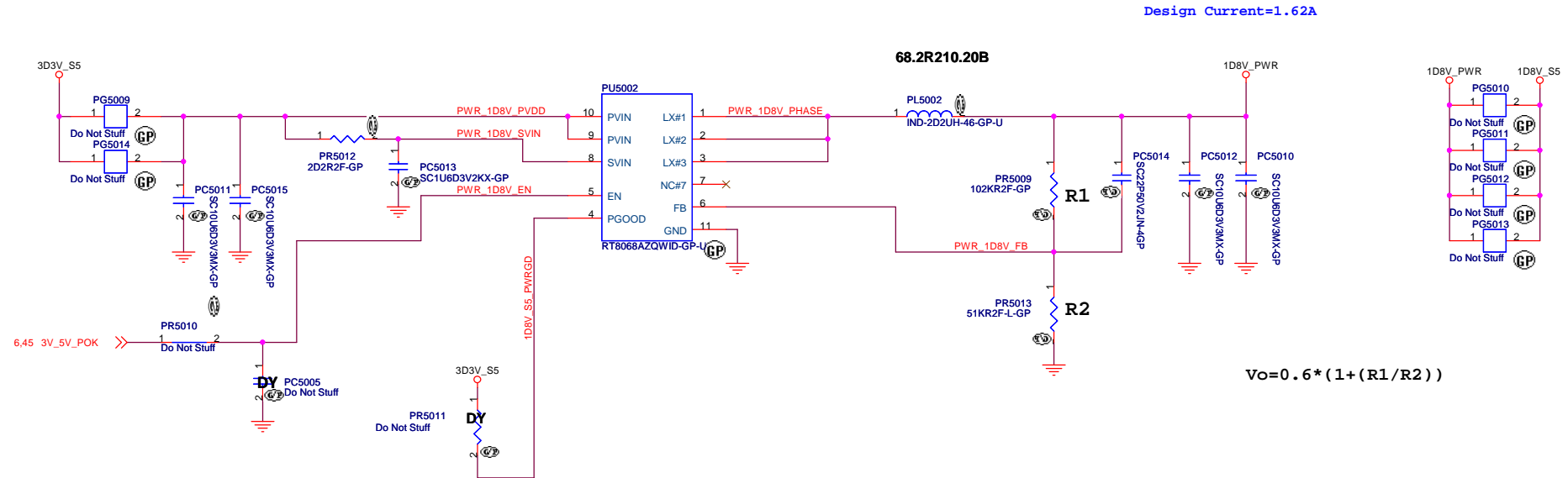
TPS51716 MODE		
PR4608	Frequency	Discharge Mode
33k ohm	500kHz	Non-tracking Discharge
22k ohm	670kHz	
12k ohm	670kHz	Tracking Discharge
1k ohm	500kHz	

I/P cap: 10U 25V K0805 X5R / 78.10622.51L
 Inductor: CHIP IND 0.1UH M PCMC063T-R10MN 1.5~1.7mohm Isat =60Arms 68.R1010.10T
 O/P cap: CHIP CAP C 22U 6.3V M0805 X5R / 78.22610.51L
 H/S:SIS412 / 24mOhm/30mOhm@4.5Vgs / 84.00412.037
 L/S:SIS780 / 14.5mOhm/17.5mOhm@4.5Vgs / 84.00780.037

Cedar UMA 14

SSID = PWR.Plane.Regulator_1p8v

RT8068A for 1D8V_S5



Cedar UMA 14


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Title			RT8068A 1D8V_S5	
Size	Document Number		Rev	
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SSID = PWR.Plane.Regulator_1p5v

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		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
TLV70215_1D5			
Size	Document Number		Rev
A3	Cedar AMD BEEMA		A00
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Cedar UMA 14

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Title

(Reserved)

Size

A3

Document Number

Cedar AMD BEEMA

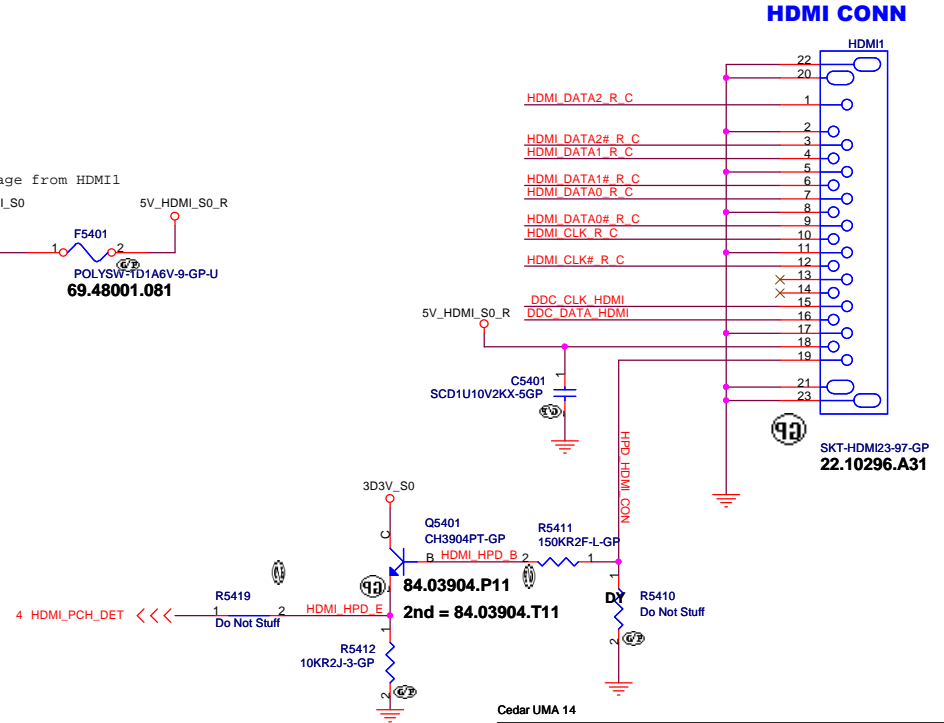
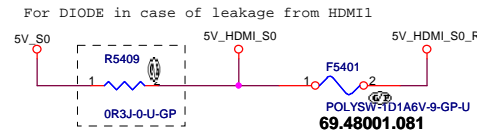
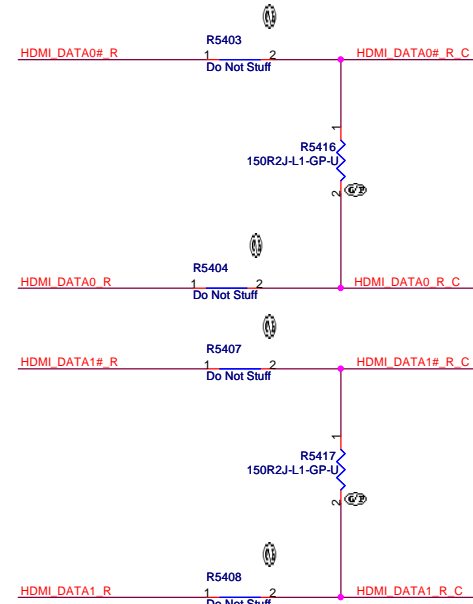
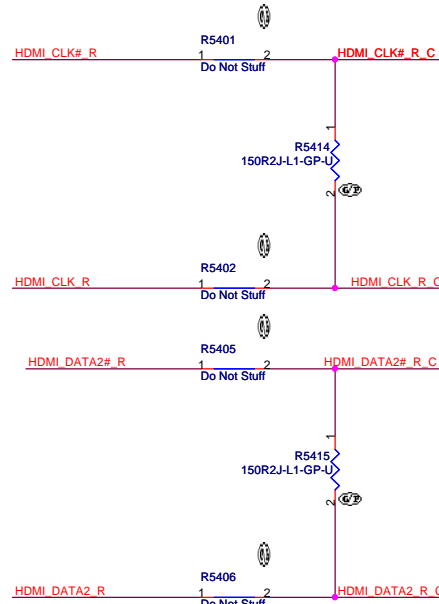
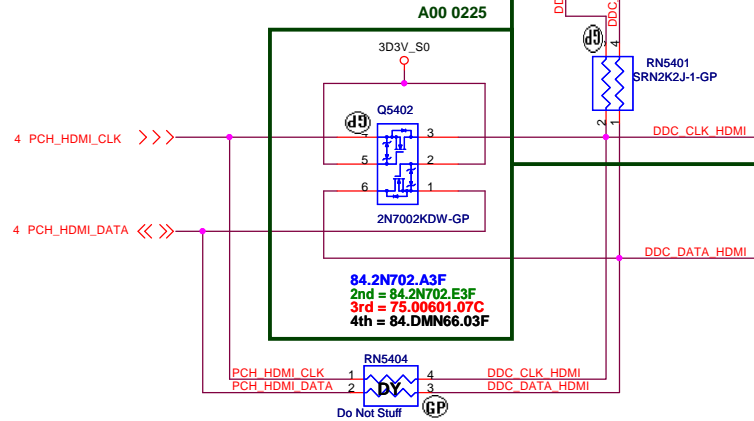
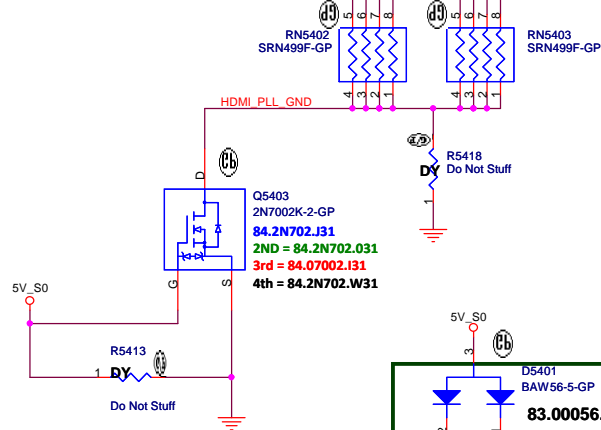
Date: Wednesday, March 05, 2014

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Rev

A00

SSID = VIDEO



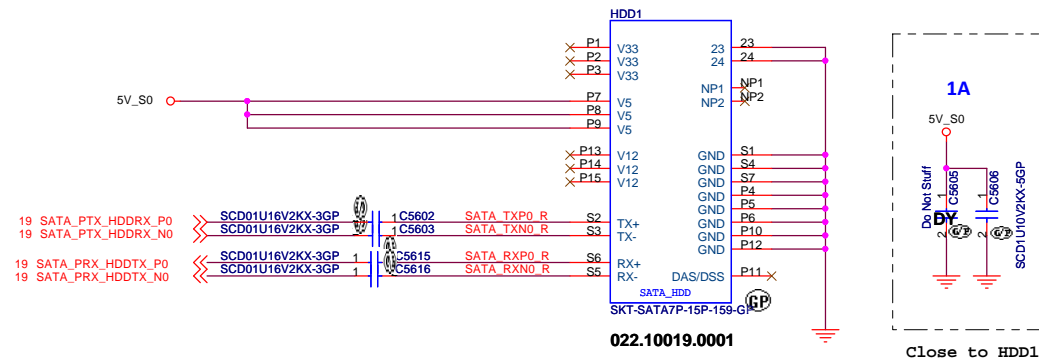
(Blanking)

Cedar UMA 14

<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>	
<div>Title</div> <div>VGA Con.(Reserve)</div>			
<div>Size</div> <div>A3</div>	<div>Document Number</div> <div>Cedar AMD BEEMA</div>		<div>Rev</div> <div>A00</div>
<div>Date: Wednesday, March 06, 2014</div>		<div>Sheet</div> <div>55</div>	<div>of</div> <div>104</div>

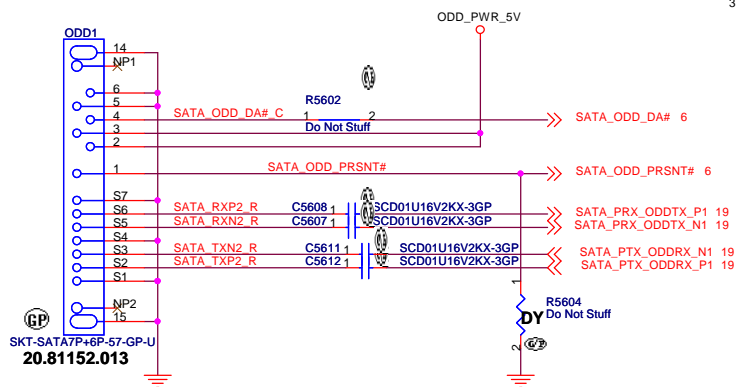
SSID = SATA

SATA HDD Connector

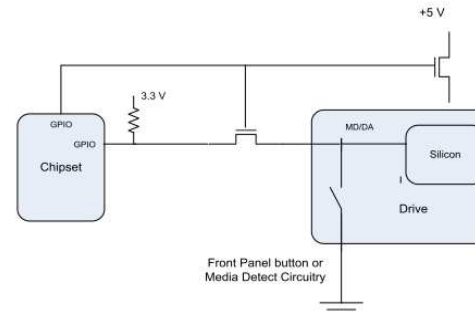
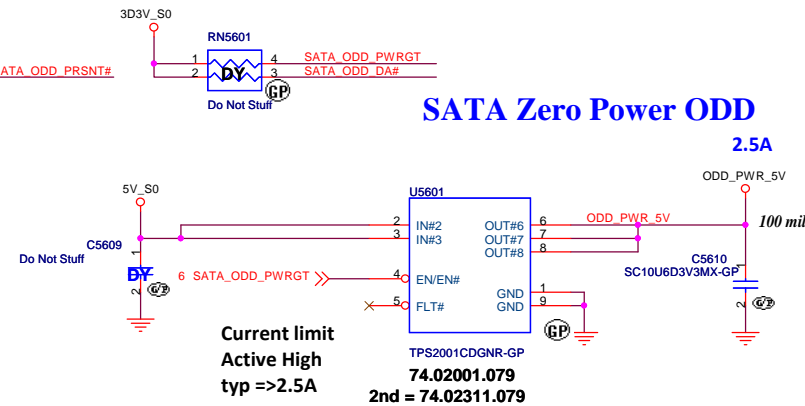


ME Note: New HDD conn symbol is not ready,
we will use original OAK HDD conn (22.10300.991) and shift to the correct position.

ODD Connector



SATA Zero Power ODD



Cedar UMA 14

緯創資通 Wistron Corporation
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Taipei Hsien 221, Taiwan, R.O.C.

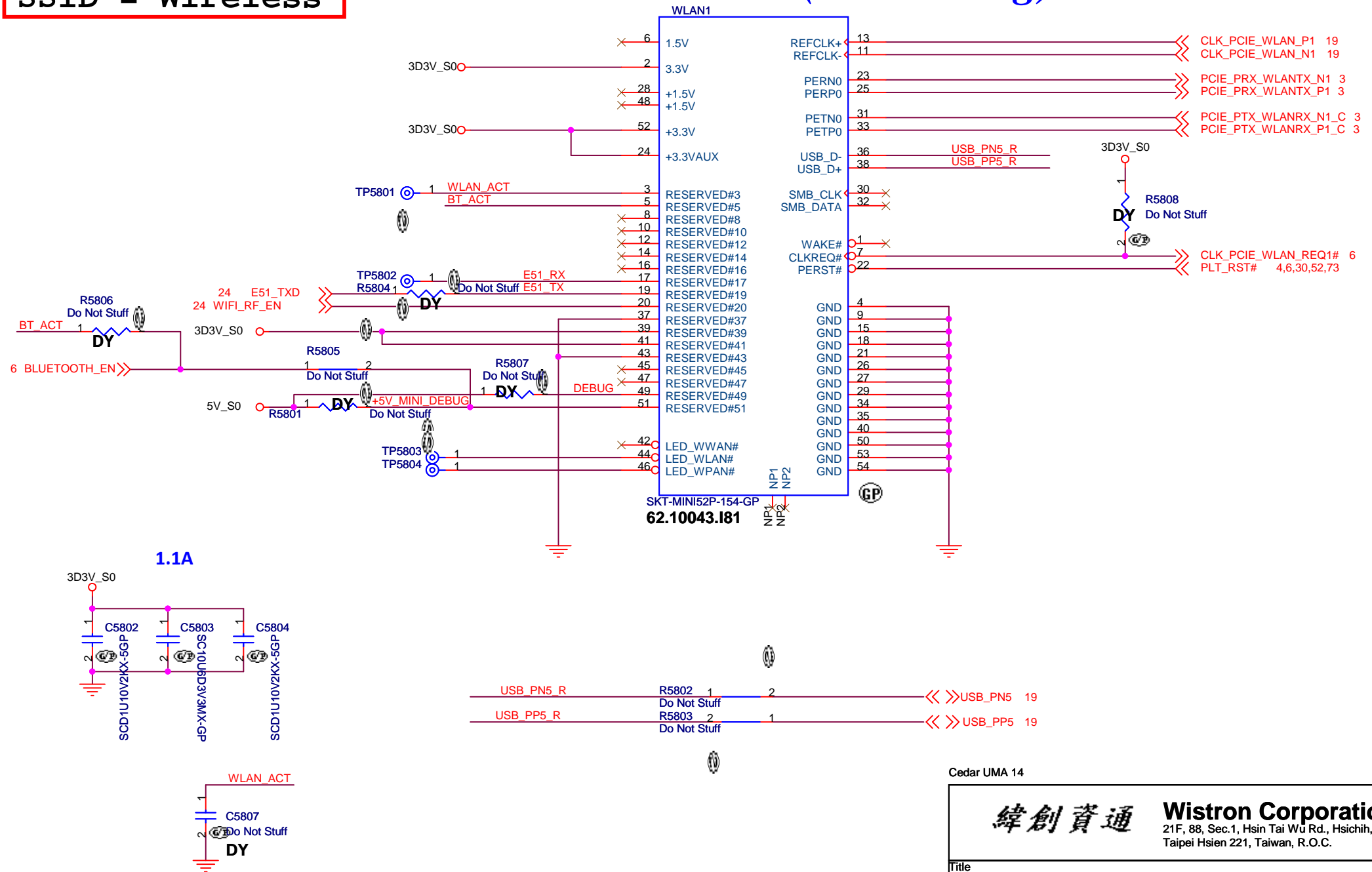
Title			
HDD/ODD			
Size A3	Document Number Cedar AMD BEEMA	Rev A00	
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SSID = ESATA

(Blanking)

SSID = Wireless

Mini Card Connector(802.11a/b/g)



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Title

WLAN CONN

Size	A4
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Document Number

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Rev
A00

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104

A

B

C

D

E

4

4

3

3

2

2

1

1

(Blanking)

Cedar UMA 14

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Title		
Reserved		
Size	Document Number	Rev
A4	Cedar AMD BEEMA	A00
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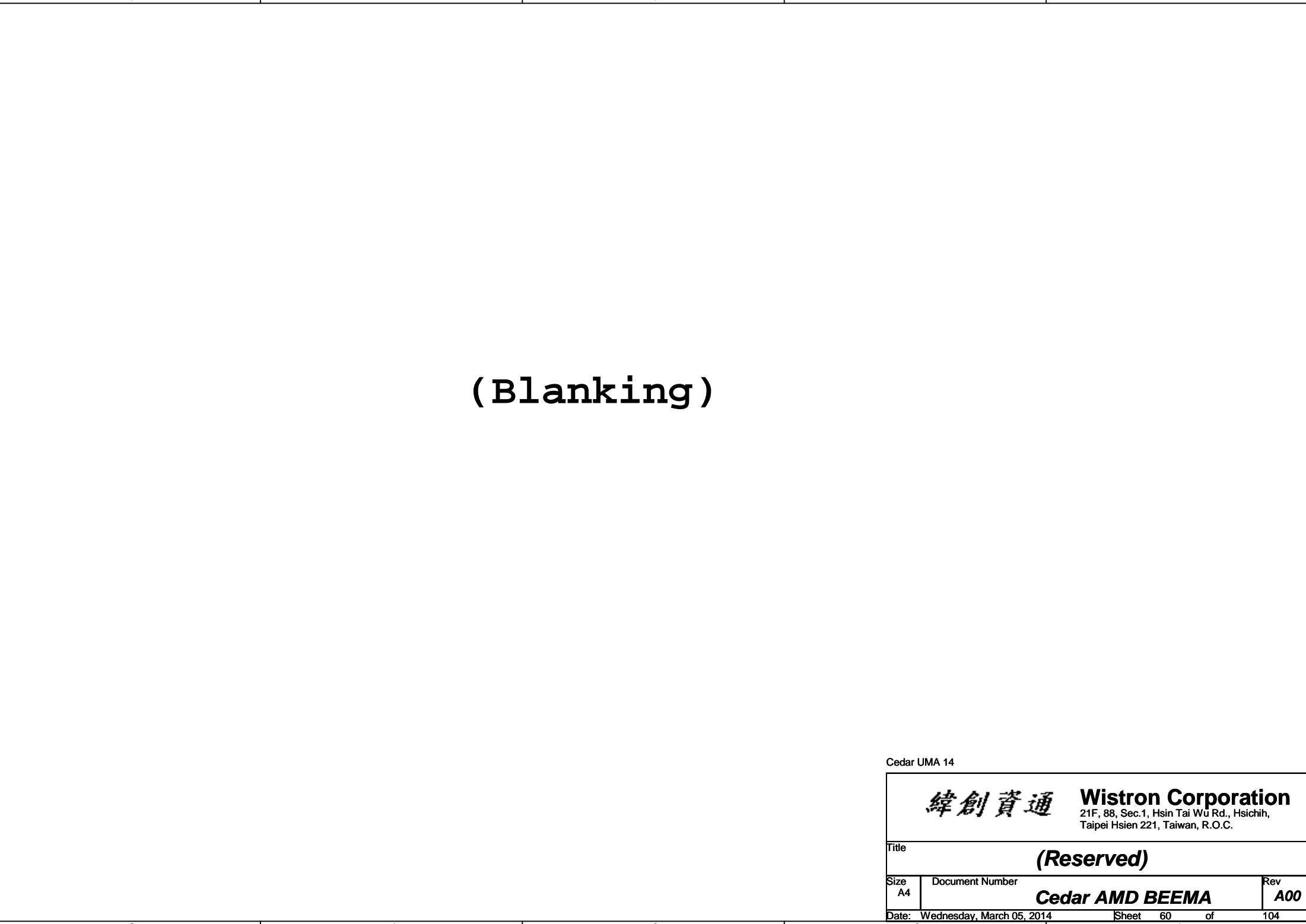
A

B

C

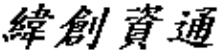
D

E



(Blanking)

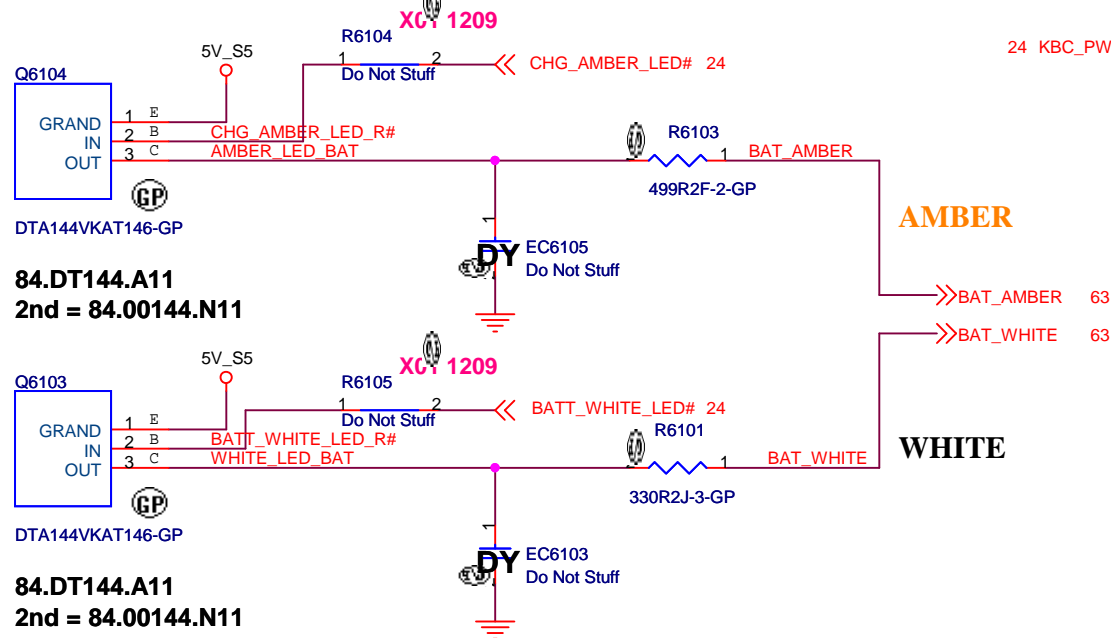
Cedar UMA 14

		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title (Reserved)			
Size A4	Document Number Cedar AMD BEEMA		Rev A00
Date: Wednesday, March 05, 2014		Sheet 60 of	104

SSID = User.Interface

Battery LED1 (AMBER_LED)

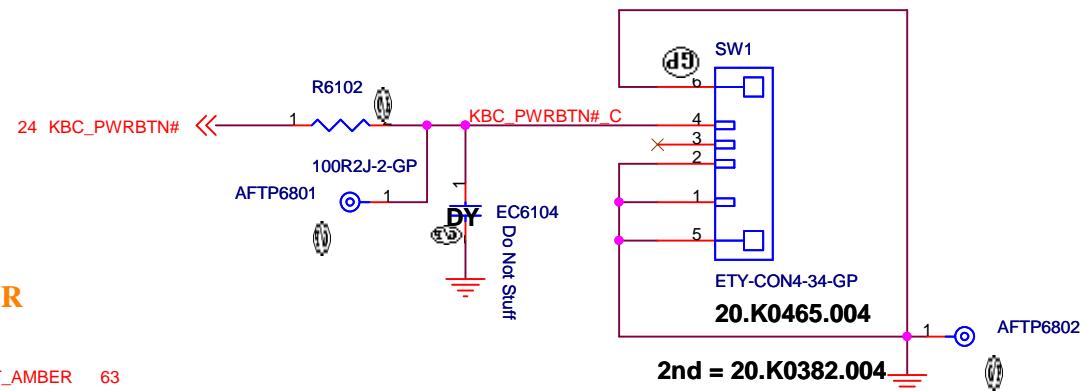
Low activated from KBC GPIO



Battery LED2 (WHITE_LED)

Low activated from KBC GPIO

Power button



Cedar UMA 14

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Title

LED Bard/Power Button

Size
A4

Document Number

Cedar AMD BEEMA

Rev

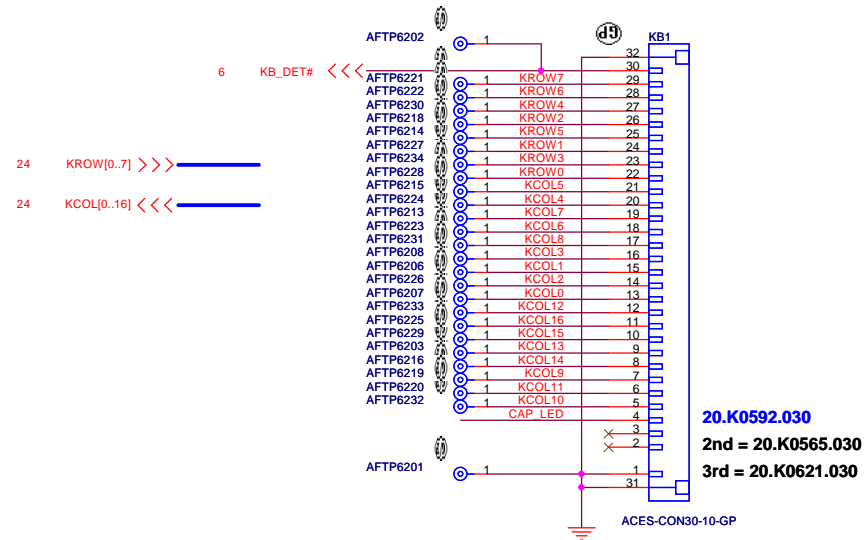
A00

Date: Wednesday, March 05, 2014

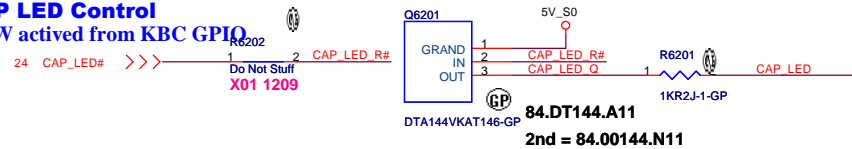
Sheet 61 of 104

SSID = KBC

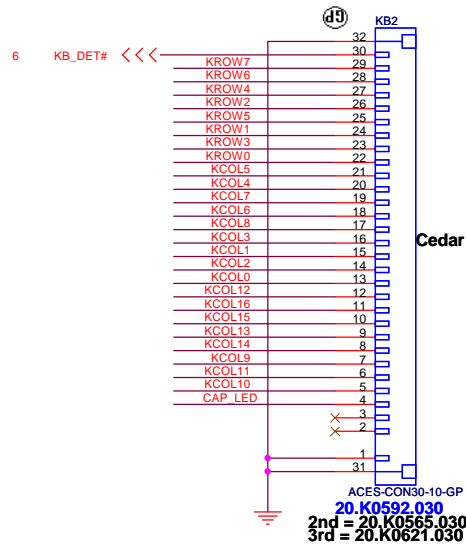
Internal Keyboard Connector (DVC40)



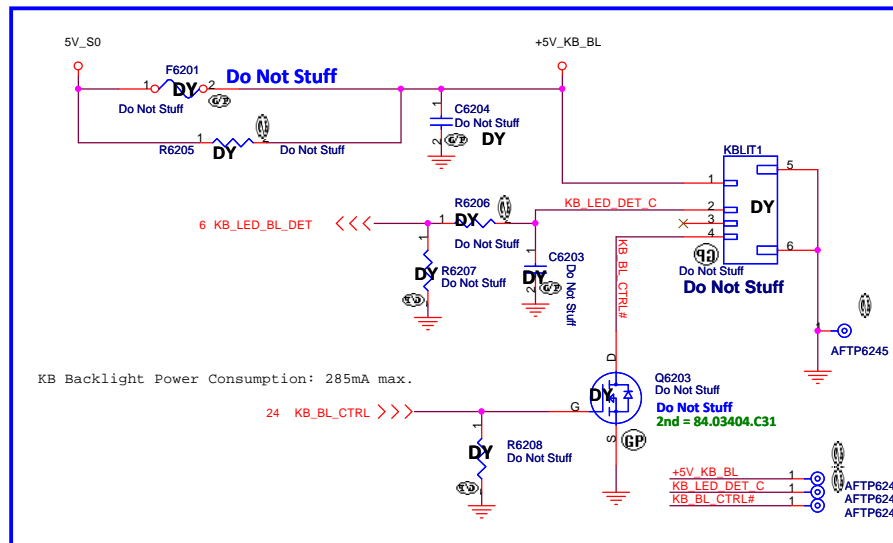
CAP LED Control
LOW actived from KBC GPIO



Internal Keyboard Connector (DVC50)



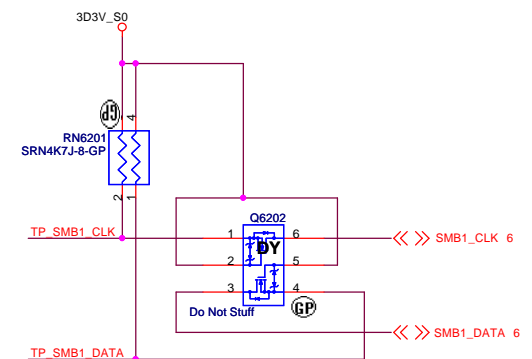
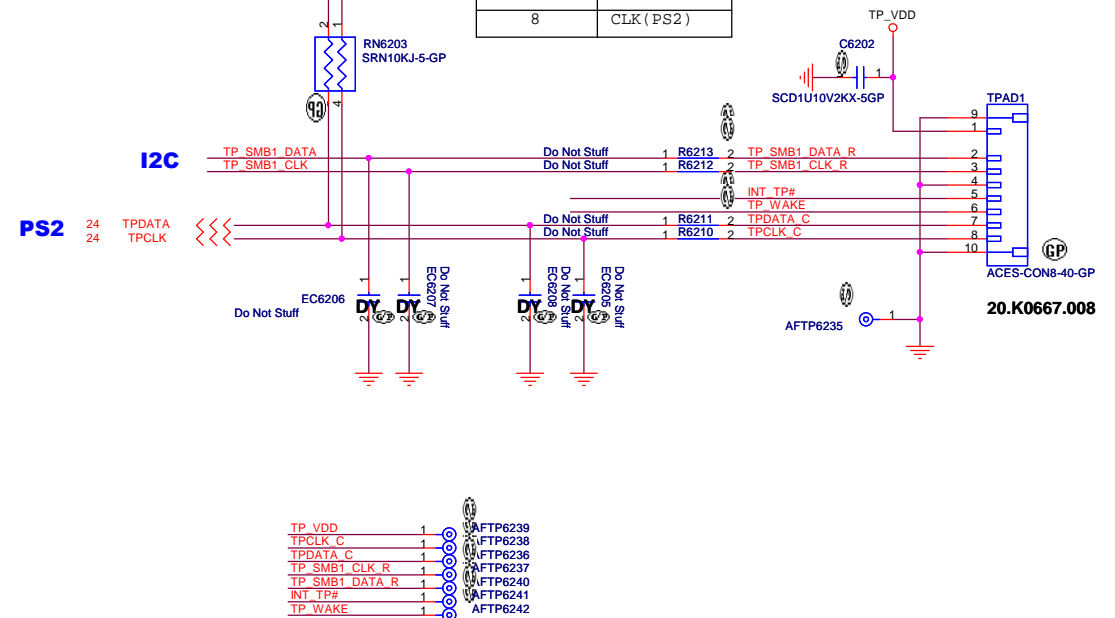
Keyboard Backlight



```
SSID = Touch.Pad
```

Pin number	Pin name
1	VDD
2	DAT(I2C)
3	CLK(I2C)
4	GND
5	ATTN
6	GPIO
7	DAT(PS2)
8	CLK(PS2)

Touch Pad Connector



Cedar UMA 14

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

Title

[illegible]

Size

	Document Number
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100

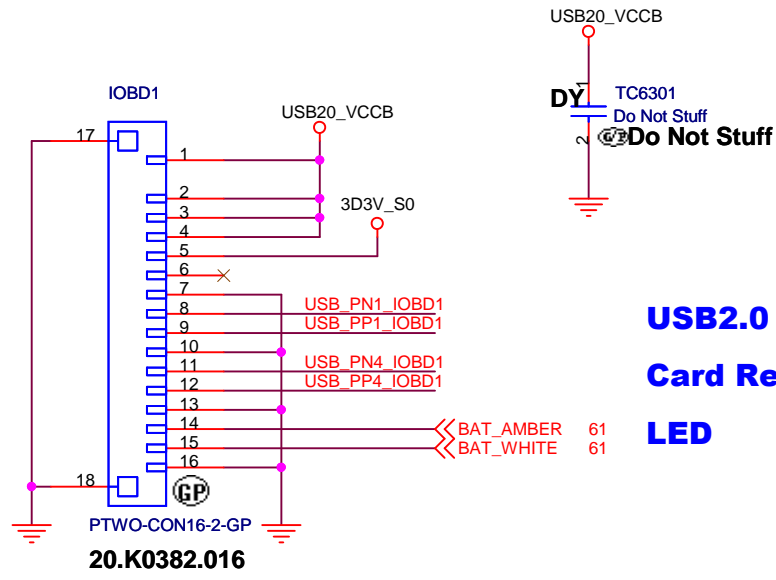
Key Board/Touch Pad

Cedar AMD BEEMA

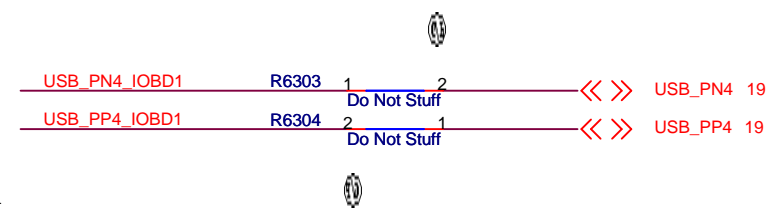
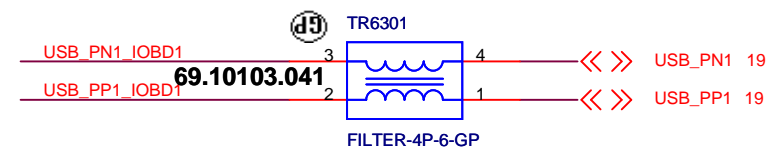
100

Rev	
-----	--

A00



**USB2.0 Port3
Card Reader
LED**

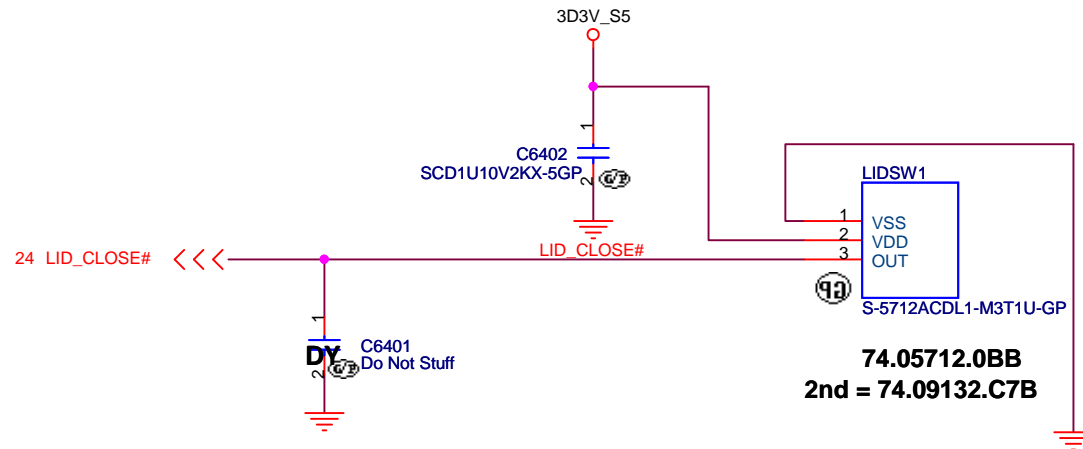


The maximum range of the PMOS output current in RTS5170 (Card Reader IC) is 400mA

Cedar UMA 14

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					
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A4	Cedar AMD BEEMA				A00
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SSID = User.Interface



Cedar UMA 14

緯創資通

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

Title

Hall Sensor

Size
A4

Document Number

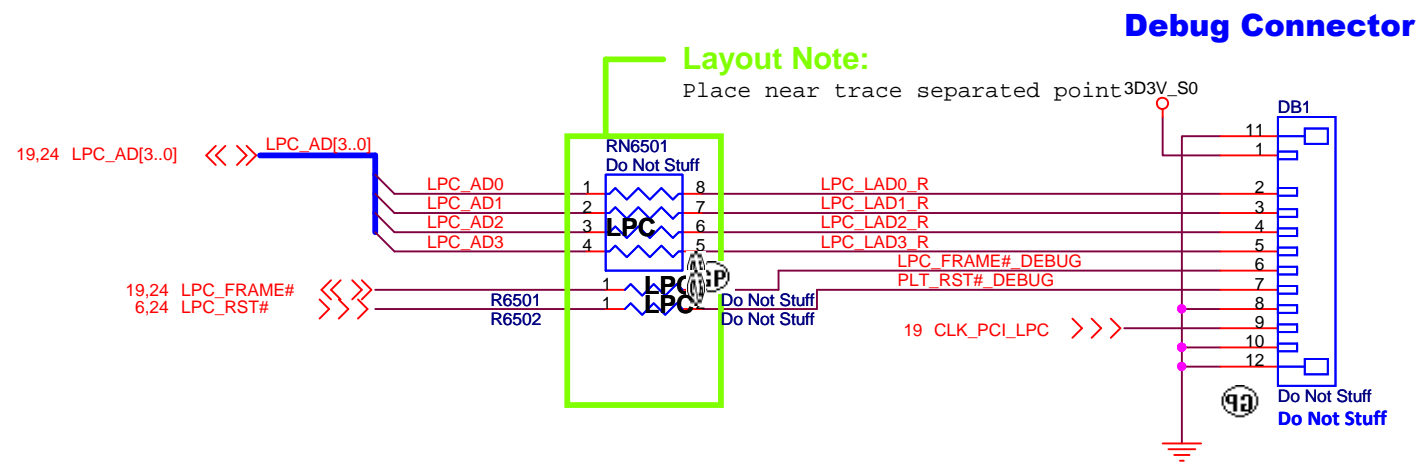
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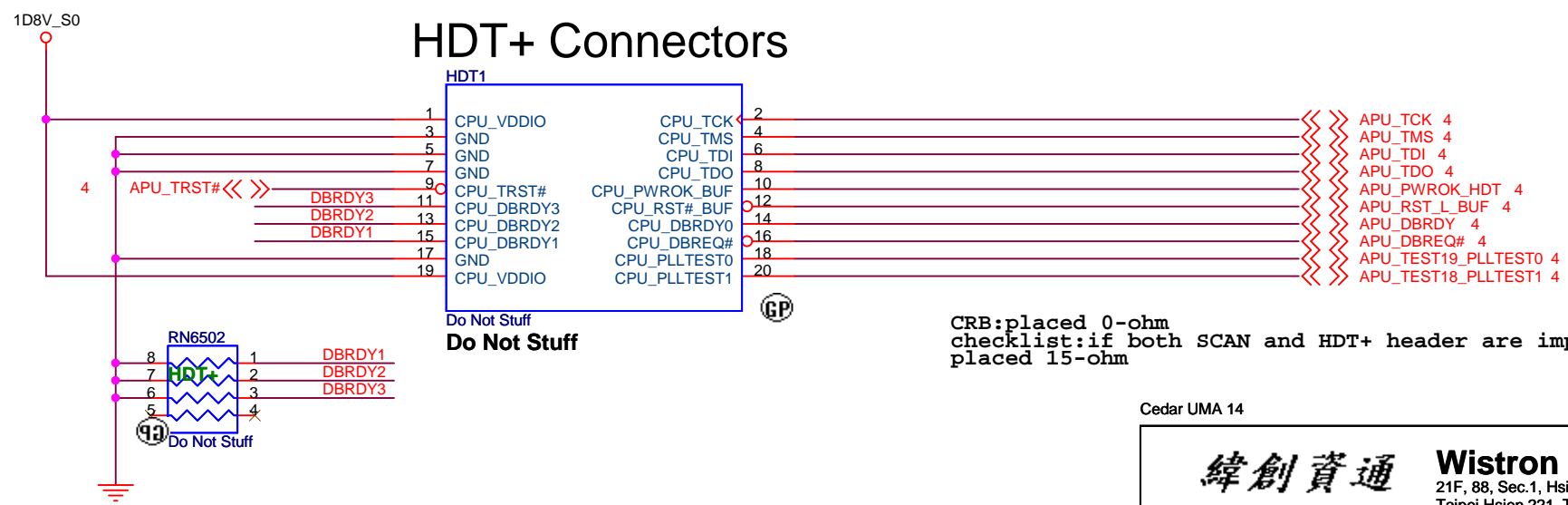
Date: Wednesday, March 05, 2014

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SSID = DEBUG PORT



20.D0075.110: Dummy Pad with solder mask is ZZ.00PAD.Y41
DB1 Optional: New one smaller LPC connector is 20.F1180.010.



CRB:placed 0-ohm
checklist:if both SCAN and HDT+ header are implement
placed 15-ohm

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Title <div>Reserved</div>		
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Document Number
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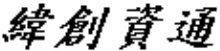
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Title

Thunderbolt (5/5)

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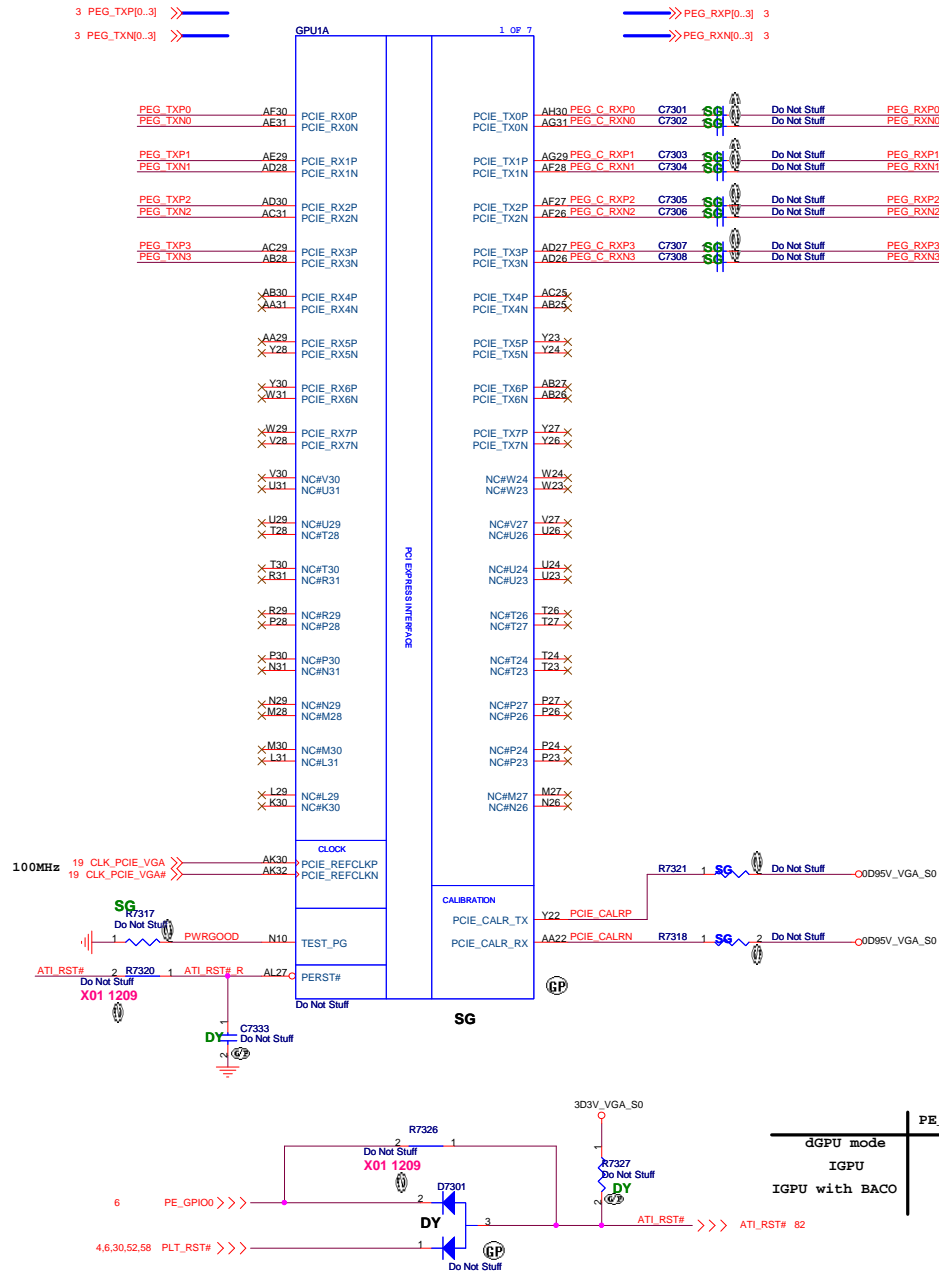
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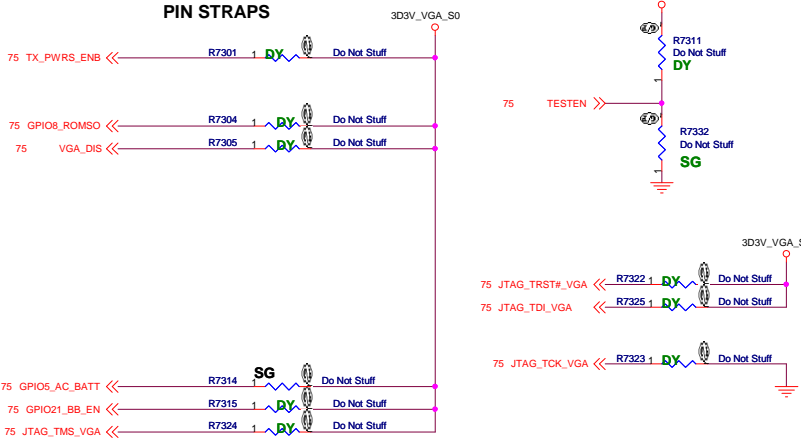
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CONFIGURATION STRAPS			RECOMMENDED SETTINGS	
ALLOW FOR PULLUP PADS FOR THESE STRAPS AND IF THESE GPIOs ARE USED, THEY MUST NOT CONFLICT DURING RESET			0= DO NOT INSTALL RESISTOR 1= INSTALL 3K RESISTOR X = DESIGN DEPENDANT NA = NOT APPLICABLE	
STRAPS	PIN	DESCRIPTION OF DEFAULT SETTINGS	RECOMMEND	PLATFORM SETTING
TX_PWRS_ENB	GPIO0	Transmitter Power Savings Enable 0: 50% Tx output swing 1: Full Tx output swing	X	1
TX_DEEMPH_EN	GPIO1	PCIe TRANSMITTER DE-EMPHASIS ENABLED 0:Tx de-emphasis disabled 1:Tx de-emphasis enabled	X	1
BIF_GEN2_EN_A	GPIO2	0:Advertises the PCIe device as 2.5GT/s capable at power on. 1:Advertises the PCIe device as 5.0GT/s capable at power on.	0	0
GPIO5_AC_BATT	GPIO5	optional input allow the system to request a fast power reduction by setting GPIO5 to low.	?	0
RESERVED	GPIO8	RESERVED	0	0
VGA_DIS	GPIO9	0:VGA Controller capacity enabled 1:The device won't be recognized as the system's VGA controller	0	0
ROMIDCFG[2:0]	GPIO[13:11]	BIOS_ROM_EN=1, Config[2:0] defines the ROM type BIOS_ROM_EN=0, Config[2:0] defines the primary memory aperture size	X X X	0 0 1 (256MB)
RESERVED	GPIO21	RESERVED	0	0
BIOS_ROM_EN	GPIO_22_ROMCSB	0:Disable external BIOS ROM device 1:Enable external BIOS ROM device	X	0
VIP_DEVICE_STRAP_EN	V2SYNC	VIP Device Strap Enable indicates to the software driver that it sense whether or not a VIP device is connected on the VIP Host interface.	X	0
RSVD	H2SYNC	RESERVED	0	0
RSVD	GENERICC	RESERVED	0	0
AUD[1]	HSYNC	AUD[1:0]:11-Audio for both DisplayPort and HDMI	X	1
AUD[0]	VSXNC		X	1

PIN STRAPS



JTAG SIGNAL OPTION

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

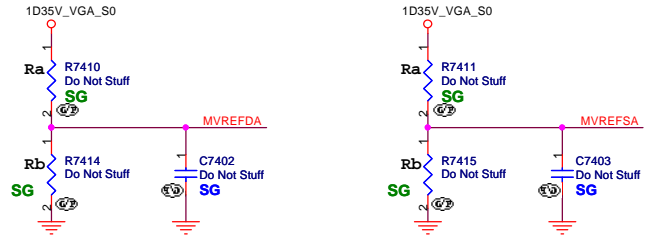
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Title GPU PCIe/STRAPPING

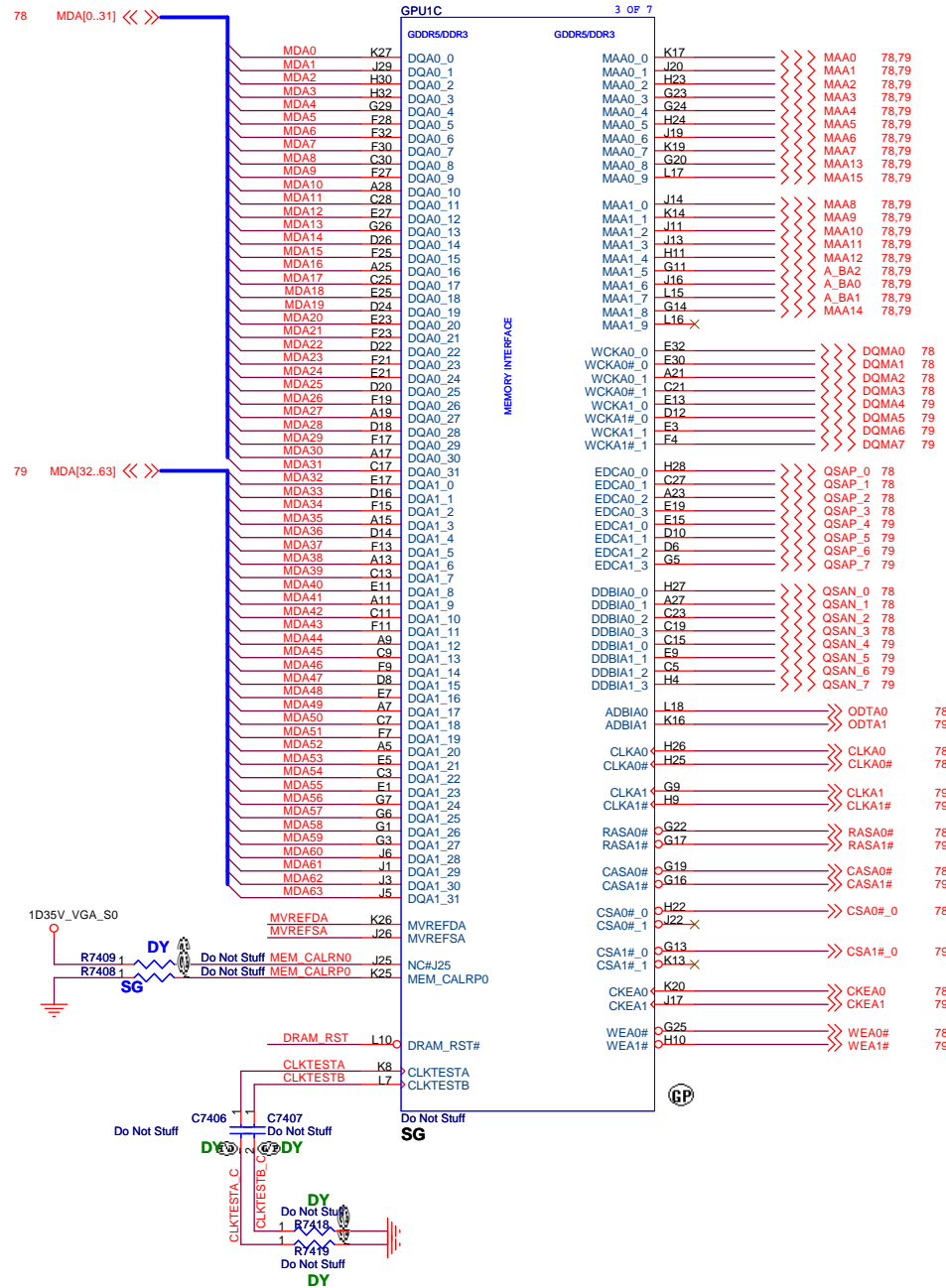
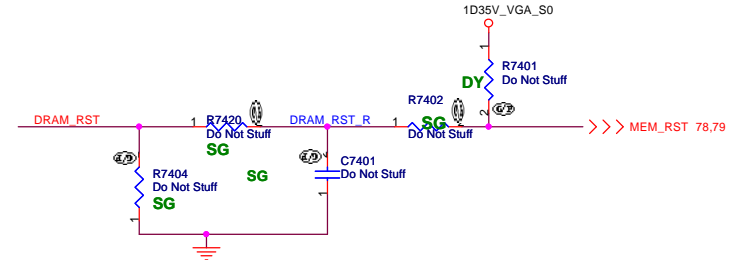
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PLACE MVREF DIVIDERS AND CAPS CLOSE TO ASIC



DDR3/GDDR3 Memory Stuff Option(Mad/Park)

	GDDR5	GDDR3	DDR3
MVDDQ	1.5V	1.8V/1.5V	1.35V
Ra	40.2R	40.2R	40.2R
Rb	100R	100R	100R

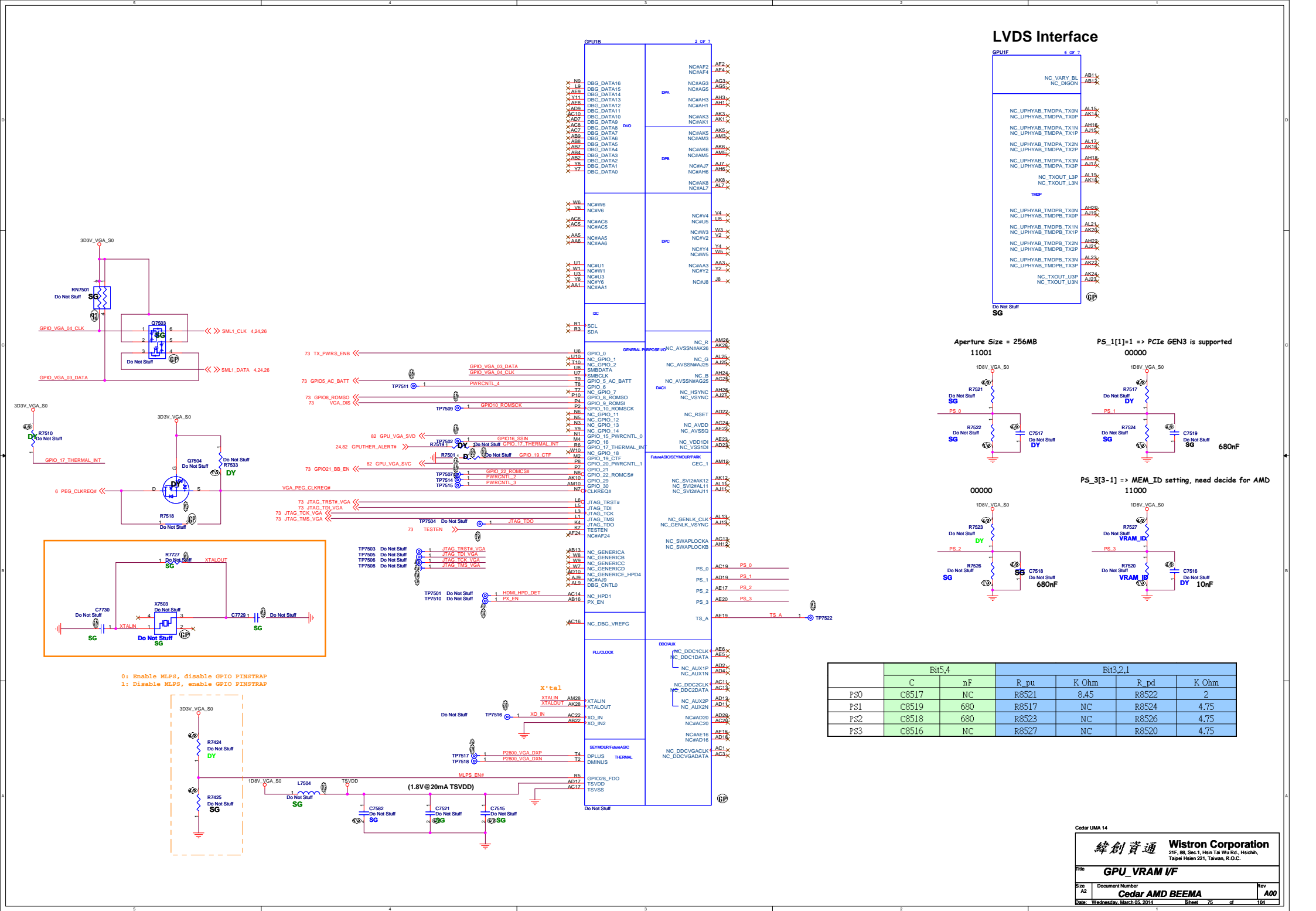


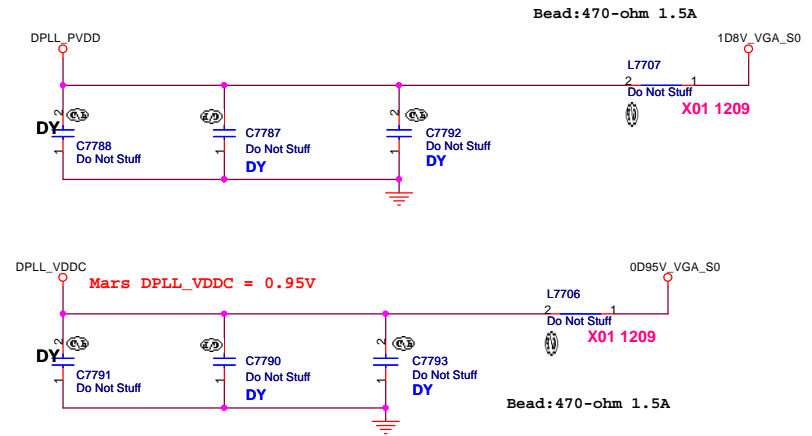
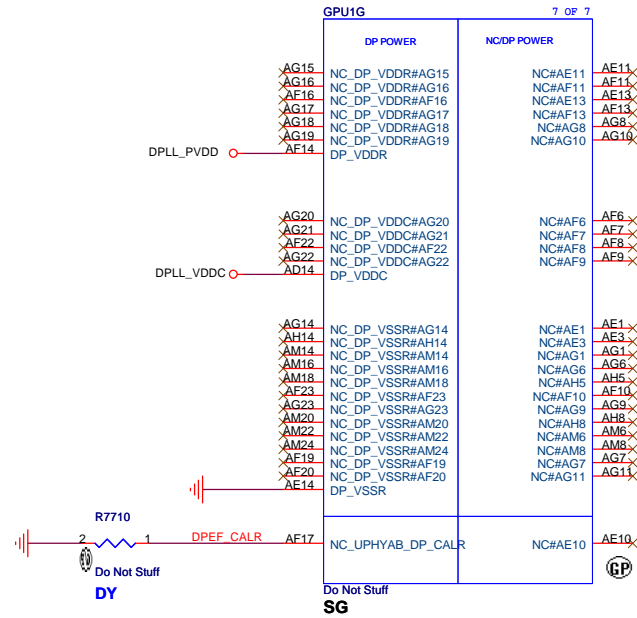
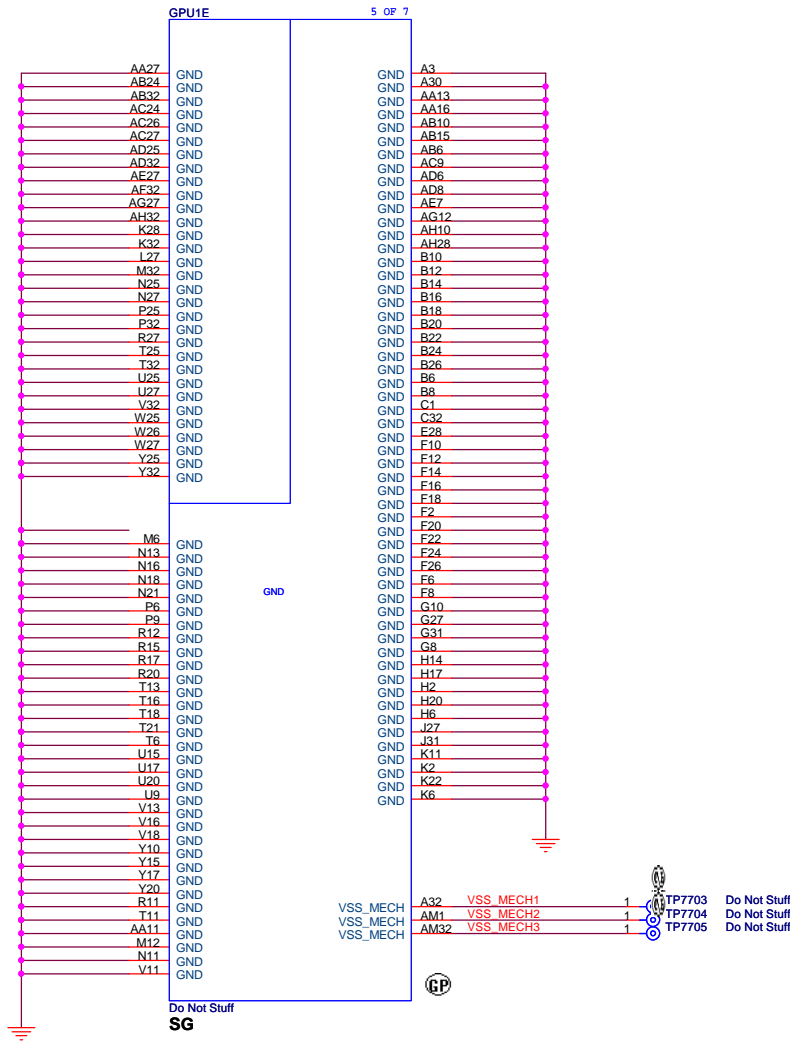
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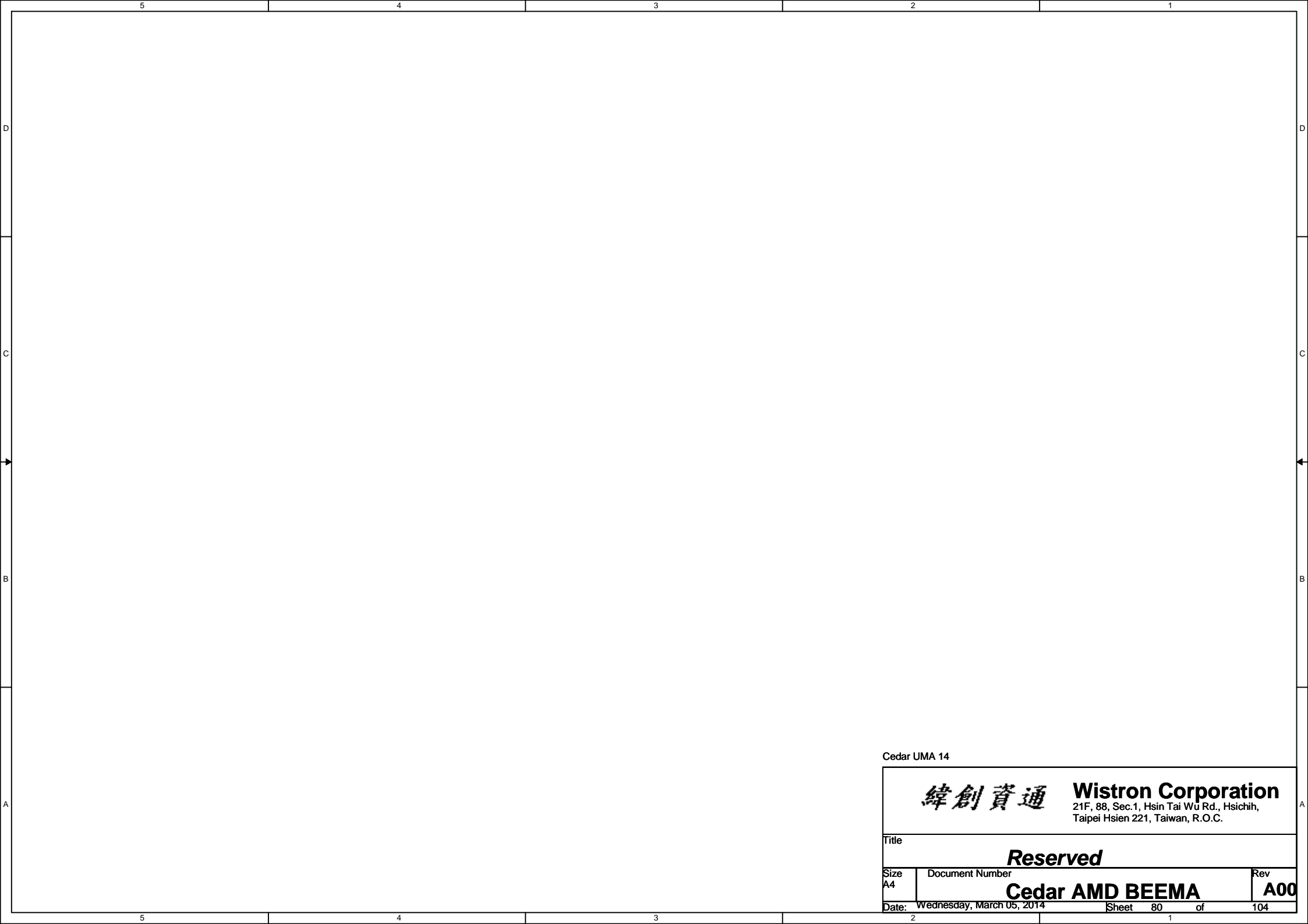
Title **GPU_Digitalout**

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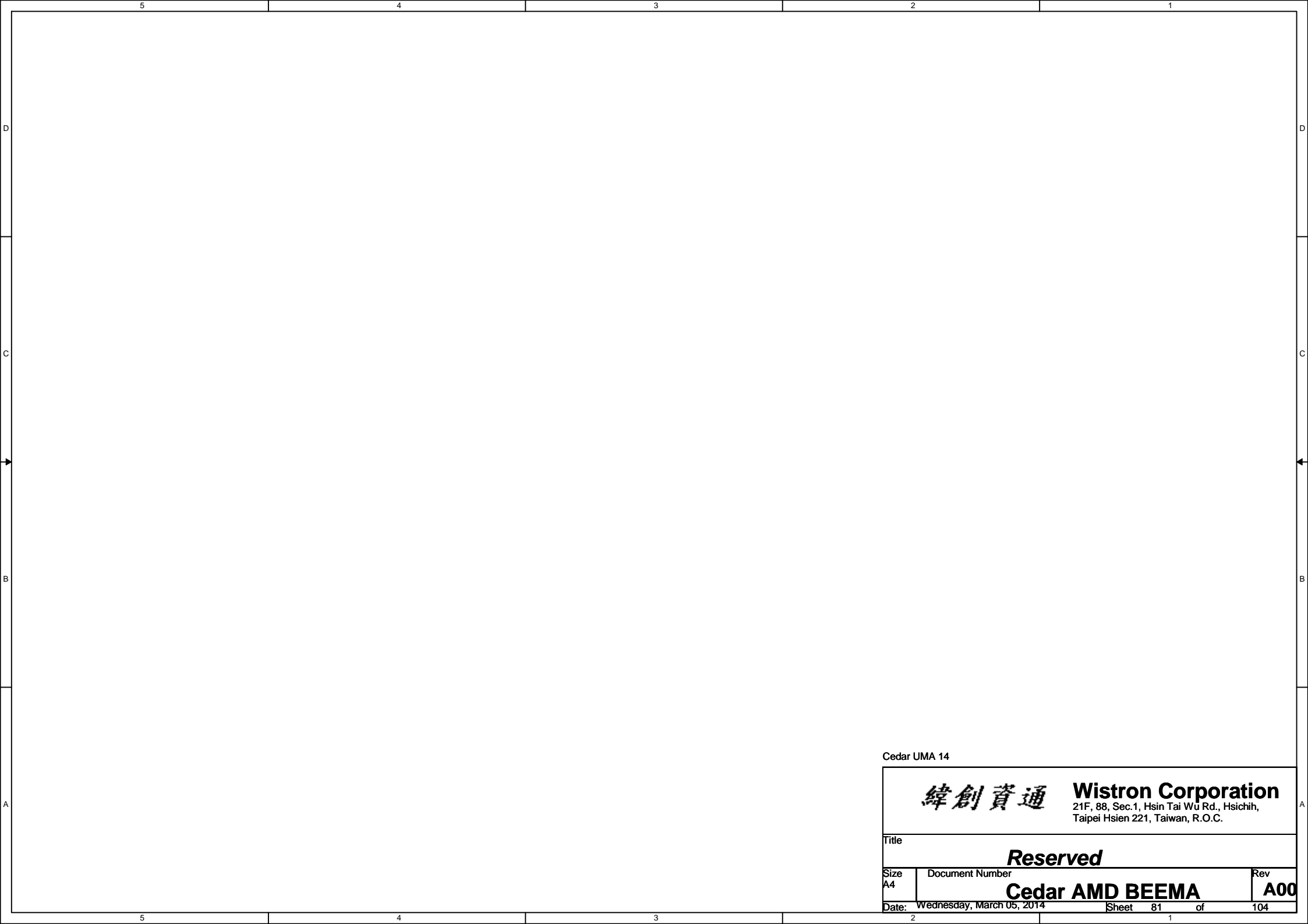
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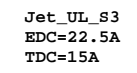
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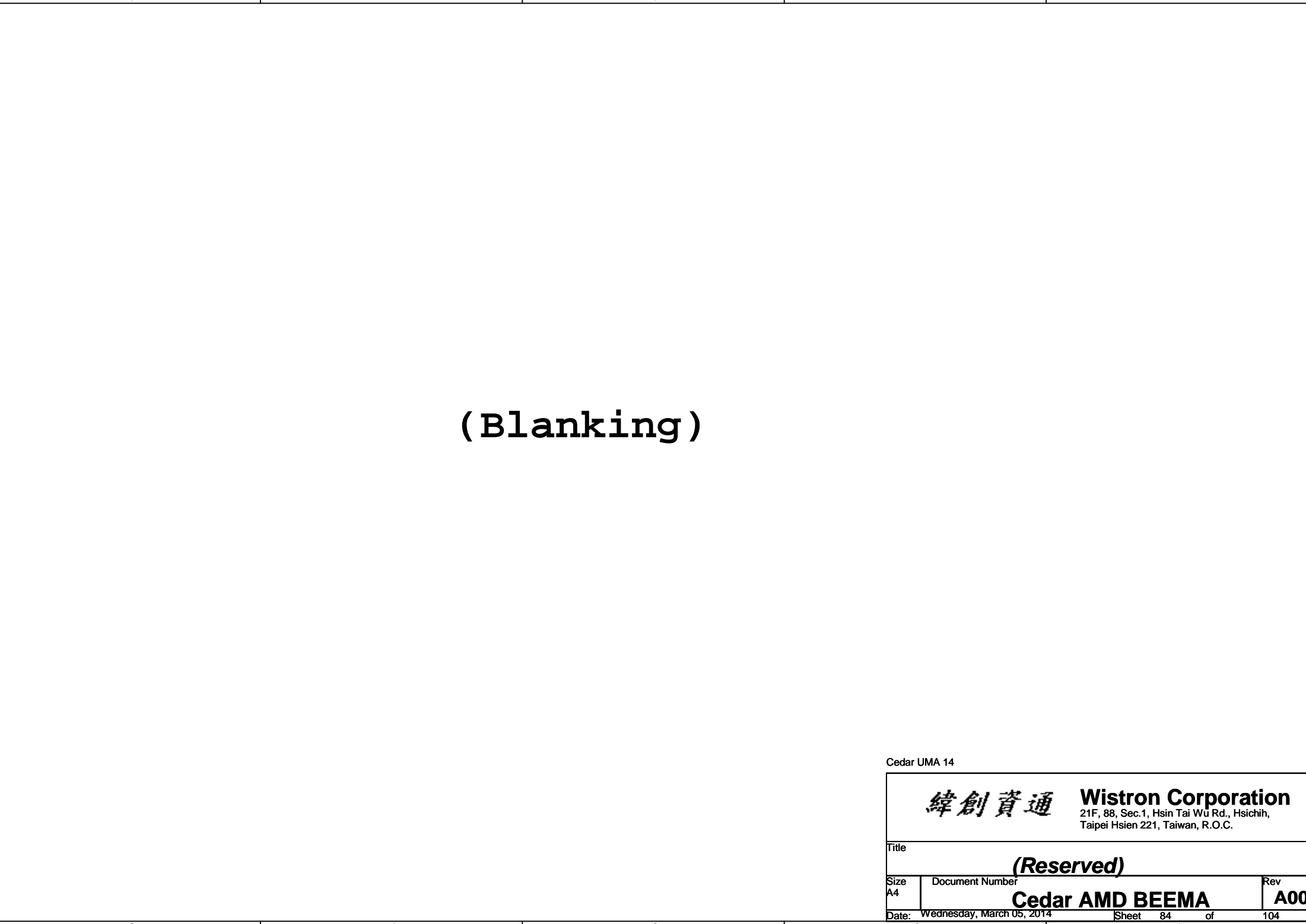
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SVD	SVC	Output Voltage
0	0	1.1
1	0	1.0
0	1	0.9
1	1	0.8

I/P cap: CHIP CAP C 0.0U 25V K0805 X5R/.78,10622.51L
 Inductor: CHIP CHOKE 0.36UH PSMC1402T-R36MS1407 1.4mohm / Isat =24Arms 68.R3610.20W
 C/P cap:CHIP CAP 470UF 2V EEF5304D741X /Panasonic/ 60mohm / 79.47719.2BL
 CHIP CAP EL 330U 2V 56.M3*4.4 3.5Arms Chemi-con/79.3371V.6CL
 FET MOS /H/S: S1RA146D /6.8mohm/8.5mohm / 2.95mohm/3.5mohm@4.5Vgs / 84.A146D.037
 L/S: S1RA16DP /6.8mohm/8.5mohm / 2.75mohm/3.5mohm@4.5Vgs / 84.SRA06.037



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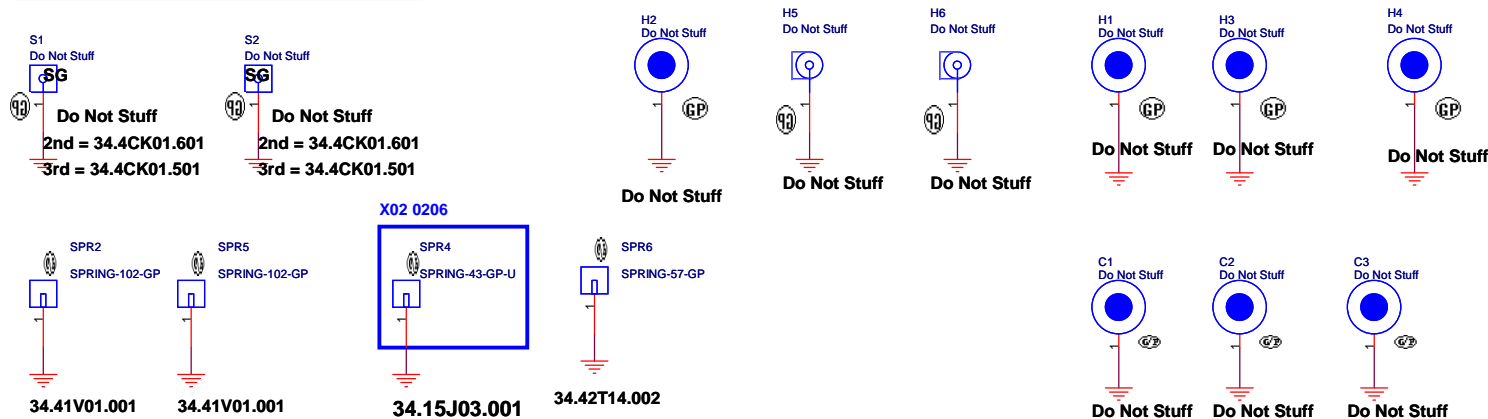
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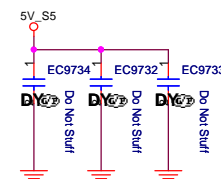
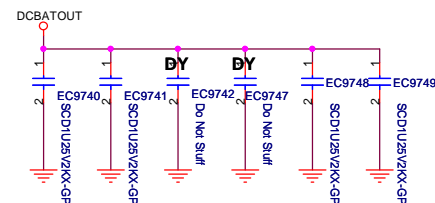
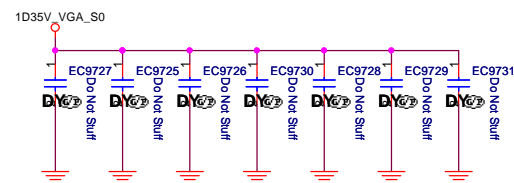
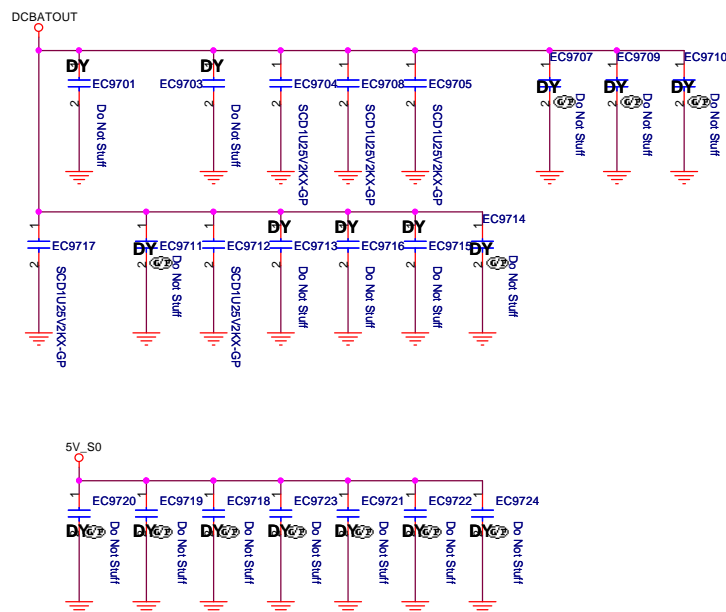
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SSID = Mechanical



SSID = EMI



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Title		
UNUSED PARTS/EMI Capacitors		
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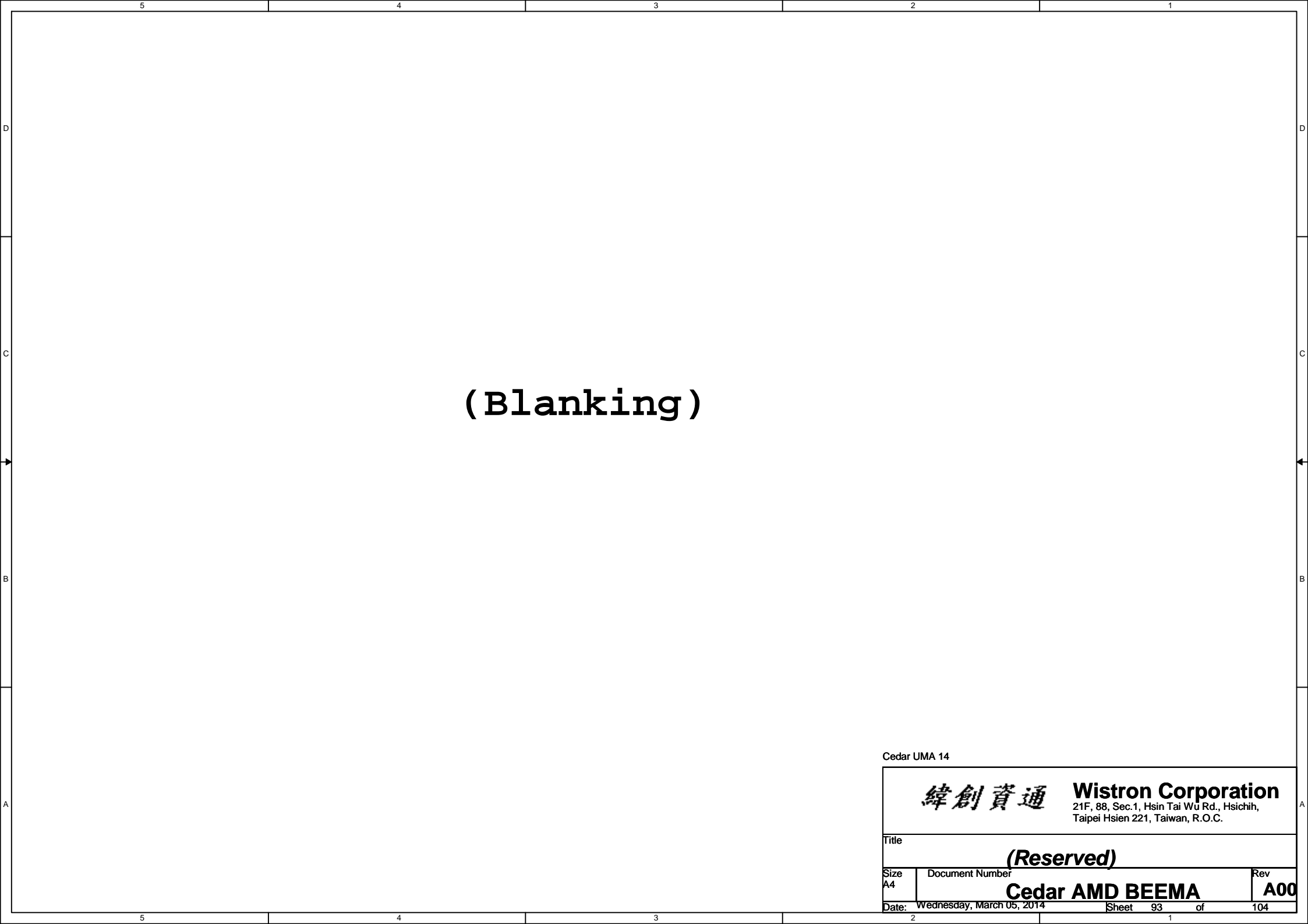
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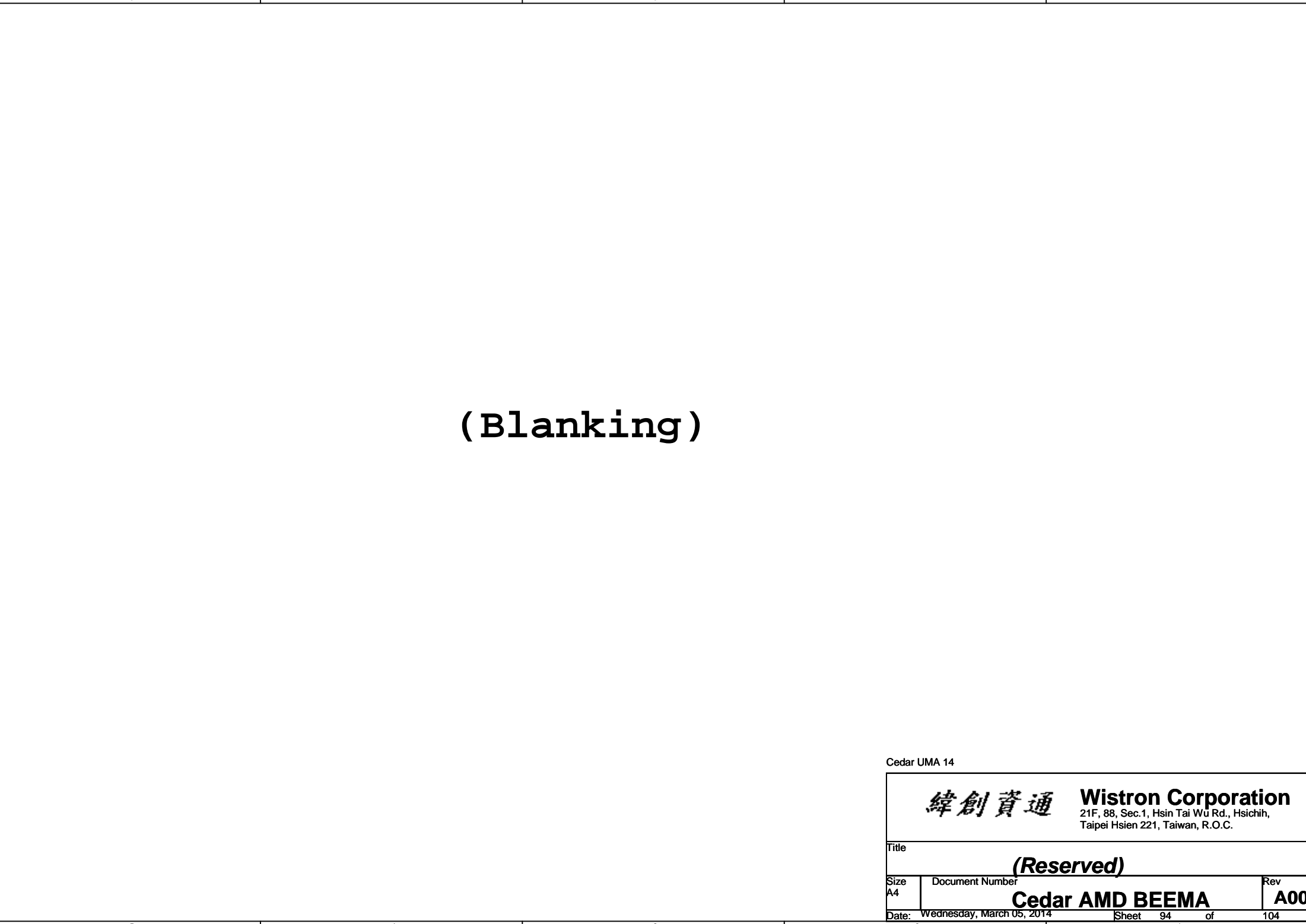
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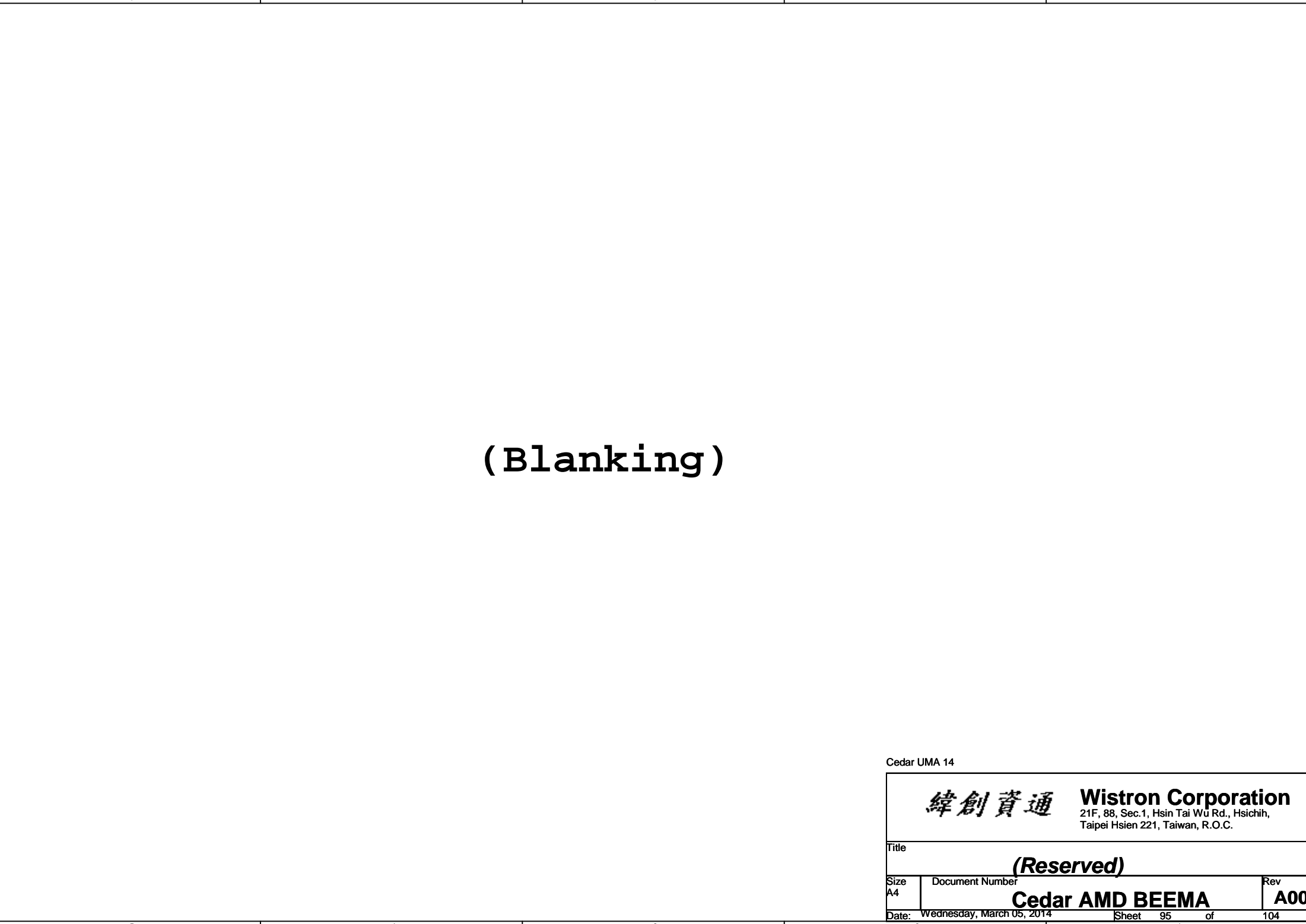
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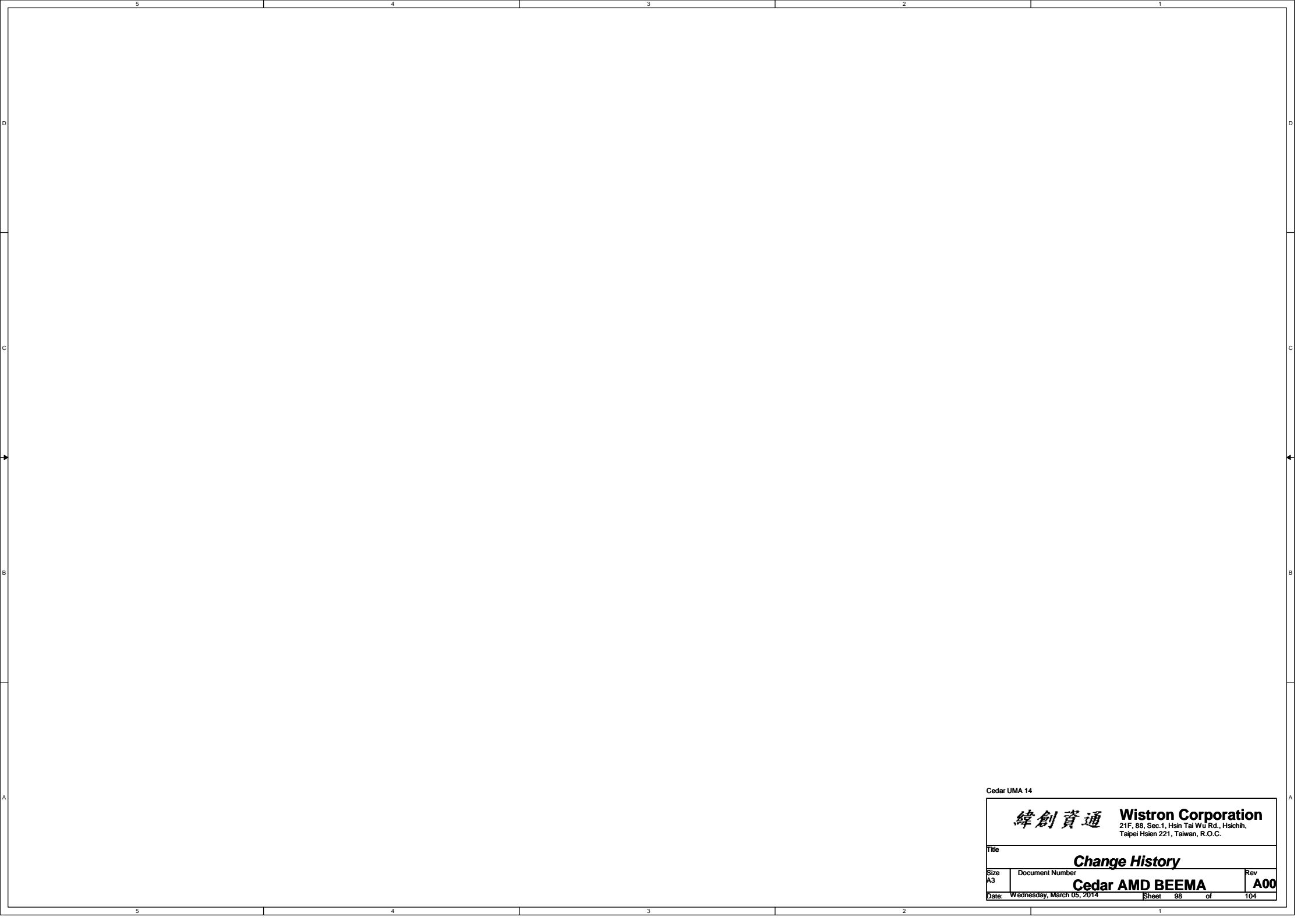
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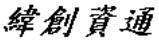
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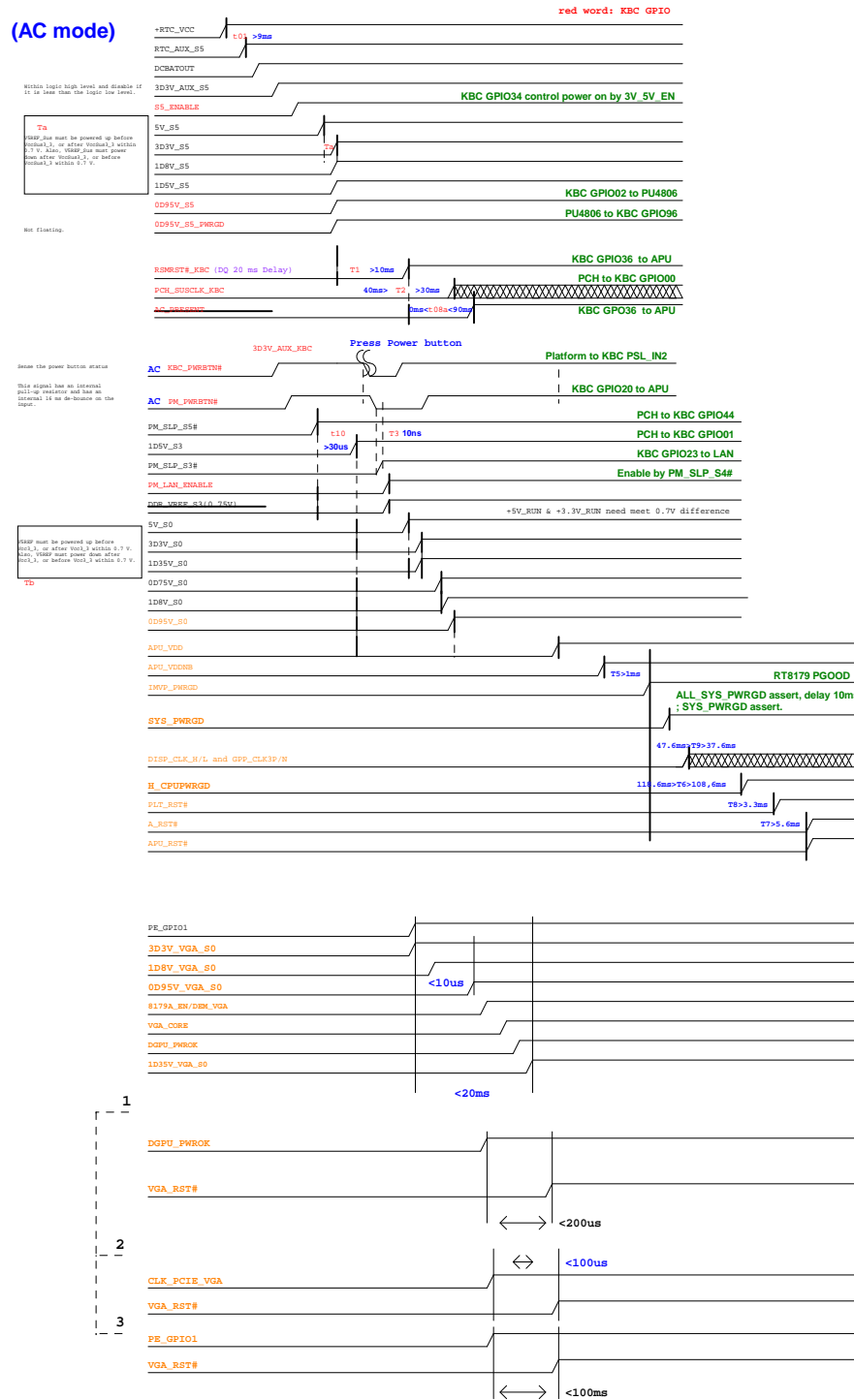


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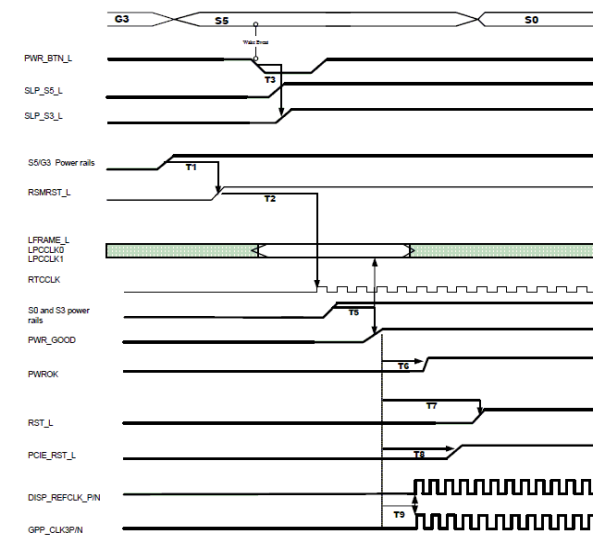
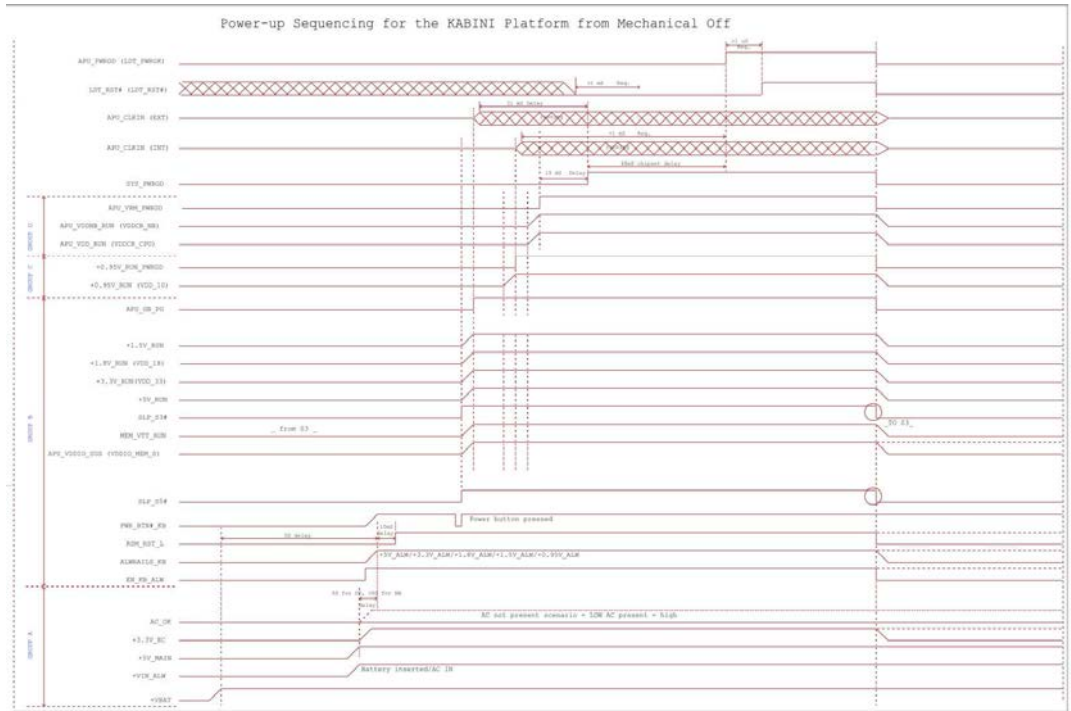
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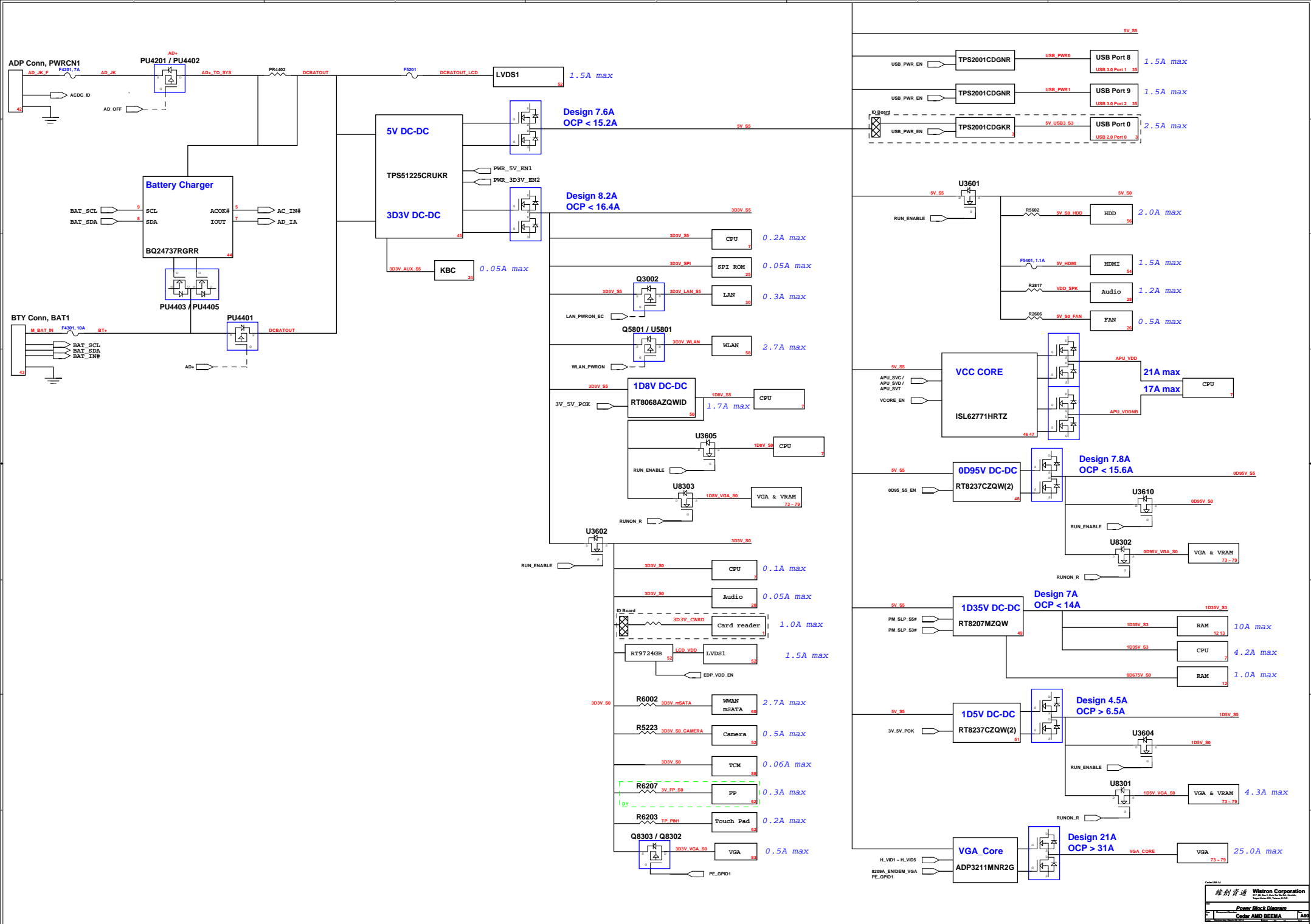
Beema Platform Power Sequence

(AC mode)

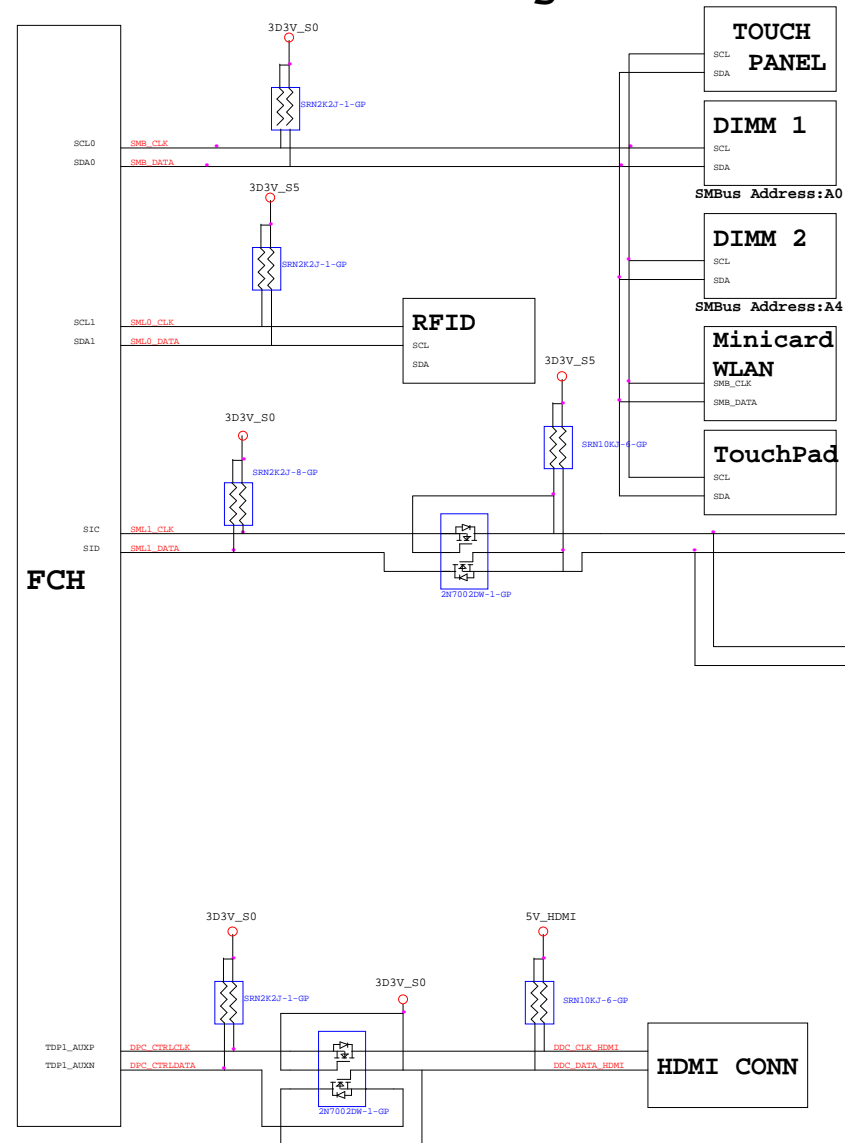


Power-up Sequencing for the KABINI Platform from Mechanical Off

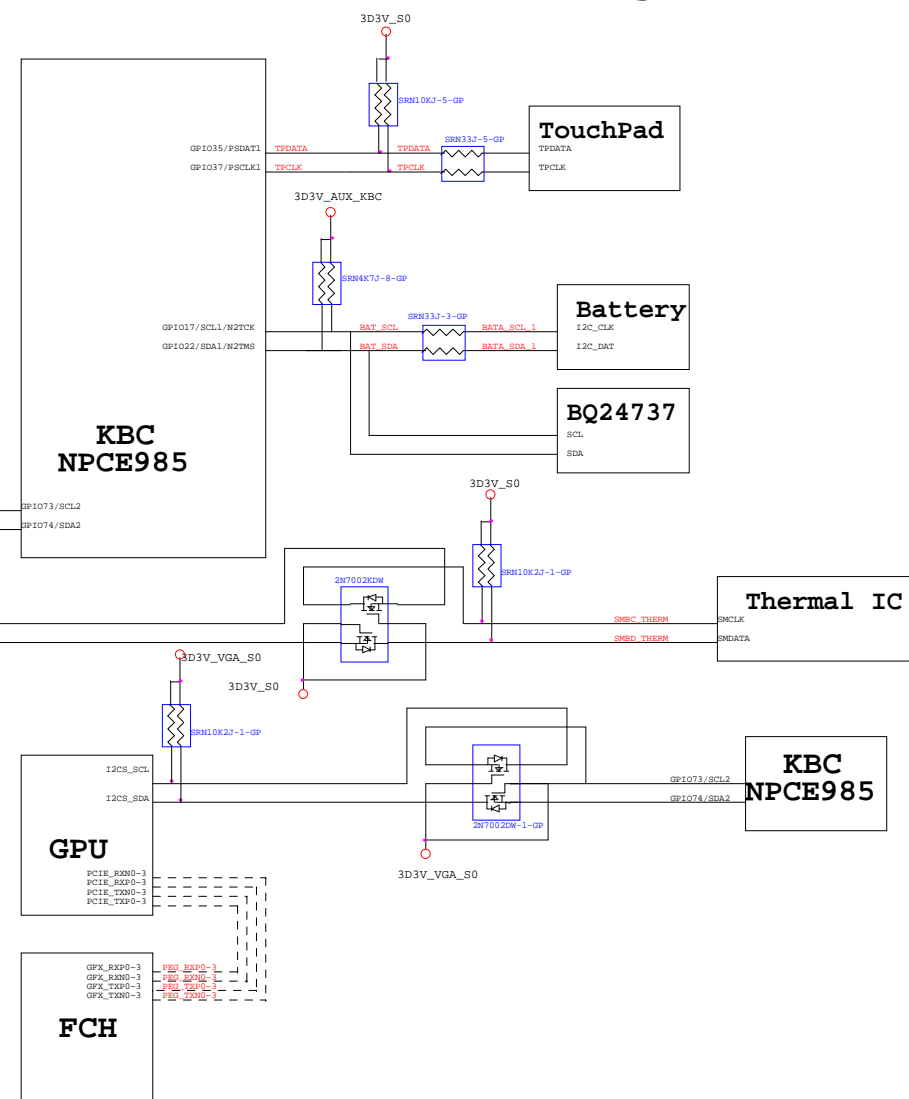




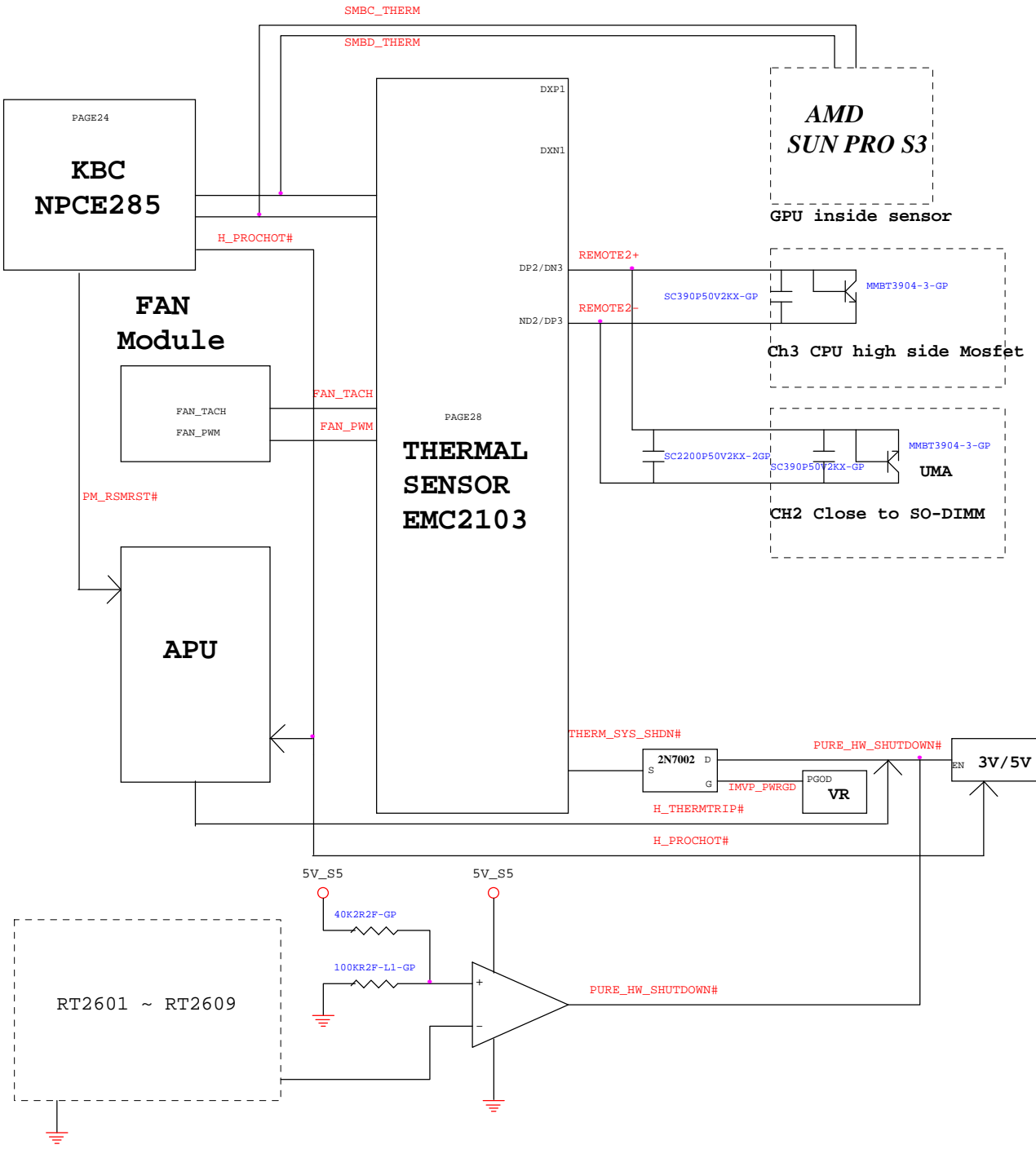
PCH SMBus Block Diagram



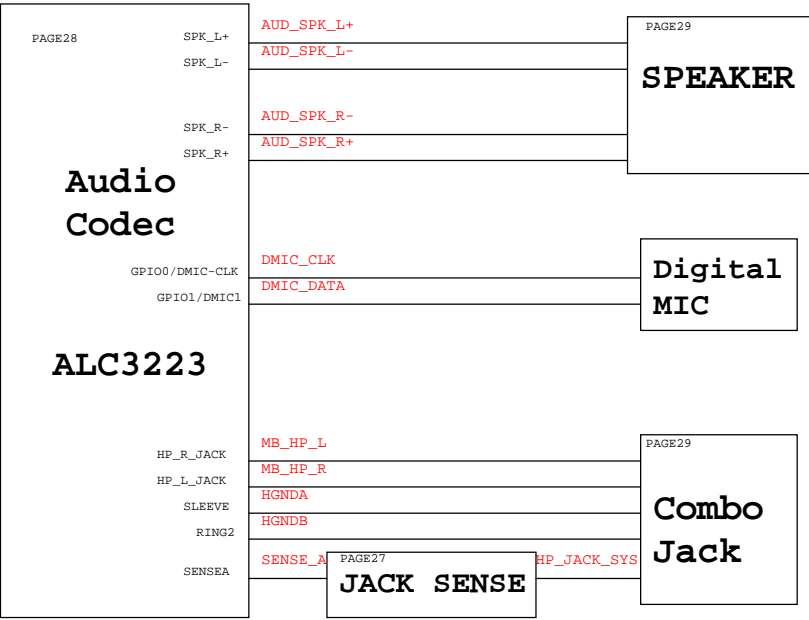
KBC SMBus Block Diagram



Thermal Block Diagram



Audio Block Diagram



Change notes -

	VERSION	DATE	Page	Modify List	OWNER
	X01	2013/12/3	83	R8309 = 15Kohm ,C8301/C8313 = DY,C8302 = 1000pF	
	X01	2013/12/3	43 44	RN4301 to 100ohm, AC_IN# change to Pull-H 3D3V_AUX_S5(PR4434)	
	X01	2013/12/3	27	HDA27 change from ALS3223 to ALC3234	
	X01	2013/12/3	24 25	Swap BATT_WHITE_LED# and EC_BRIGHTNESS. BATT_WHITE_LED# to GPIO13 and EC_BRIGHTNESS to GPIO15. Change R2404 from 10K to 20K ohm for PCB VERSION strap , Del SKT25	
	X01	2013/12/3	52	Reserve 0805 0 ohm R5211 between LCDVDD and LCD1.F5201 change from 69.50007.A31 to 69.60040.001	
	X01	2013/12/3	Power	Change C5205,EC4304,EC4601,PC4409,PC4419,PC4511.PC4518,PC4524,PC4720,PC4722,PC4827, PC4913 to 78.10422.2BL (0.1U 25V K0603 X7R) from 78.10424.2BL (0.1U 50V K0603 X7R).	
	X01	2013/12/3	54 55	Add HDMI SMBUS use 0 ohm DUMMY co-lay ,Add Hsync Vsync 0ohm DUMMY co-lay	
	X01	2013/12/3	29	Change HPMIC1 to 022.10002.0001 from 22.10270.G61 SPK1 change to 20.F1639.004	
	X01	2013/12/3	34 63	Change USB1 to 22.10341.Q21 / Change KBLIT1 to 20.K0800.004	
	X01	2013/12/3	19 26	Change C1904 and C1905 from 10pf to 6.8pf / Q2601 RN2602 DUMMY, RN2601 install	
	X01	2013/12/3	30	R3004 CLK_LAN_REQ0#_R change pull high to 3D3V_S0	
	X01	2013/12/3	EMI	DMIC_CLK mount R2716 100ohm resistance,Mount EC9749,Mount EC4304	
	X01	2013/12/3	58	CARD_WLAN_OUT# and CARD_WPAN_OUT# modify to TP change WLAN1 to 62.10043.I81	
	X01	2013/12/3	42 51	DCIN1 change to 20.F1783.007,Del 1D5V_S5 circuit	
	X01	2013/12/4	24 34 35	R2447 change to 63.10334.1DL,Del U3502 and U3501,swap the net U3403.1 and U3403.3	
	X01	2013/12/5	42 46 24 26	Del AFTP3804 AFTP3807, Modify AFTP6241 Add AFTP6242,Change R2447 to 1K , R2622 change to 24.3K	
	X01	2013/12/6	24	R2411 DY D2401 install	
	X01	2013/12/9	31 47 82	RJ45 connector change to 022.10001.0551, PT4701 /PT4704/PT8204 change to 79.3371V.6CL	
	X01	2013/12/10	EMI	Mount EC4303 and change to 0.1u Mount EC9705 EC9748 EC9717 EC9740 EC9741 EC9712 EC9704 EC9708 and change to 0.1u Mount R5415、R5417、R5416、R5414 150ohm resistance Mount TR3401、TR3404、TR6301(69.10103.041、69.10080.011) Mount TR5208、TR5209(69.10103.041、69.10080.011) Mount EC2705、EC2703、EC9739、EC9743、EC9744 0.1u cap Mount SPR2、SPR5、SPR6	
	X01	2013/12/10	0 ohm	change 0 ohm to short pad	
	X01	2013/12/10	54 55	R5501/R5502 change to 33 ohm / Del D5402	
	X01	2013/12/10	24 52 62	R2411 Install D2401 DUMMY ,R5207 BOM control ,BOM control DVC50 to Janus	
	X01	2013/12/12	46 86 62	PR4609 change to 44.2K (64.44225.6DL) from short pad, EMI:Add SPR6(34.42T14.002),KBLIT DUMMY	
	X01	2013/12/16	55 Power	Del CRT circuit / Modify power schematic BOM	
	X01	2013/12/18	Power	PR8214 change to 499K (64.49935.6DL) / PR8215 change to 9.76K (64.97615.6DL)	

Cedar UMA 14

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	VERSION	DATE	Page	Modify List	OWNER
	X02	2014/01/21	48	Change PR4823 to 26.1K. The voltage about 0.97V	
	X02	2014/01/21	83	R8310 change 15Kohm /C8313 change 0.1uF /C8301 change 470pF Add R8301 for power sequence	
	X02	2014/01/27	12,46	EMC request:change EC4601,C1217,C1225,C1214 to 0.1u	
	X02	2014/01/27		Change 0 ohm to short pad	
	X02	2014/01/27	6	DGPU_PRESENT# pull hi to 3D3V_S0	
	X02	2014/01/28	power	1. PD4201 change 1st source to 83.P6SEM.AAG and 2nd source to 83.P6SEM.DAG . 2. PC4202 PC4409 PC4419 PC4519 PC4524 PC4511 PC4513 PC4518 PC4734 PC4720 PC4722 PC4736 PC4833 PC4827 PC4919 PC4913 PC8230 change to 78.10424.2BL. 3. PC4201 change to 78.10594.41L. 4. PC4916,PC4917 change to 78.10610.5BL. 5. PC4408 change to 78.47522.51L (4.7U 25V K0805 X5R). 6. PC4425 change to 78.10324.2FL (0.01U 50V K0402 X7R). 7. PC4512 change to 78.47522.51L (4.7U 25V K0805 X5R). 8. Delete PC4814/PC4714. 9. Dummy PC4718/PC4912/PC4920/PC4204/PC4205/ PC4426/PC4416/PC4830 10.PC4828 change to 78.47522.51L (4.7U 25V K0805 X5R). 11.PC4909 and PC4911 change to 78.47522.51L (4.7U 25V K0805 X5R).	
	X02	2014/01/28	31	change XF3101 and XF3102 to 68.68167.30D and Swap net	
	X02	2014/02/06	06 19	Change RN1901 R1901 from short pad to 0 ohm Change RN604 to 66.10336.08L	
	X02	2014/02/06	86	Change SPR4 P/N to 34.15J03.001	
	X02	2014/02/07	26	THM26 DUMMY, Add R2602 for VD_OUT1# connect PURE_HW_SHUTDOWN#	
	A00	2014/02/25		Change PR4911 PR4649 R3016 R6209 R1901 RN5404 RN1901 to short pad	
	A00	2014/02/25	82	Modify schematic PWR_VGA_COMP connecte to PWR_VGA_FB	
	A00	2014/02/25	24	PCB VERSION A/D(PIN98) R2404 change to 64.64925.6DL	
	A00	2014/02/25	54	Install D5401 RN5401 Q5402, Dummy RN5404	