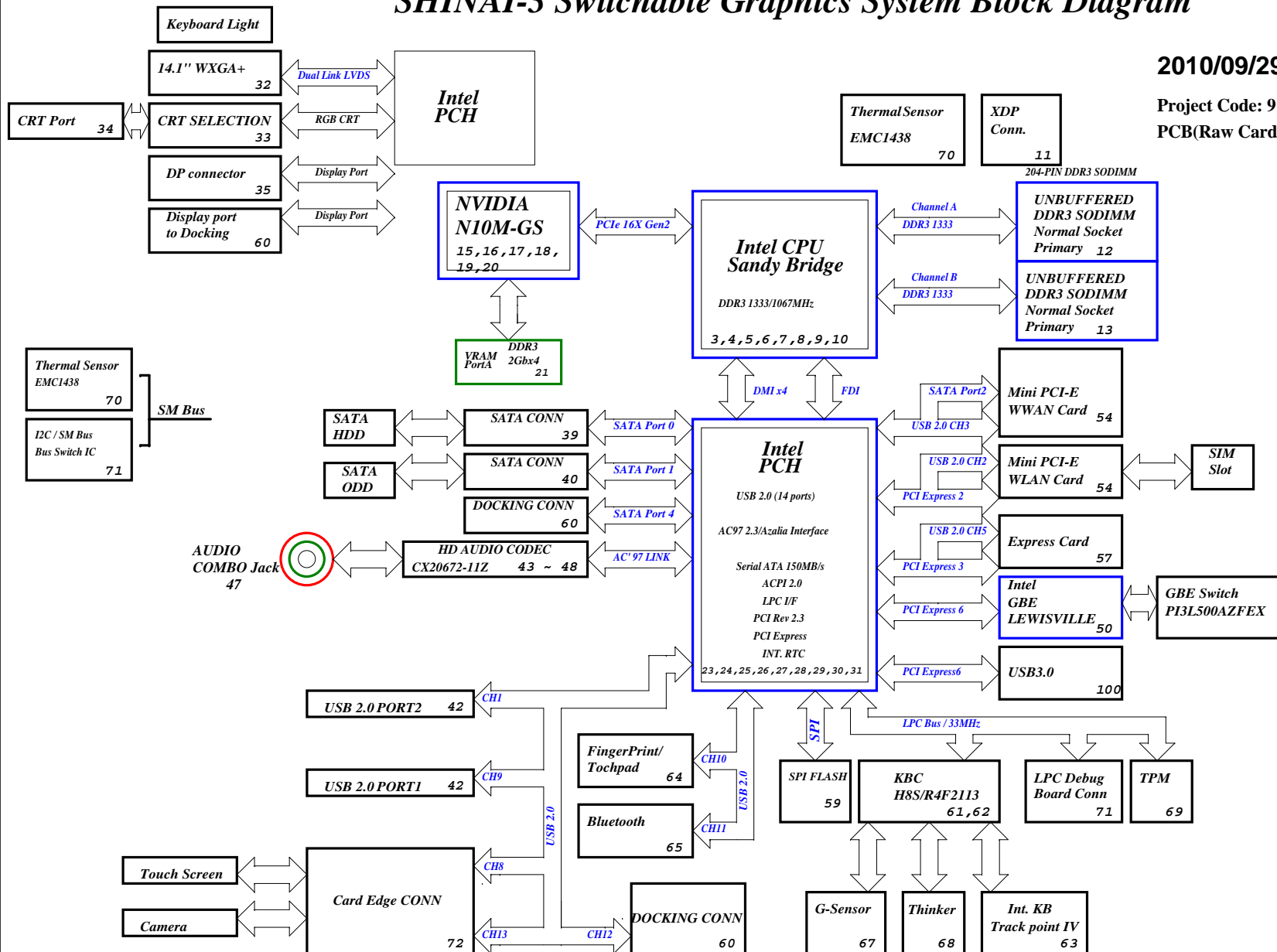


SHINAI-3 Switchable Graphics System Block Diagram

2010/09/29

Project Code: 91.4KF01.001
PCB(Raw Card): 10226-SB



PCB Layer Stackup	
L1:	TOP
L2:	SIGNAL
L3:	G/P
L4:	SIGNAL
L5:	G/P
L6:	G/P
L7:	SIGNAL
L8:	G/P
L9:	SIGNAL
L10:	BOTTOM
Battery Charger/Selector	
BQ24742	74
INPUTS	
DCIN_PWR20_F	M-BAT-PWR
OUTPUTS	
S-BAT-PWR	
System DC/DC	
TPS51222	78
VINT20	VCC5M
VCC3M	
CPU DC/DC	
VT1316/VT1317	79
VCC5M_OUT	VCC5M_PUCORE
GFX CORE_D	
ADP3211	83
VINT20	VCCGFXCORE_D
GFX CORE_I	
VT1317	81
VCC5M_OUT	VCCGFXCORE_I
VCC1R5A	
VT358FCX	86
VCC5M_OUT	VCC1R5A
VCC0R75B	
MAX1510	87
VCC1R5A	VCC0R75B
VCC1R8B	
TPS62290	89
VCC5M	VCC1R8B
VCC1R05AMT	
VT356FCX	85
VCC5M_OUT	VCC1R05LAN
VCC1R05B_VTT	
VT357FCX	84
VCC5M_OUT	VCC1R05B_VTT

E数码电脑荟萃资料库 <http://shop111621016.taobao.com>
最全最新IT数码综合资料<http://www.5256xuexi.com>

Wistron Corporation		
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsinchu, Taiwan Hsin 221, Taiwan, R.O.C.		
Block Diagram		
Size	Document Number	Rev
Custom	SHINAI-3 SWG	SB
Date: Wednesday, September 28, 2010	Sheet 1 of 102	

Symbol name	Value	Tolerance (J: 5%, F: 1%, D: 0.5%, B: 0.1 %)	Rating 0402=> 1/16W, 25V 0603 => 1/16W, 75V 0805 => 1/10W, 100V	Size 2=>0402, 3=>0603, 5=>0805, 6=>1206, 0=>1210
10KR3	10K Ohm	If no letter, it means J: 5%	1/16W, 75V	0603
33D3R5	33.3 Ohm	If no letter, it means J: 5%	1/10W, 100V	0805
1KR3F	1K Ohm	F: 1%	1/16W, 75V	0603

Symbol name	Value	Tolerance (M: +/-20, K: +/-10, Z: +80/-20)	Rating	Size 2=>0402, 3=>0603, 5=>0805, 6=>1206, 0=>1210
SCD1U10V2MX-1	0.1uF	M/X5R	10V	0402
SC10U6D3V5MX	10uF	M/X5R	6.3V	0805
SC2D2U16V5ZY	2.2uF	Z/Y5V	16V	0805

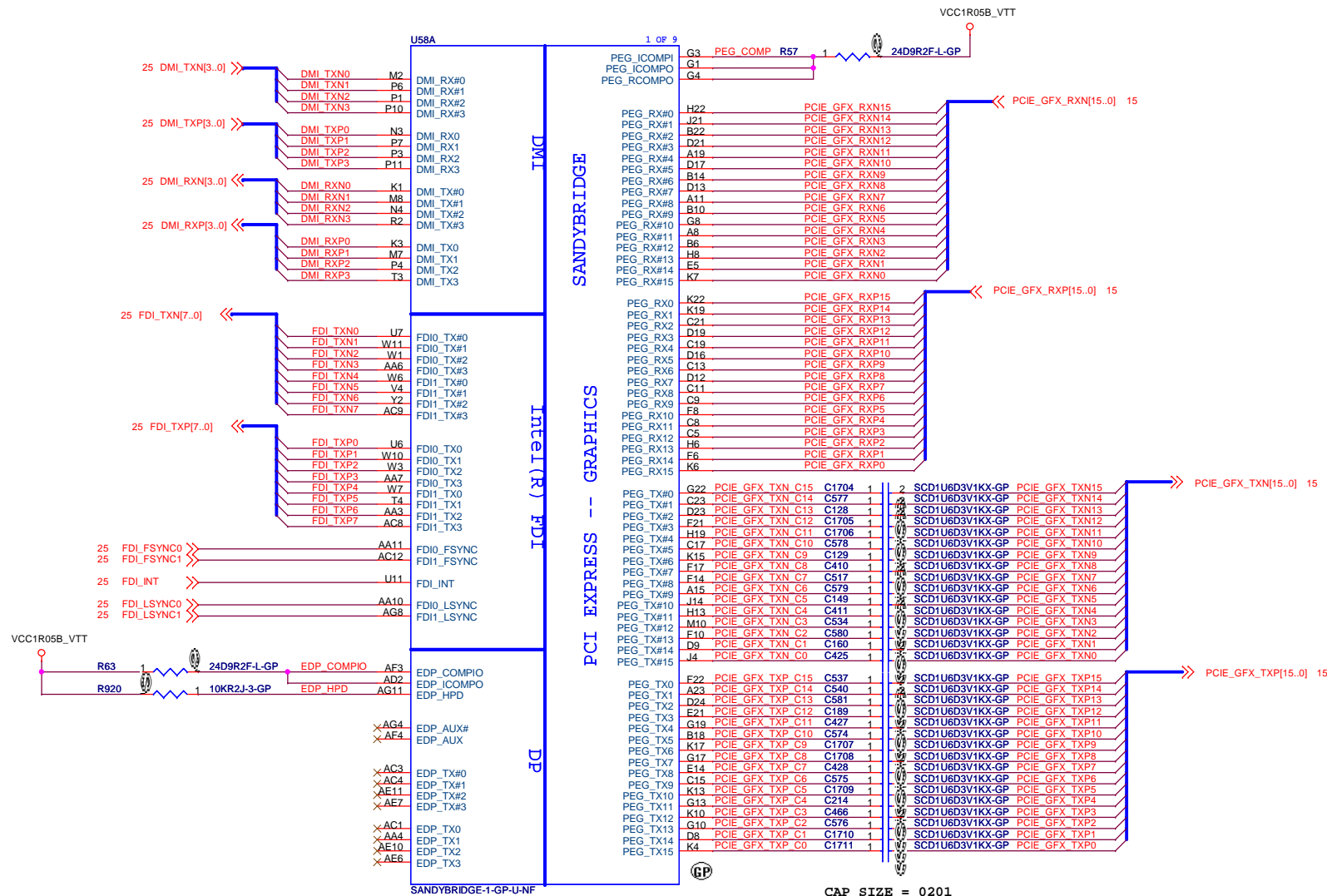
ICH9-M GPION	39	38	37	36	Planar ID Version	Planar PCB Version
PLANAR_IDn	3	2	1	0		
	0	0	0	0	SHINAI-3 SWG PDV	SA
	0	0	0	1		
	0	0	1	0		
	0	0	1	1		
	0	1	0	0		
	0	1	0	1		
	0	1	1	0		
	0	1	1	1		

[illegible]

DEVICE	IDSEL	IRQ (Default)	REQ# / GNT#
MINIPCI SLOT	AD18	F, G	REQ# 3/ GNT#
CARDBUS R5C811	AD16	SERIRQ	REQ#0 / GNT#
USB UHCI	AD29	A, C, D	
USB 2.0 EHCI	AD29	H	
DMI-to-PCI/ AC97 Modem/ AC97 Audio	AD30	B B	
LPC Bridge IDE SATA SMBus	AD31	C C B	
PCI Express	AD28	A, B, C, D	

		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
Size A3		Document Number	
		EC HISTORY	
		SHINAI-3 SWG	
Date: Tuesday, September 07, 2010		Sheet 2 of 102	
		Rev SB	

E数码电脑荟萃资料库 <http://shop111621016.taobao.com>
 最全最新IT数码综合资料<http://www.5256xuexi.com>



<Variant Name>

緯創資通

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

Title **CPU(1/8): DMI/EDP/PEG/FDI**


Size A3 Document Number

SHINAI-3 SWG

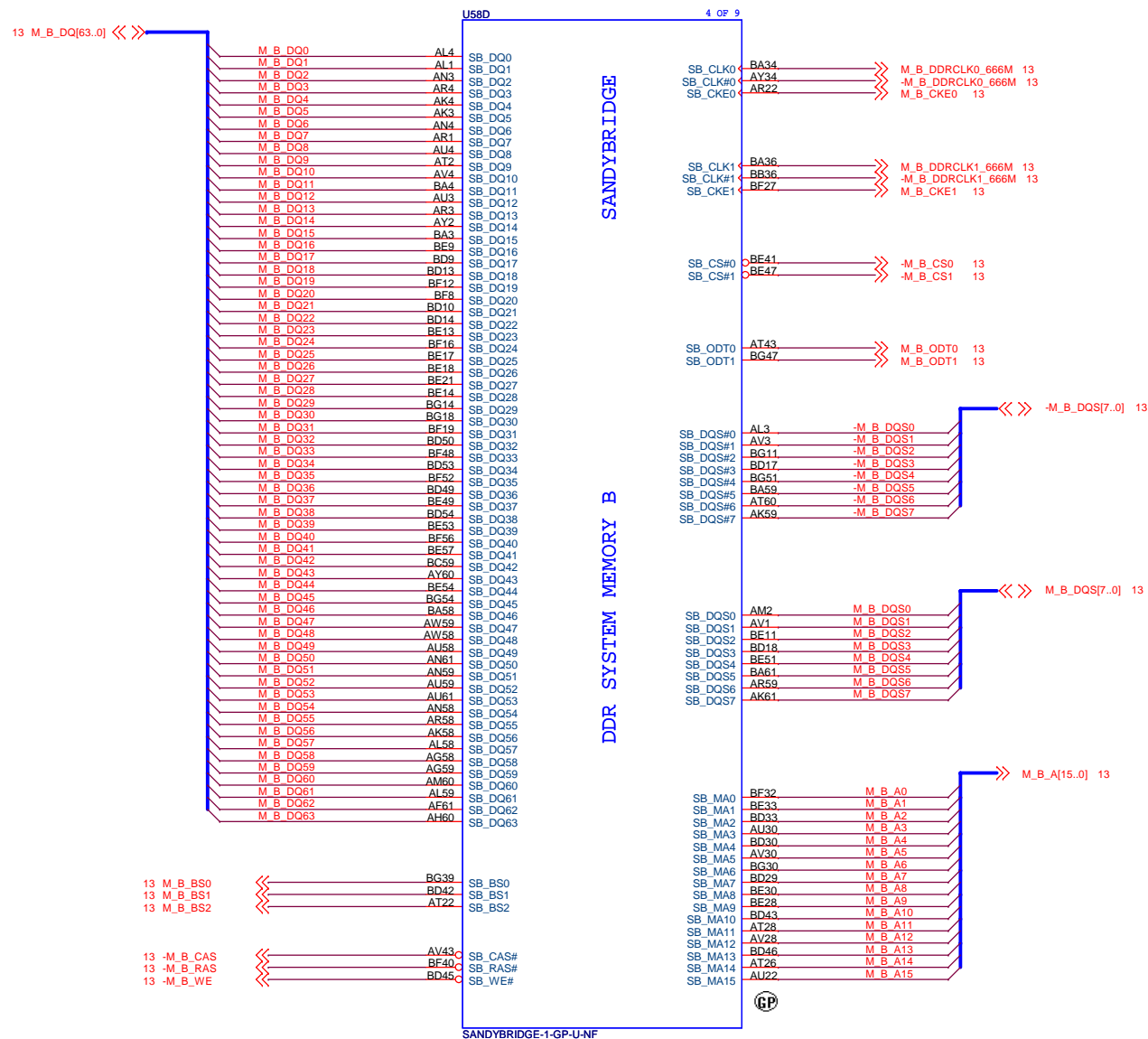
Rev **SB**

Date: Tuesday, September 07, 2010

Sheet 3 of 102

<Variant Name>			
		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title CPU(2/8):CLK/MISC/JTAG			
Size A3	Document Number	SHINAI-3 SWG	
		Rev	SB
Date:	Tuesday, September 07, 2010	Sheet	4 of 102

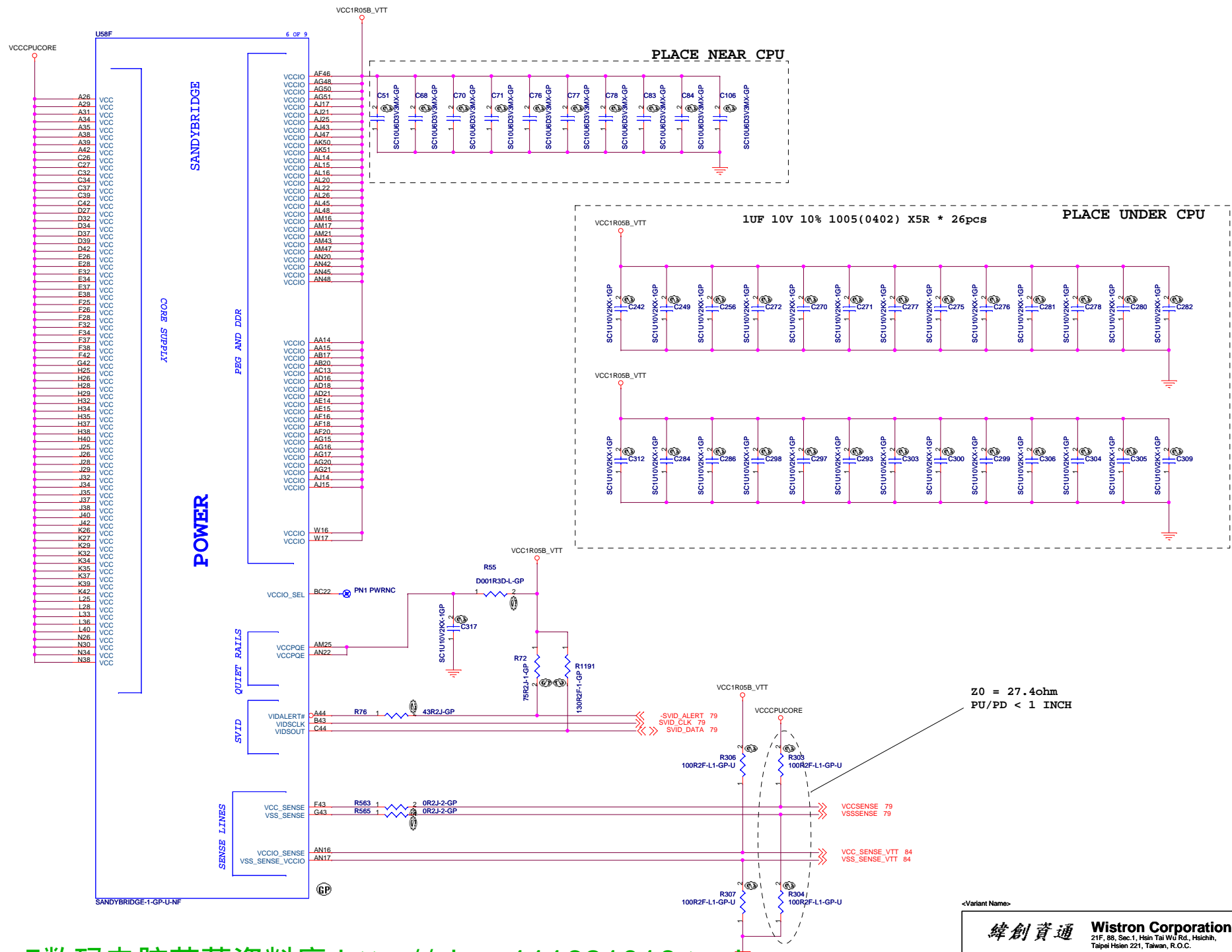




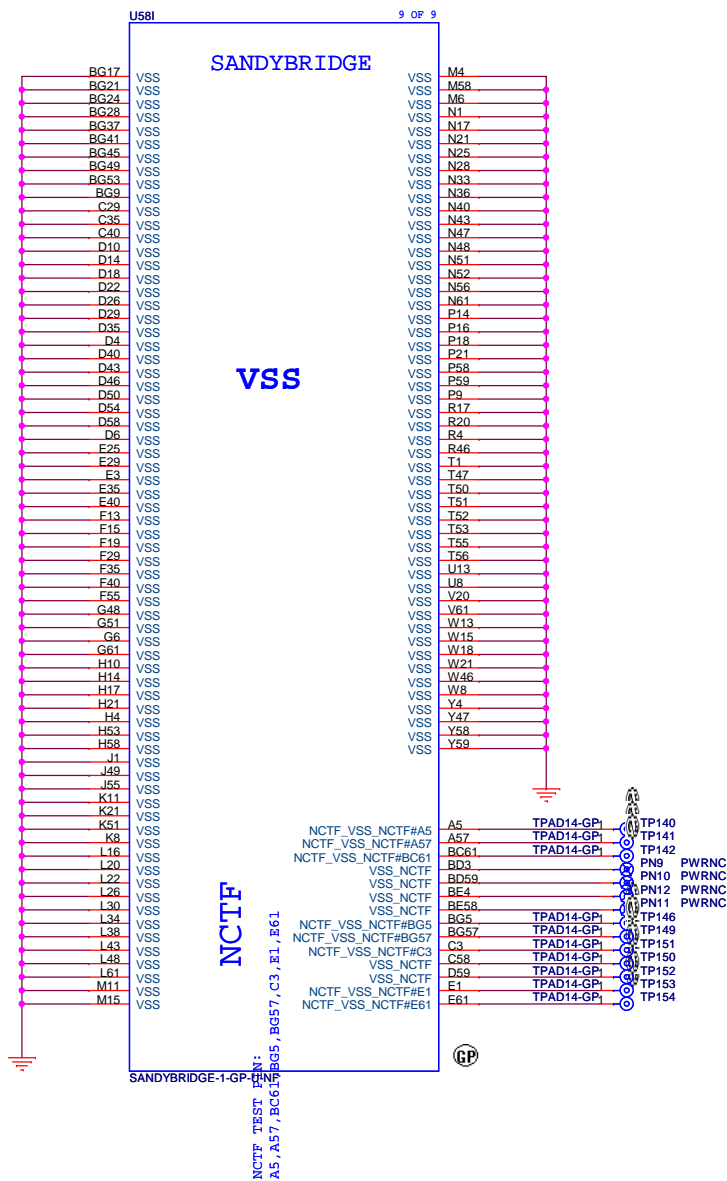
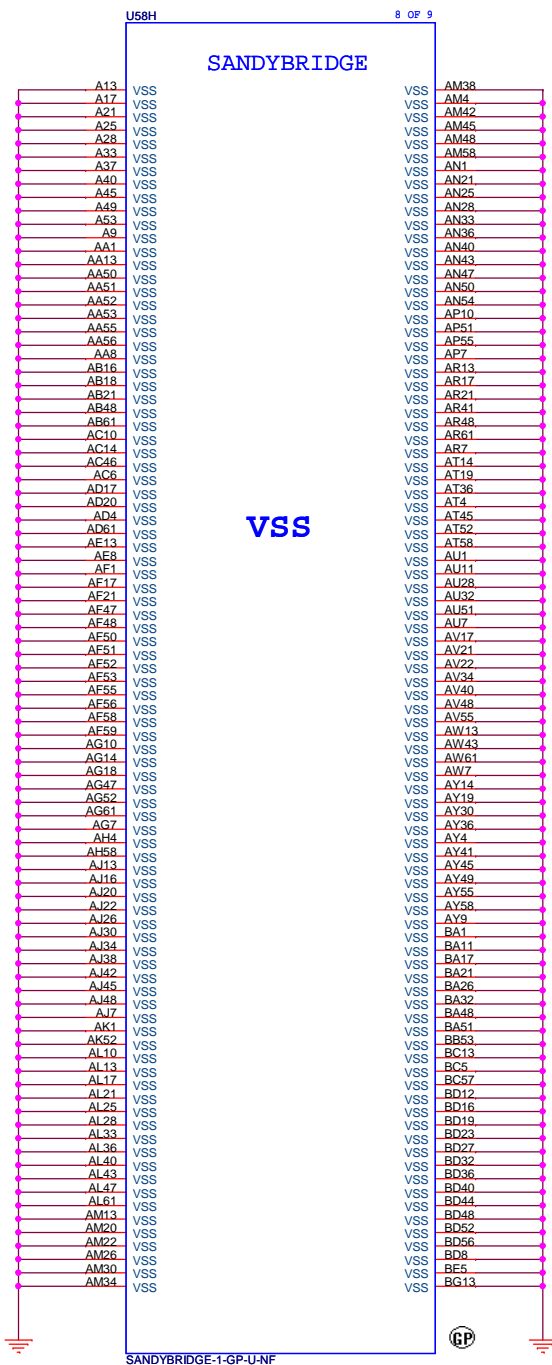
E数码电脑荟萃资料库 <http://shop111621016.taobao.com>
 最全最新IT数码综合资料<http://www.5256xuexi.com>

<Variant Name>

緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title CPU(4/8)-DDR3 CH-B	
Size A3	Document Number SHINAI-3 SWG
Date Tuesday, September 07, 2010	Rev SB
Sheet 6	of 102



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 最全最新IT数码综合资料<http://www.5256xuexi.com>



TABLE

CFG2 PEG LANE REVERSAL

- 1 -NO_ASM: NORMAL
- 0 -ASM: RESVERSE

CFG4 DISPLAY PORT PRESENCE

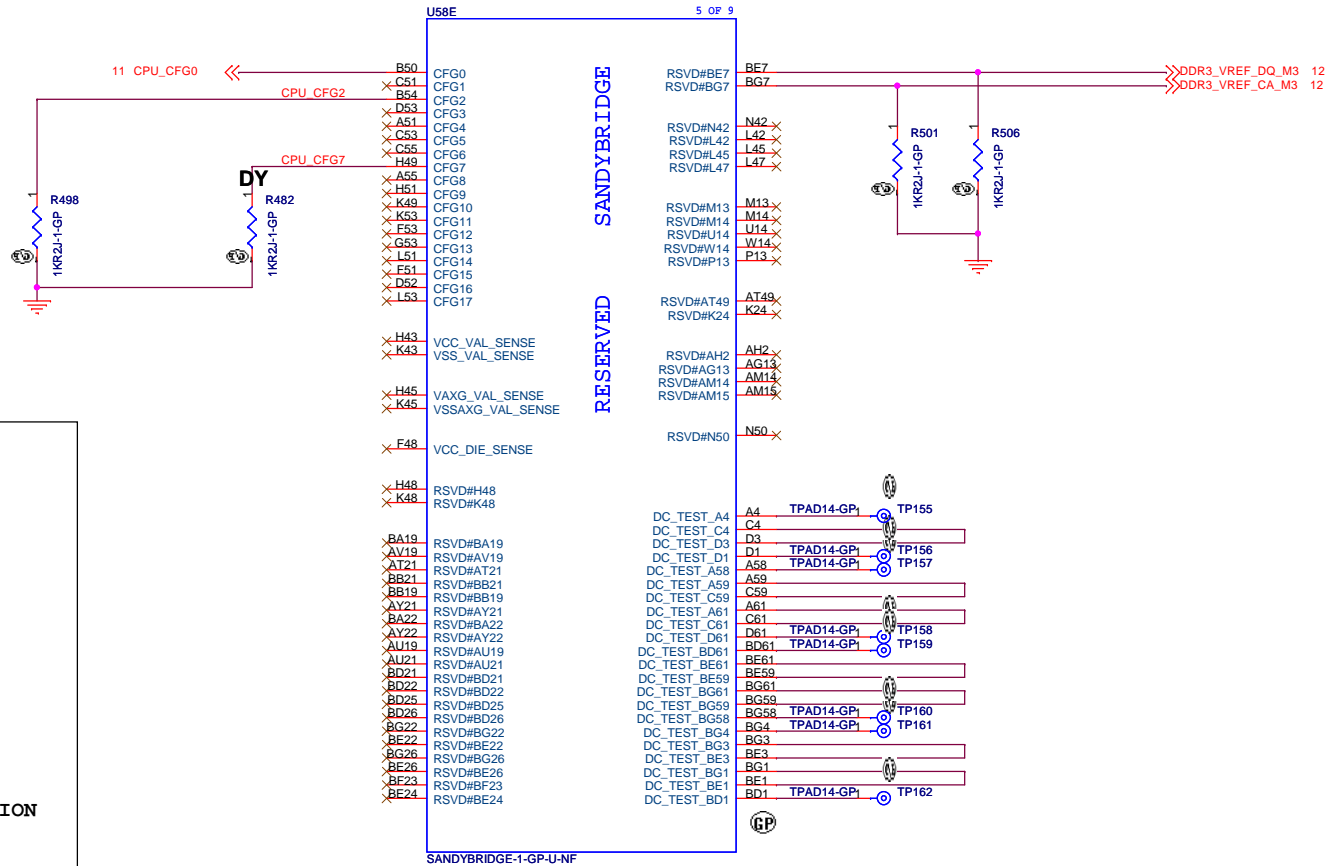
- 1 -NO_ASM: DISABLE
- 0 -ASM: ENABLE

CFG[6:5] PEG BIFURCATION CONFIG

- 11 -SINGLE 16 LANES (D01:F1 AND D01:F2 DISABLED)
- 10 -2X8 LANES (D01:F1 ENABLED: D01:F2 DISABLED)
- 01 -RESERVED
- 00 -8 LANES AND 2X4 LANES (D01:F1 AND D01:F2 ENABLED)

CFG7 PEG DEFER TRAINING

- 1 -NO_ASM: PEG TRAIN IMMEDIATELY FOLLOWING XXRESETB DEASSERTION
- 0 -ASM: PEG WAIT FOR BIOS FOR TRAINING



<Variant Name>

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

Title **CPU(8/8): CFG/RESERVED**

Size A3 Document Number **SHINAI-3 SWG** Rev **SB**

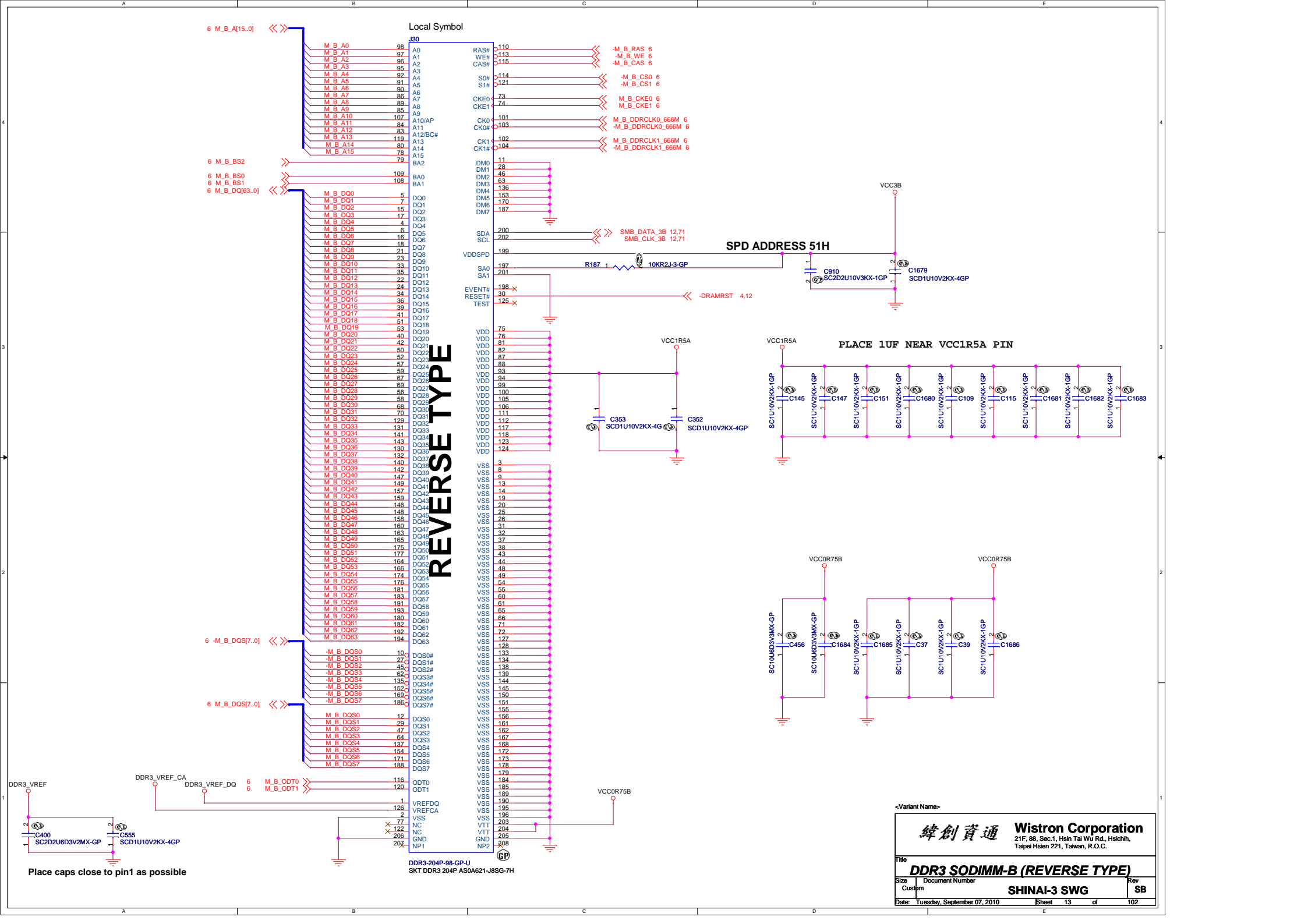
Date: Tuesday, September 07, 2010 Sheet 10 of 102



SIGNAL	REF DES	ENABLE	DISABLE
TDO	R475	ASM	NO_ASM
TRST#	R471	ASM	ASM
DBRST#	R491	ASM	ASM
RESET#	R588	ASM	NO_ASM
CFG0	R477	ASM	NO_ASM
PWRGD	R594	ASM	NO_ASM
BPWRG	R954	ASM	NO_ASM
	J8	ASM	NO_ASM

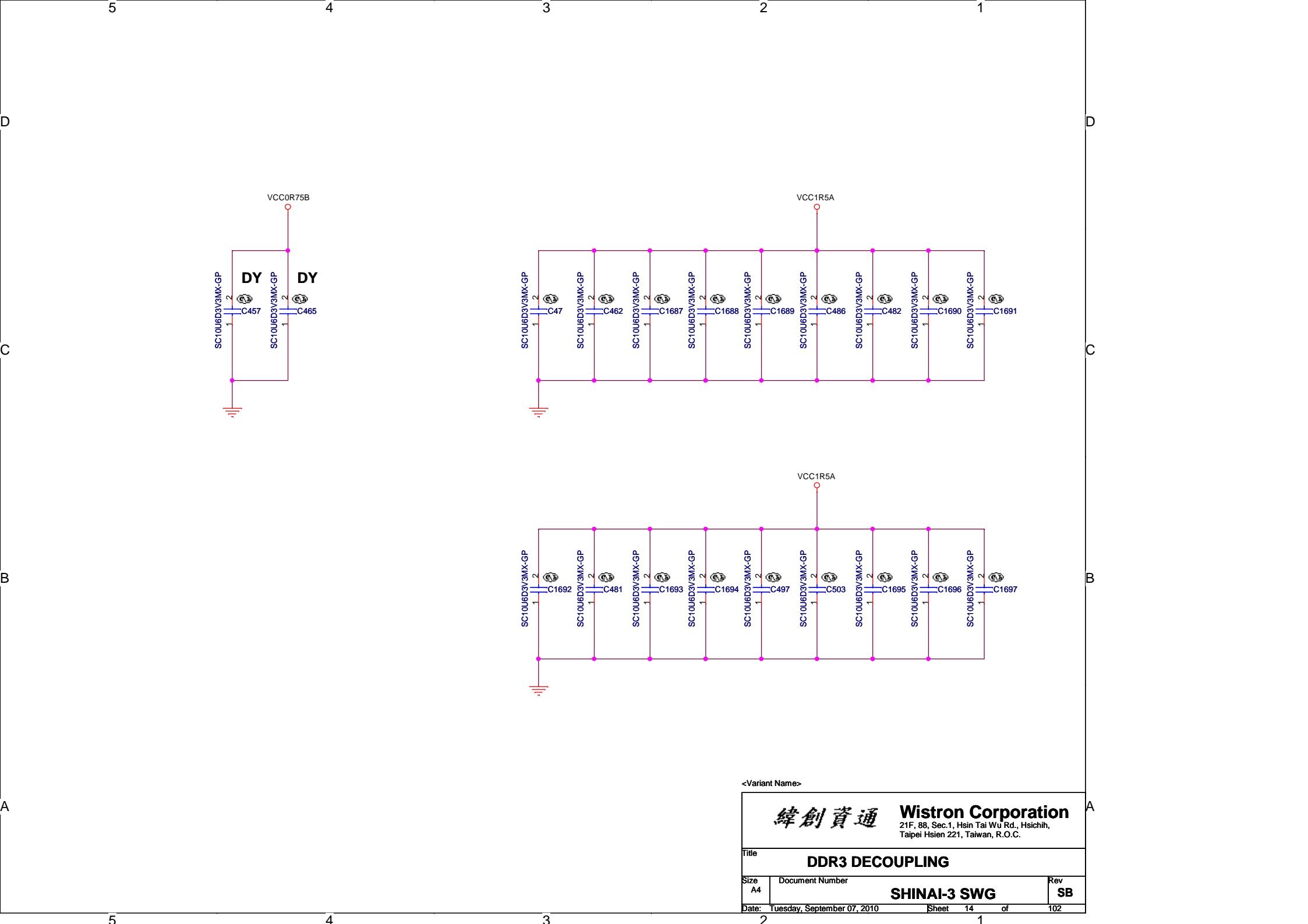


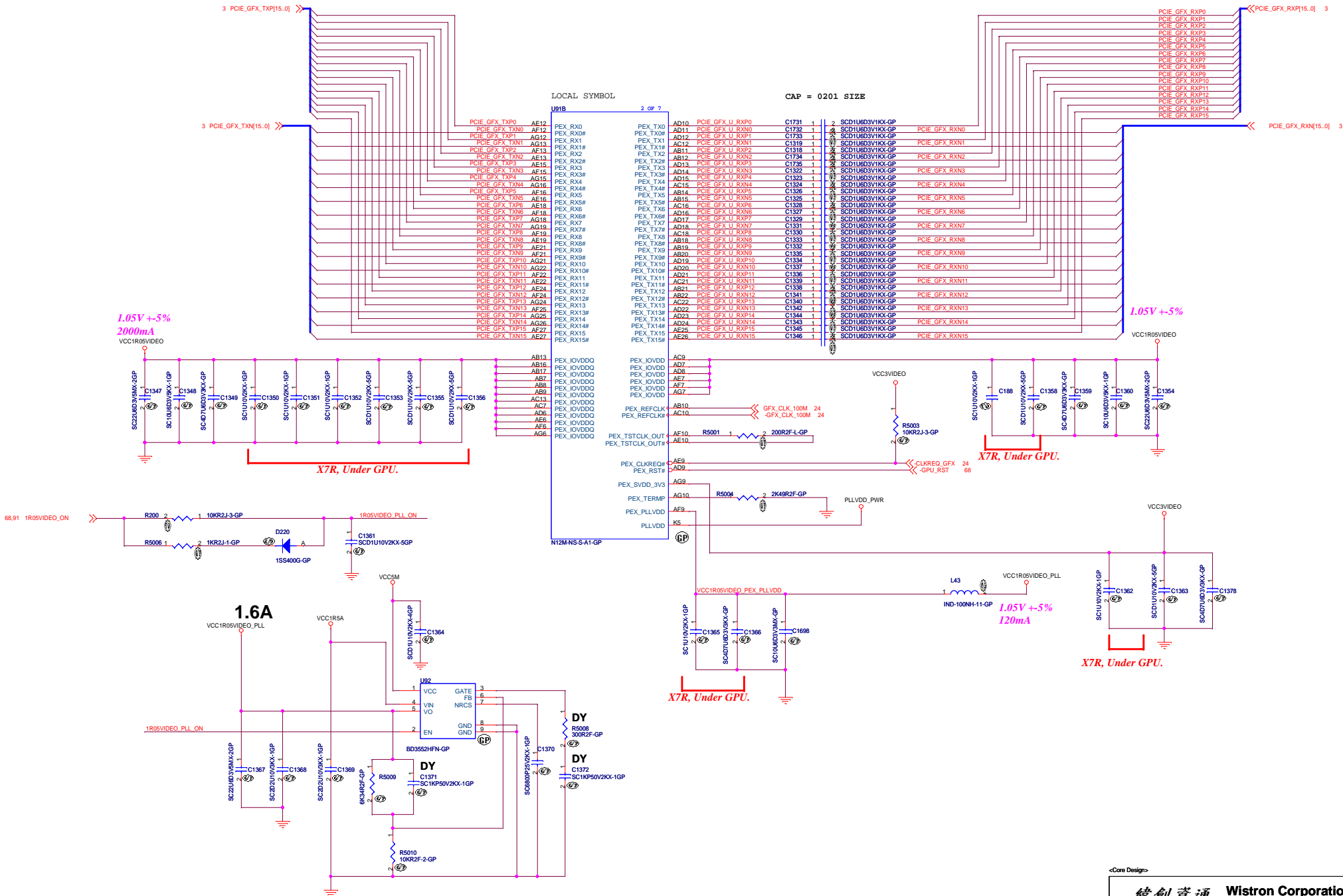
SIGNAL	REF DES	ENABLE	DISABLE
TDO	R509	220	NO_ASM
	R943	100	NO_ASM
TMS	R530	220	NO_ASM
	R946	100	NO_ASM
TDI	R515	220	NO_ASM
	R945	100	NO_ASM
TCK	R541	51	51
MPWRG	R511	ASM	NO_ASM
	R514	ASM	NO_ASM
	J9	ASM	NO_ASM

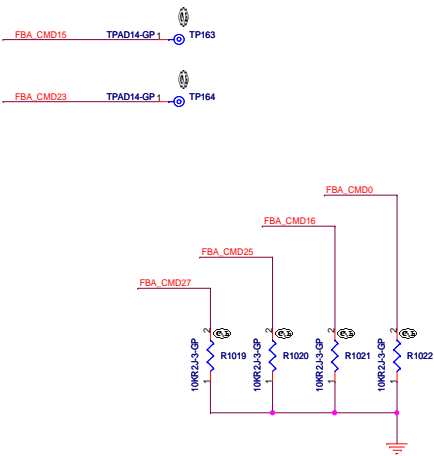


<Variant Name>

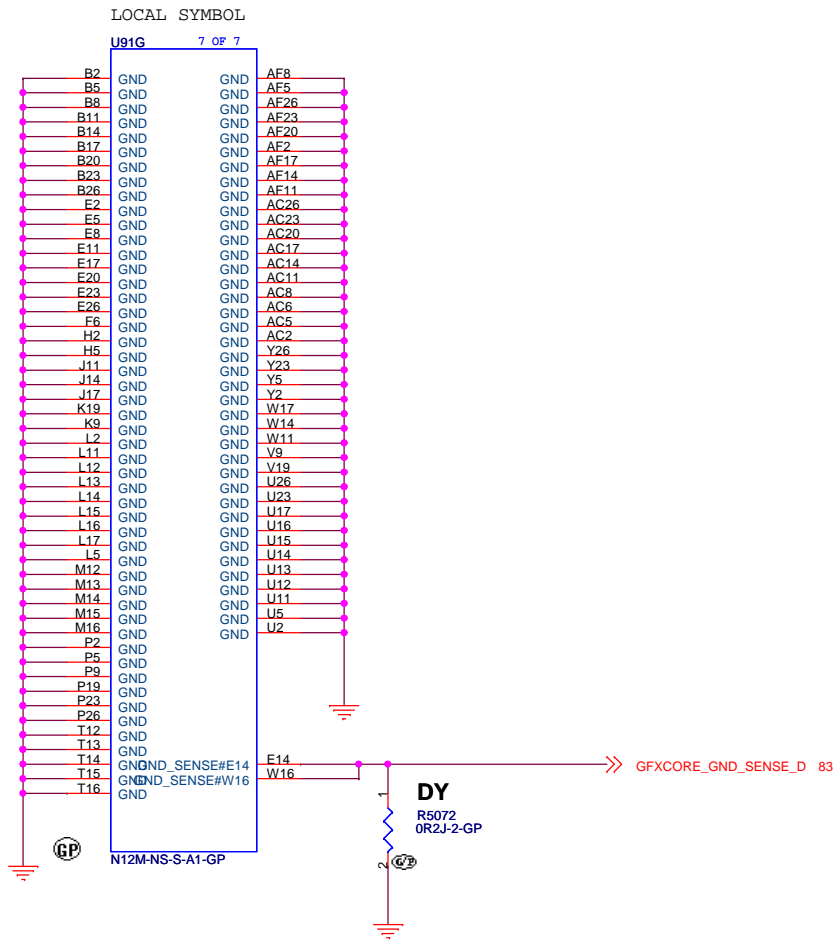
緯創資通		Wistron Corporation	
		21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title DDR3 SODIMM-B (REVERSE TYPE)			
Size Custom	Document Number SHINAI-3 SWG		Rev SB
Date: Tuesday, September 07, 2010		Sheet 13	of 102







Need to confirm on FB_VREF w/ NVIDIA



<Core Design>

緯創資通		Wistron Corporation	
		21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
N12M-NS(6/6): GND			
Size B	Document Number		Rev
	SHINAI-3 SWG		SB
Date:	Tuesday, September 07, 2010	Sheet 20 of	102

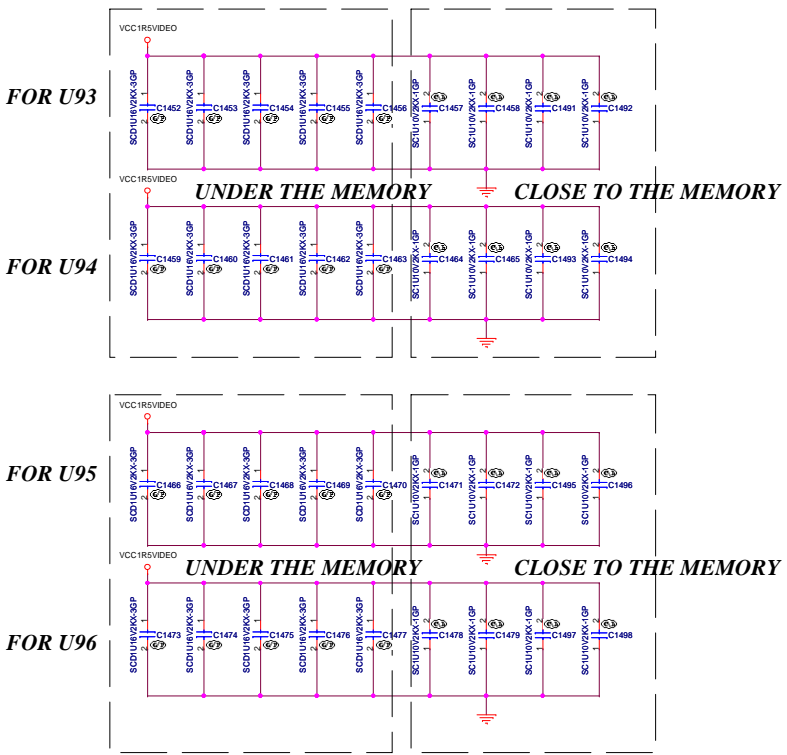
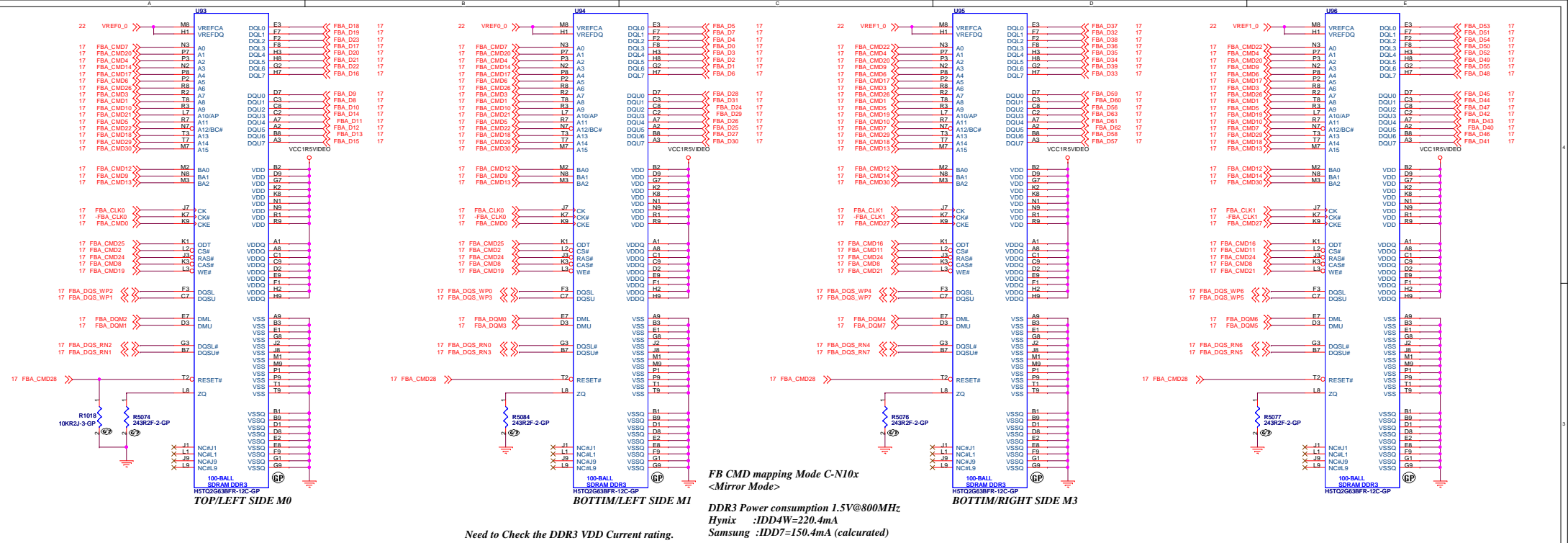


TABLE
DDR3 VIDEO MEMORY

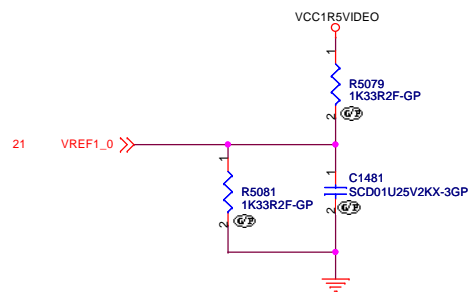
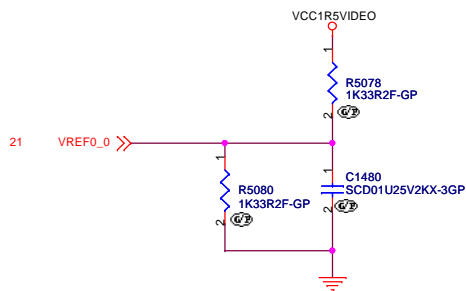
	SAMSUNG	HYNIX
U93	K4W1G1646E-HC12	H5TQ1G63BFR-12C
U94		
U95		
U96		

↑
LOGIC

MEMORY CHANNEL A

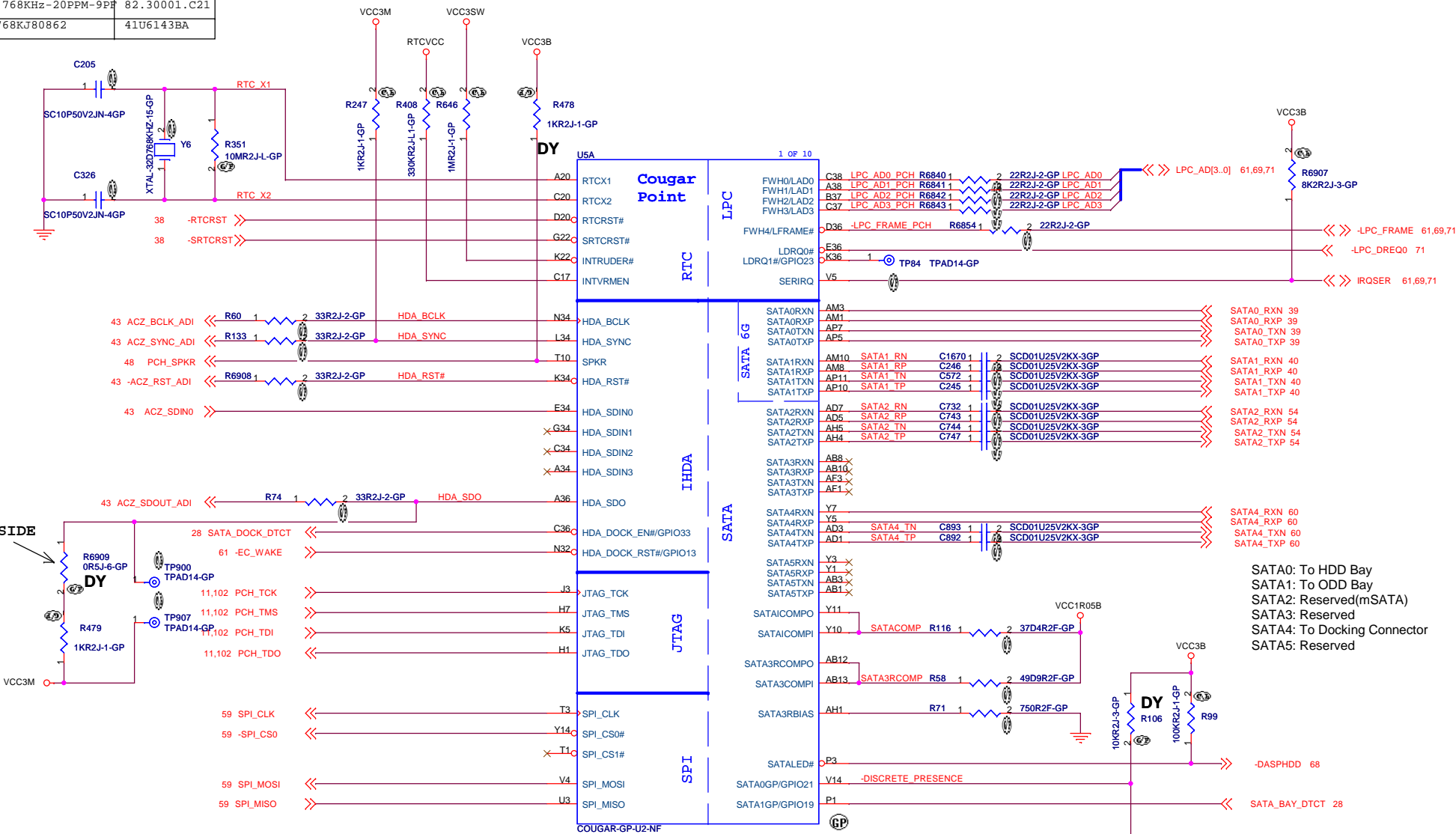
<Core Design>

緯創資通 Wistron Corporation 21F, 8B, Sec.1, Hsin Tai Wu Rd., Hsueh-shan, Taipei Hsien 221, Taiwan, R.O.C.		
Title VRAM CHANNEL-A		
Size A2	Document Number SHINAI-3 SWG	Rev SB
Date: Tuesday, September 07, 2010	Sheet 21	of 102



<Core Design>

緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title DYNAMIC MEMORY TERMINATION	
Size A3	Document Number SHINAI-3 SWG Date: Tuesday, September 07, 2010
Rev SB	Sheet 22 of 102




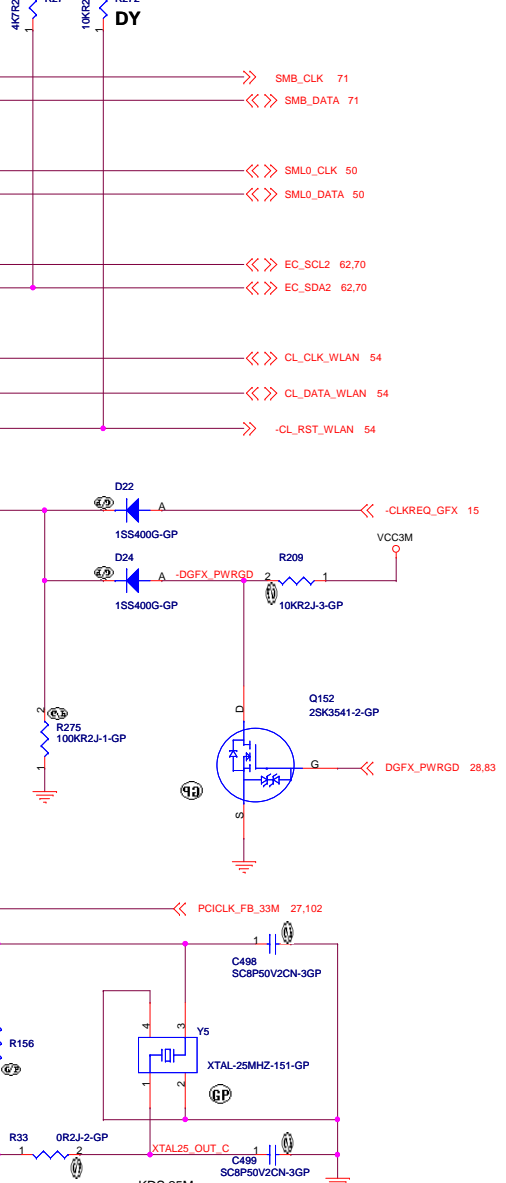
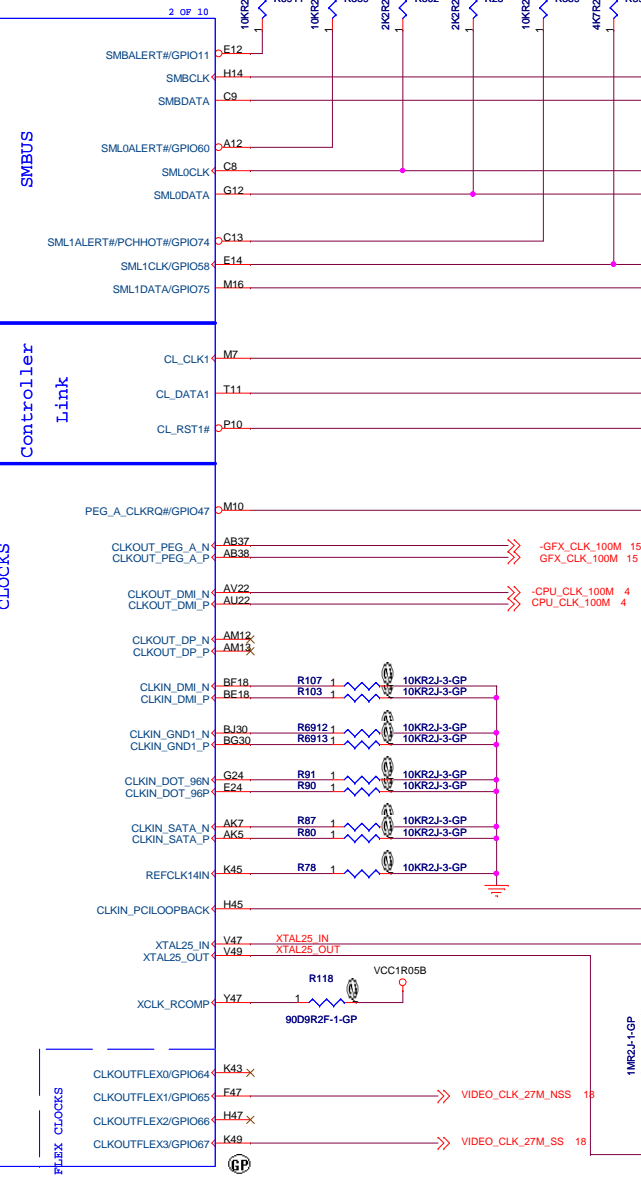
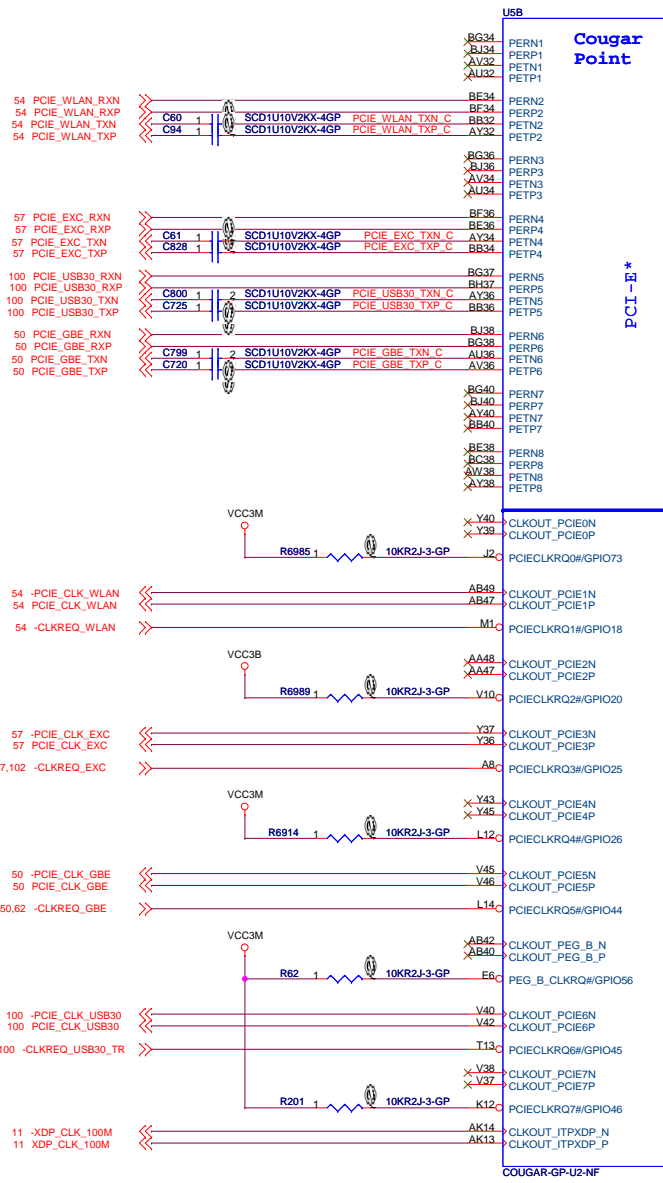
AMT RPAT	YES YES	NO YES	NO NO
U5	QM67	HM67	HM65

SPKR	TCO TIMER SYSTEM REBOOT
HIGH:	DISABLED (NO REBOOT)
LOW:	ENABLED

MSATA	YES	NO
C732	ASM	NO_ASM
C743	ASM	NO_ASM
C744	ASM	NO_ASM
C747	ASM	NO_ASM



 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.		
Title		
PCH (1/9):HDA/JTAG/SATA		
Size A3	Document Number	Rev SB
SHINAI-3 SWG		
Date: Tuesday, September 07, 2010	Sheet 23 of	102



	Supplier	Vendo P/N	WISTRON P/N
1	KDS	DSX321G 25M 8PF 30PPM	61Y9504AA
2	TXC	7V25080004	82.30020.E71
3	RIVER	FCX-04-25MJ90730	82.30020.E51

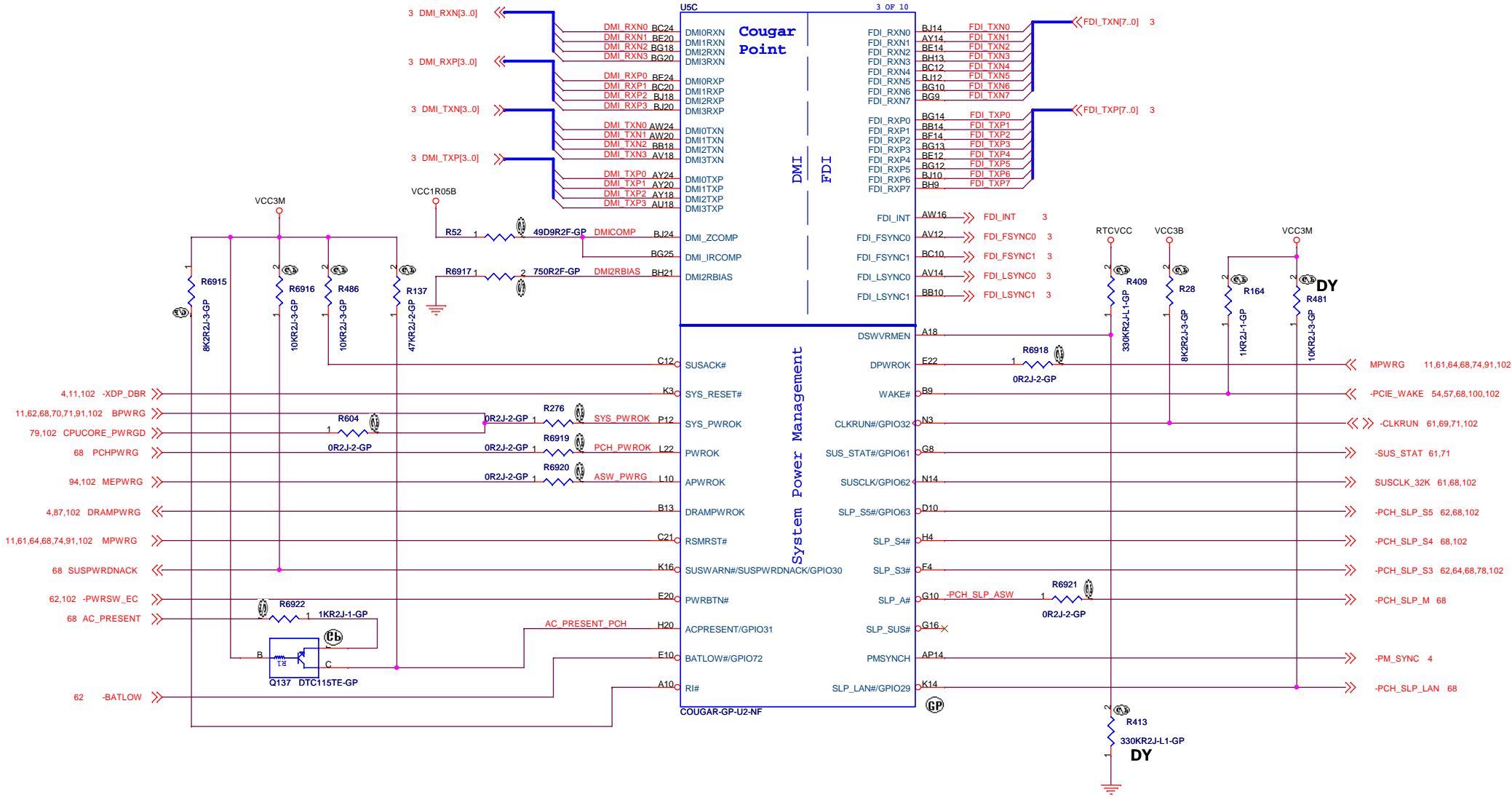
<Variant Name>

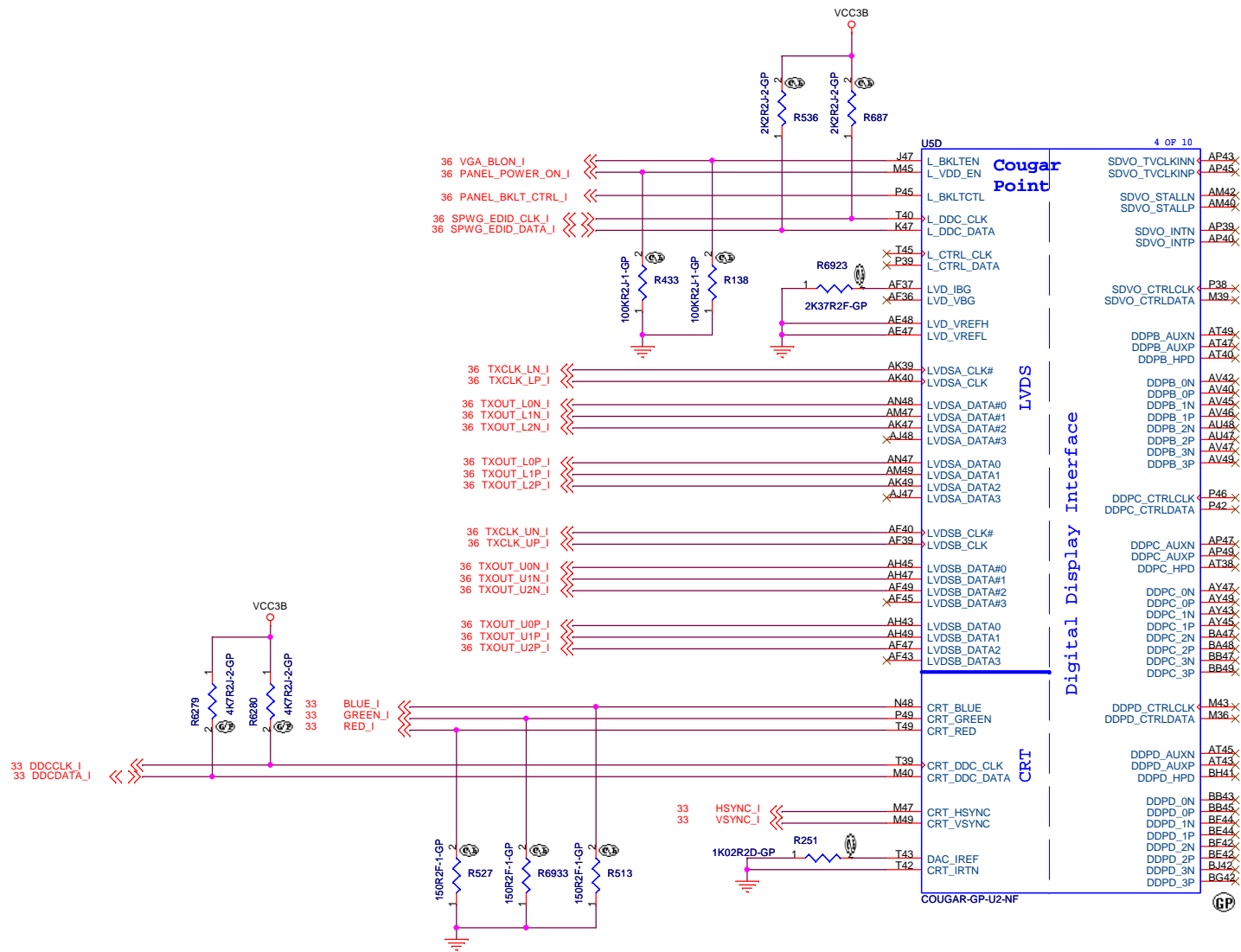
緯創資通 Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title **PCH(2/9):PCIE/SMBUS/CLK**

Size Document Number **SHINAI-3 SWG** Rev **SB**

Date: Tuesday, September 07, 2010 Sheet 24 of 102





TABLE

OPTIMUS_ENABLE	
LVDS/VGA	
HIGH	IGPU
LOW	DGPU

57,102 -SC_DTCT
33,36 OPTIMUS_ENABLE
65,102 -BDC_PRESENCE

32 -LCD_PRESENCE
DOCKID0
DOCKID1
DOCKID2
60 DOCKID[2..0]

PME# has internal pullup[20K].

69 LPCCLK_CRYPT_33M
71 LPCCLK_DEBUG_33M
61 LPCCLK_EC_33M
24,102 PCICLK_FB_33M

50,54,69,71,72,100,102 -PLTRST_NEAR

4,11,58,61,68,71,102 -PLTRST_FAR

Cougar
Point

RSVD

PCI

USB

USE

5 OF 10

NVRAM

TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
TP9
TP10
TP11
TP12
TP13
TP14
TP15
TP16
TP17
TP18
TP19
TP20

TP21
TP22
TP23
TP24

TP25
TP26
TP27
TP28
TP29
TP30
TP31
TP32
TP33
TP34
TP35
TP36
TP37
TP38
TP39
TP40

PIROA#
PIROB#
PIROC#
PIROD#

REQ1#/GPIO50
REQ2#/GPIO52
REQ3#/GPIO54
GNT1#/GPIO51
GNT2#/GPIO53
GNT3#/GPIO55

PIRQE#/GPIO2
PIRQF#/GPIO3
PIRQG#/GPIO4
PIRQH#/GPIO5

PME#
PLTRST#

CLKOUT_PCIO
CLKOUT_PC1
CLKOUT_PC2
CLKOUT_PC3
CLKOUT_PC4

COUGAR-GP-U2-NF

RSVD#AY7
RSVD#AV7
RSVD#AU3
RSVD#BG4
RSVD#AT10
RSVD#BC8
RSVD#AU2
RSVD#AT4
RSVD#AT3
RSVD#AT1
RSVD#AY3
RSVD#AT5
RSVD#AV3
RSVD#AV1
RSVD#BB1
RSVD#BA3
RSVD#BB5
RSVD#BB3
RSVD#BB7
RSVD#BE8
RSVD#BD4
RSVD#BF6

RSVD#AV5
DF_TVS
RSVD#AV10
RSVD#AT8
RSVD#AY5
RSVD#BA2
RSVD#AT12
RSVD#BF3

USBP0N
USBP0P
USBP1N
USBP1P
USBP2N
USBP2P
USBP3N
USBP3P
USBP4N
USBP4P
USBP5N
USBP5P
USBP6N
USBP6P
USBP7N
USBP7P
USBP8N
USBP8P
USBP9N
USBP9P
USBP10N
USBP10P
USBP11N
USBP11P
USBP12N
USBP12P
USBP13N
USBP13P

USBRBIAS#
USBRBIAS

OC0#/GPIO59
OC1#/GPIO40
OC2#/GPIO41
OC3#/GPIO42
OC4#/GPIO43
OC5#/GPIO9
OC6#/GPIO10
OC7#/GPIO14

AY7
AV7
AU3
BG4
AT10
BC8
AU2
AT4
AT3
AT1
AY3
AT5
AV3
AV1
BB1
BA3
BB5
BB3
BB7
BE8
BD4
BF6
AV5
AY1
AV10
AT8
AY5
BA2
AT12
BF3

C24
A24
C25
B25
C26
A26
K28
H28
E28
D28
A28
C29
B29
N28
M28
L30
K30
G30
E30
C30
A30
L32
K32
E32
C32
A32

C33
B33

A14
K20
B17
C16
L16
A16
D14
C14

VCC1R8B
R1017
1KR2J-1-GP

TABLE

NV_ALE

HIGH: ENABLE AT-D
LOW: DISABLE AT-D

NV_CLE

HIGH: VCCIO TERMINATION

USB0: RESERVED
USB1: SYSTEM PORT 2 (To system port)
USB2: HALF MINICARD (WLAN)
USB3: FULL MINICARD (WWAN)
USB4: SMART CARD SLOT
USB5: EXPRESS CARD SLOT
USB6: RESERVED
USB7: RESERVED
USB8: TOUCH PANEL
USB9: SYSTEM PORT 1 (To USB AO)
USB10: FPR (TOUCH PAD)
USB11: BLUETOOTH
USB12: DOCKING
USB13: USB CAMERA (LCD)

VCC3M

R88
R8925
R254
R260
R96
R266
R261

C33
B33

A14
K20
B17
C16
L16
A16
D14
C14

-USB_PORT1_OC1 42
SMB_3B_EN 71
-USB_PORT9_OC5 42
DRAMRST_GATE 4

<Variant Name>

緯創資通

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

Title

PCH (5/9):PCI/USB/NVRAM

Size

Document Number

SHINAI-3 SWG

Rev

SB

Date: Tuesday, September 07, 2010

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TABLE

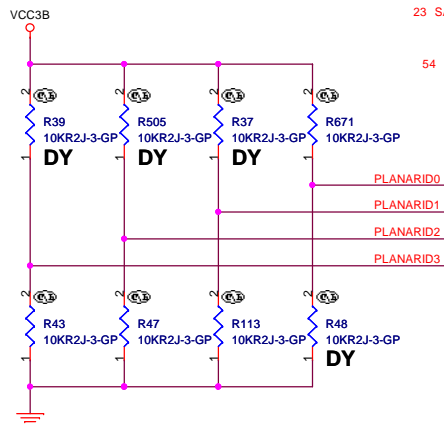
GPIO15: ME CRYPTO STRAP
HIGH: WITH CONFIDENTIALITY
LOW: NO CONFIDENTIALITY

TABLE

GPIO8: INTEGRATED
HIGH: DISABLED(BTM)
LOW: ENABLED(FCIM)

TABLE

DGFX_VRAM_ID
HIGH: 1GB
LOW: 2GB

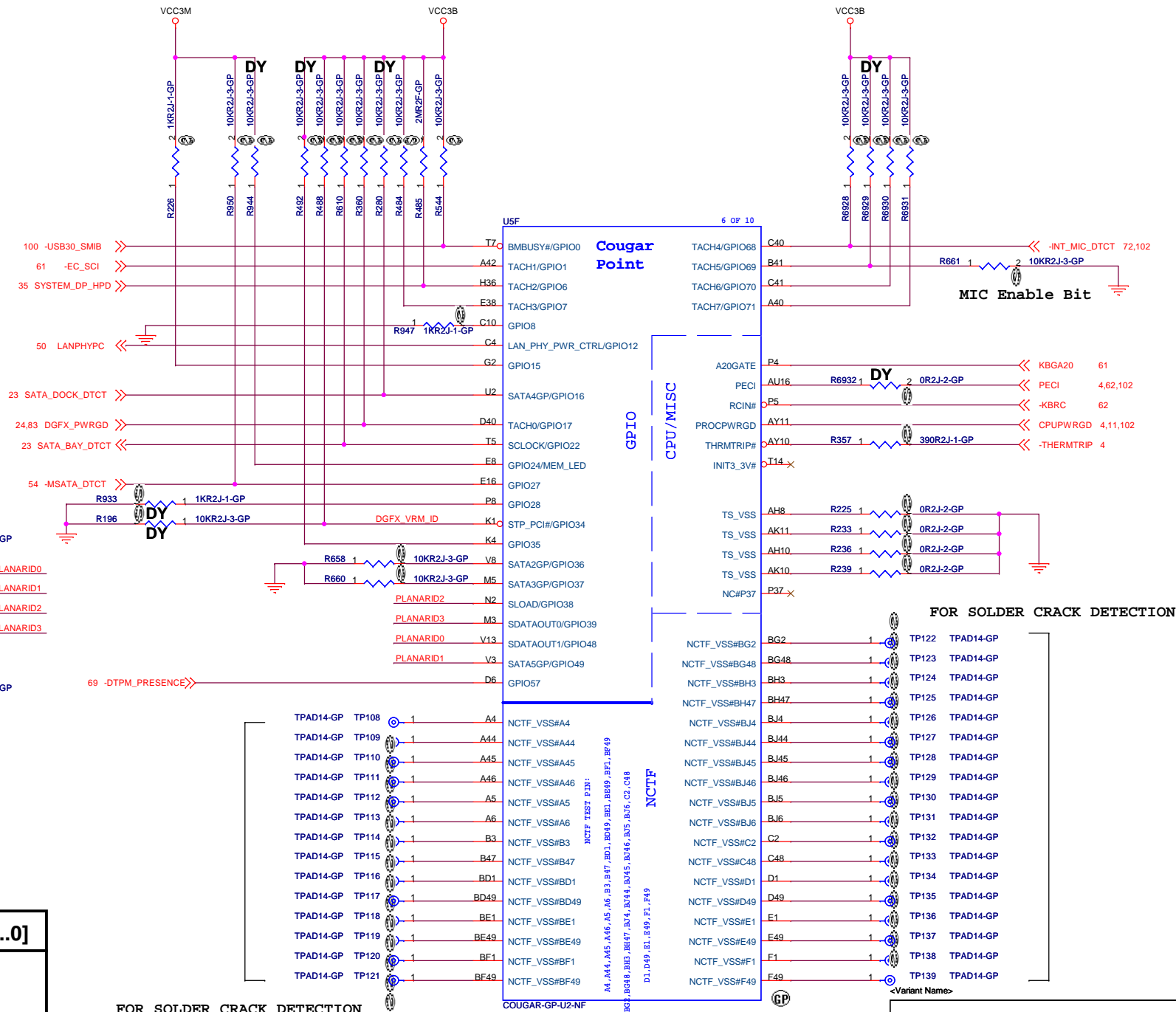


TABLE

LEVEL	PLANAR ID			
	3	2	1	0
1	R39	R505	R37	R671
0	R43	R47	R113	R48

LEVEL PLANARID[3..0]

PDV 0000B
FVT 0001B

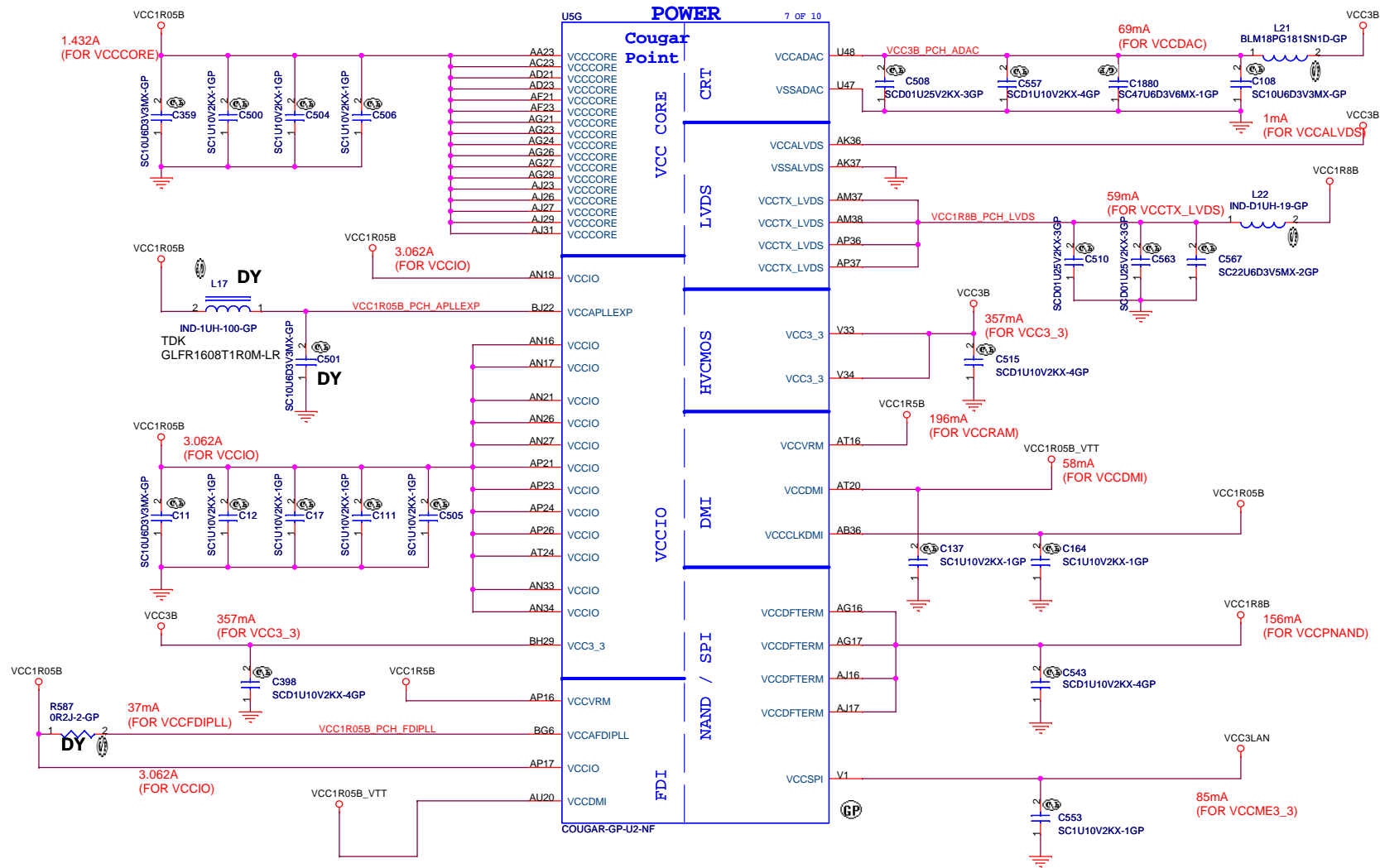


FOR SOLDER CRACK DETECTION

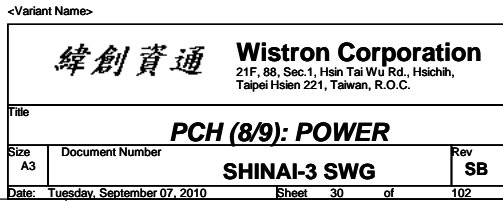
緯創資通 Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

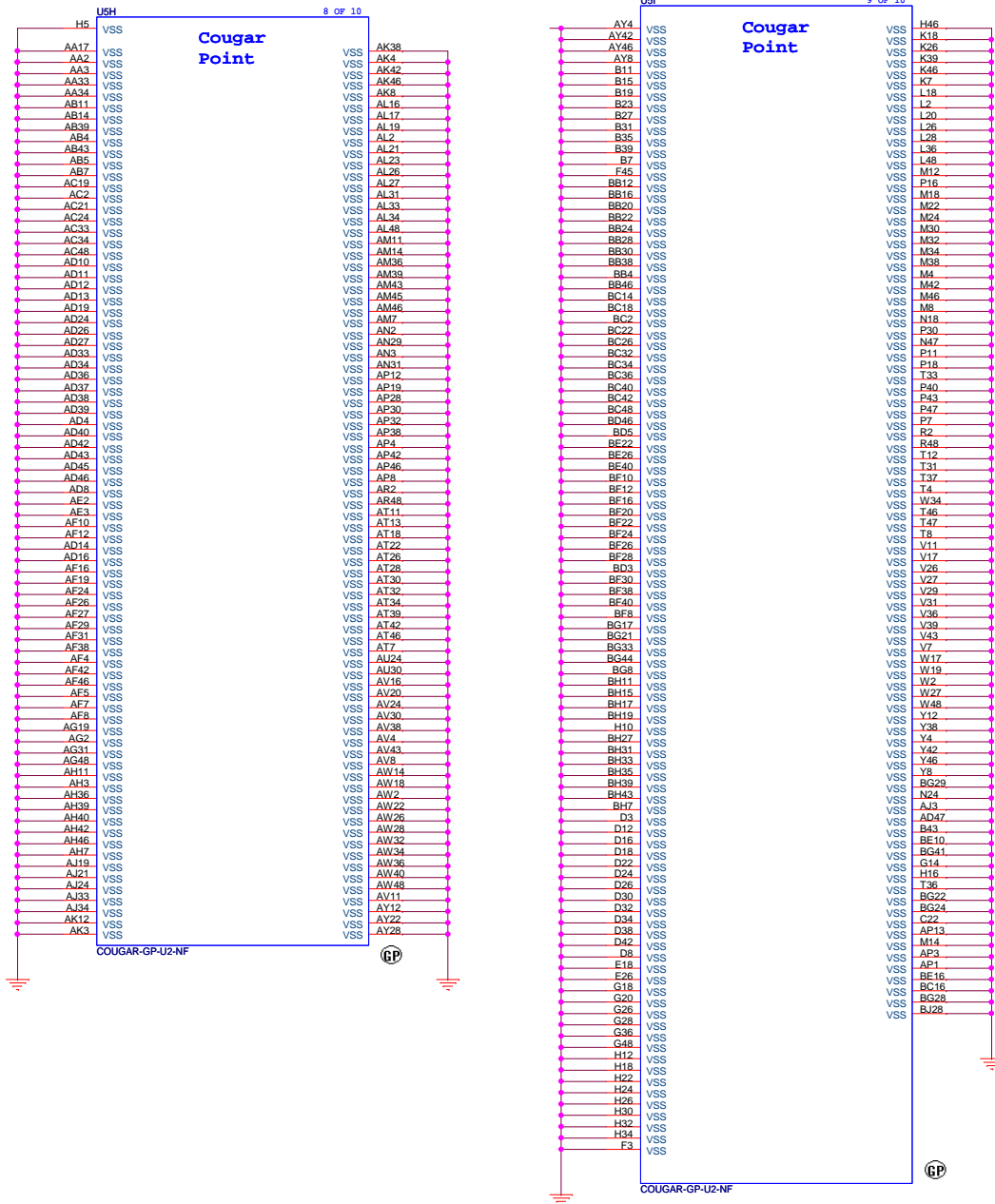
Title PCH (6/9):GPIO/NCTF/RSVD

Size A3 Document Number SHINAI-3 SWG Rev SB
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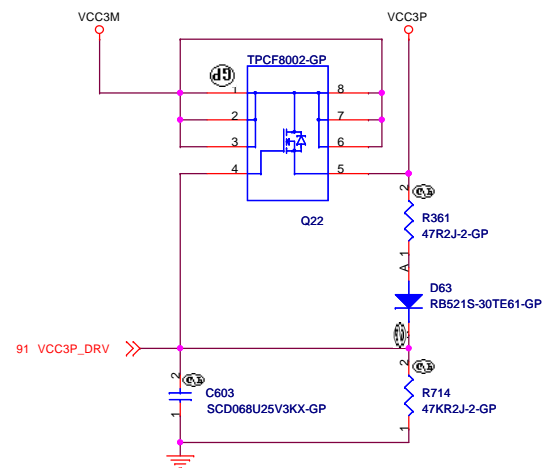
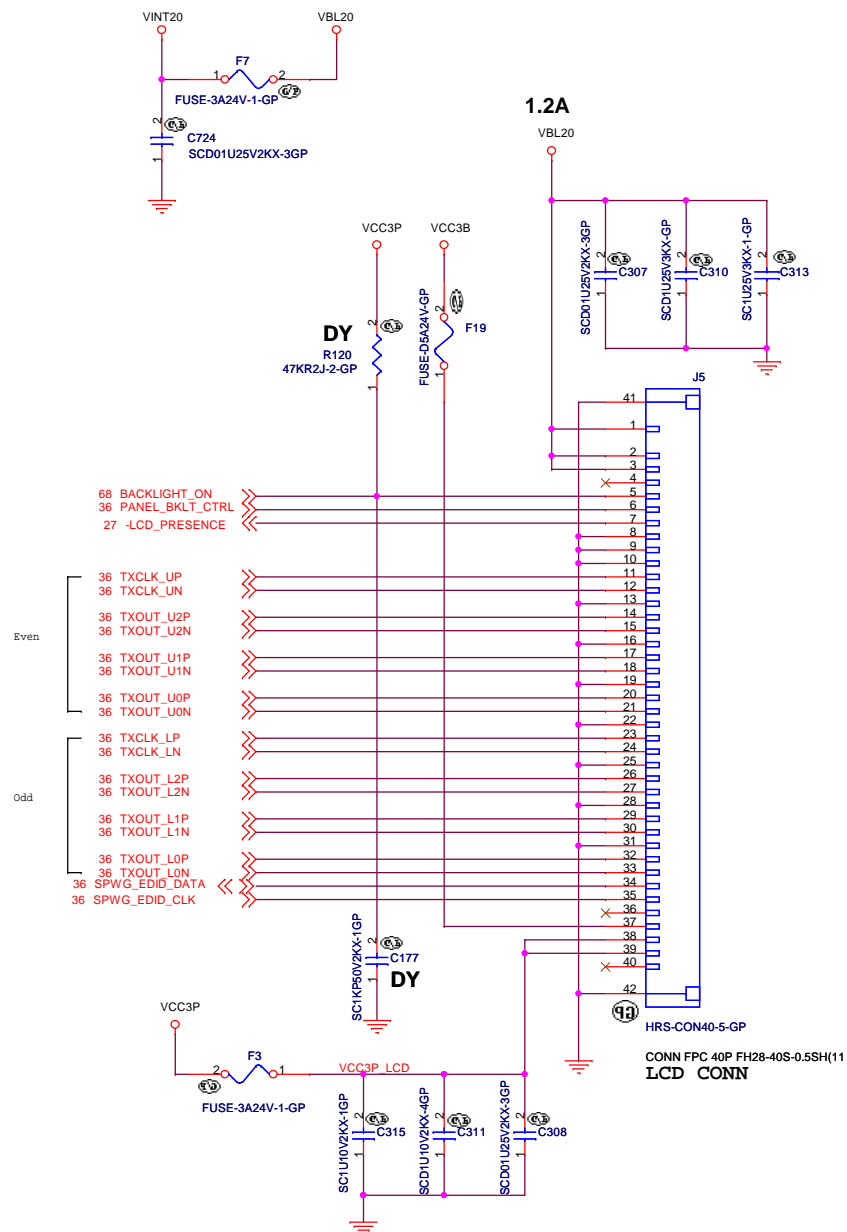


<Variant Name>





LCD / Inverter Connector



<Variant Name>

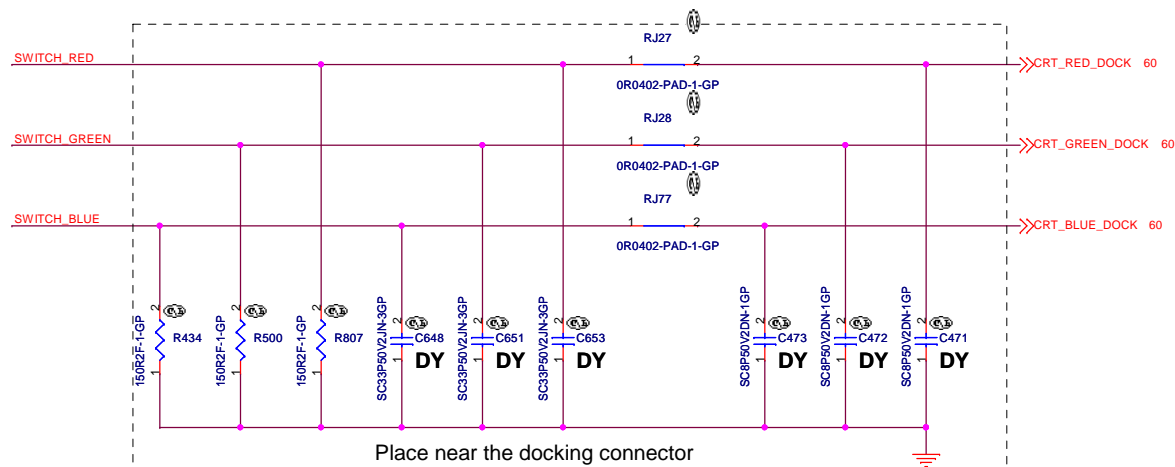
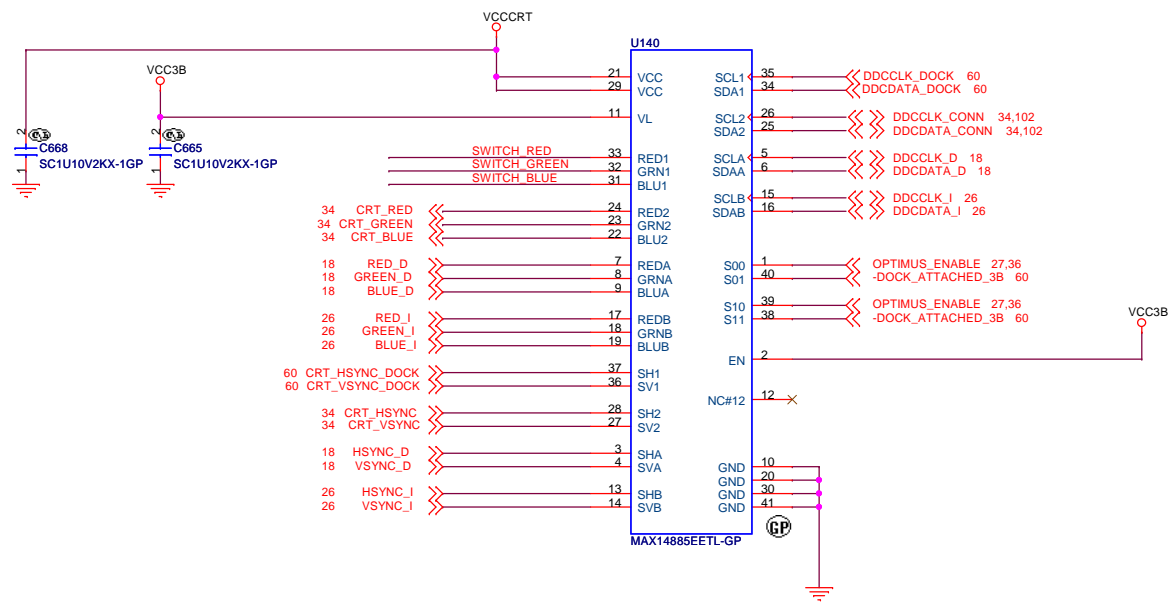
緯創資通 **Wistron Corporation**
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title _____

LCD CONNECTOR

Size A3	Document Number SHINAL-3 SWG	Rev SB
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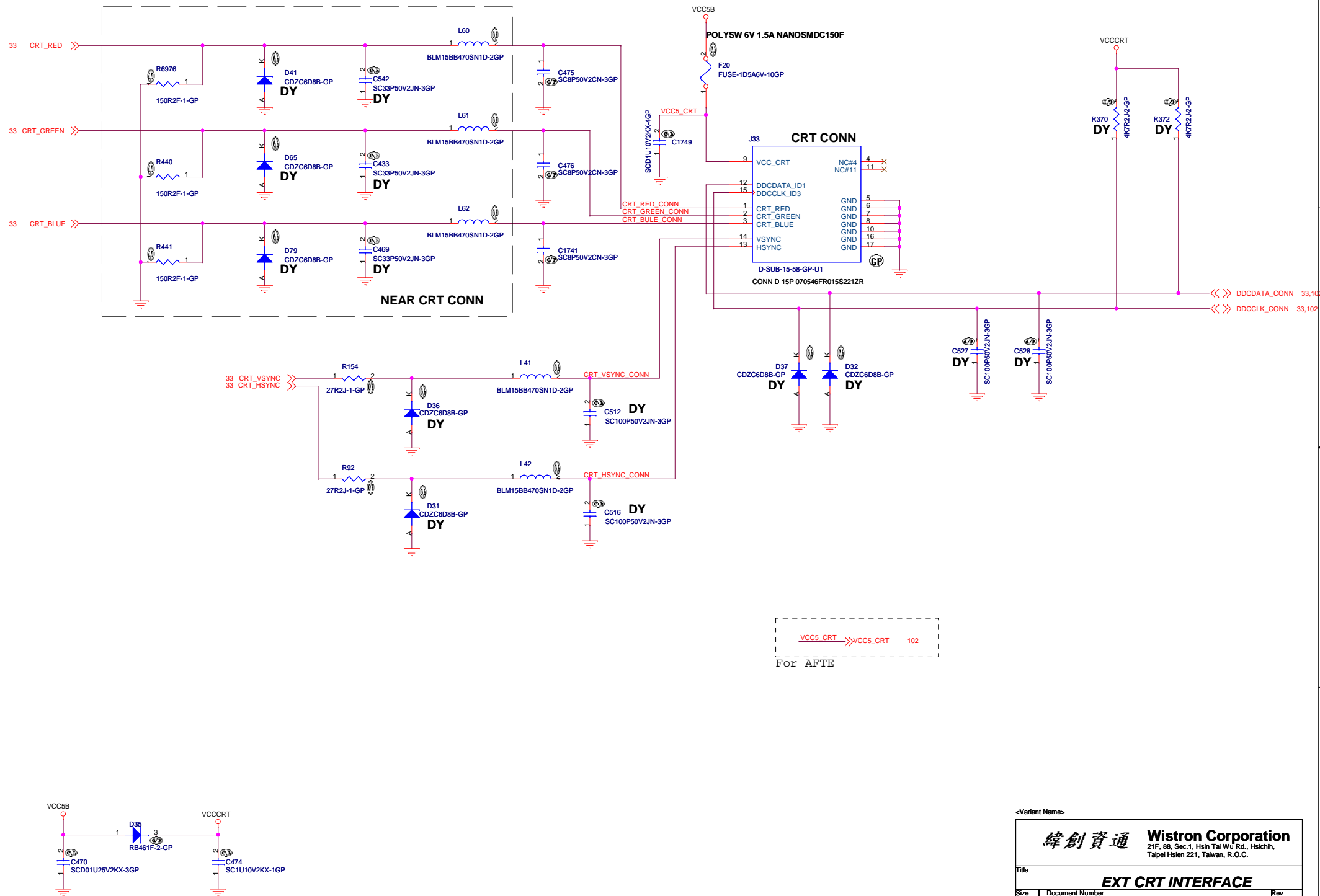
Date: Tuesday, September 07, 2010 Sheet 32 of 102

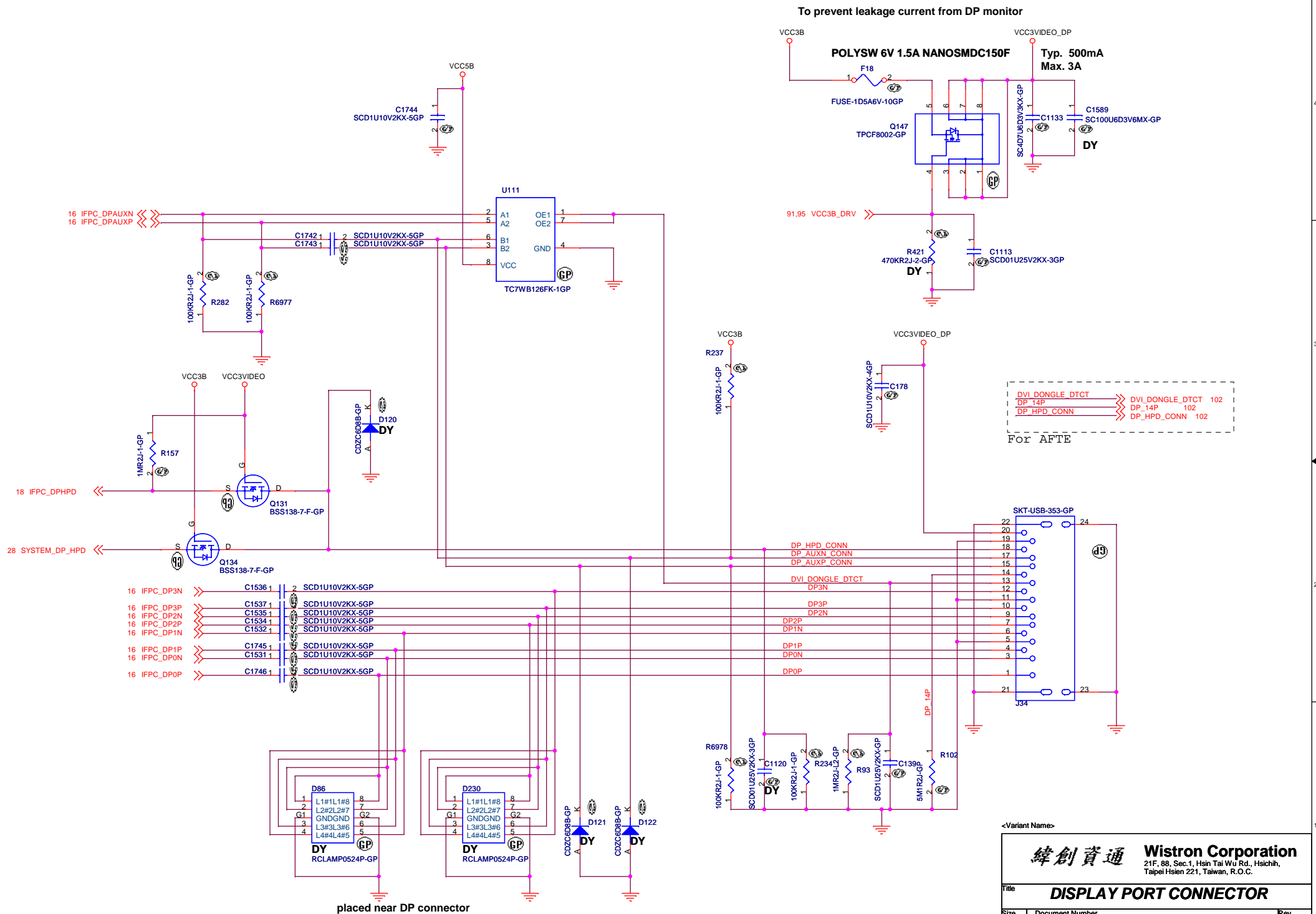


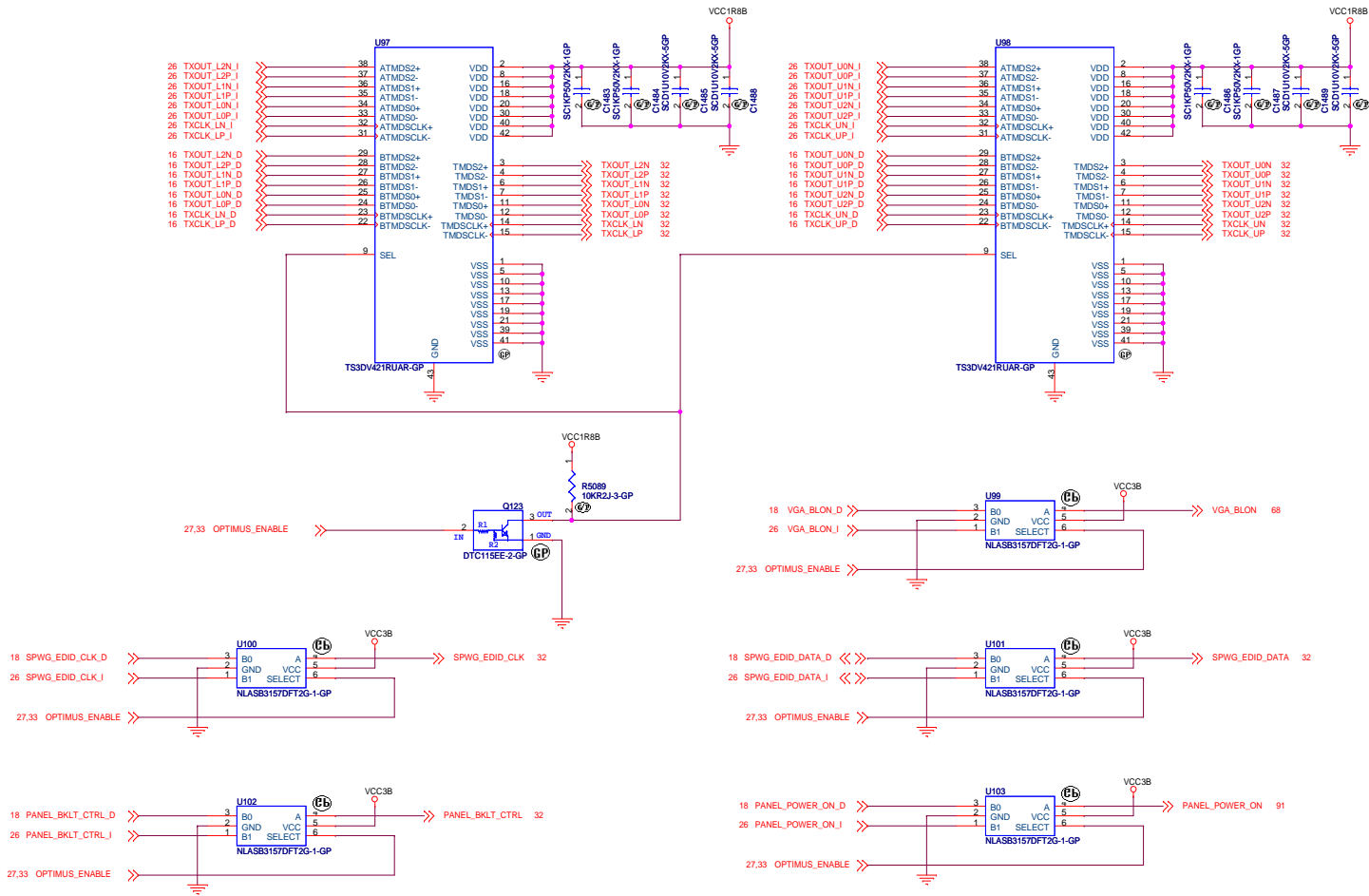
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緯創資通 **Wistron Corporation**
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title			RGB SWITCH	
Size	Document Number	Rev		
A3		SHINAI-3 SWG		SB
Date: Tuesday, September 07, 2010		Sheet	33	of 102



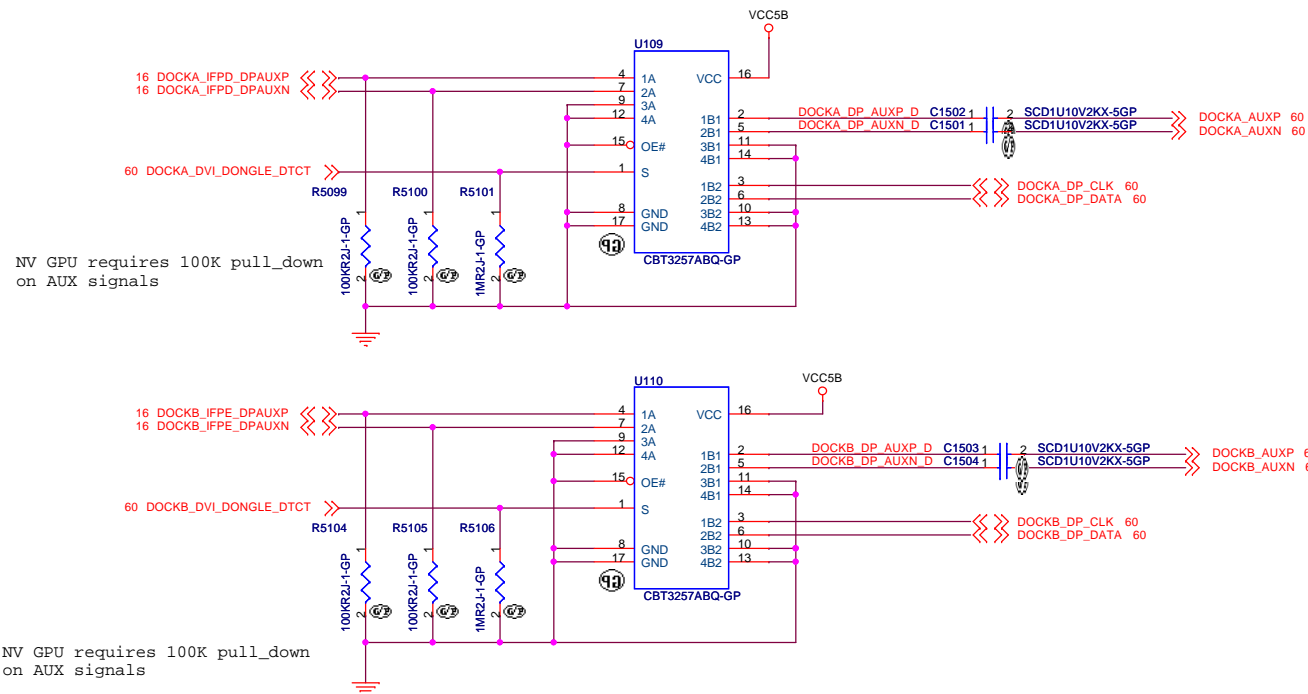
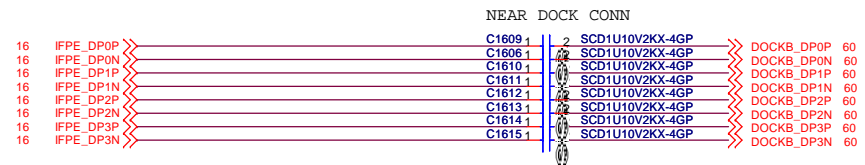
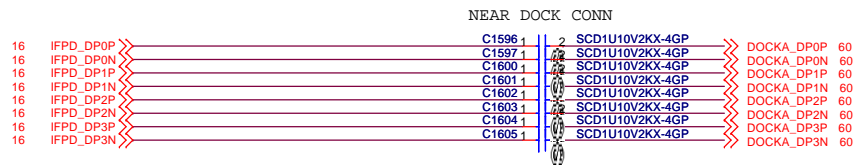
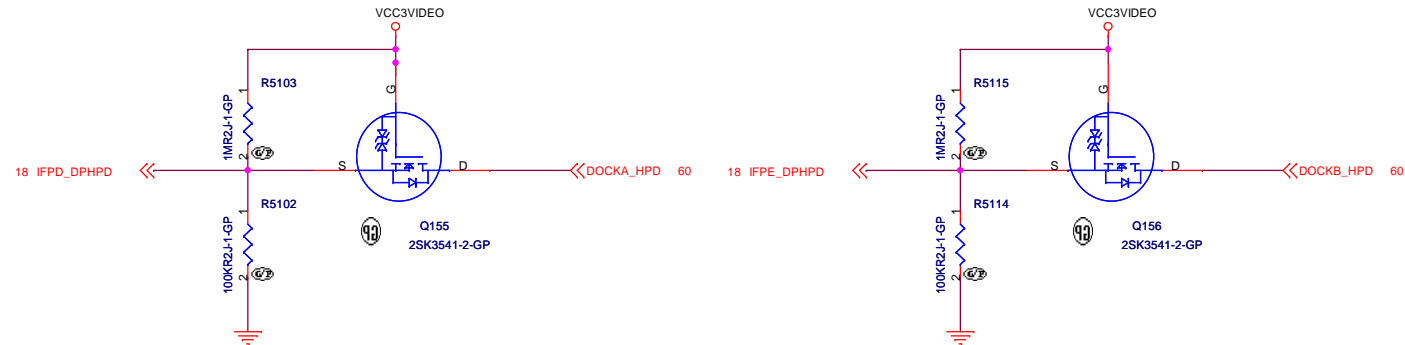




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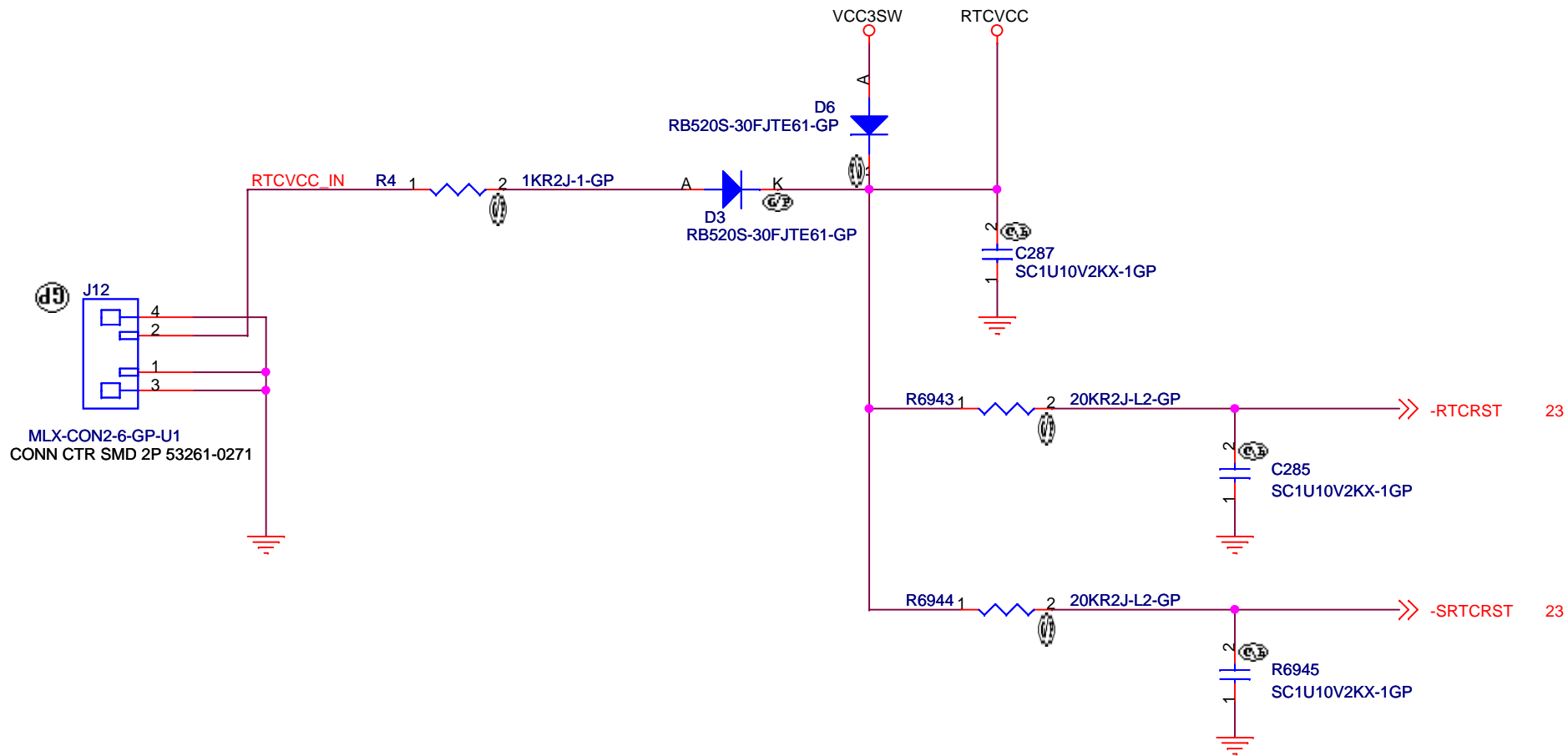
緯創資通 Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

File			LVDS SWITCH
Size	Document Number	SHINAI-3 SWG	
C		Rev	SB
Date:	Tuesday, September 07, 2010	Sheet	36 of 102



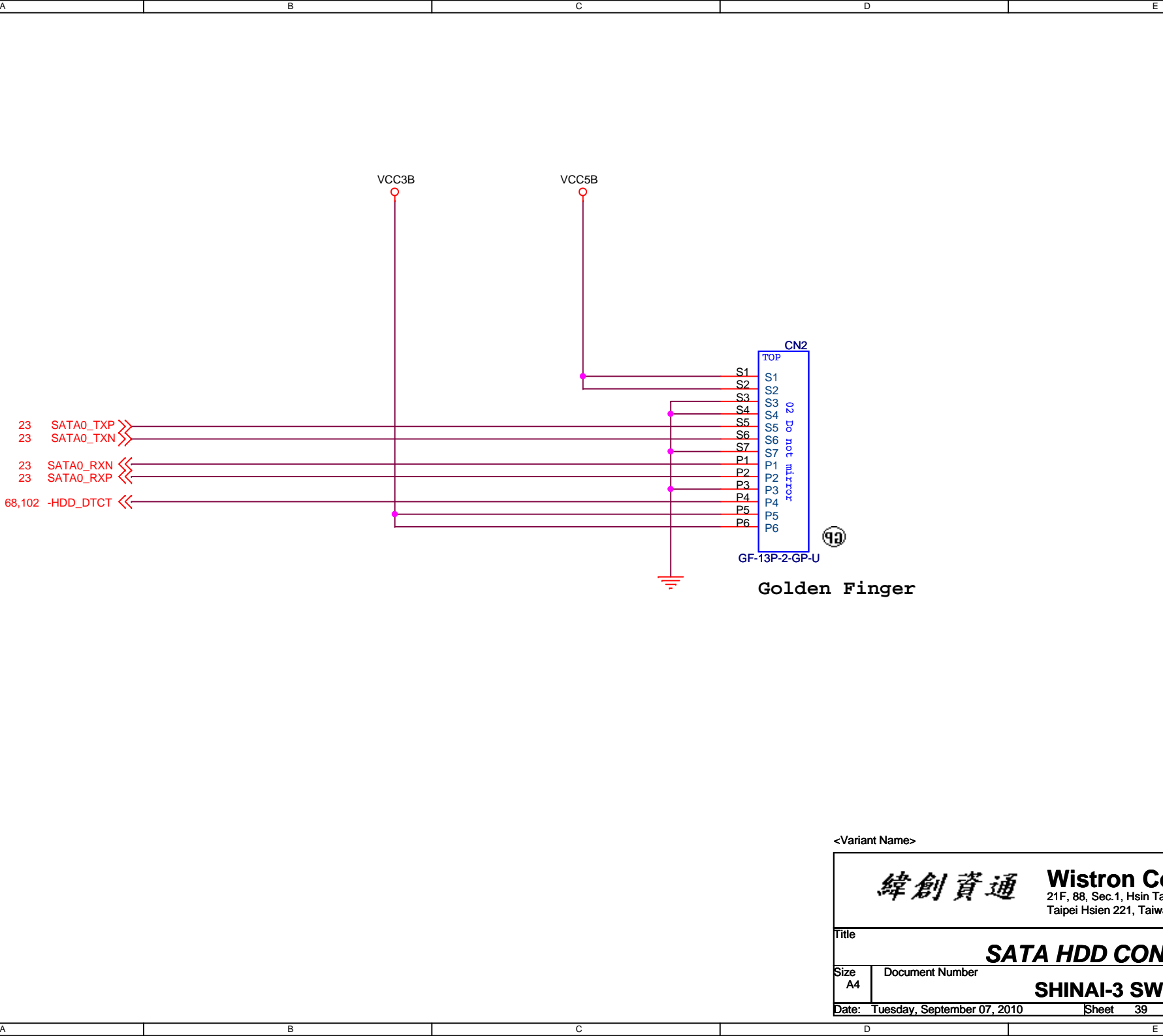
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NXP	CBT3257ABQ-GP	45K0213AA
ONSEMI	74FST3257MNTWG-GP	45K0213BA

INPUTS		INPUT/OUTPUT	FUNCTION
OE#	S	A	
L	L	B1	A port = B1 port
L	H	B2	A port = B2 port
H	X	Z	Disconnect



<Variant Name>

<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	
RTC BATTERY	
Size A	<div>Document Number</div> <div>SHINAI-3 SWG</div>
	Rev SB
Date: Tuesday, September 07, 2010	Sheet 38 of 102

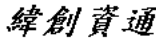


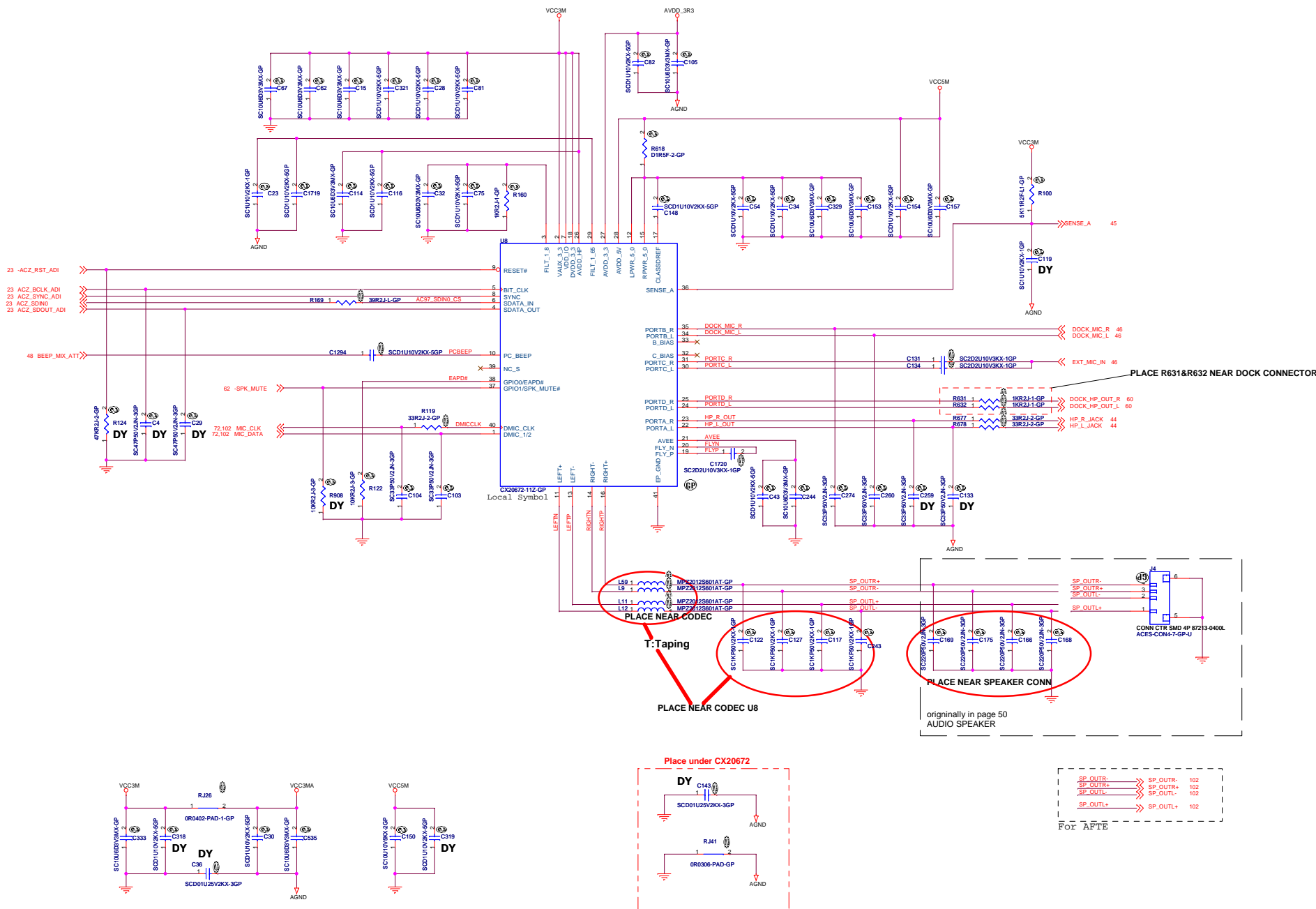
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		21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title					
SATA HDD CONN					
Size	Document Number		Rev		
A4	SHINAI-3 SWG		SB		
Date:	Tuesday, September 07, 2010	Sheet 39 of	102		

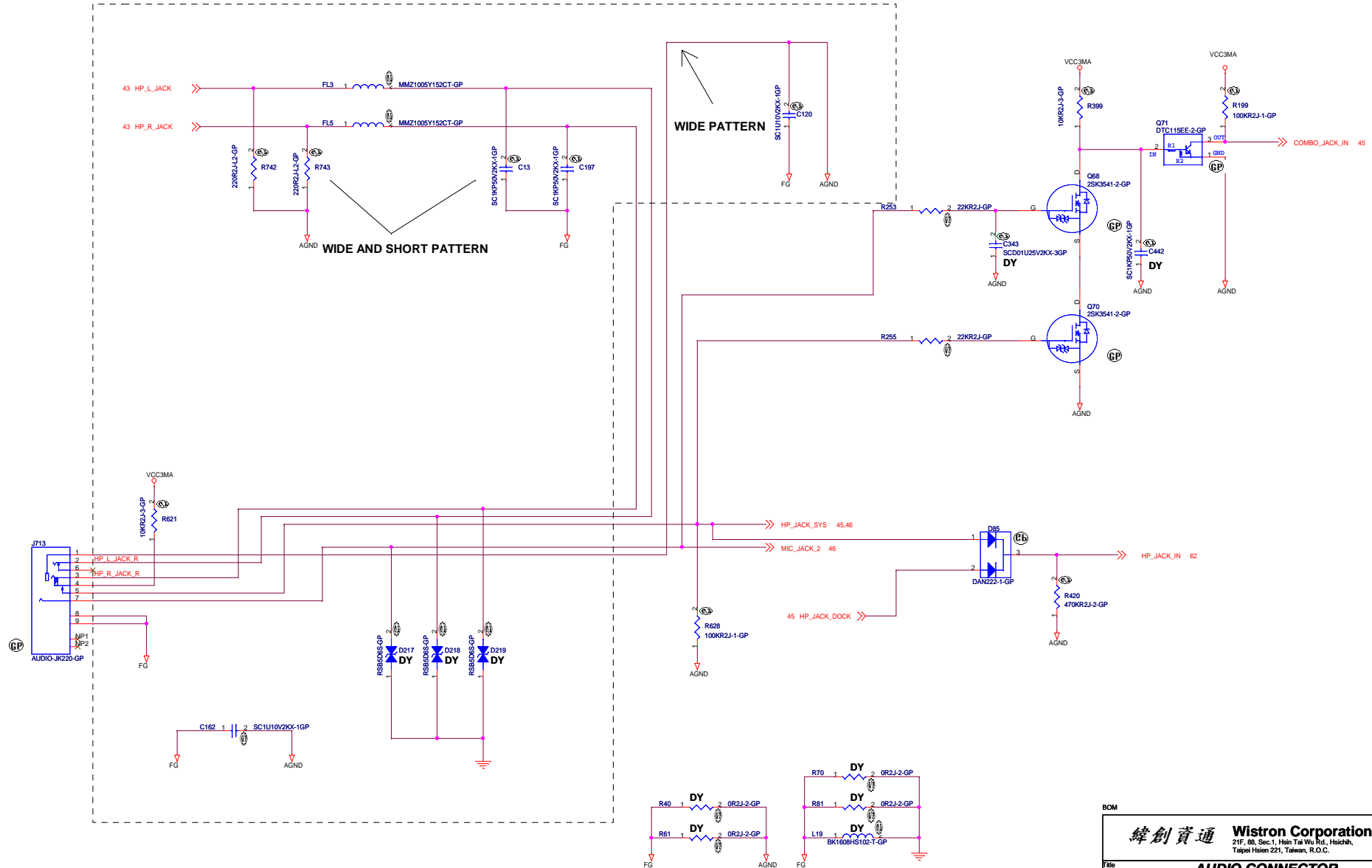
ESATA + USB CONN is not used on SN3

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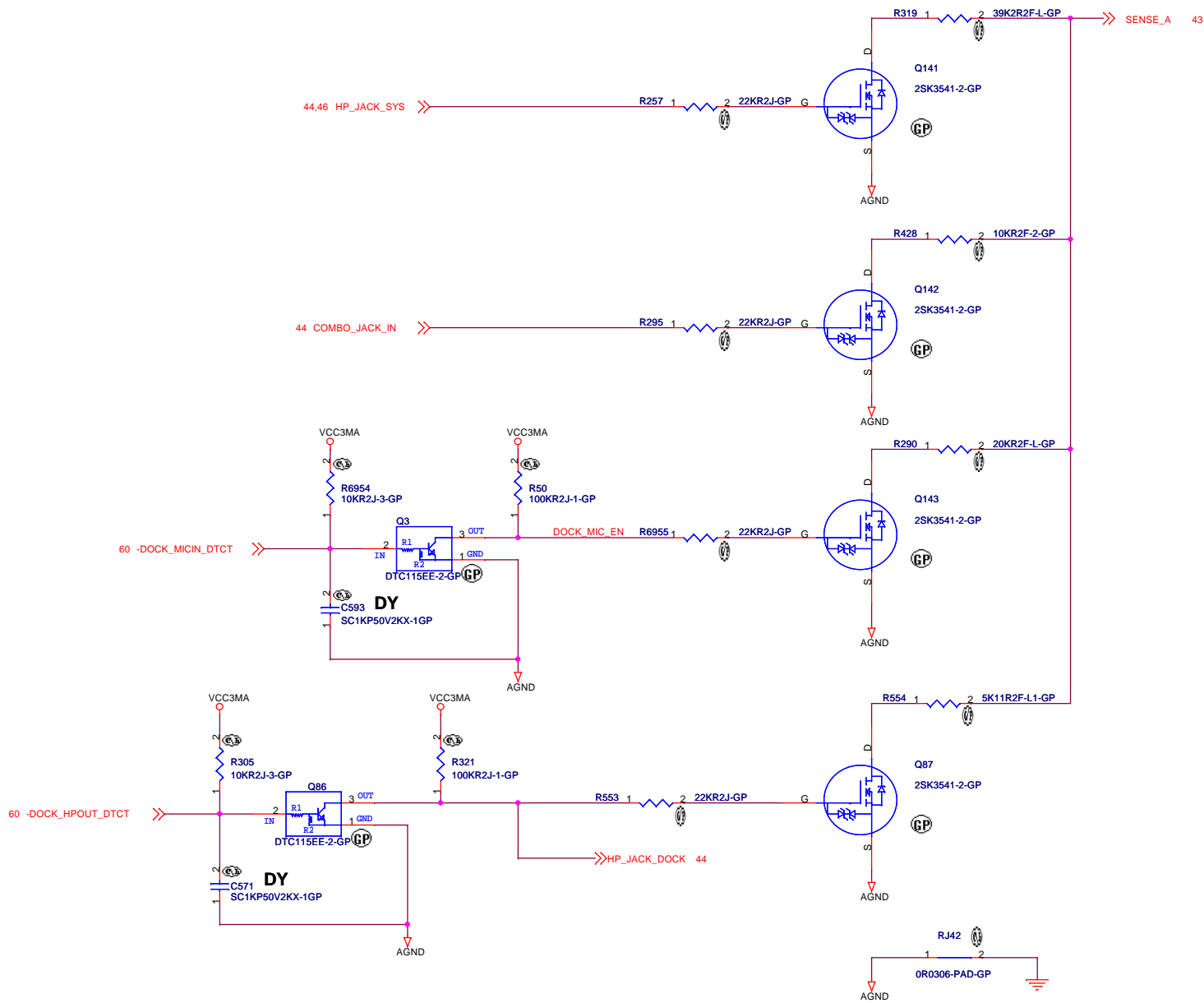
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Title			
ESATA CONNECTOR			
Size A3	Document Number		Rev SB
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NEAR HEADPHONE CONN

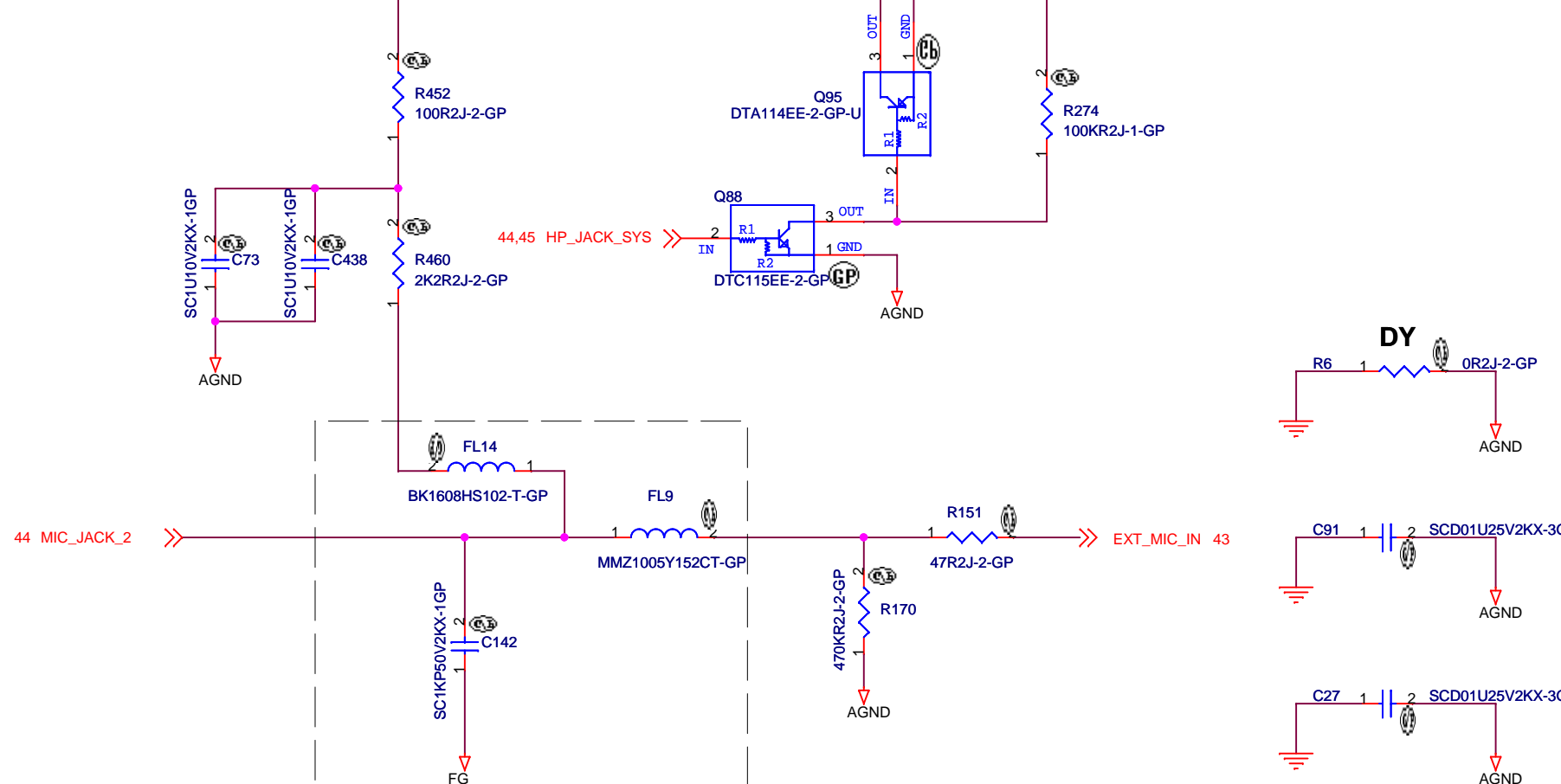


BOM			
緯創資通 Wistron Corporation			
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
File AUDIO CONNECTOR			
Size C	Document Number	SHINAI-3 SWG	Rev SB
Date: Thursday, September 23, 2010 Sheet 44 of 102			

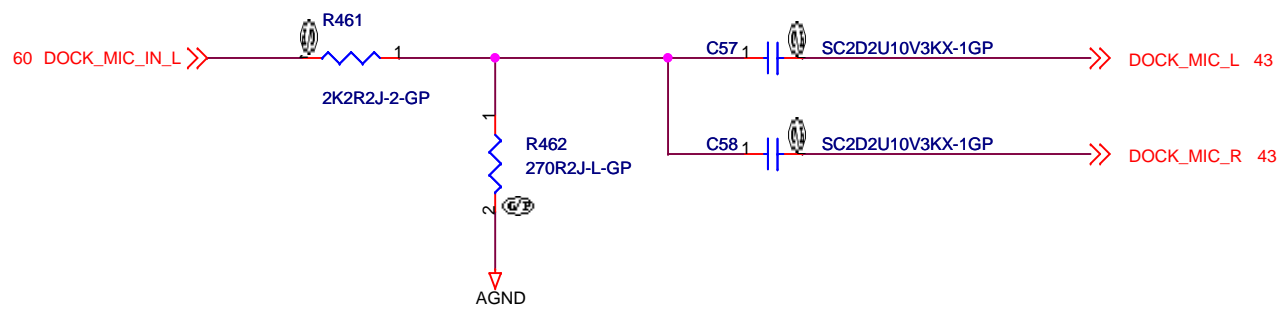


BOM

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 SENSE			
Size A3	Document Number	SHINAI-3 SWG	Rev SB
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NEAR EXT MIC CONN



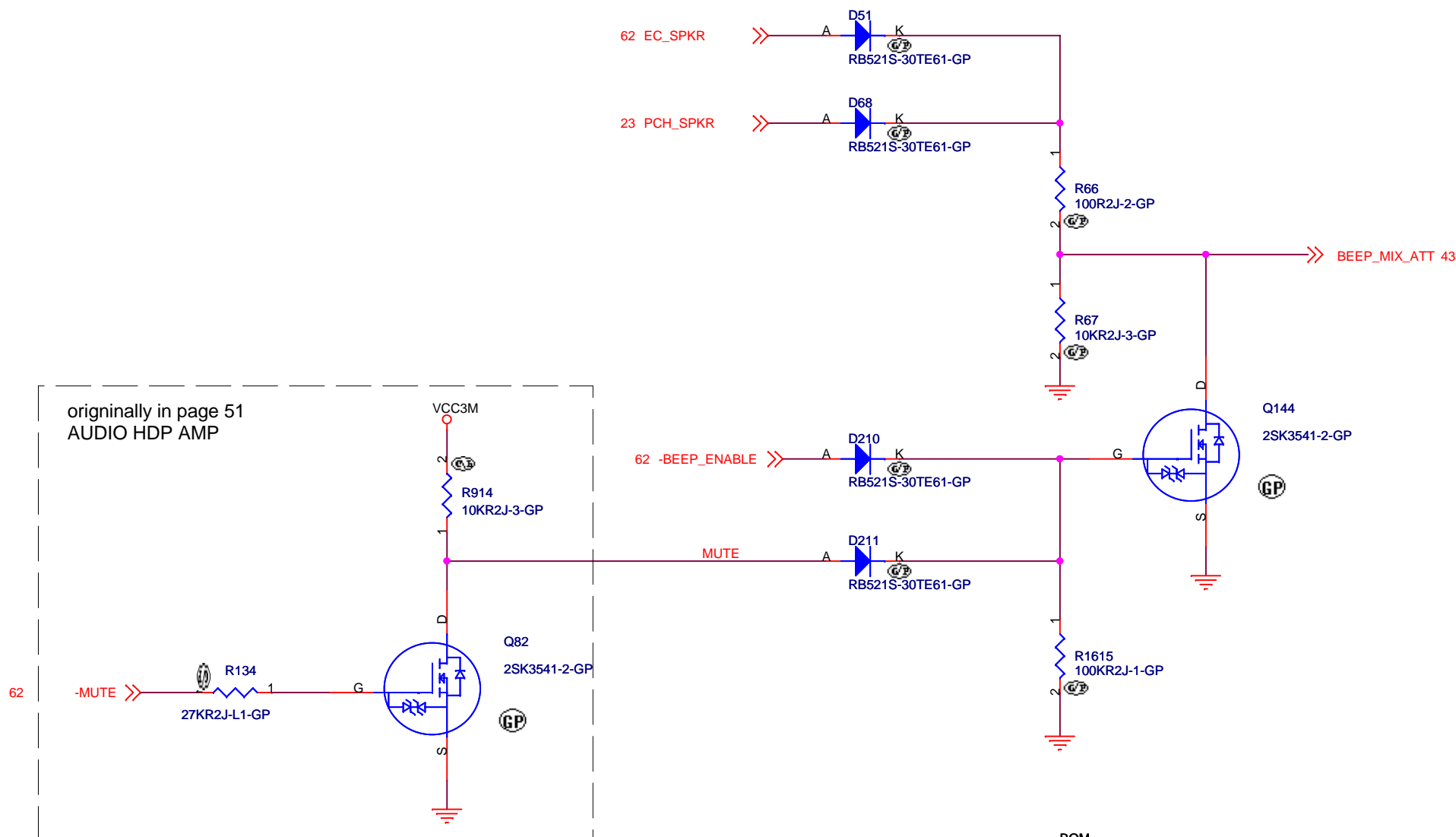
BOM

緯創資通 Wistron Corporation		
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.		
Title AUDIO EXT MIC I/F		
Size A4	Document Number	Rev SB
SHINAI-3 SWG		
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AUDIO SPEAKER
MOVE TO CODEC PAGE

<Variant Name>

<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			
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Size	Document Number		Rev
A4	SHINAI-3 SWG		SB
Date:	Tuesday, September 07, 2010	Sheet 47 of	102



BOM

緯創資通

Wistron Corporation

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

Title

AUDIO BEEP

Size
A4

Document Number

SHINAI-3 SWG

Rev
SB

Date: Tuesday, September 07, 2010

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D

C

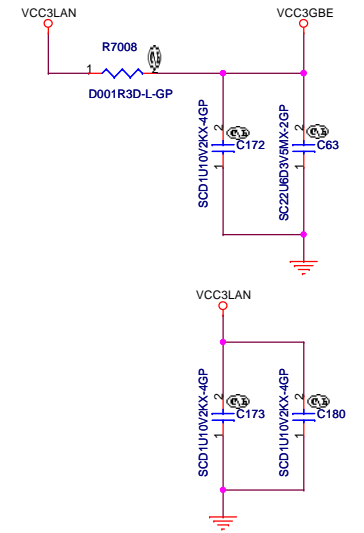
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A

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Title <div>BLANK</div>		
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Date: Tuesday, September 07, 2010		
Sheet 49 of 102		

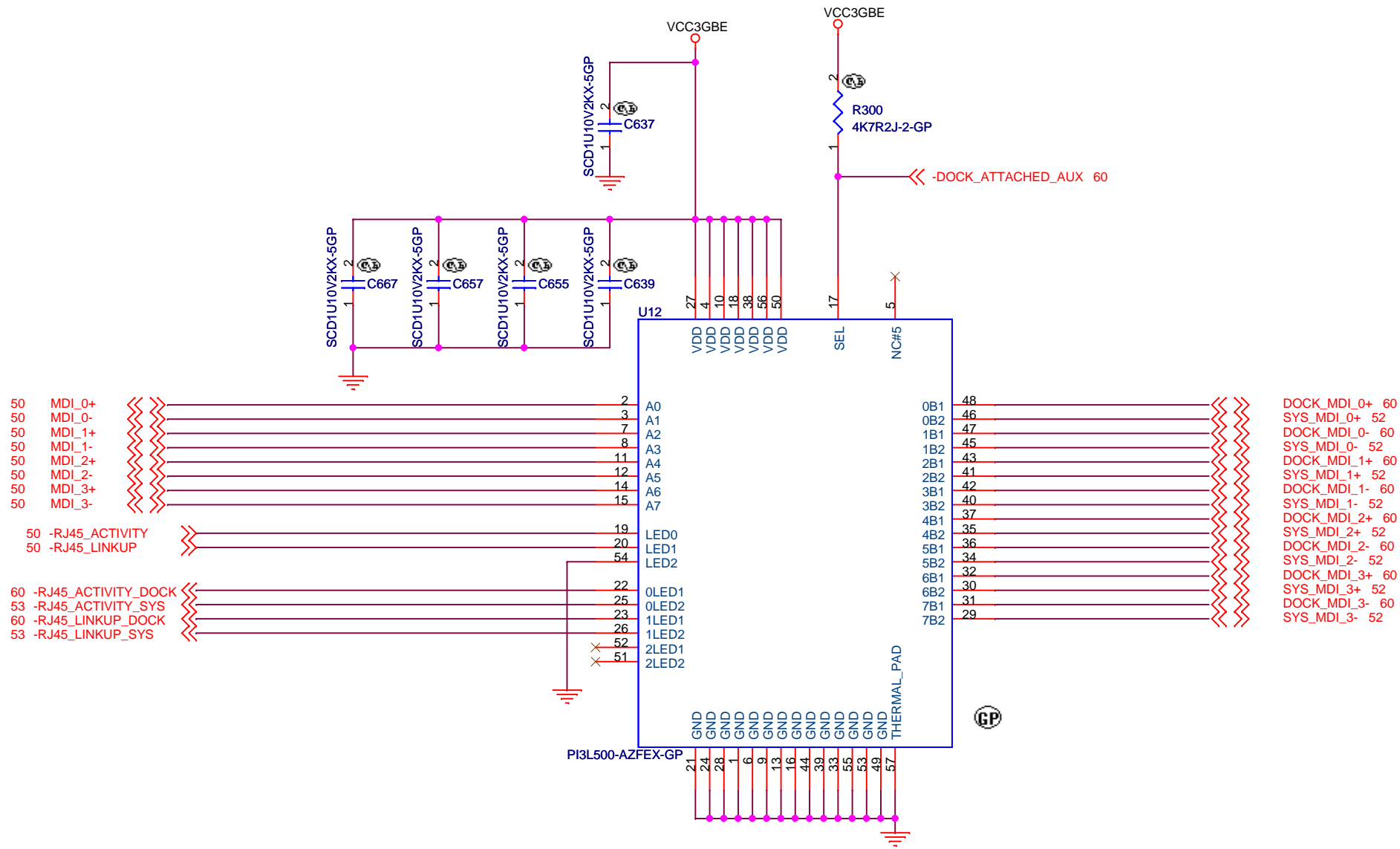


LOGIC

KEEP SHORT AND WIDE PATTERN

	L18	R918
SHARED WITH PCH VCC1R05LAN SVR	NO ASM	ASM
ISVR	ASM	NO ASM

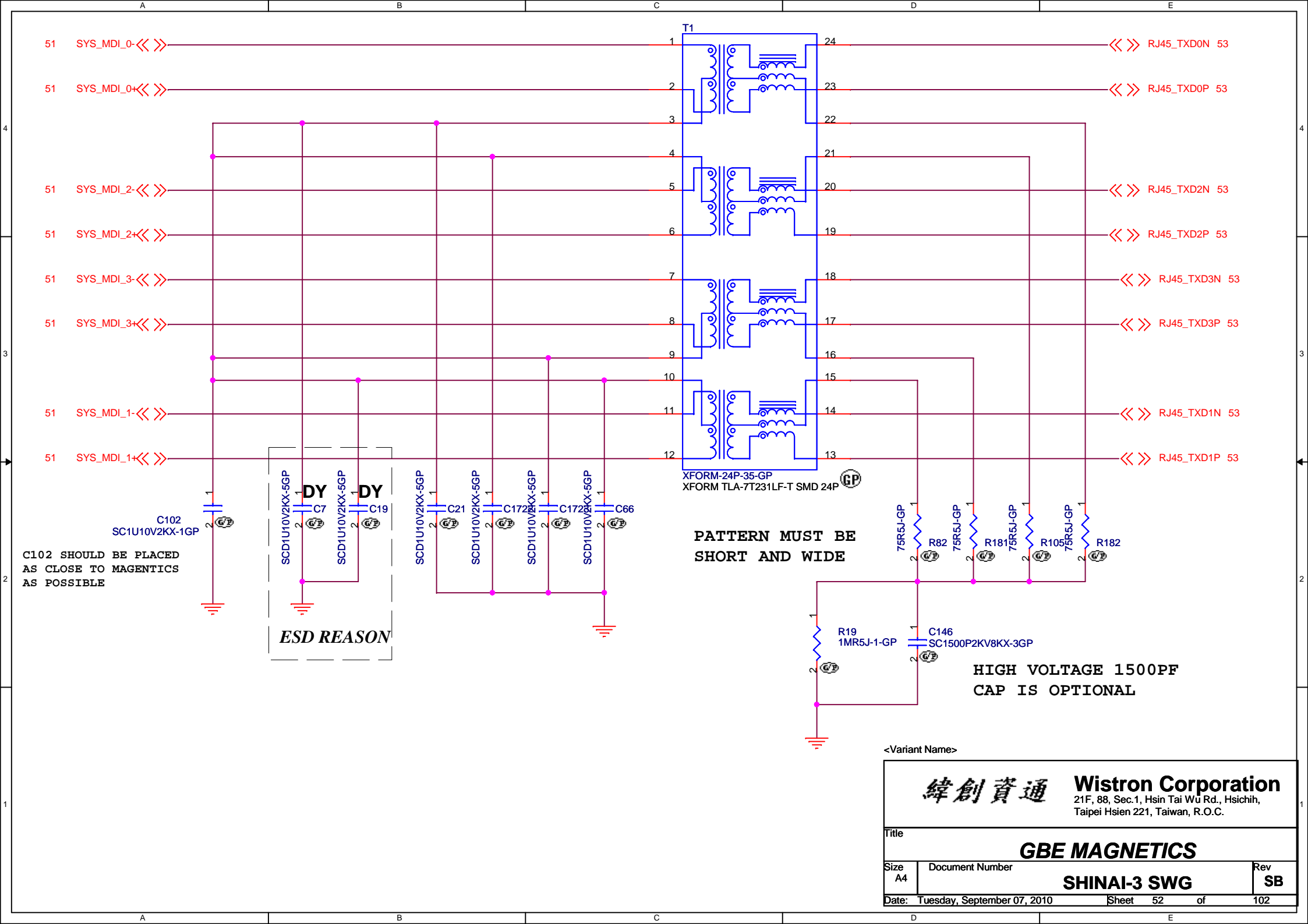
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Title			
GBE LEWISSVILLE			
Size A3	Document Number	SHINAI-3 SWG	Rev SB
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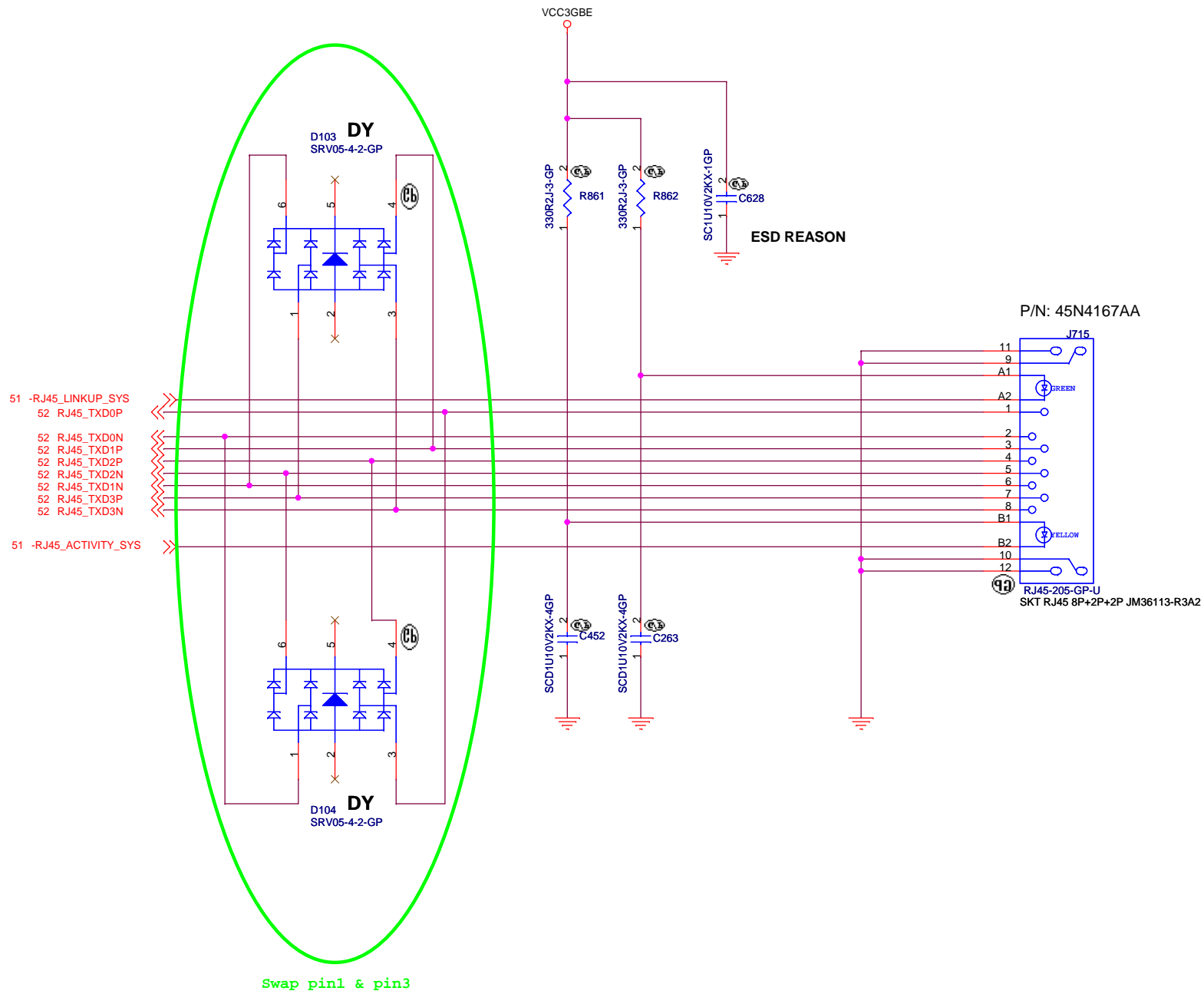


[Source Cadidate]			
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2nd	TI	TS3L500AERHUR	41R0539BA

<Variant Name>

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

RJ45 CONN

Size
A4

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4.1H CONNECTOR



7.0H CONNECTOR



WWAN CONSTANT CONNECT	W/WWAN VER.2	W/WWAN VER.1/NO	W/O WWAN NO
J22	ASM	ASM	NO_ASM
J25	ASM	ASM	NO_ASM
C1118	ASM	ASM	NO_ASM
C1119	ASM	ASM	NO_ASM
R1066	ASM	ASM	NO_ASM
C623	ASM	ASM	NO_ASM
D21	ASM	ASM	NO_ASM
U83	ASM	NO_ASM	NO_ASM
R629	NO_ASM	ASM	NO_ASM
R651	NO_ASM	ASM	NO_ASM

<Variant Name>

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

Size	Document Number	Rev
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<Variant Name>

緯創資通

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

Title

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Size
B

Document Number

SHINAI-3 SWG

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SB

Date: Tuesday, September 07, 2010

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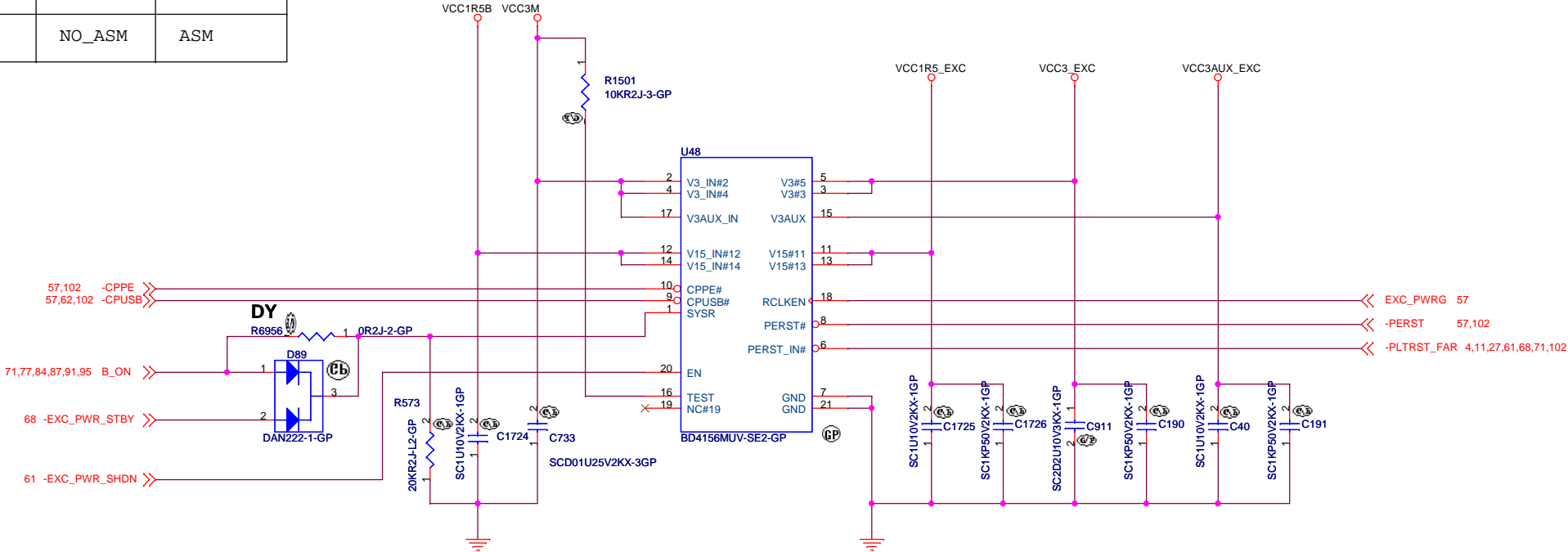
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<div>21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,</div>		<div>Taipei Hsien 221, Taiwan, R.O.C.</div>	
Title			
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Size	Document Number		Rev
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TABLE

CONSTANT CONNECT	YES	NO
D89	ASM	NO_ASM
R573	ASM	NO_ASM
R6956	NO_ASM	ASM



TABLE

CONSTANT CONNECT	VER. 2 / VER. 1	NO
U48	BD4156MUV TPS2231MRGPR-3	TPS2231MRGPR-3 BD4156MUV W83L351YG
R1501	ASM	ASM

↑
LOGIC

<Variant Name>

緯創資通

Wistron Corporation

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

Title

SLOT POWER CONTRL

Size B

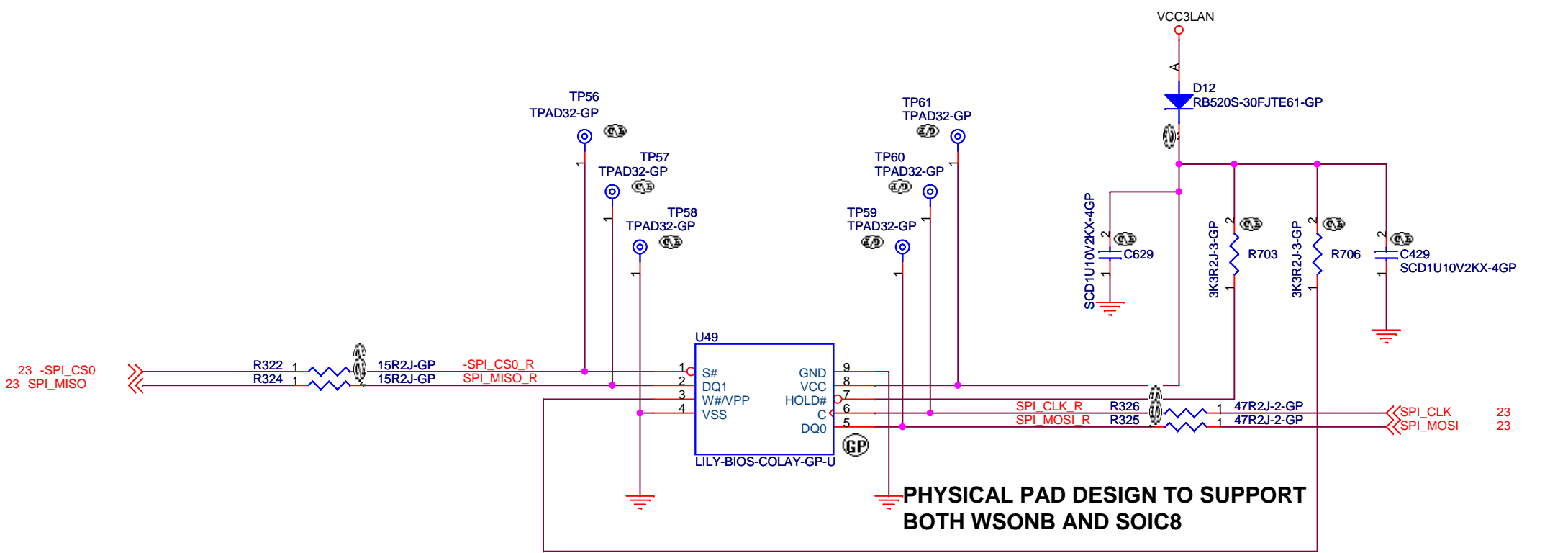
Document Number

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Rev SB

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TABLE

	WISTRON P/N
8MB SOIC8	
MACRONIX MX25L6436EM2I-10G	72.25643.001
MACRONIX MX25L6406EM2I-10G	Wait Wistron PN
WINBAOND W25Q64CVSSIG	72.25Q64.B01
8MB WSON8	
NUMONYX M25PX64-VDM6TG	72.25P64.E01

TABLE

SF100 PIN HEADER IN TERFACE (TOP VIEW)					
1	VCC	D12.1	GND	GND	2
3	CS#	R322.2	R326.2	CLK	4
5	MISO	R324.2	R325.2	MOSI	6
7	(KEY)	N/A	N/A	(RESET)	8

<Variant Name>



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

SPI FLASH

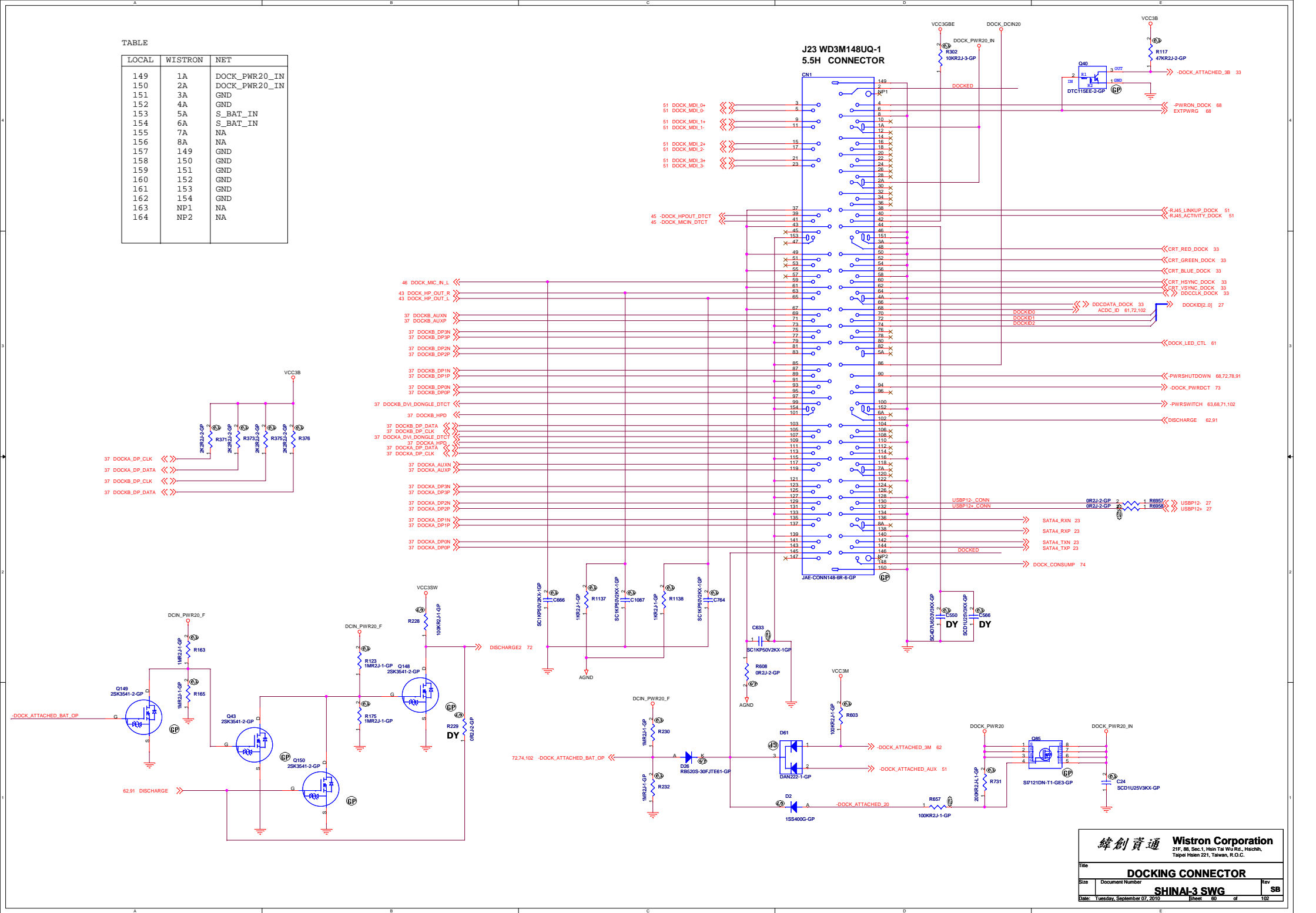
Size
A4

Document Number
SHINAI-3 SWG

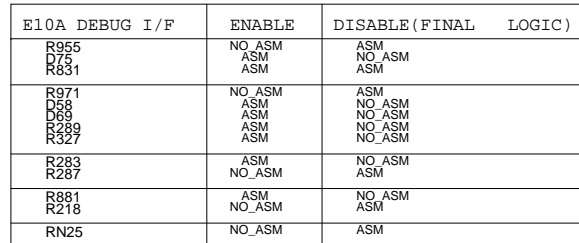
Rev
SB

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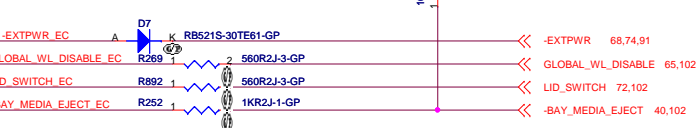
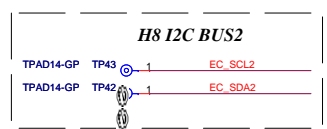
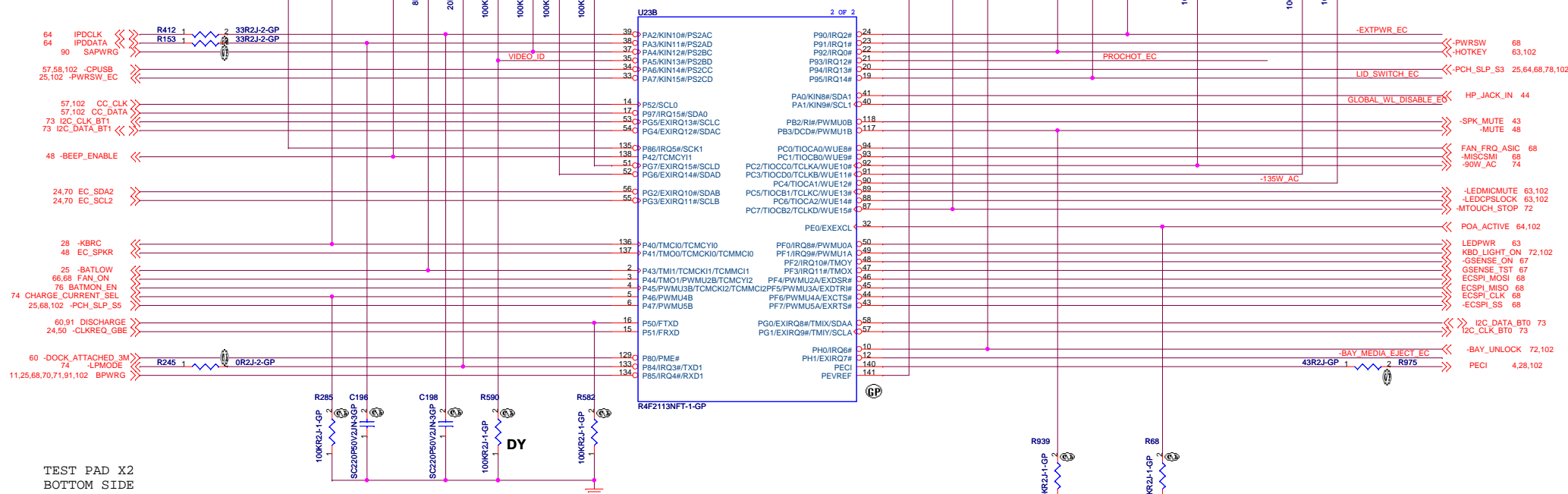
LOCAL	WISTRON	NET
149	1A	DOCK_PWR20_IN
150	2A	DOCK_PWR20_IN
151	3A	GND
152	4A	GND
153	5A	S_BAT_IN
154	6A	S_BAT_IN
155	7A	NA
156	8A	NA
157	149	GND
158	150	GND
159	151	GND
160	152	GND
161	153	GND
162	154	GND
163	NP1	NA
164	NP2	NA



<i>VENDOR</i>	<i>PART</i>	<i>WISTRON P/N</i>
<i>MURATA</i>	<i>CSTCE10M0G55-R0</i>	<i>82.10028.011</i>
<i>TDK</i>	<i>CCR10.0MXC8T</i>	<i>82.10004.051</i>



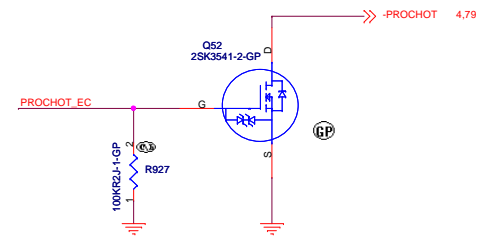
LOGIC



TABLE

GFX	EXT	INT.
R329	ASM	NO_ASM
R590	NO_ASM	ASM

LOGIC



<Variant Name>

緯創資通

Wistron Corporation

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

Title

H8S/2113(2/2)

Size

Custom

Document Number

SHINAI-3 SWG

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Sheet

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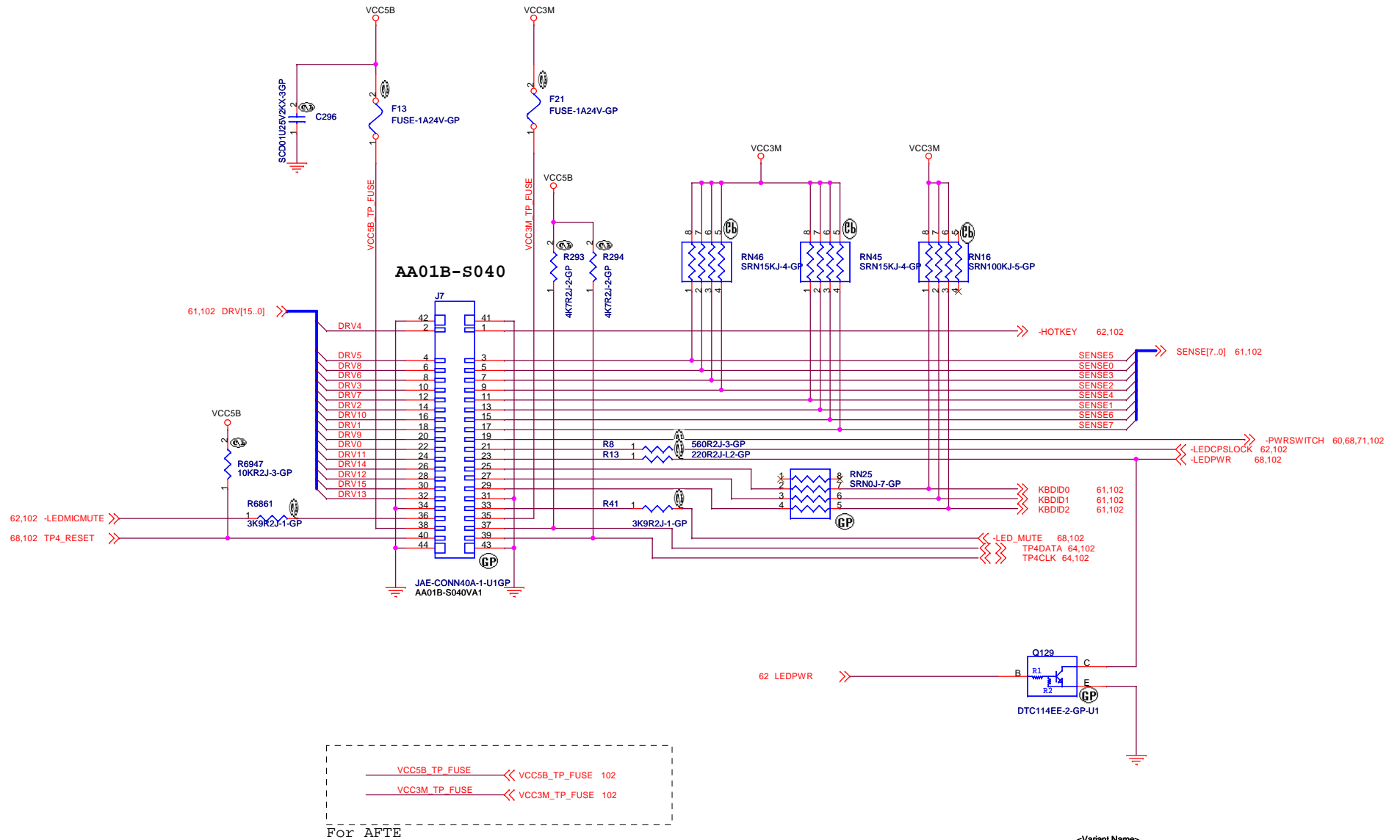
of

102

Rev

SB

Keyboard Connector

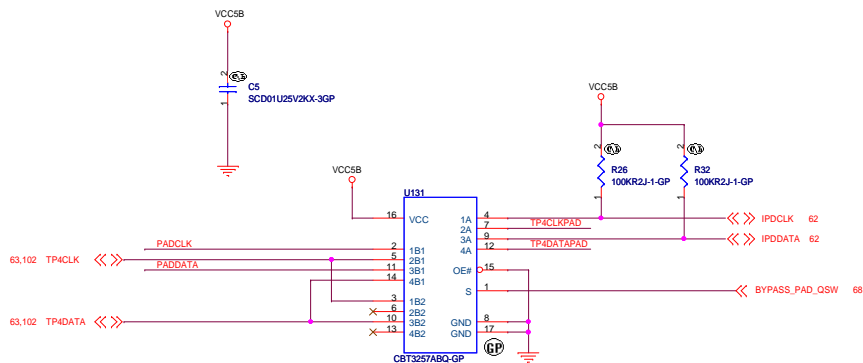
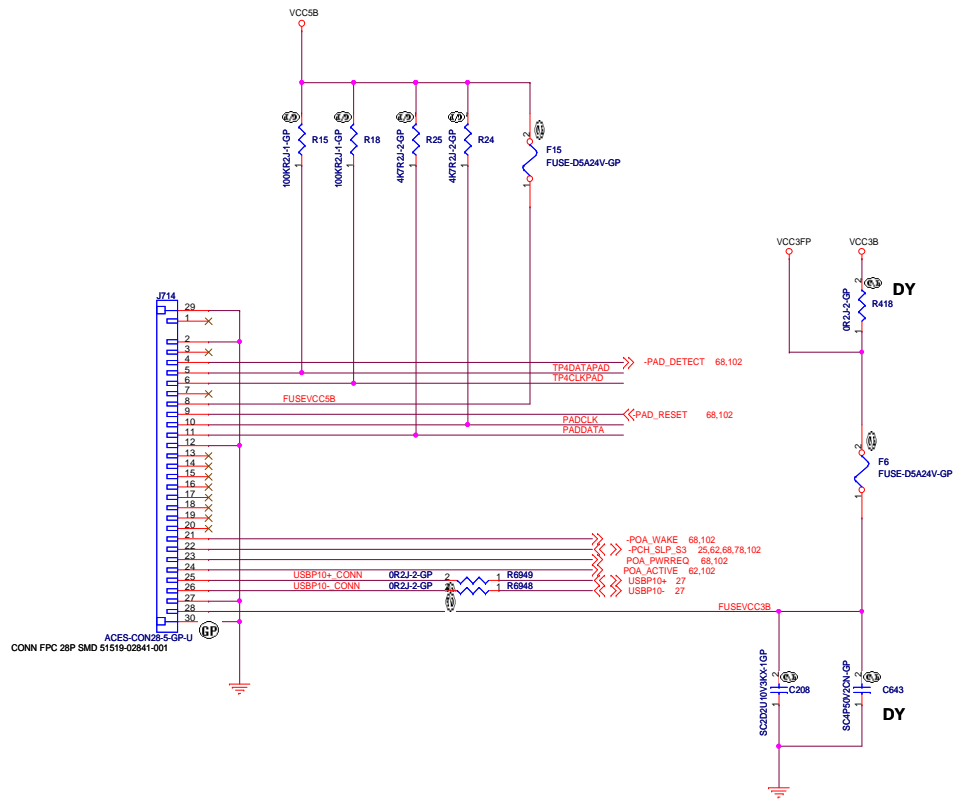


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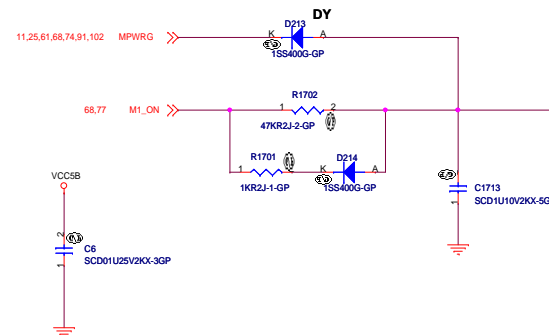
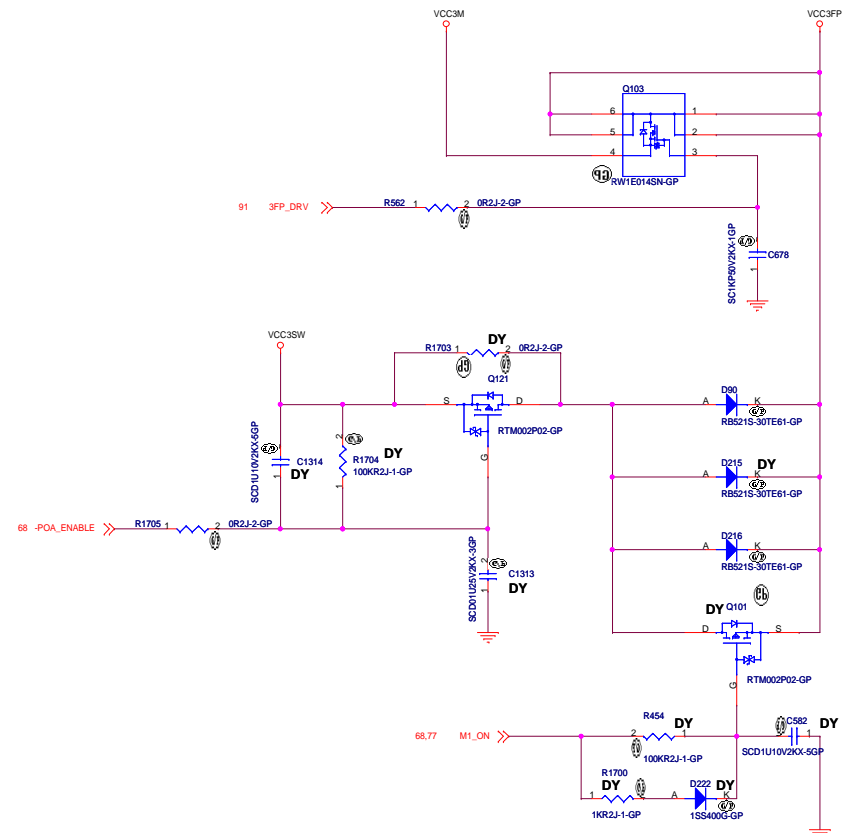
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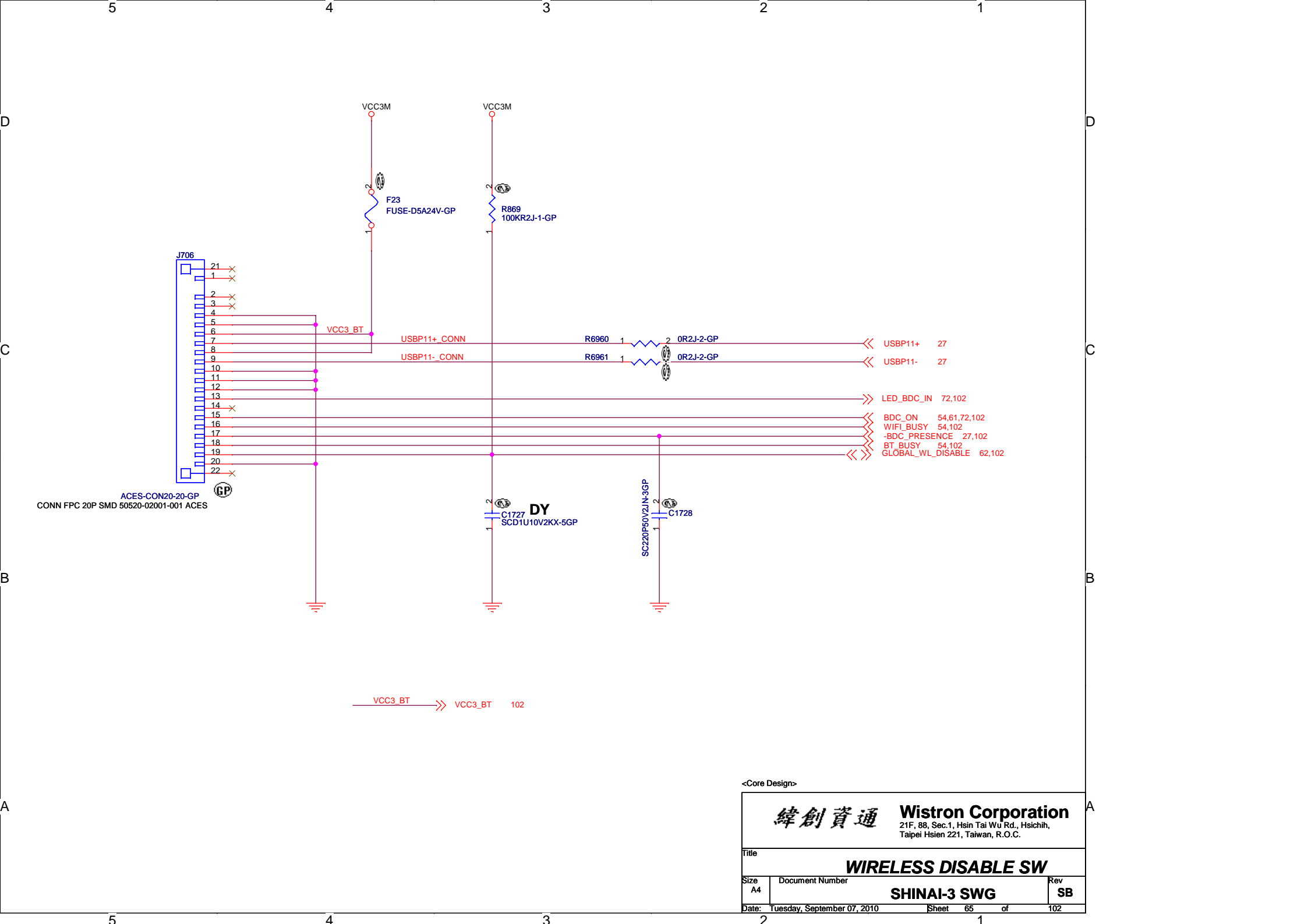
Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title			KEYBOARD CONNECTOR	
Size	Document Number	SHINAI-3 SWG		Rev
A3				SB
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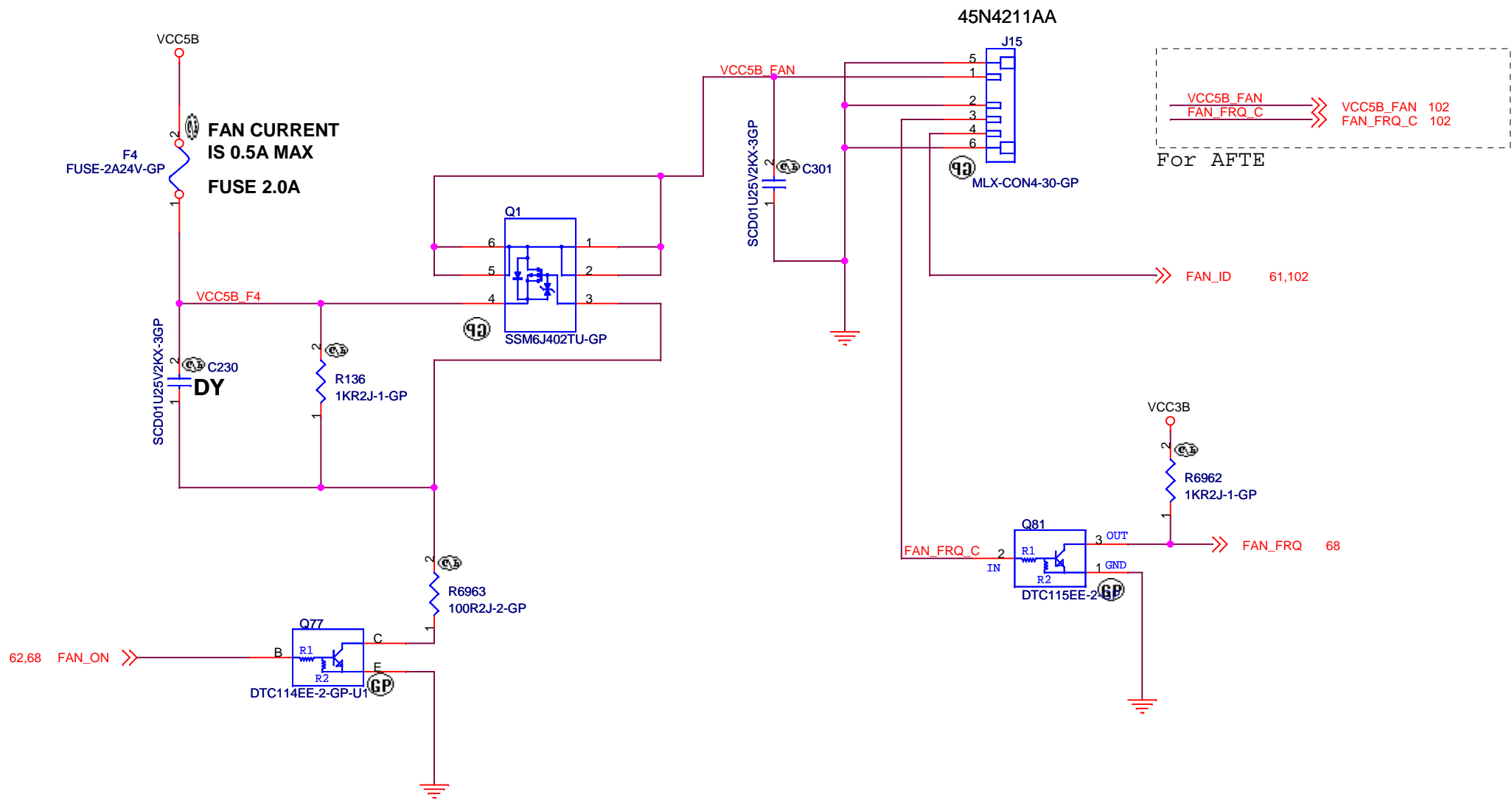
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<Core Design>

緯創資通		Wistron Corporation	
		21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
WIRELESS DISABLE SW			
Size	Document Number		Rev
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<Core Design>

緯創資通

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

Title

FAN CONNECTOR

Size
A4

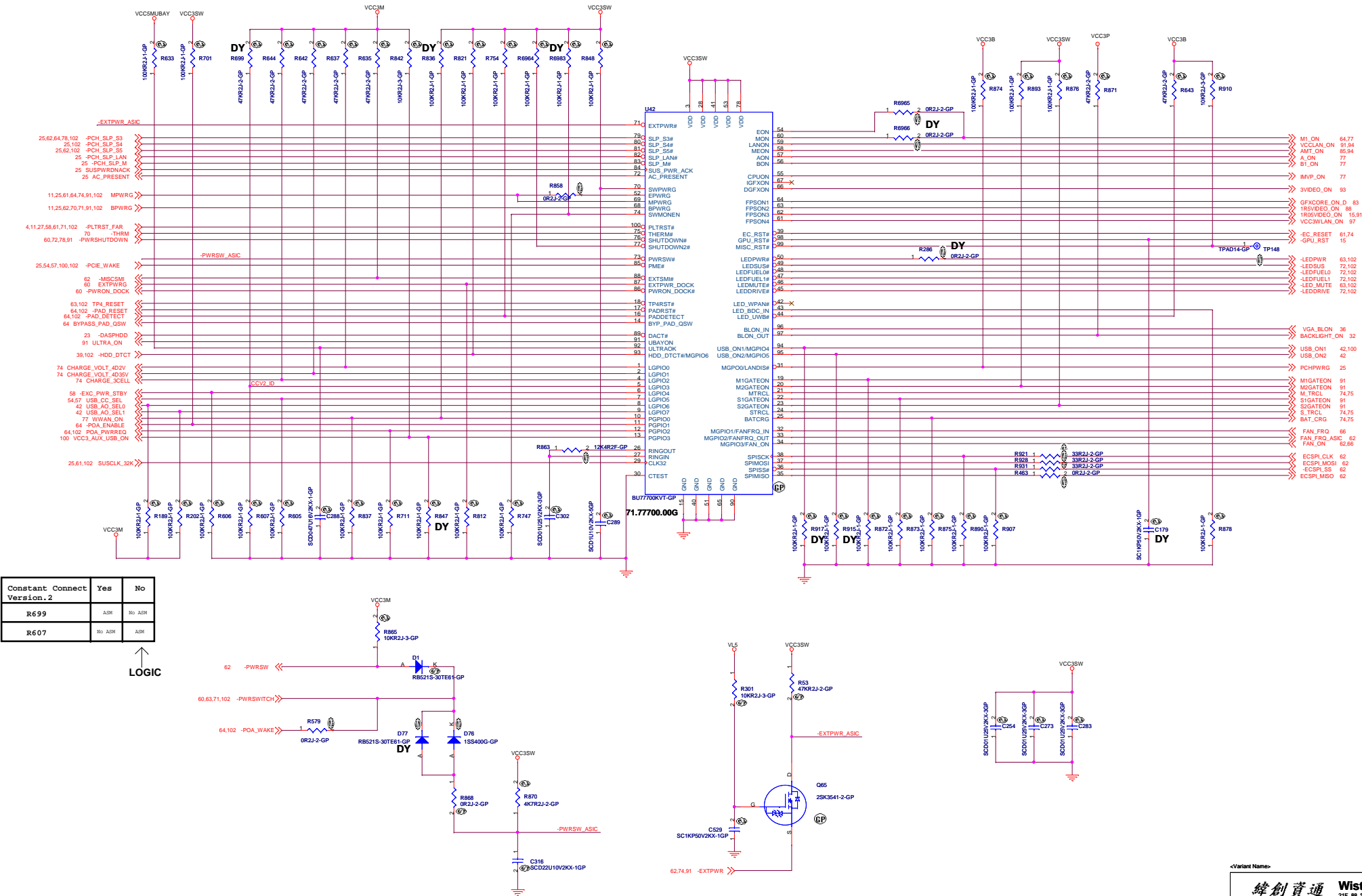
Document Number

SHINAI-3 SWG

Rev
SB

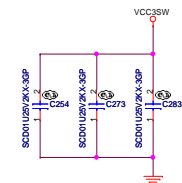
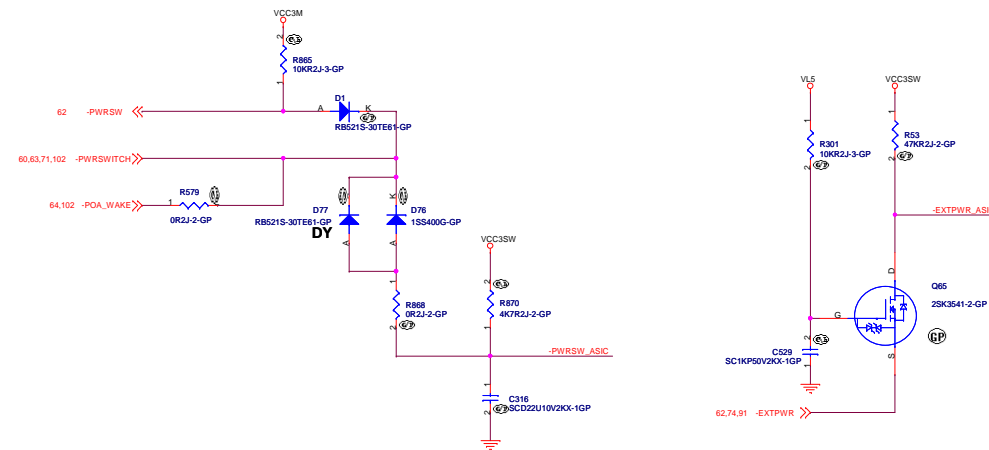
Date: Tuesday, September 07, 2010

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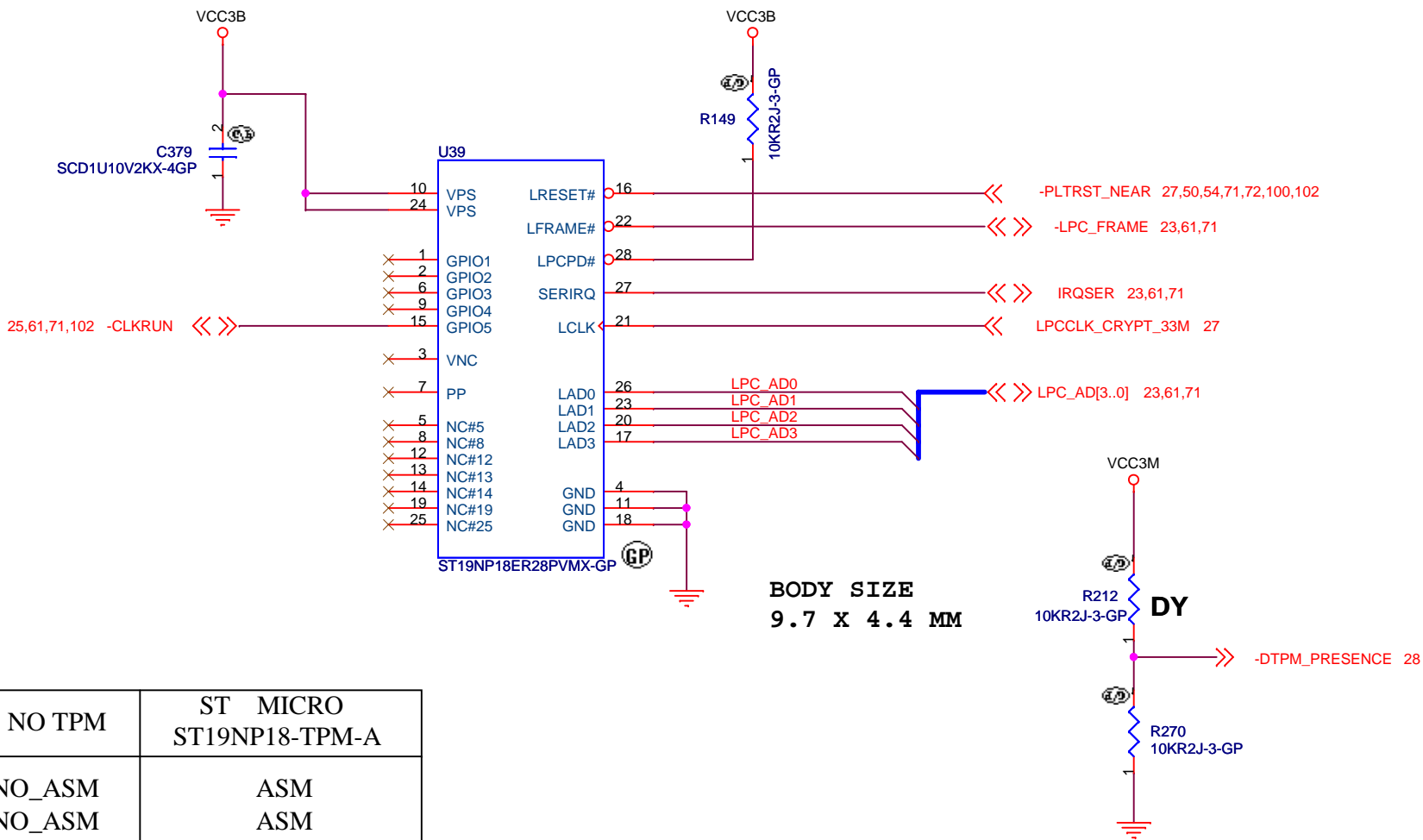


Constant Connect	Yes	No
Version. 2		
R699	ASB	NO ASB
R607	NO ASB	ASB

LOGIC



TPM



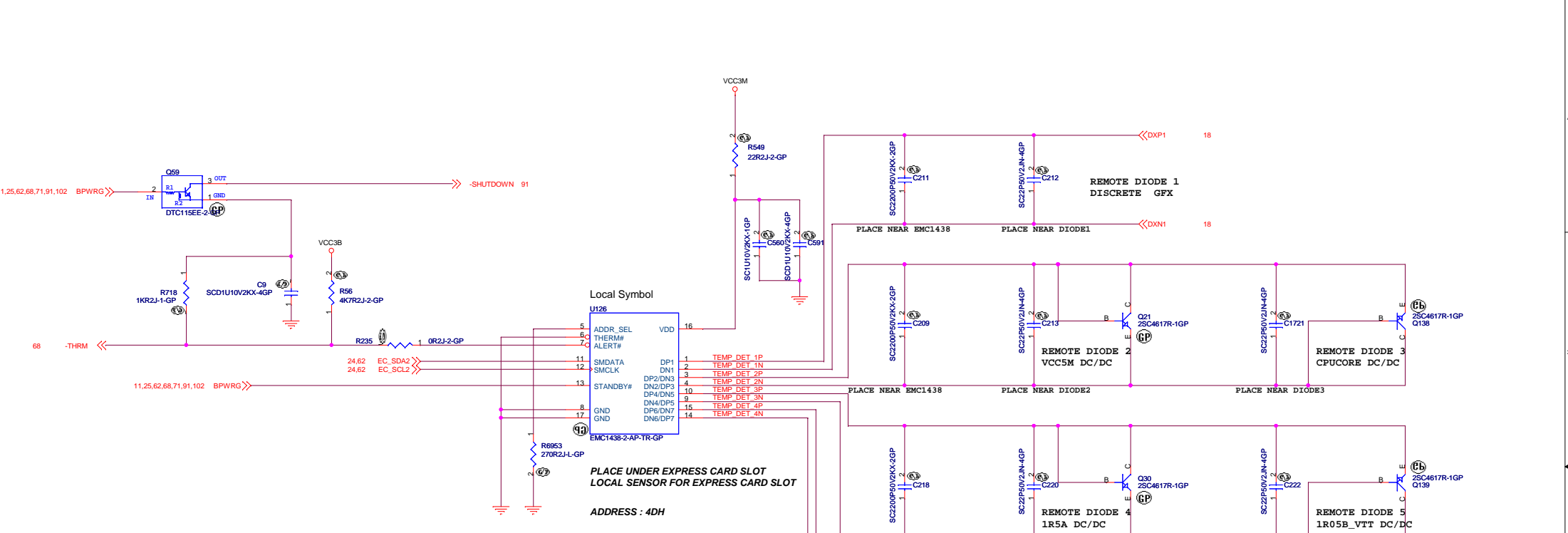
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REF DES	NO TPM	ST MICRO ST19NP18-TPM-A
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C379	NO_ASM	ASM
R149	NO_ASM	ASM
R212	ASM	NO_ASM
R270	NO_ASM	ASM

↑
LOGIC

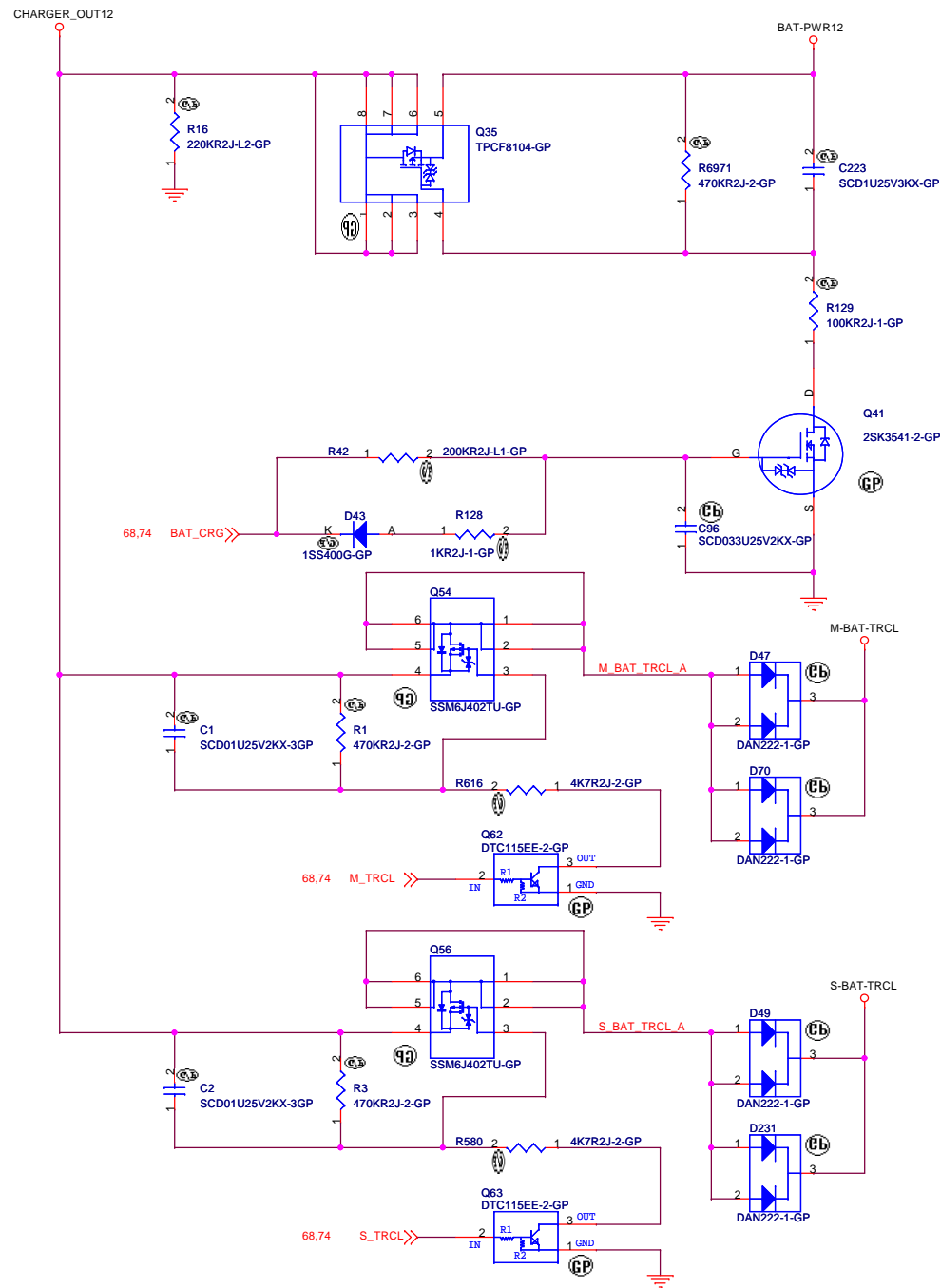
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21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.					
Title					
TPM					
Size	Document Number				Rev
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LOGIC →

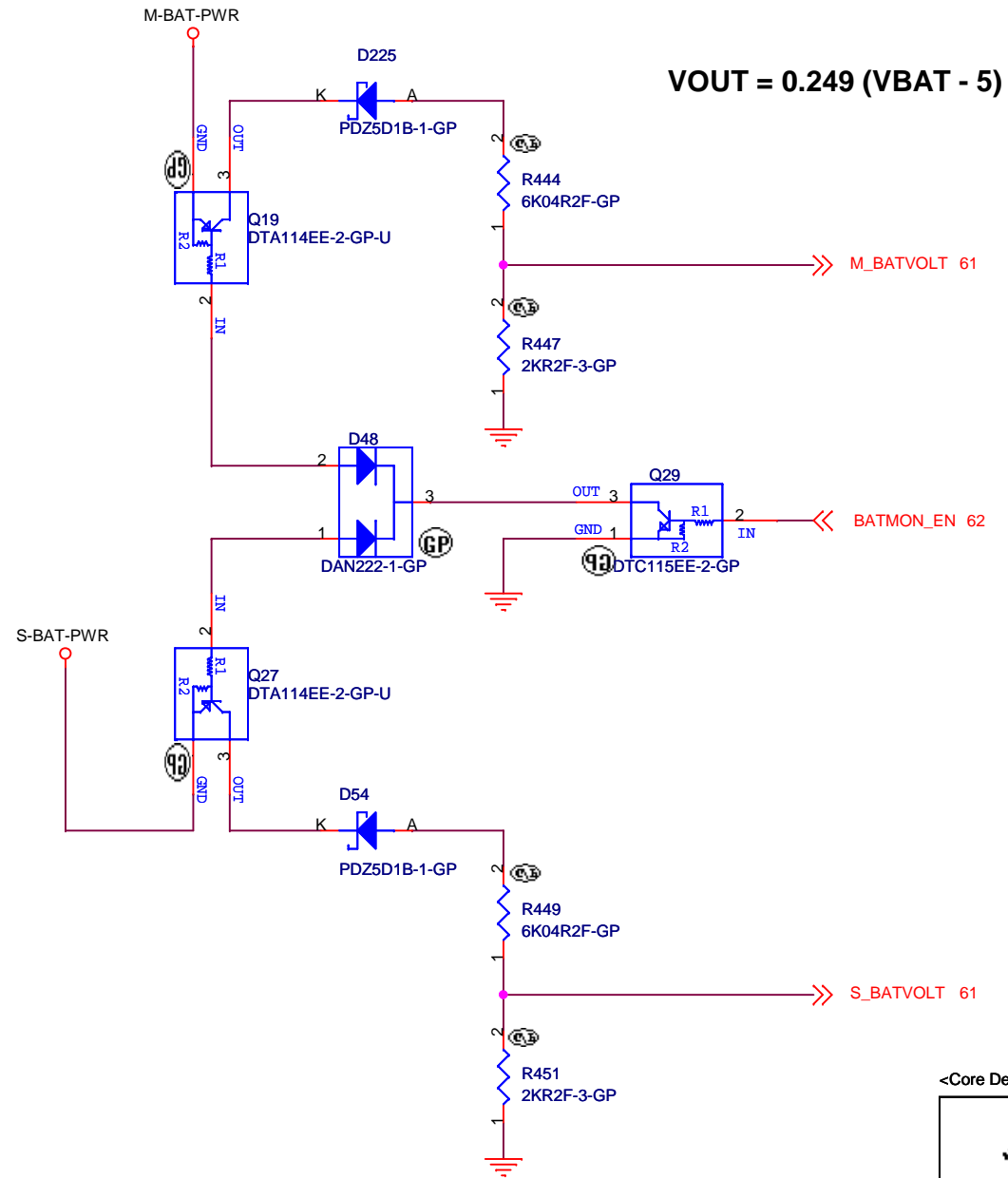
TABLE	
Resistor (+/-10%)	SMBus Address
GND	1001 100, 4Ch
270	1001 101, 4Dh
560	1001 110, 4Eh
1K	1001 111, 4Fh
1.50K	1001 001, 49h
2.7K	1001 010, 4Ah
5.6K	1001 110, 4Bh
>=18K	0001 000, 18h



<Core Design>

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

Title				
CHARGER SELECT				
Size	Document Number			Rev
A3	SHINAI-3 SWG			SE
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<Core Design>

緯創資通

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

Title

BATTERY MONITOR

Size
A4

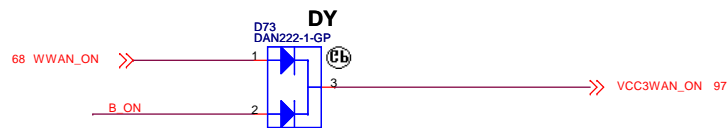
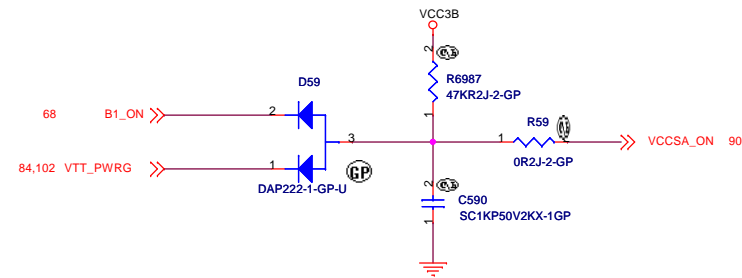
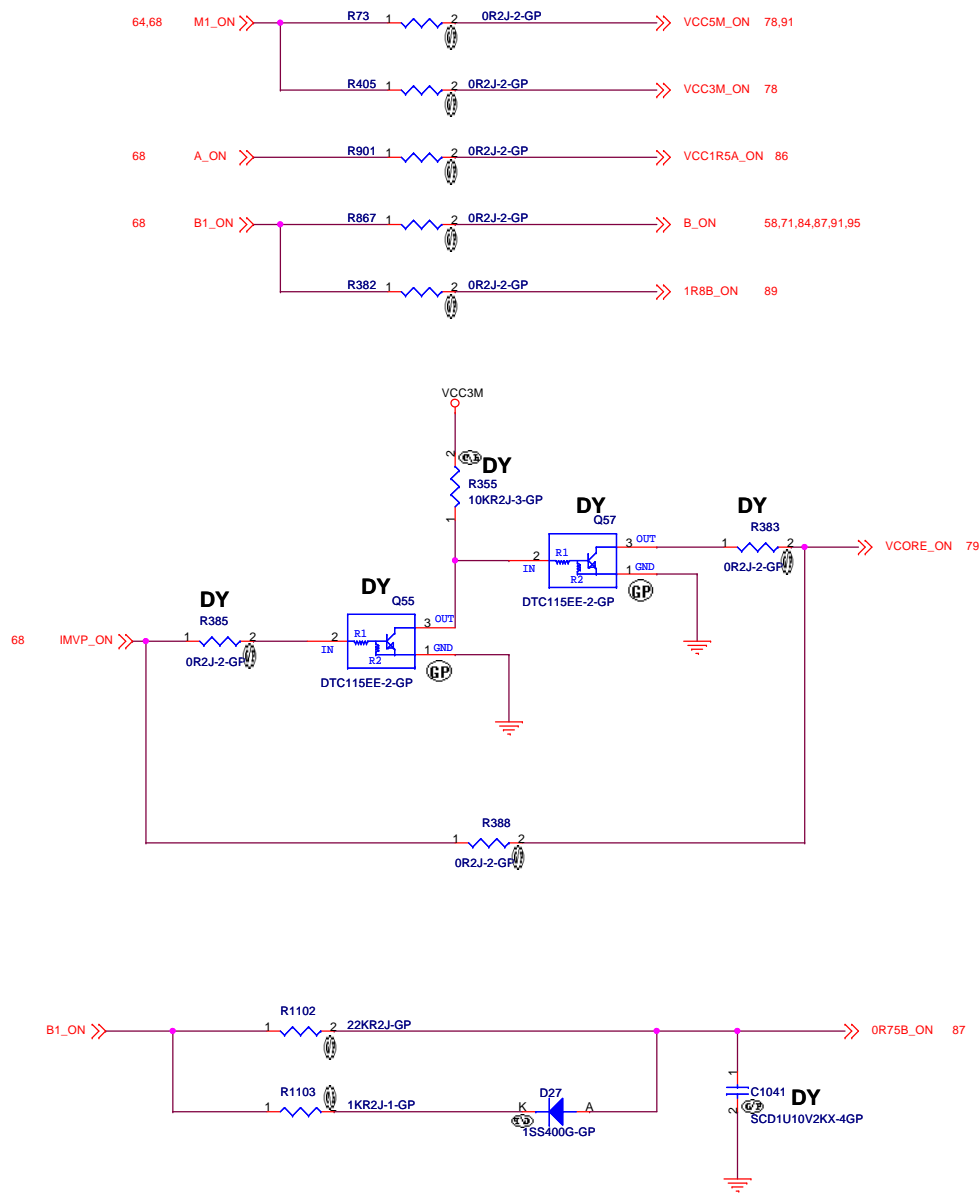
Document Number

SHINAI-3 SWG

Rev
SB

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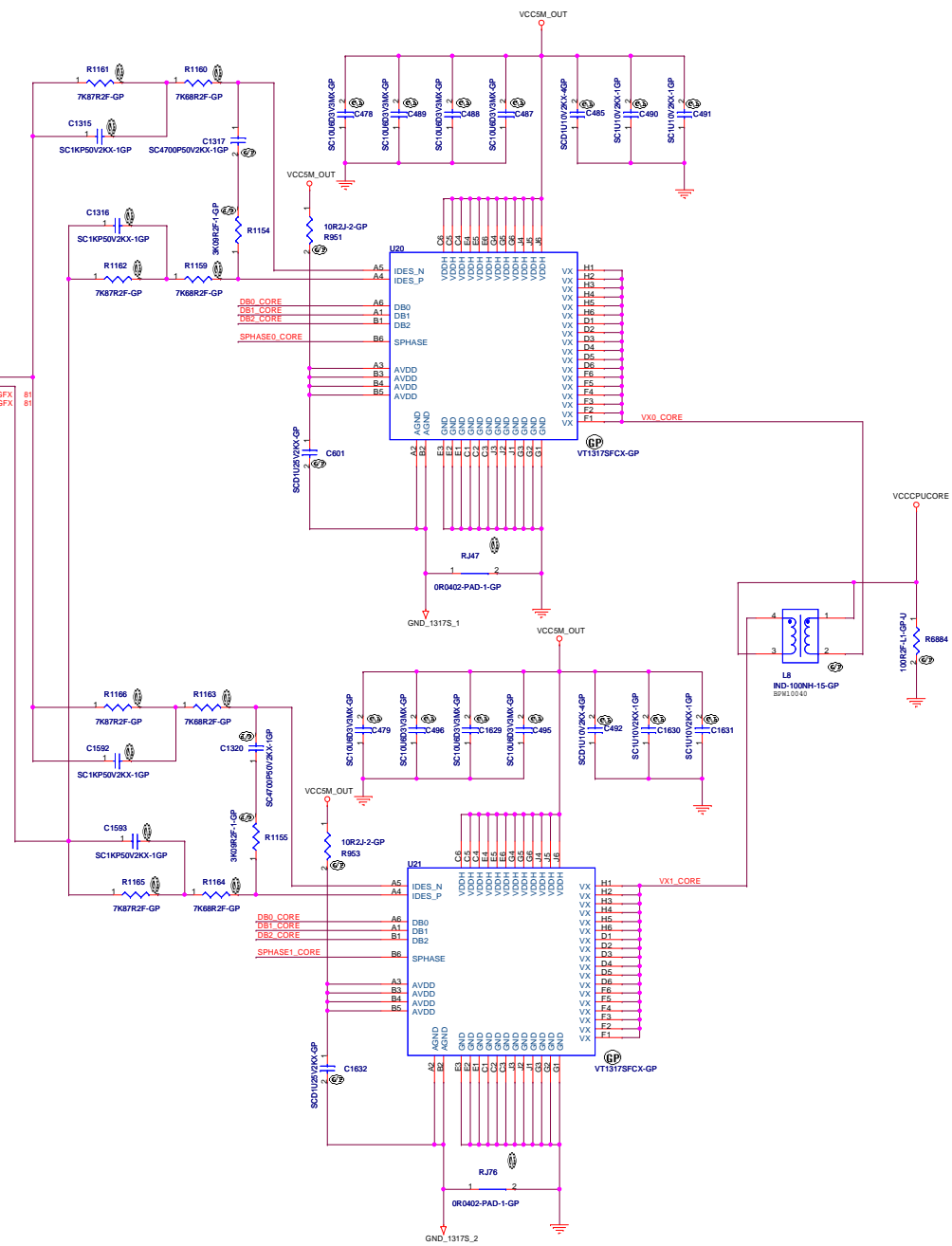
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CONSTANT CONNECT	VER.2	VER.1/NO
D73	ASM	NO_ASM

LOGIC

<Core Design>

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POWER SEQUENCE			
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緯創資通

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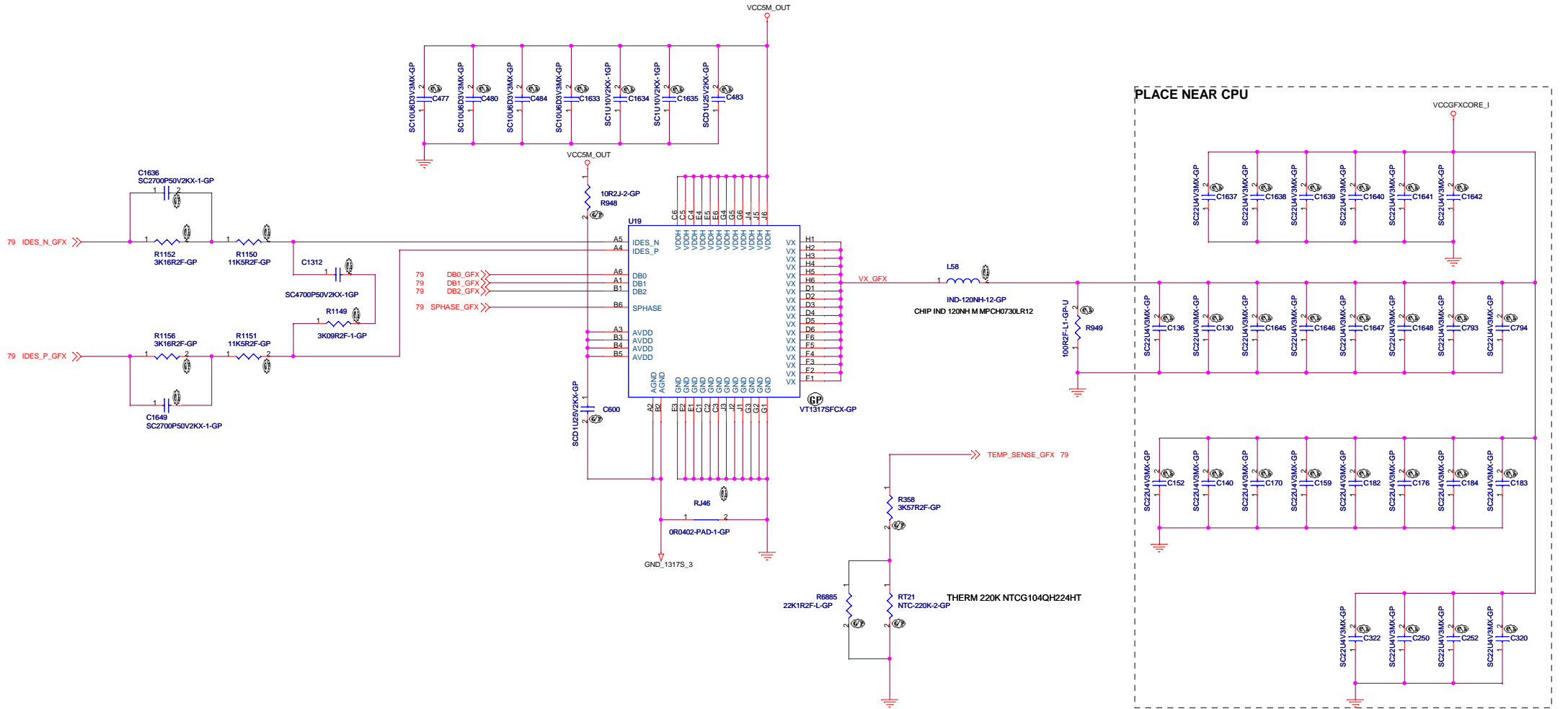
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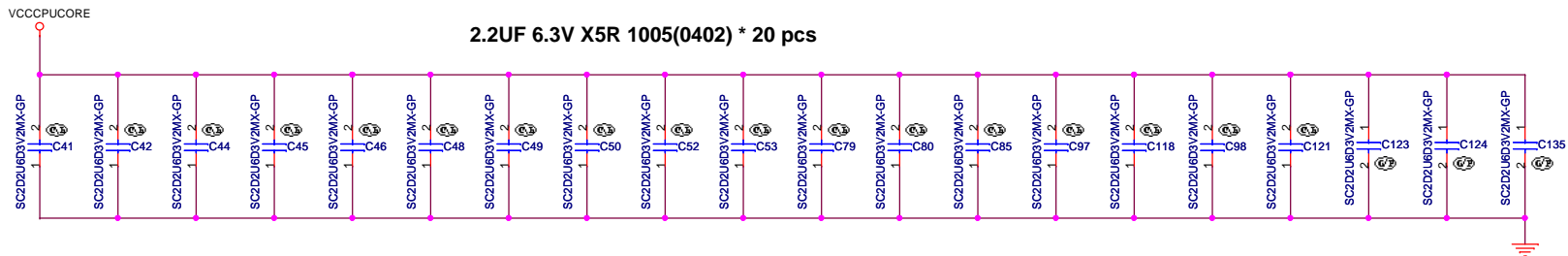
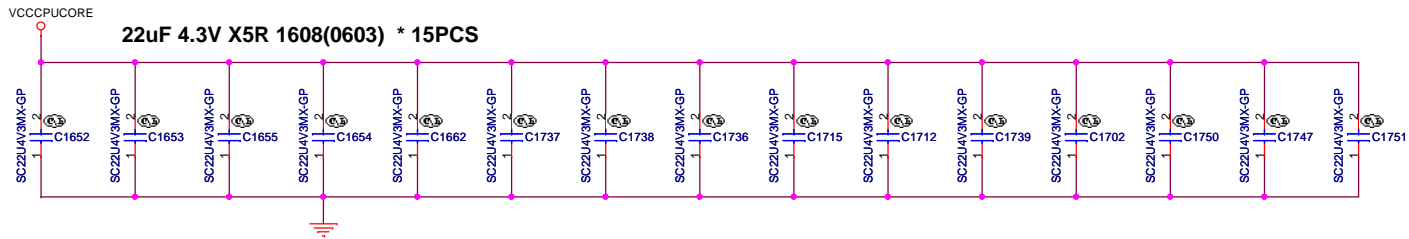
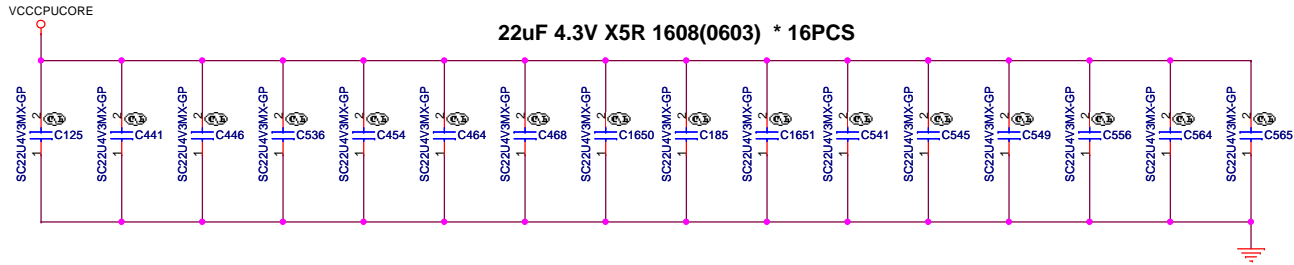


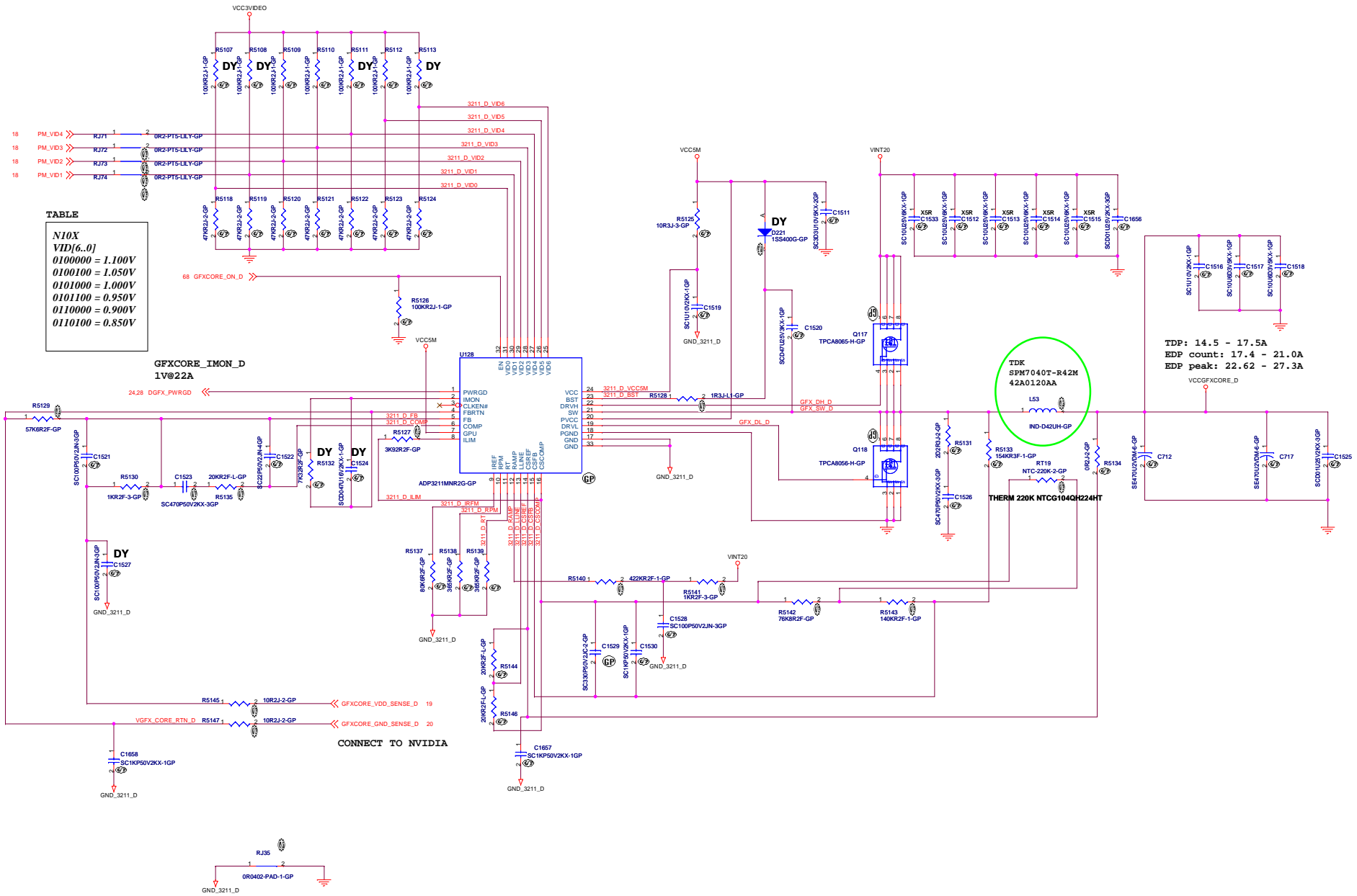
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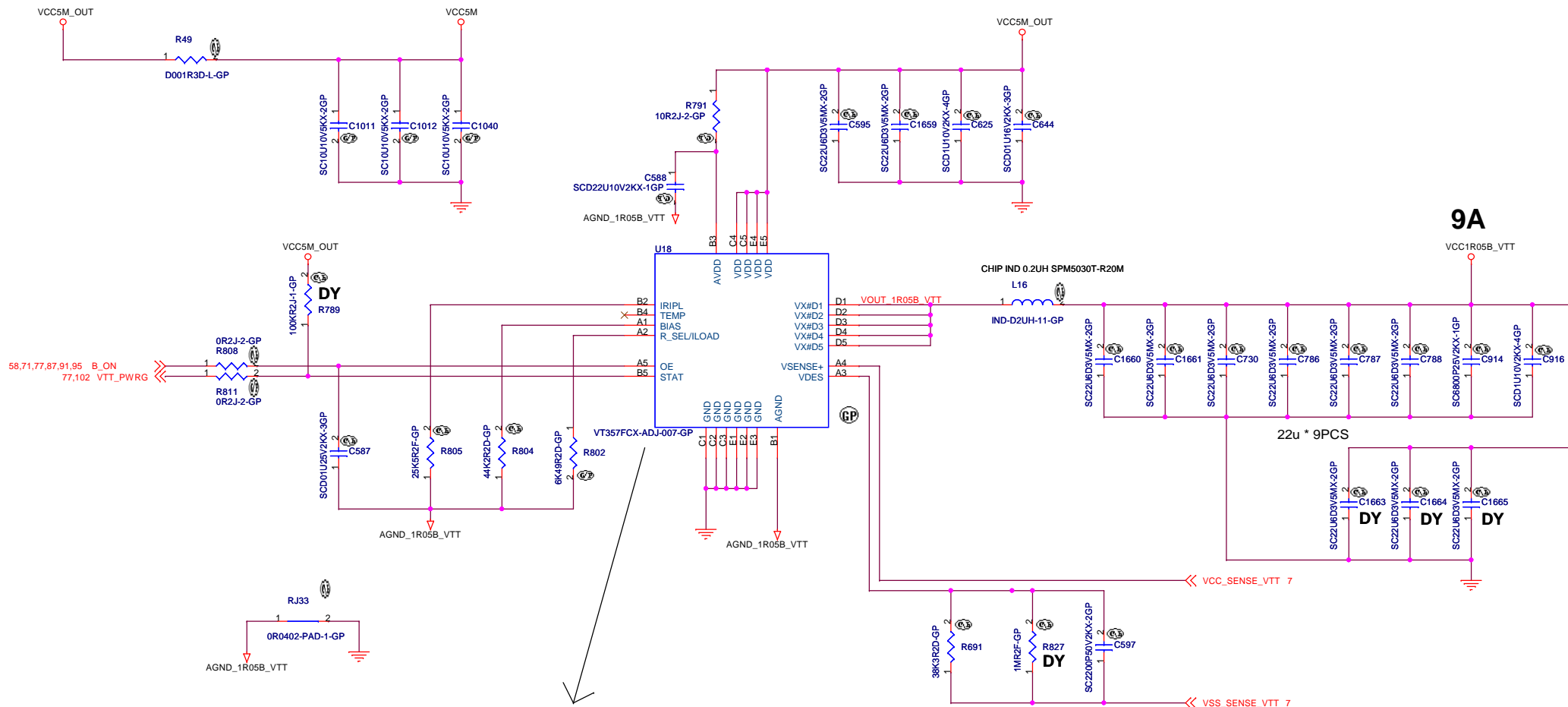


TABLE OF VCC1R05B_VTT POWER SOLUTION

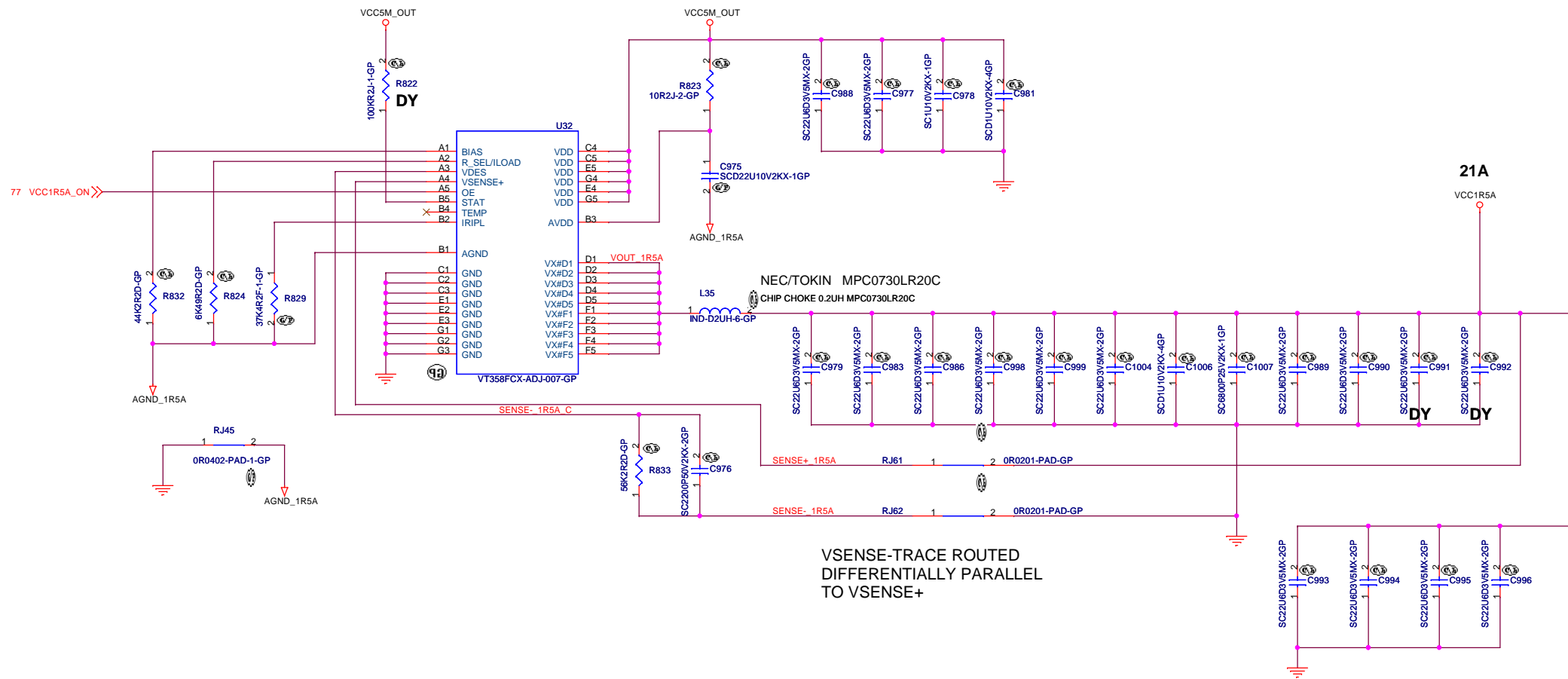
	U18	R802	R805
1	VT356FCX-ADJ-007	6.49K/0.5%	25.5K/1%
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LOGIC

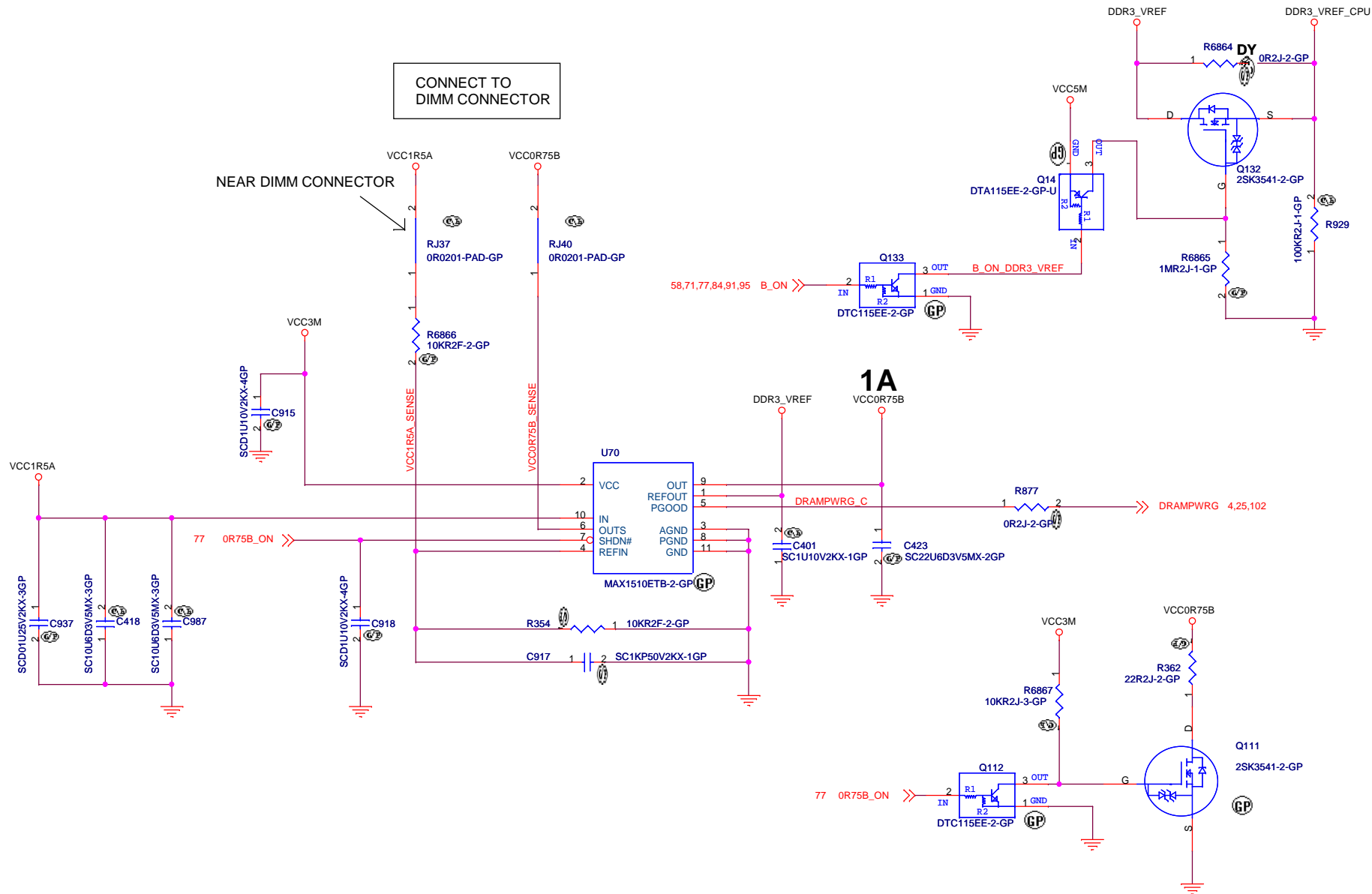
VSENSE-TRACE
ROUTED DIFFERENTIALLY
PARALLEL TO VSENSE+

1.10V R691 = 40.2K
1.05V R691 = 38.3K
VOUT = 1.212 * R691 / 44.2K

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VSENSE-TRACE ROUTED
DIFFERENTIALLY PARALLEL
TO VSENSE+



<Variant Name>

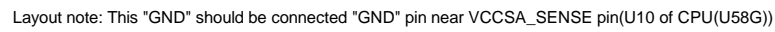
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Taipei Hsien 221, Taiwan, R.O.C.

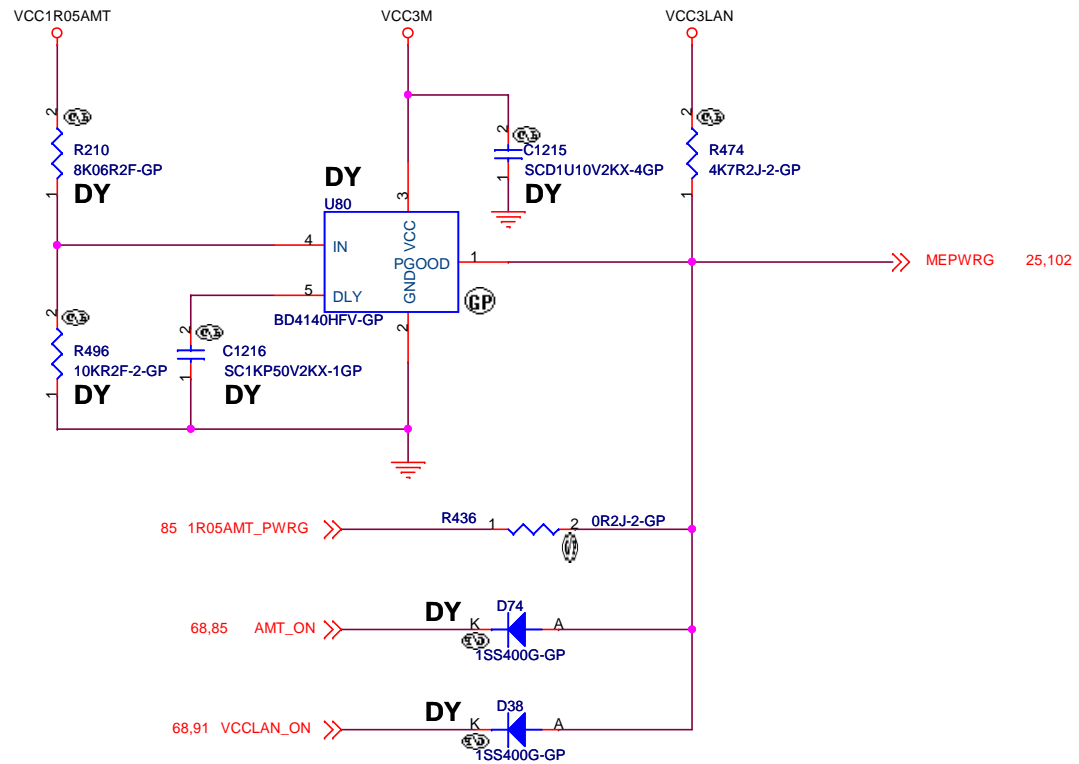
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Size Custom Document Number **SHINAI-3 SWG** Rev **SB**

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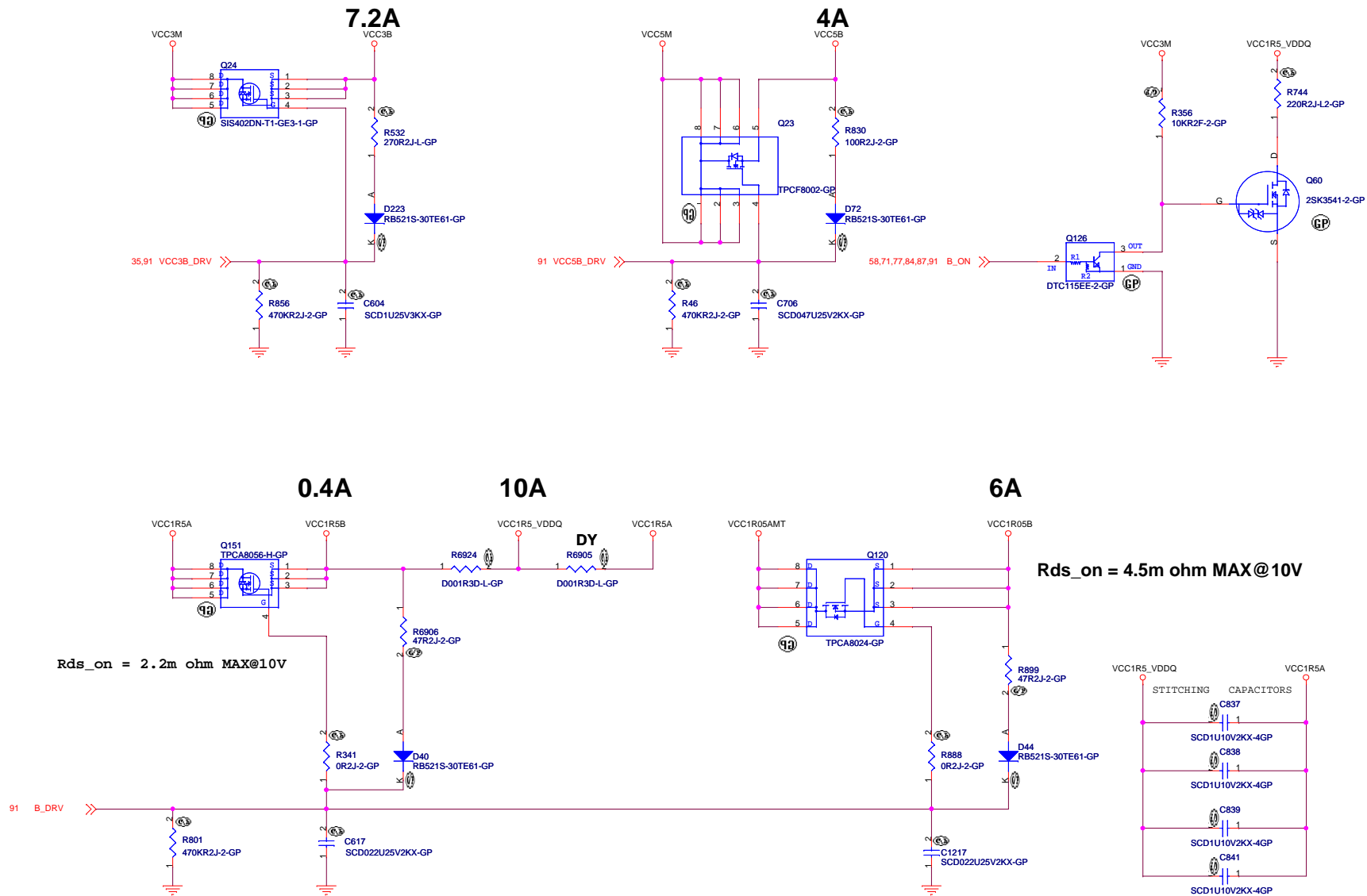


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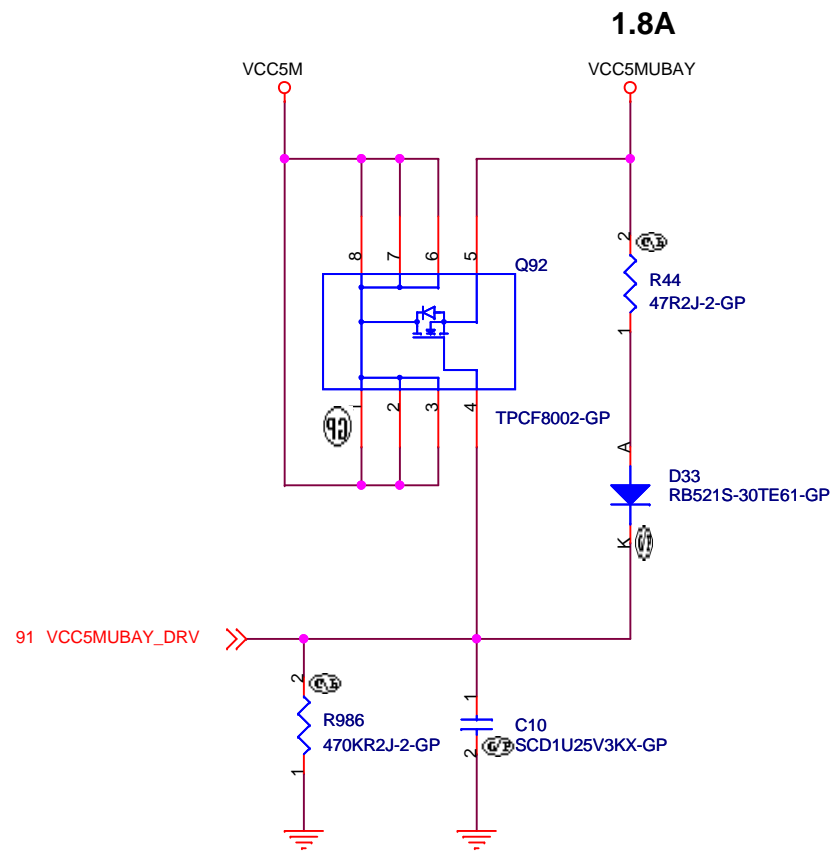
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Size	Document Number	SHINAI-3 SWG	
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Taipei Hsien 221, Taiwan, R.O.C.

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Document Number

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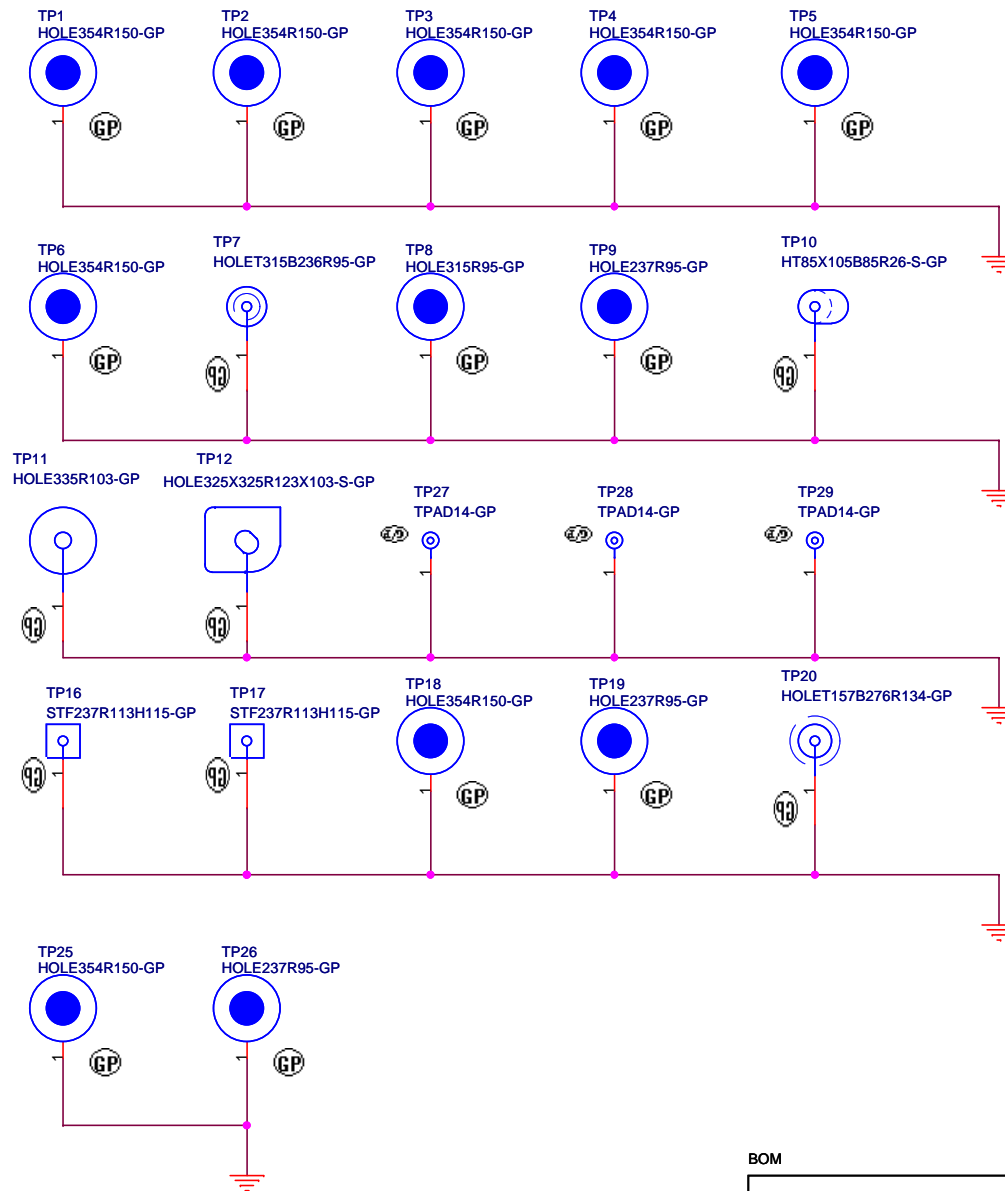
Rev

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PTH FOR SCREW HOLE



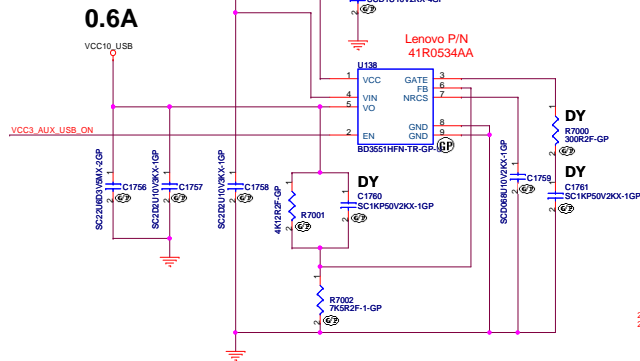
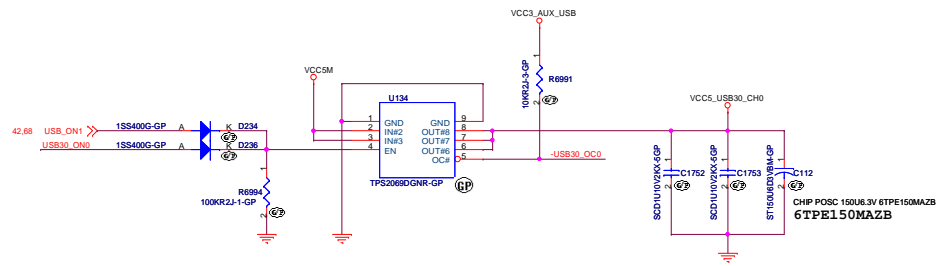
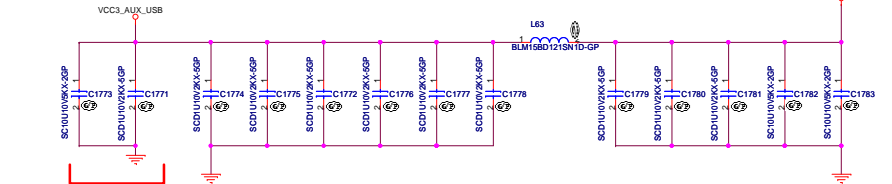
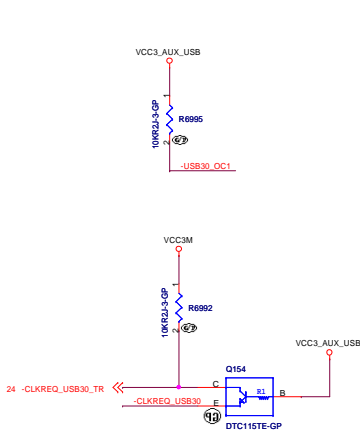
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Title			
PTH FOR SCREW HOLES			
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Size	Document Number		Rev
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USB 3.0			
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HELE Recommended Conditions:
Normal Frequency: 24MHz.
Frequency Tolerance: +/- 30ppm.
Load Frequency: 12pF.
Effective Series Resistance: 50-ohm.
Effective Shunt Capacitance: 2pF.

