

May.08

Mocha-1 Block Diagram

07226-1-Final

Project Code: 91.47Q01.001
PCB(Raw Card): 48.47Q01.001

PCB Layer Stackup

- L1:Component
- L2:GND
- L3:Signal 1
- L4:VCC
- L5:Signal 2
- L6:Signal 3
- L7:GND
- L8:Component

Battery Charger/Selector

INPUTS	OUTPUTS
DOCK_PWR20_F	M-BAT-PWR S-BAT-PWR

System DC/DC

TPS51221	49
VINT20	VCC5M VCC3M

CPU DC/DC

VT1311	50
VINT20	VCCCPUCORE

GMCH GFX CORE

VT451&VT450	51
VINT20	VCCGFXCORE

VCC1R05AMT/VCC1R5A

VT351A	52, 53
VCC5V_OUT	VCC1R05AMT VCC1R5A

VCC0R75AMT

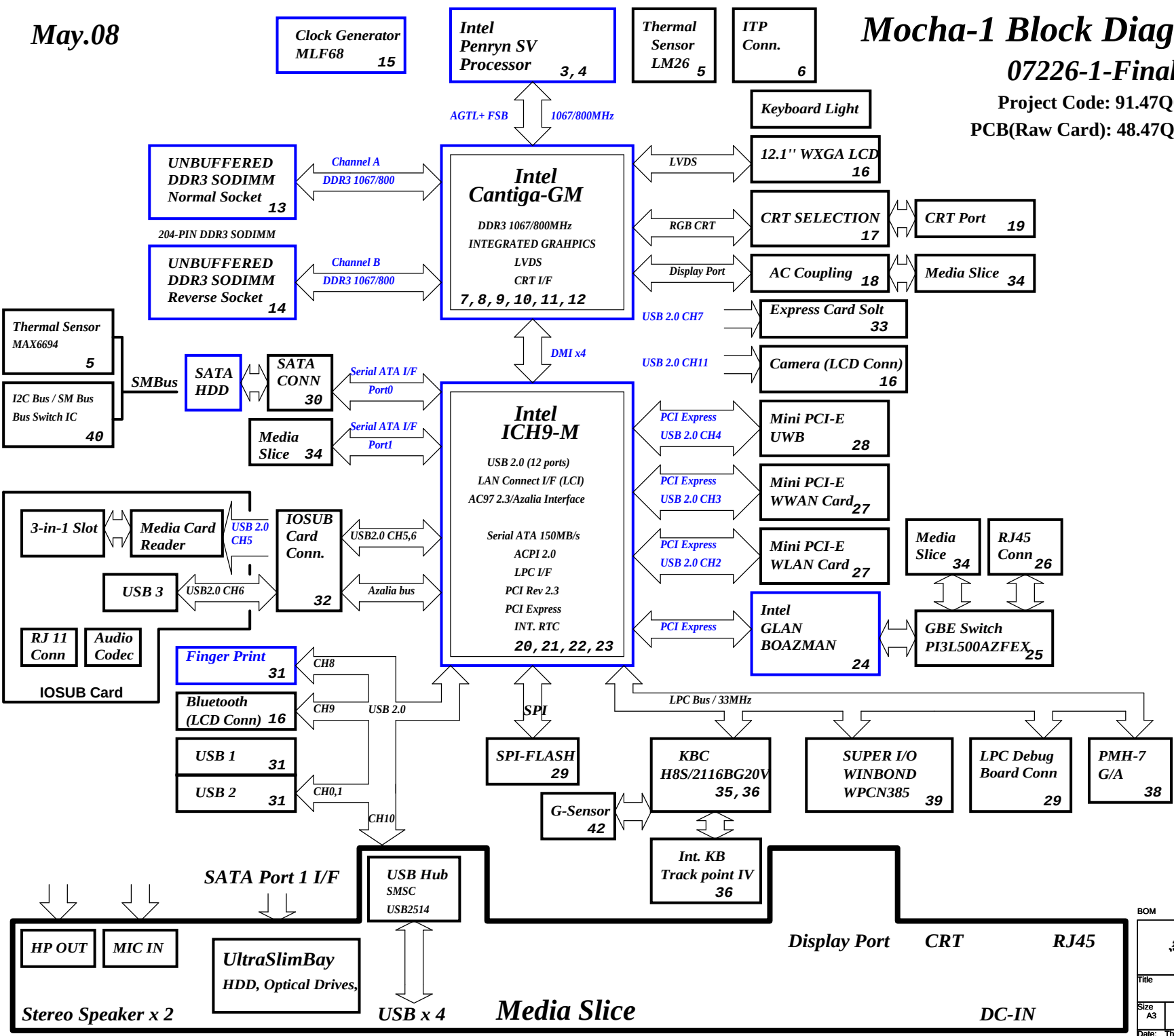
MAX1510	54
VCC1R5A	VCC0R75AMT

VCC1R8B

BD3550	55
VCC3M	VCC1R8B

VCC1R05AUX/1R8AUX

BD3550	56
VCC3M	VCC1R05AUX VCC1R8AUX



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Block Diagram			
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RESISTOR

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

The naming rule is value + R + size + tolerance
 For the value, it can be read by the number before R. (R means resistor)
 For the tolerance, it can be read from the last letter.
 For the rating, we don't show on the symbol name.
 For the size, R2=>0402, R3=>0603, R5=>0805,.....

CAPACITOR

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

The naming rule is
Capacitor type + value + rating + size + tolerance + material
SCD1U10V2MX-1
SC=> SMT Ceramic, TC=> POS cap or SP cap
D1U => 0.1uF
10V => the voltage rating is 10V
2=> 0402, 3=>0603, 5=>0805
M=>tolerance M, K, Z
X=> X7R/X5R, Y=> Y5V
-1 => symbol version, nonsense to EE characteristic

PLANAR ID[3..0]

ICH8-M GPIOn	39	38	37	36	Planar ID Version	Planar PCB Version
PLANAR_IDn	3	2	1	0		
	0	0	0	0	Mocha-1 Pre-DV	SA
	0	0	0	1	Mocha-1 DV	SB
	0	0	1	0	Mocha-1 SIV	SC
	0	0	1	1	Mocha-1 SIV (3 Phase)	FC
	0	1	0	0	Mocha-1 SIT	SD,SE
	0	1	0	1	Mocha-1 SVT	1
	0	1	1	0		
	0	1	1	1		

EC HISTORY

[illegible]

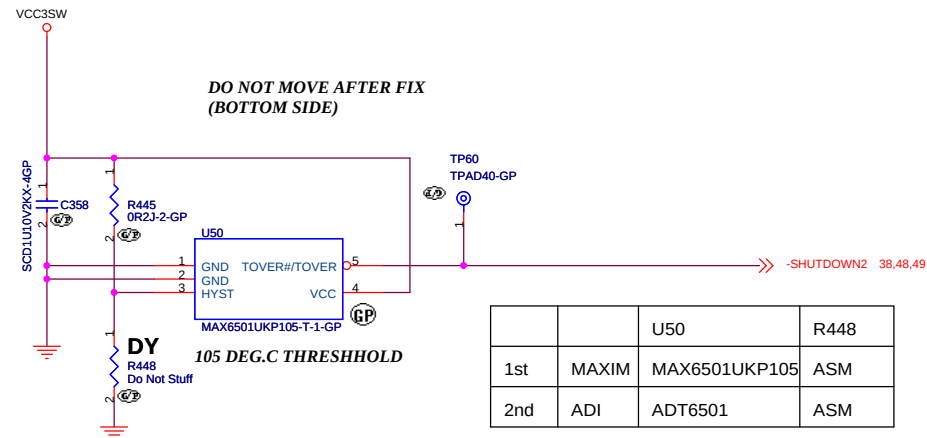
PCI TABLE

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	

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		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wuj Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
		Reference	
Size A3	Document Number	Rev	
Mocha-1		-1	
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Thermal Sensor for CPU

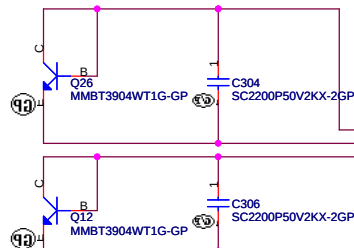


**THESE CAPS MUST BE PLACED AS
CLOSE AS POSSIBLE TO MAX6694**

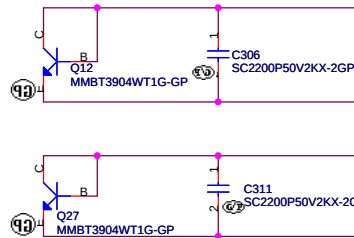
TO CPU DIE



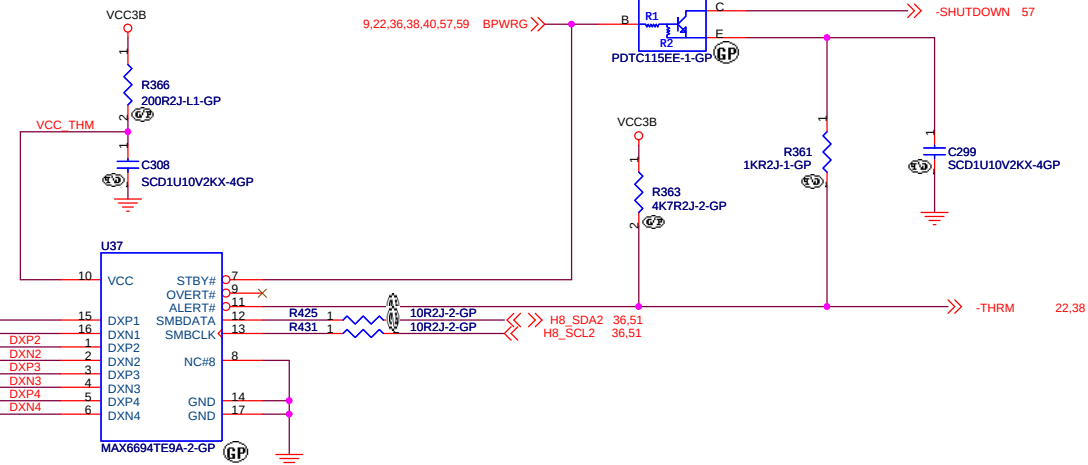
TO DIMM



TO VCORE FET



TO MINI CARD



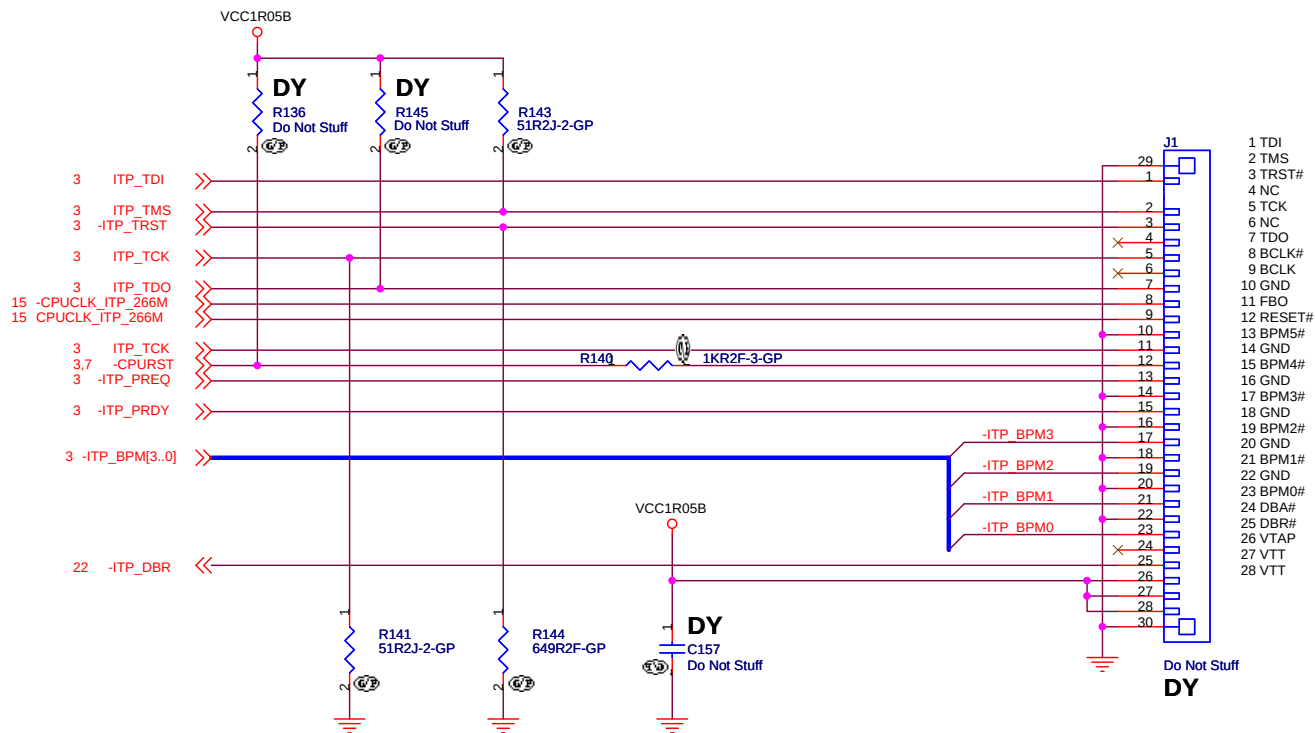
PLACE UNDER PC-CARD SLOT
H8 I2C Bus 2 ADDRESS : 9AH
TEST PAD FOR BOARD MFG TEST

Layout Comment :

- (1) Thermal sensor trace lines should not be overlapped with other high frequency trace lines in other layers.
- (2) Also, it should not be overlapped with large amplitude trace lines either.

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Title			
THERMAL SENSOR			
Size A3	Document Number	Rev -1	
Mocha-1			
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(*1) TCK SIGNAL IS BRANCHED AT CPU's PIN

(*2) CPURST# SIGNAL IS BRANCHED AT GMCH's PIN

Ref Des	For ITP-XDP
J1	NO_ASM-->ASM
C157	NO_ASM-->ASM
R140	NO_ASM-->1K 5% ASM
R144	ASM (No Change)
R136	ASM-->NO_ASM
R145	ASM (No Change)
R141	ASM-->51 5% ASM
R143	ASM-->51 5% ASM

BOM

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Title			
ITP CONN			
Size	Document Number	Rev	
Custom	Mocha-1	-1	
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Route H_XSWING & H_YSWING
10 mil wide / 20 mil spacing

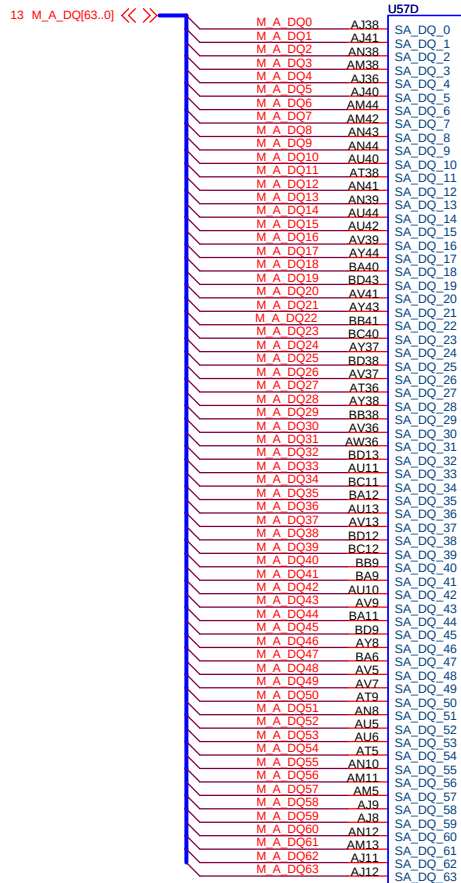
Route H_XRCOMP &
H_YRCOMP 10 mil wide /
20 mil spacing

HOST

BOM

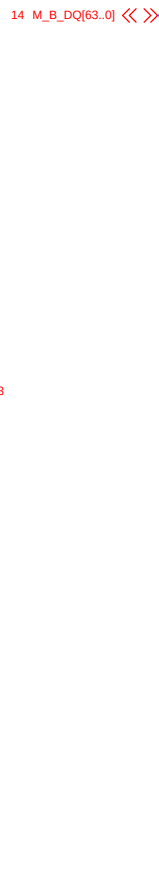
緯創資通 Wistron Corporation
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Title				
Cantiga(1/6):HOST I/F				
Size	Document Number			Rev
A3	Mocha-1			-1
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CANTIGA-GM-GP-U-NF

DDR SYSTEM MEMORY A



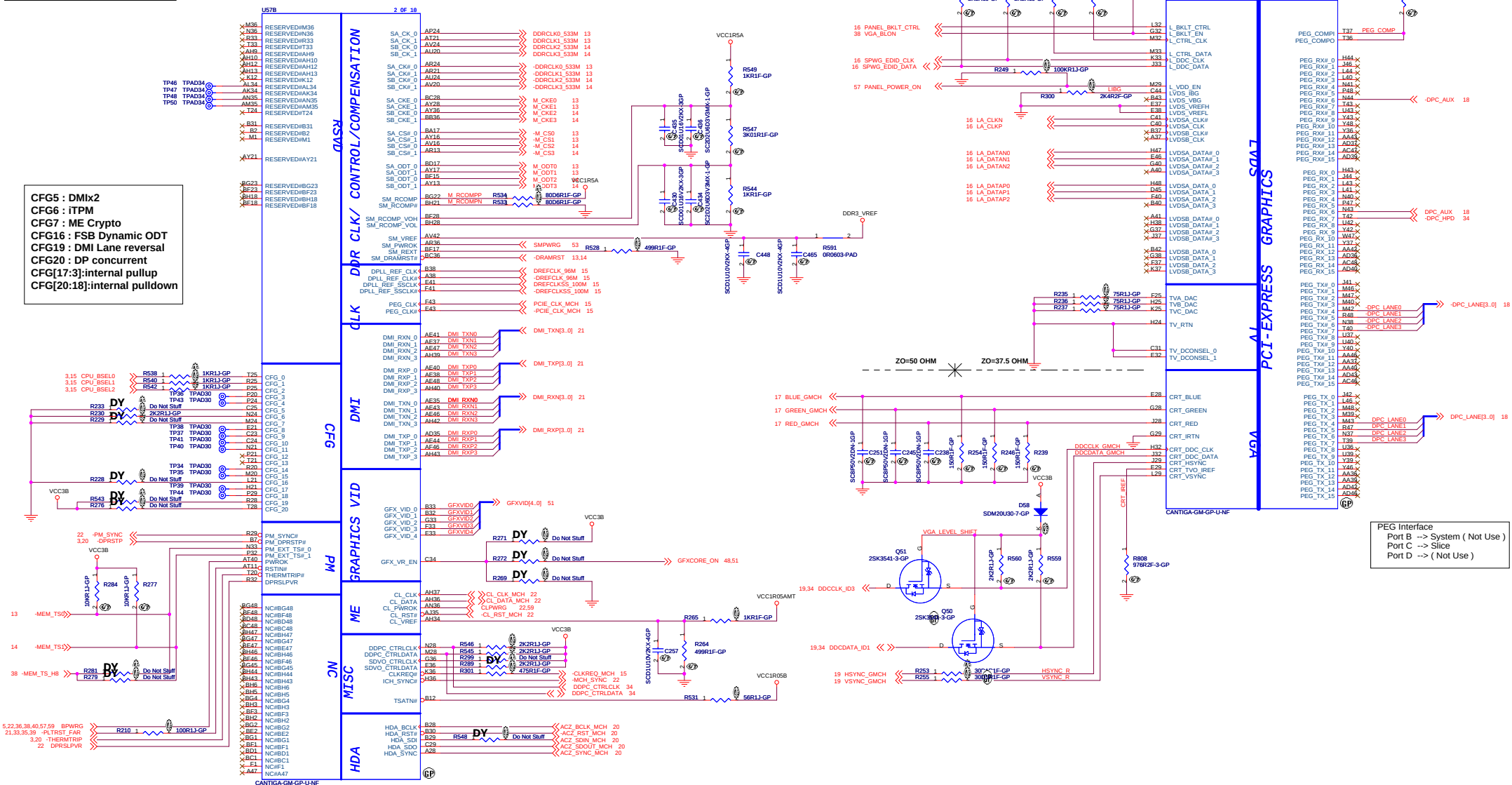
CANTIGA-GM-GP-U-NF

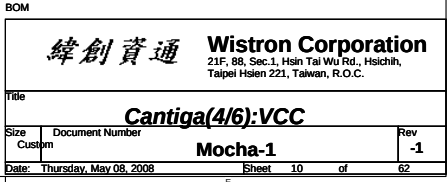
DDR SYSTEM MEMORY B

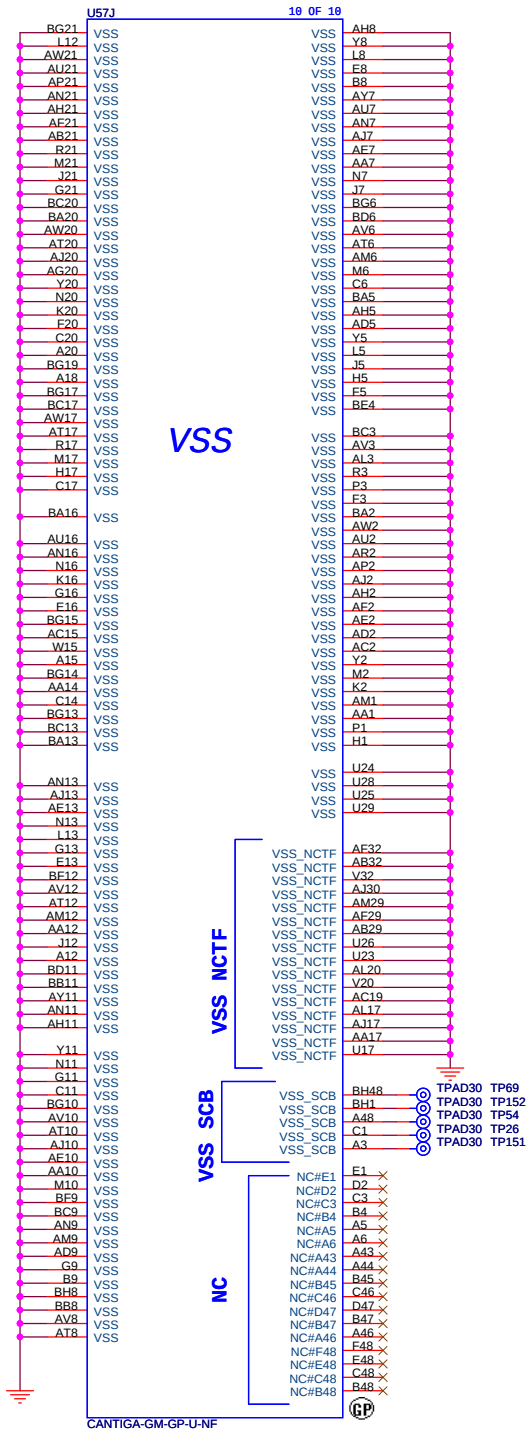
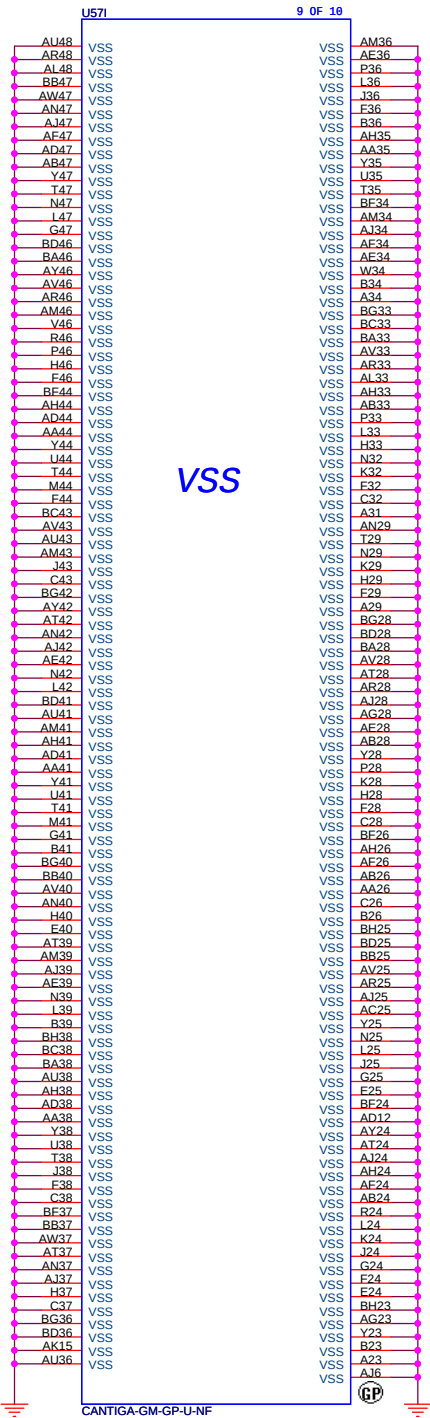
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Title			
Cantiga(2/6):DDR3			
Size	Document Number	Rev	
A3		-1	
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RESERVED#AL34	ME_JTAG_TCK
RESERVED#AK34	ME_JTAG_TDI
RESERVED#AN35	ME_JTAG_TDO
RESERVED#AM35	ME_JTAG_TMS

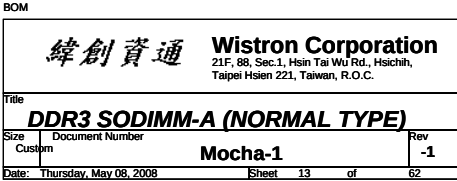


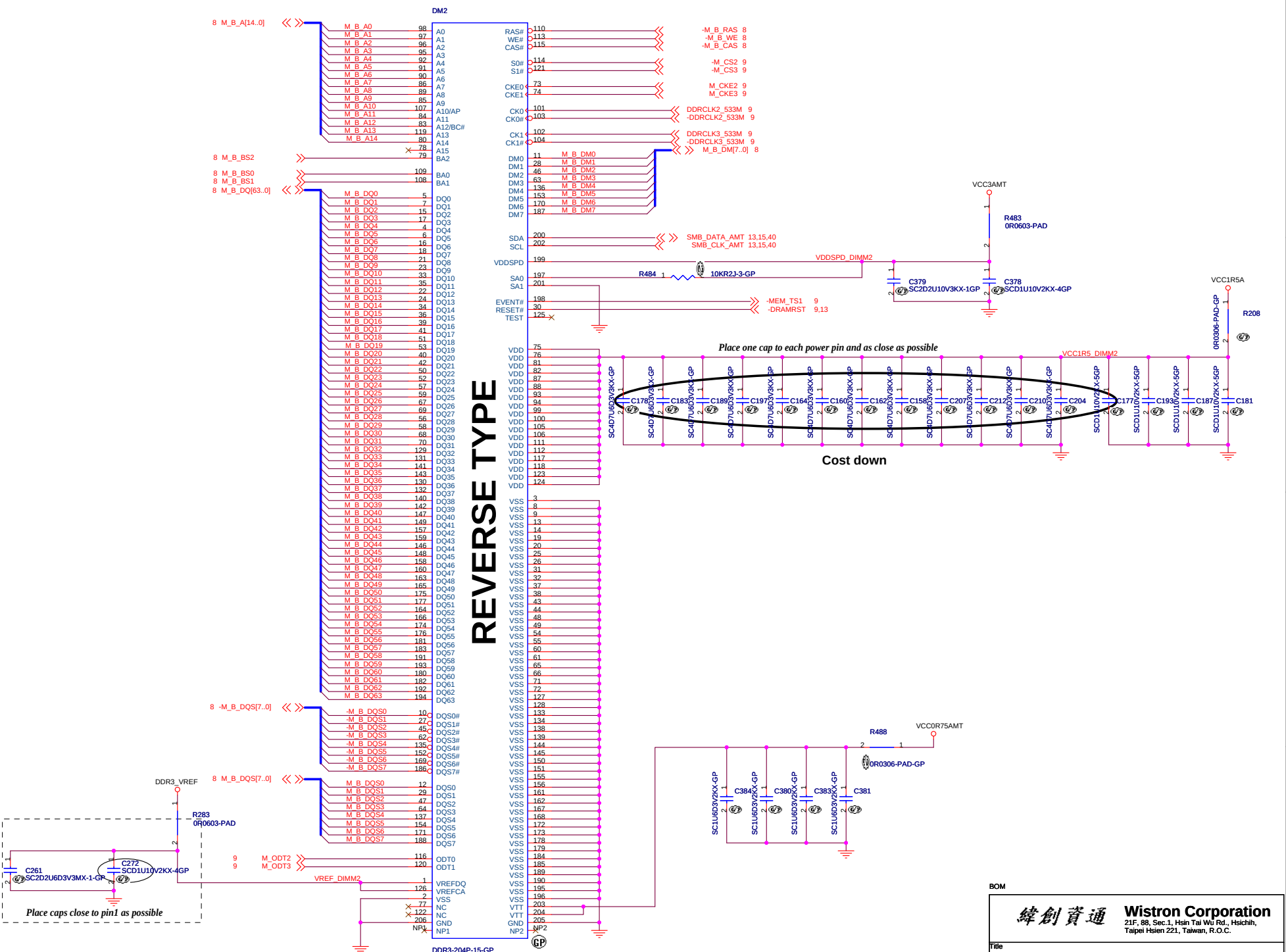




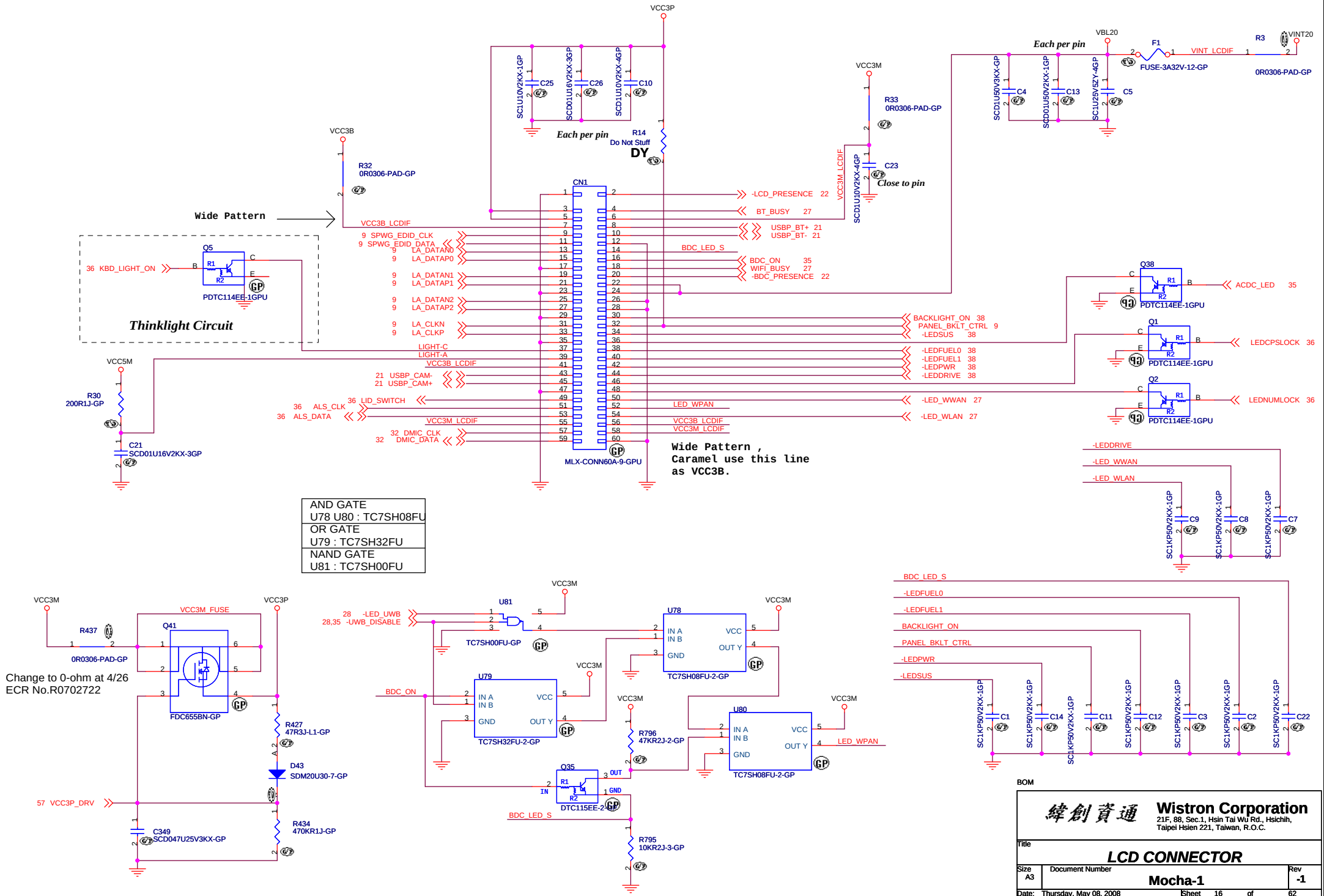
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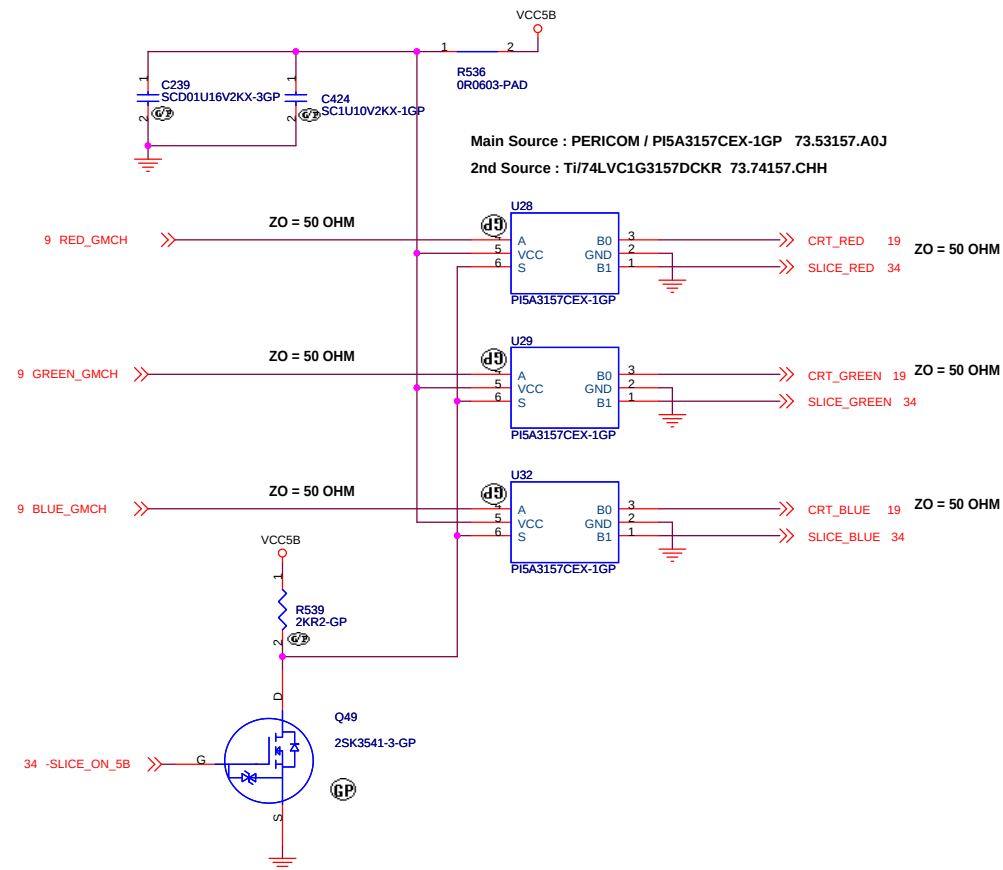
緯創資通		Wistron Corporation	
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title			
Cantiga(6/6):GND			
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LCD / Inverter Connector

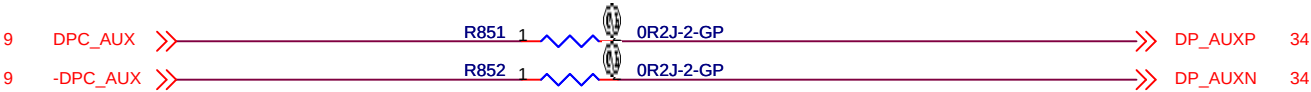
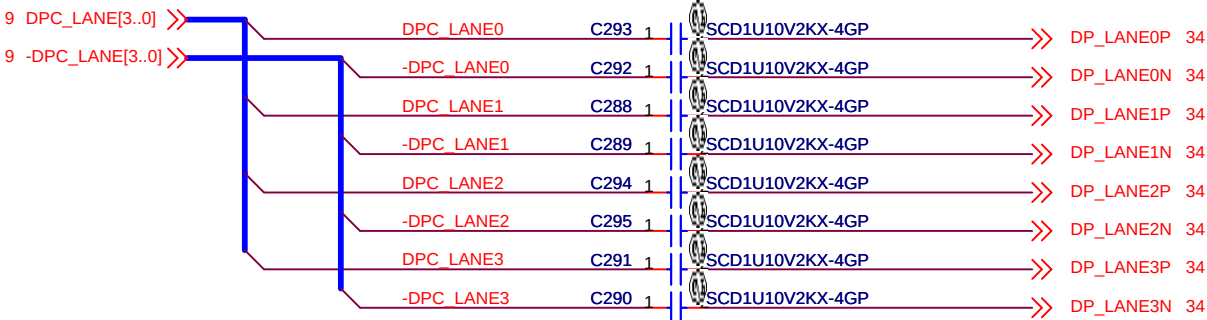




BOM

緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.		
Title		
CRT SELECTOR		
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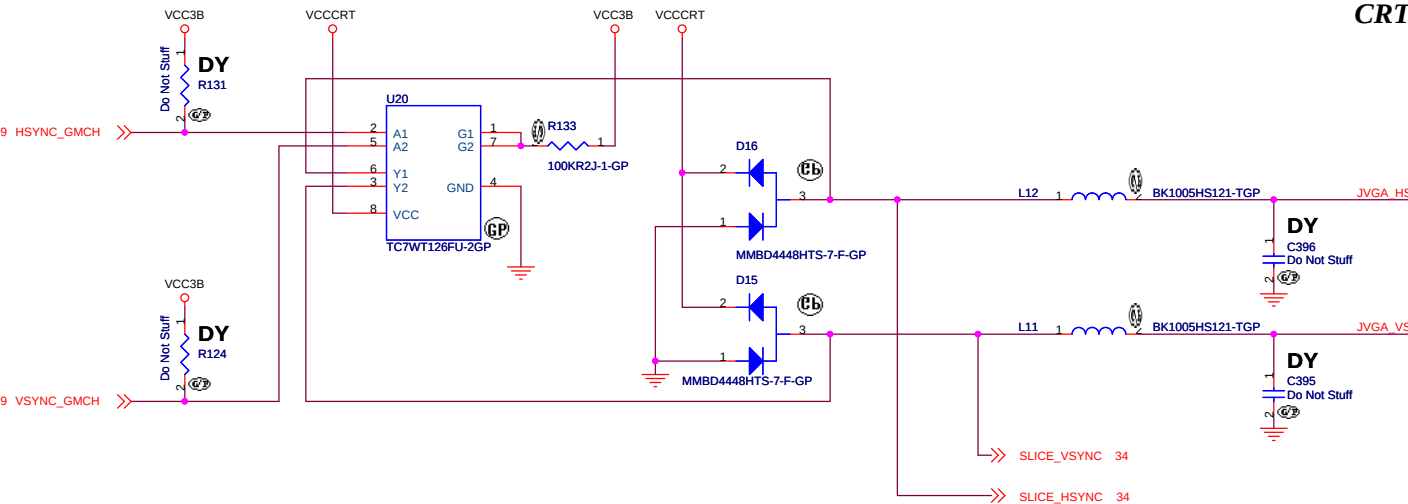
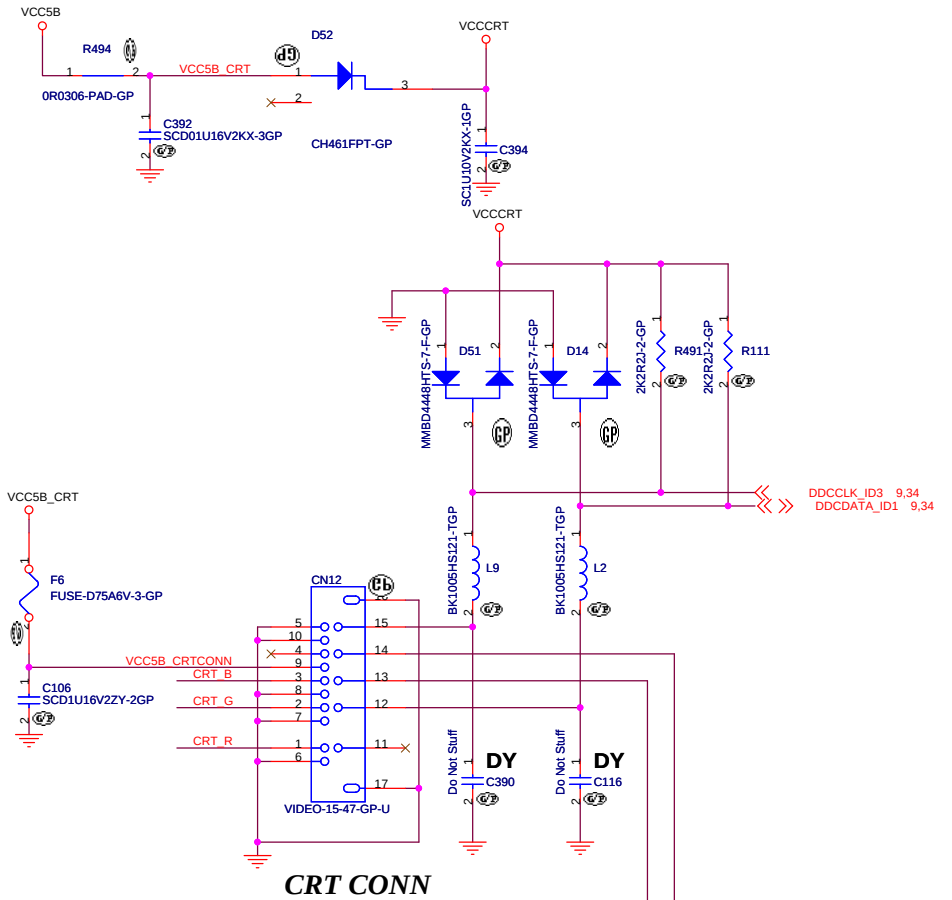
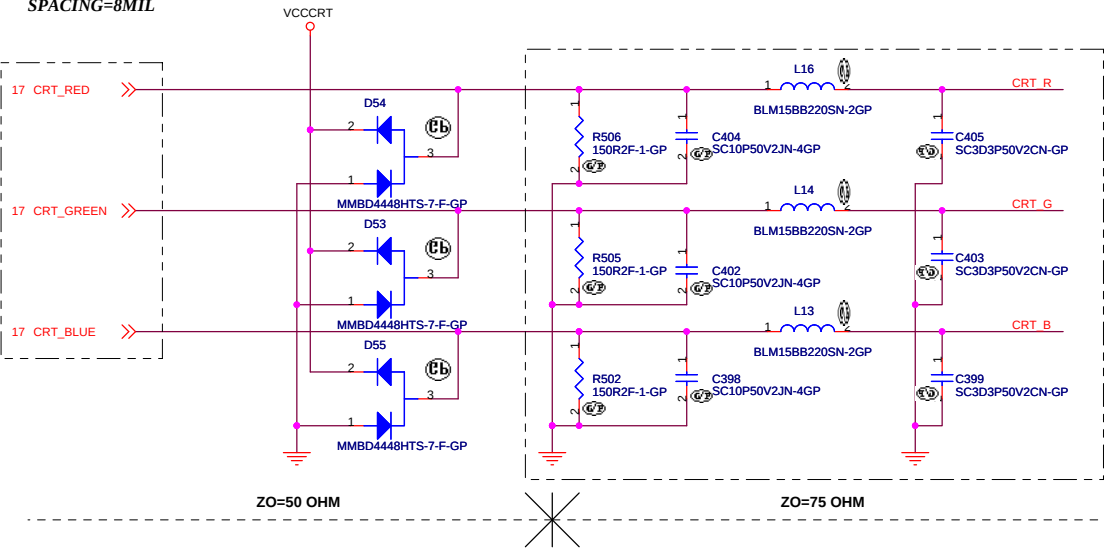
System DP: GMCH to SLICE Connector

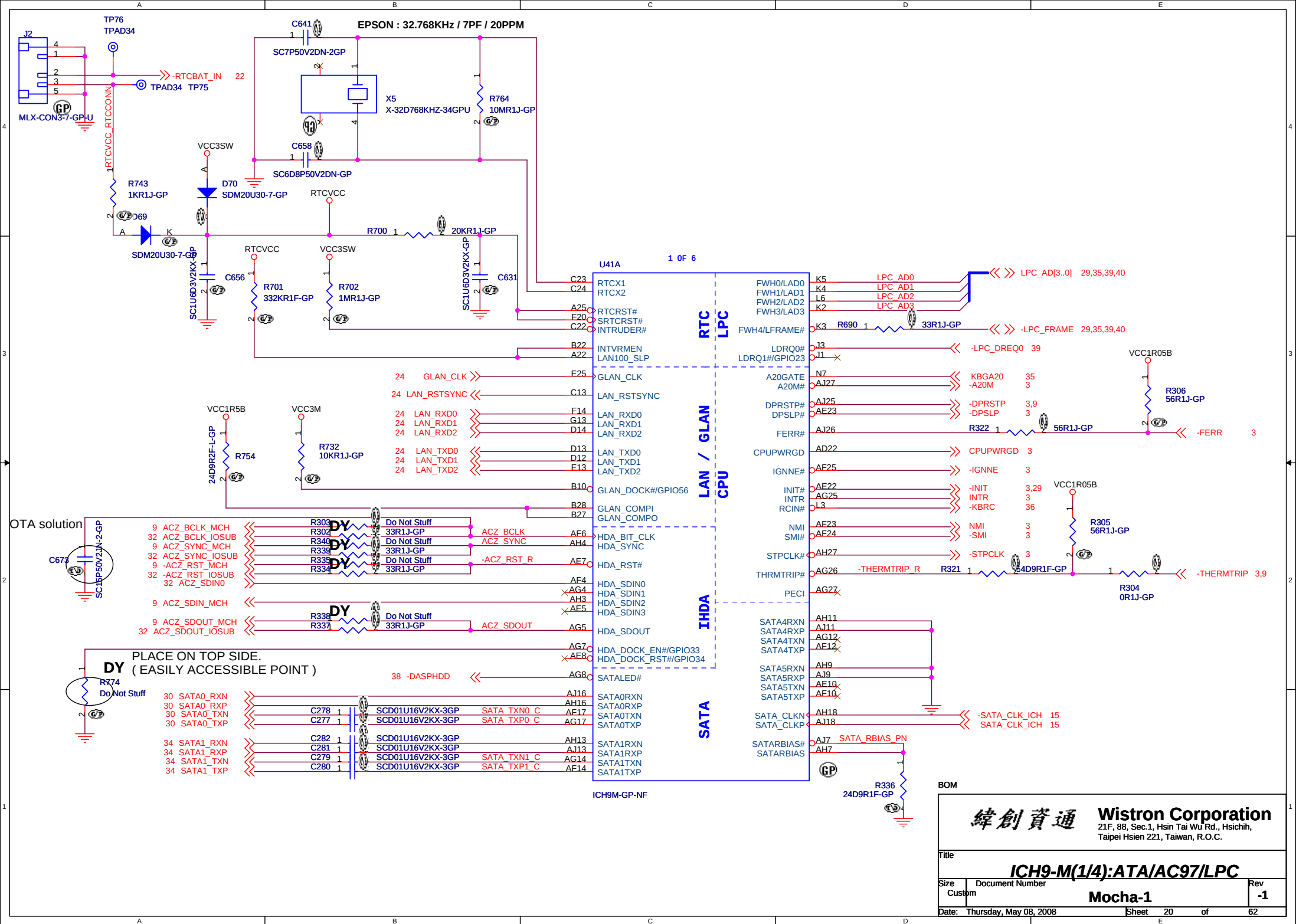


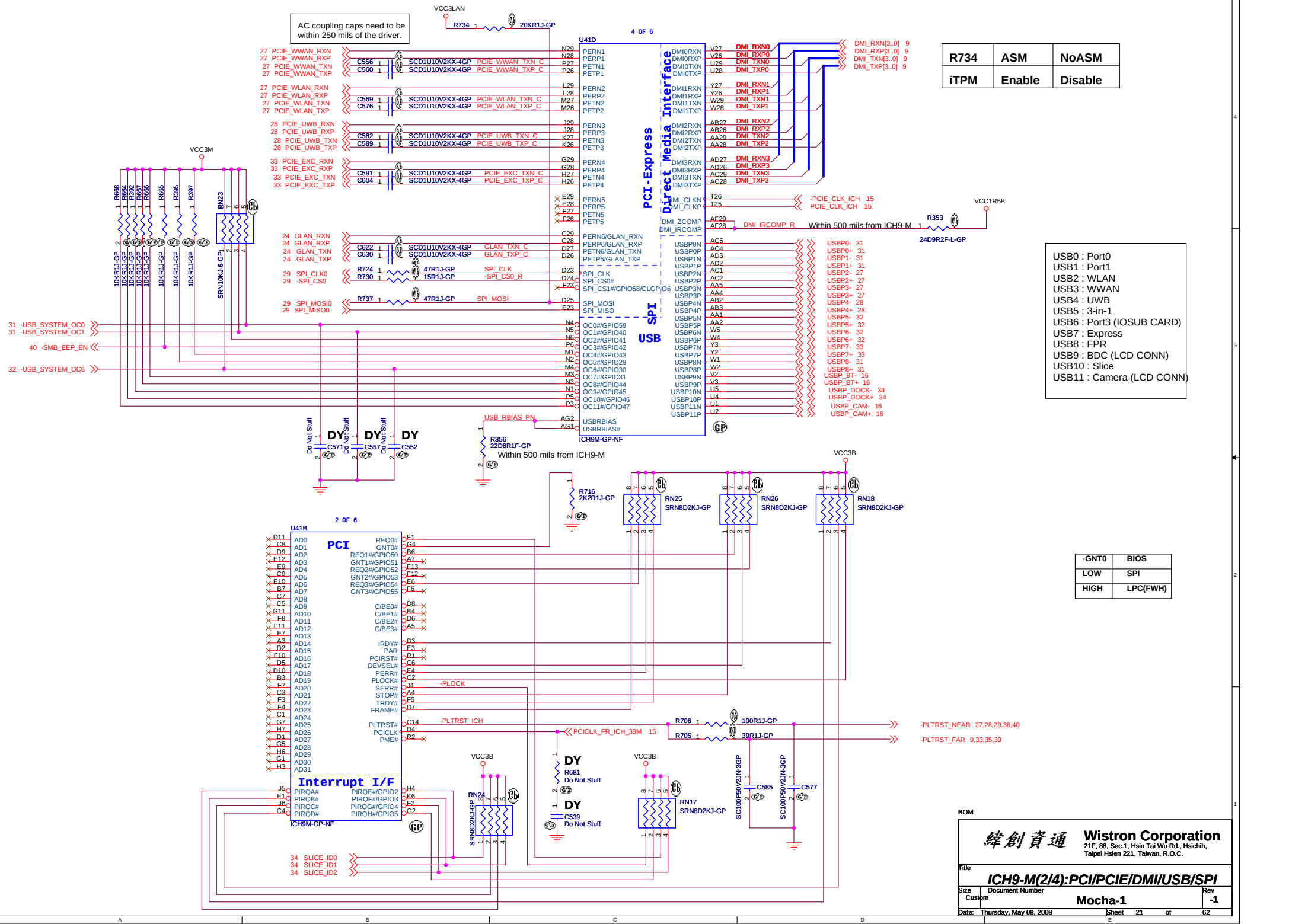
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緯創資通		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
Display Port AC Coupling			
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GND GUARDING
EACH SIGNAL WIDTH DEPENDS ON ZO(TRACE IMPEDANCE)
SPACING=8MIL







AC coupling caps need to be within 250 mils of the driver.

R734	ASM	NoASM
ITPM	Enable	Disable

USB0 : Port0
USB1 : Port1
USB2 : WLAN
USB3 : WWAN
USB4 : UWB
USB5 : 3-in-1
USB6 : Port3 (IOSUB CARD)
USB7 : Express
USB8 : FPR
USB9 : BDC (LCD CONN)
USB10 : Slice
USB11 : Camera (LCD CONN)

-GNT0	BIOS
LOW	SPI
HIGH	LPC(FWH)

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Title

ICH9-M(2/4):PCI/PCIE/DMI/USB/SPI

Size

Custom

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-1

CLGPIO5 PHYSICAL PRESENCE
ACTIVE HIGH
CAN USE SOFTWARE OVERRIDE FLAG

	PECAN_ID
Mocha-1	H
Pecan-1	L
Caramel-1	L

BOM

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Title

ICH9-M(3/4):PM/SMB/GPIO

Size

Document Number

Custom

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Rev

-1

Date

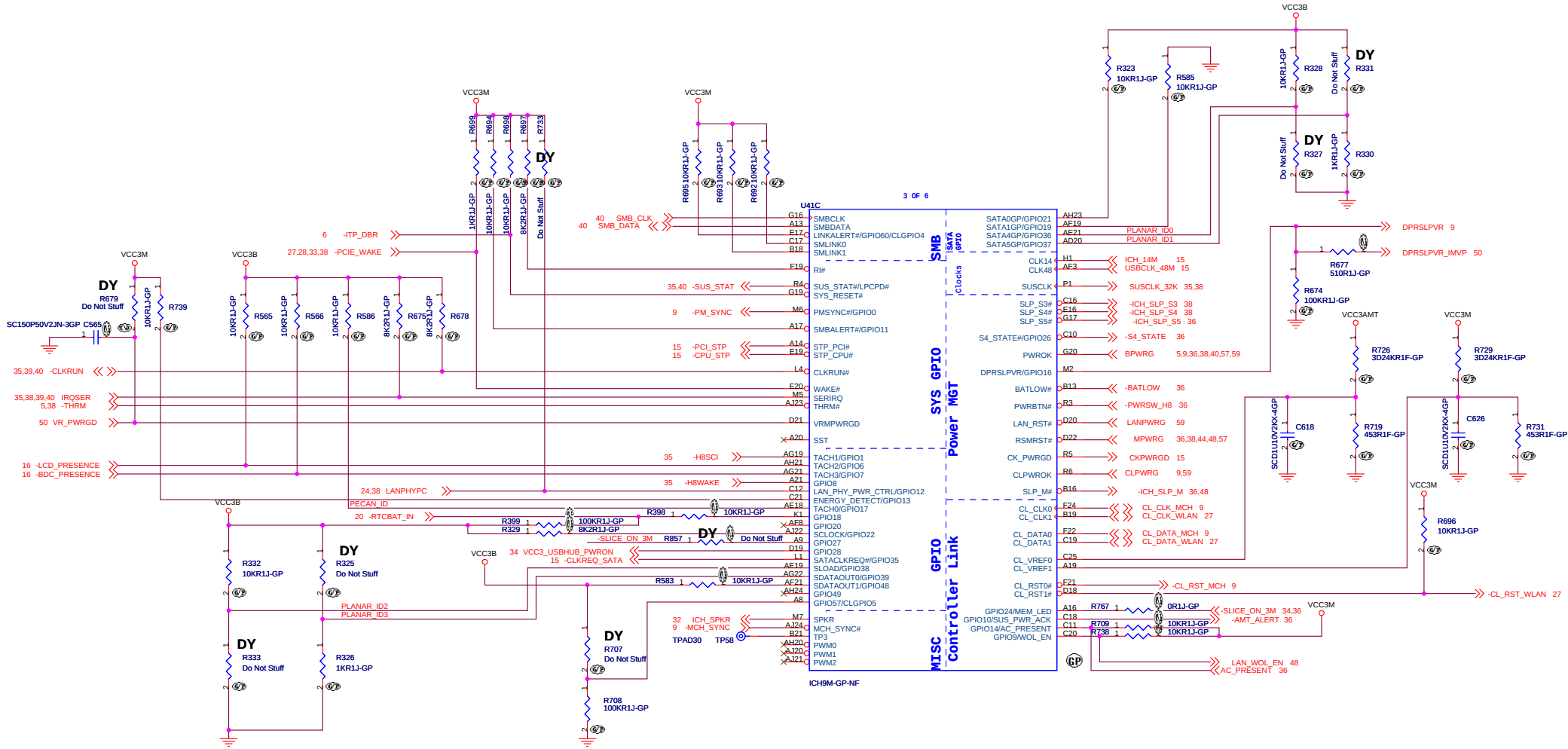
Thursday, May 08, 2008

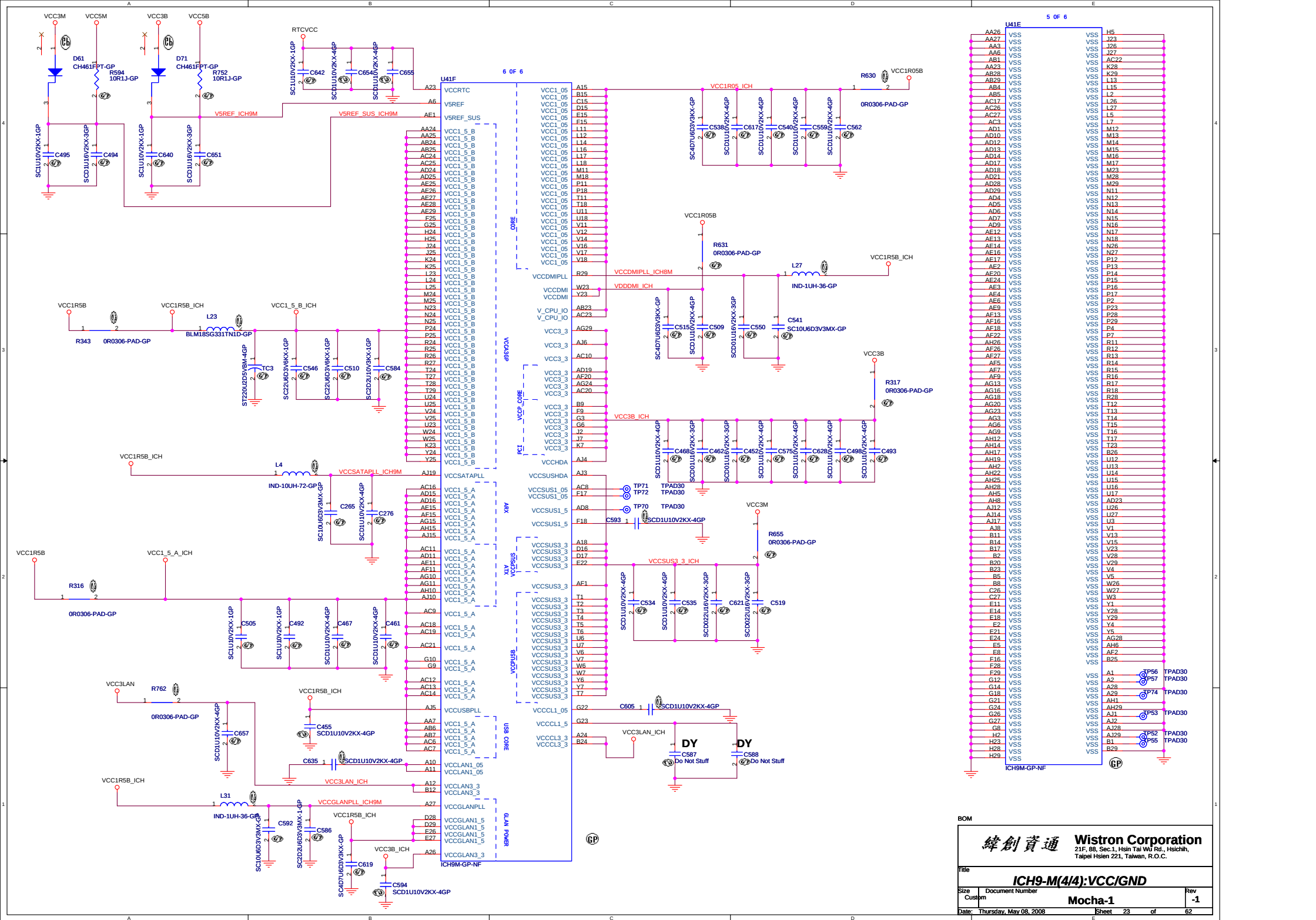
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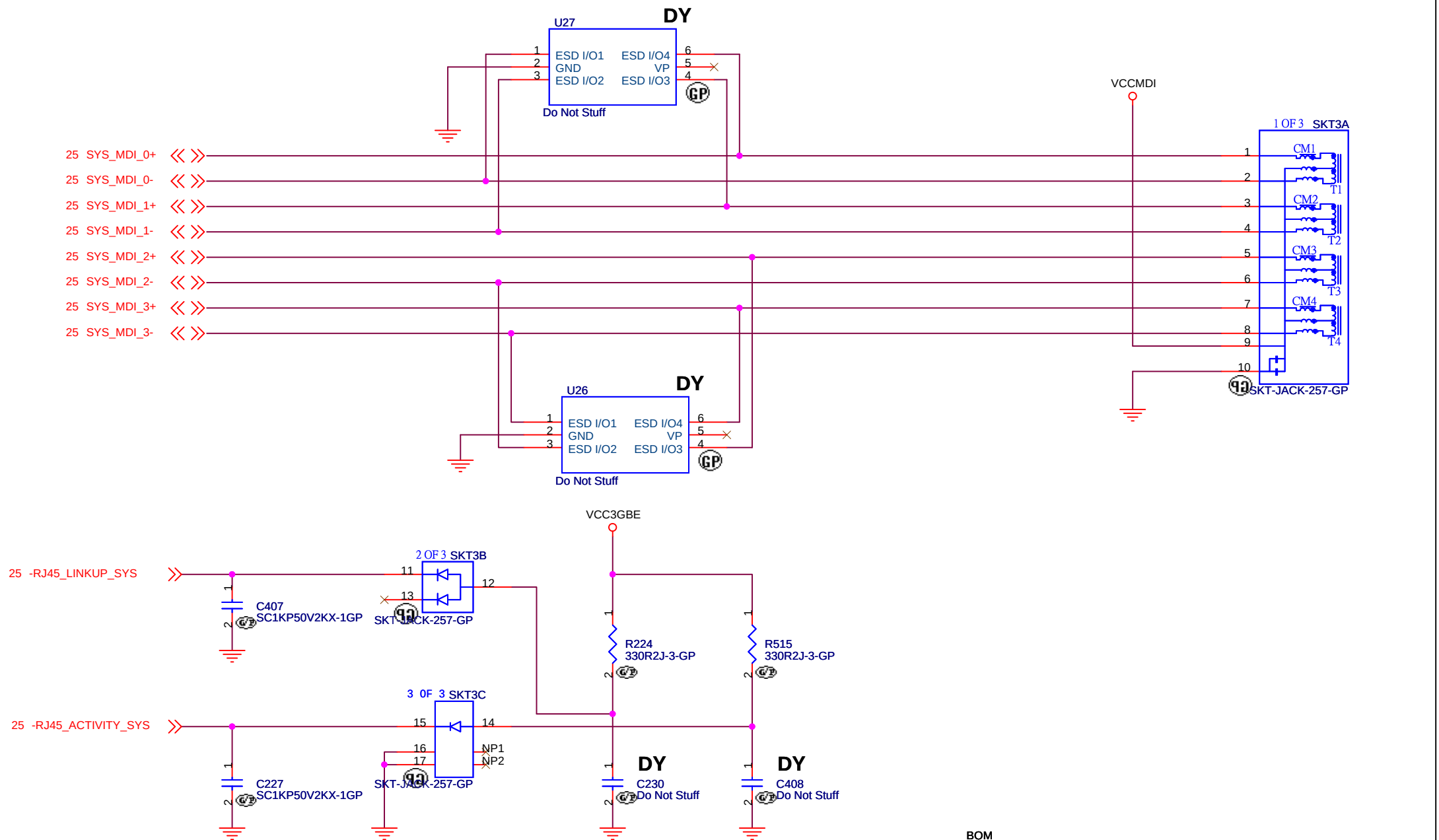
62



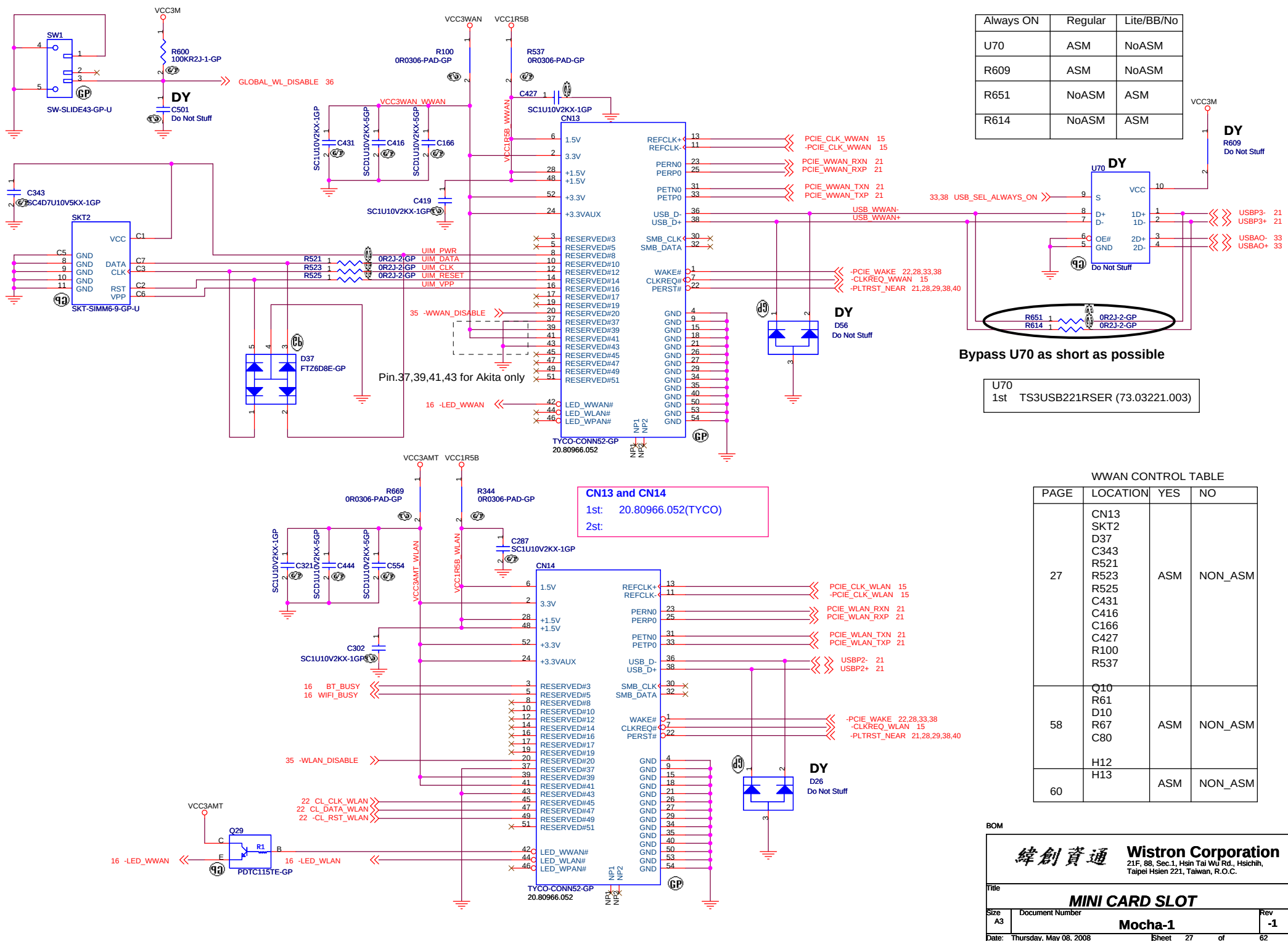




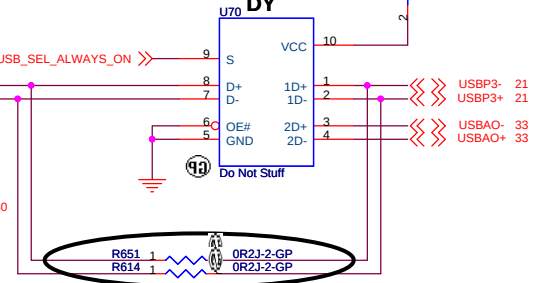
Title			
GBE BOAZMAN			
Size	Document Number		Rev
A3		Mocha-1	-1
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BOM			
緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title			
RJ45 CONN			
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	Always ON	Regular	Lite/BB/No
U70	ASM	ASM	NoASM
R609	ASM	ASM	NoASM
R651	NoASM	ASM	ASM
R614	NoASM	ASM	ASM



Bypass U70 as short as possible

U70
1st TS3USB221RSER (73.03221.003)

CN13 and CN14
1st: 20.80966.052(TYCO)
2st:

WWAN CONTROL TABLE

PAGE	LOCATION	YES	NO
27	CN13 SKT2 D37 C343 R521 R523 C431 C416 C166 C427 R100 R537	ASM	NON_ASM
58	Q10 R61 D10 R67 C80	ASM	NON_ASM
60	H12 H13	ASM	NON_ASM

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Title

MINI CARD SLOT

Size

A3

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Date

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Sheet

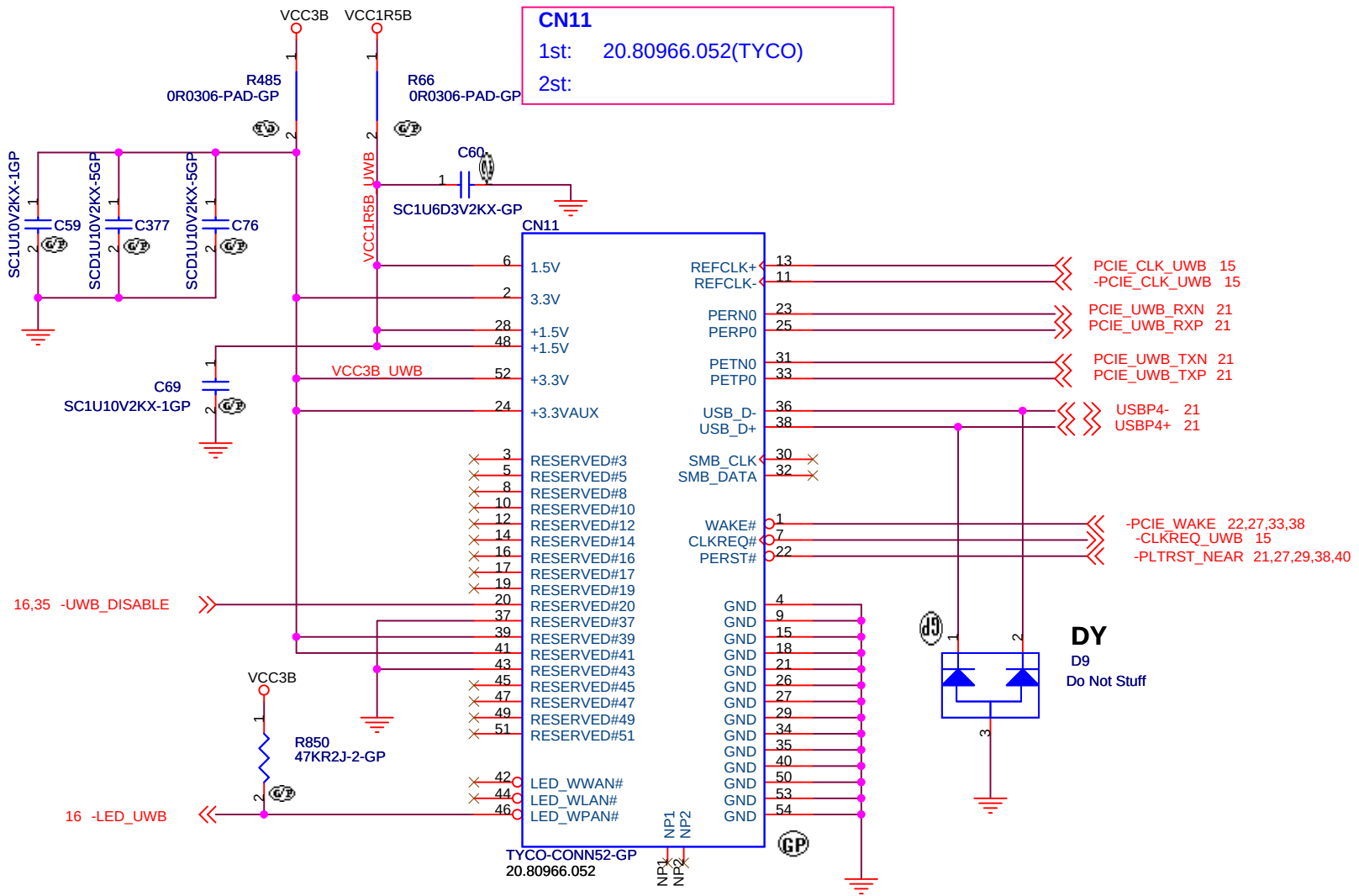
27

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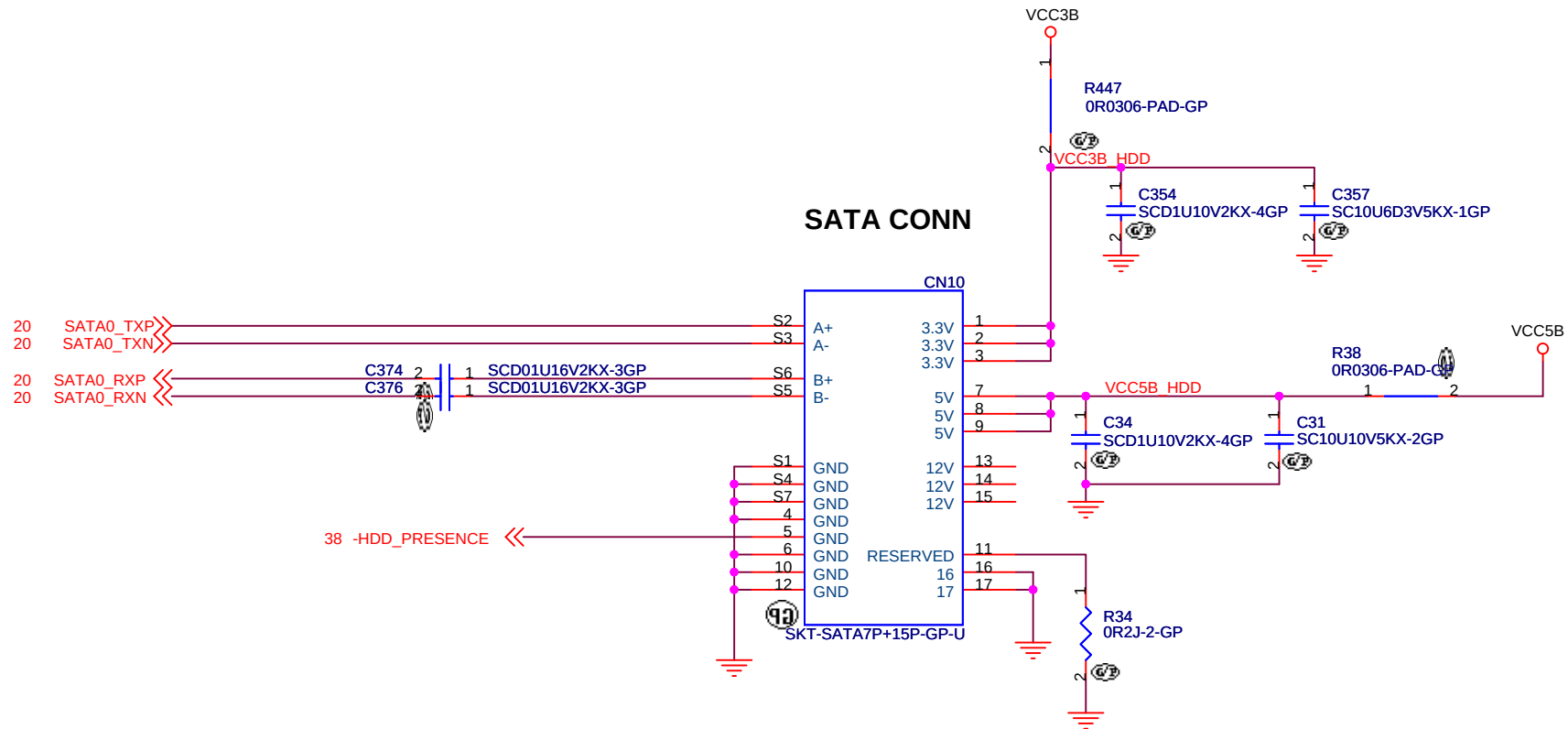
CN11
1st: 20.80966.052(TYCO)
2st:

DY
D9
Do Not Stuff

4

11

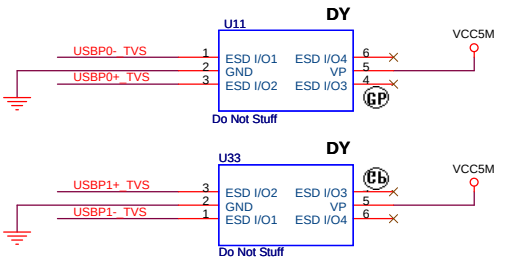
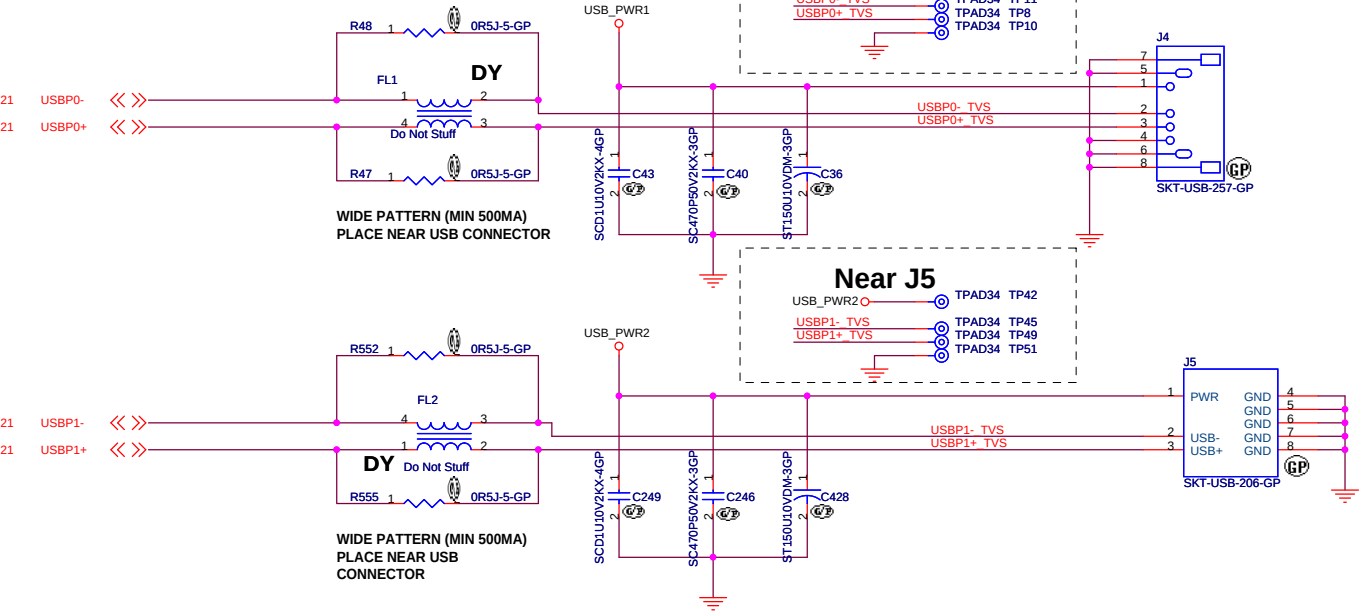
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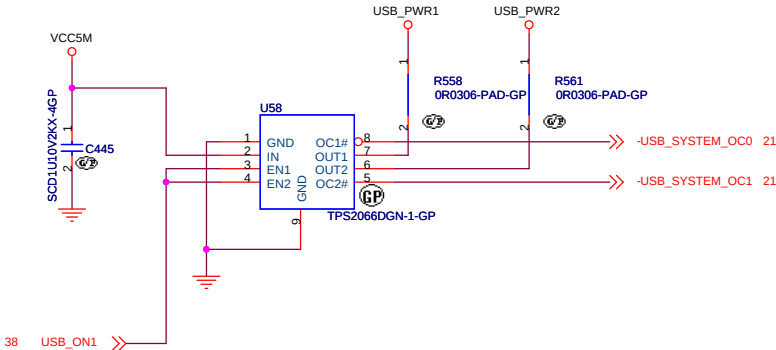
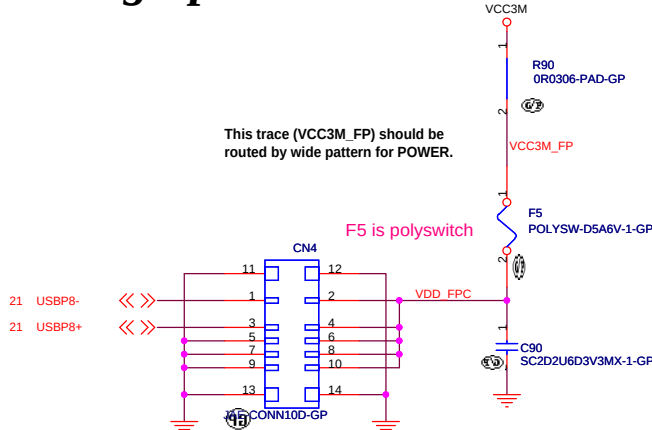
緯創資通		Wistron Corporation	
		21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
2.5 inch SATA Connector			
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COMMON MODE CHOKE COIL: TDK ACM2520U
PLACE THESE RESISTORS AS THE CHOKE COIL ARE ALSO
PLACED ON THE SMA PADS OF THESE TWO 0-OHM
RESISTORS



Fingerprint Reader

This trace (VCC3M_FP) should be
routed by wide pattern for POWER.

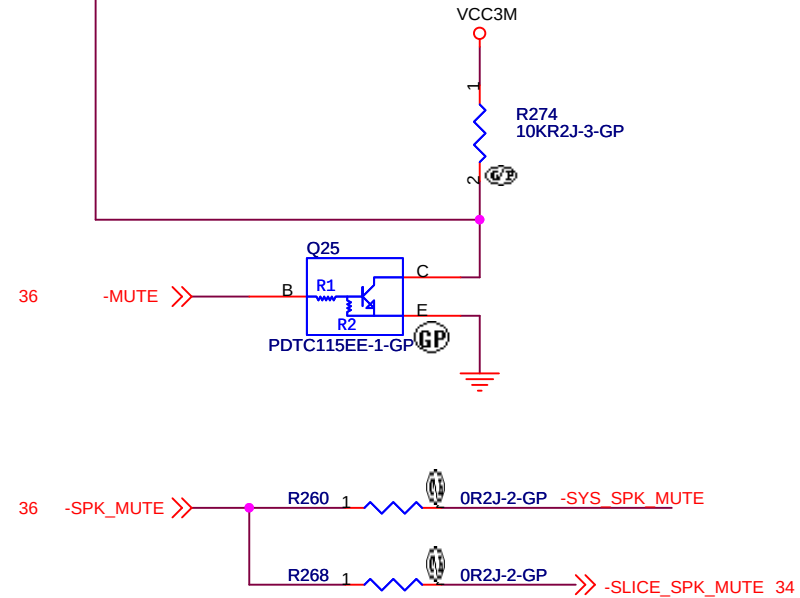
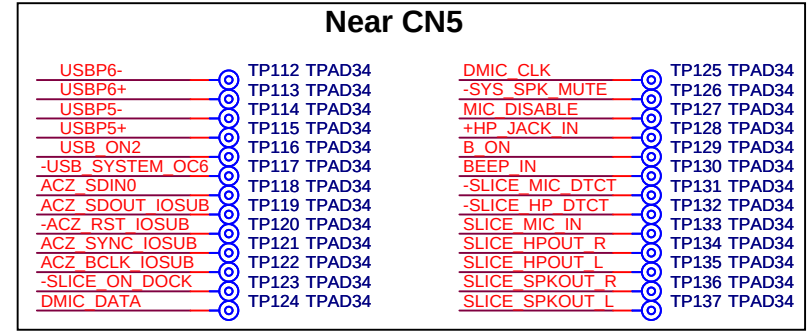
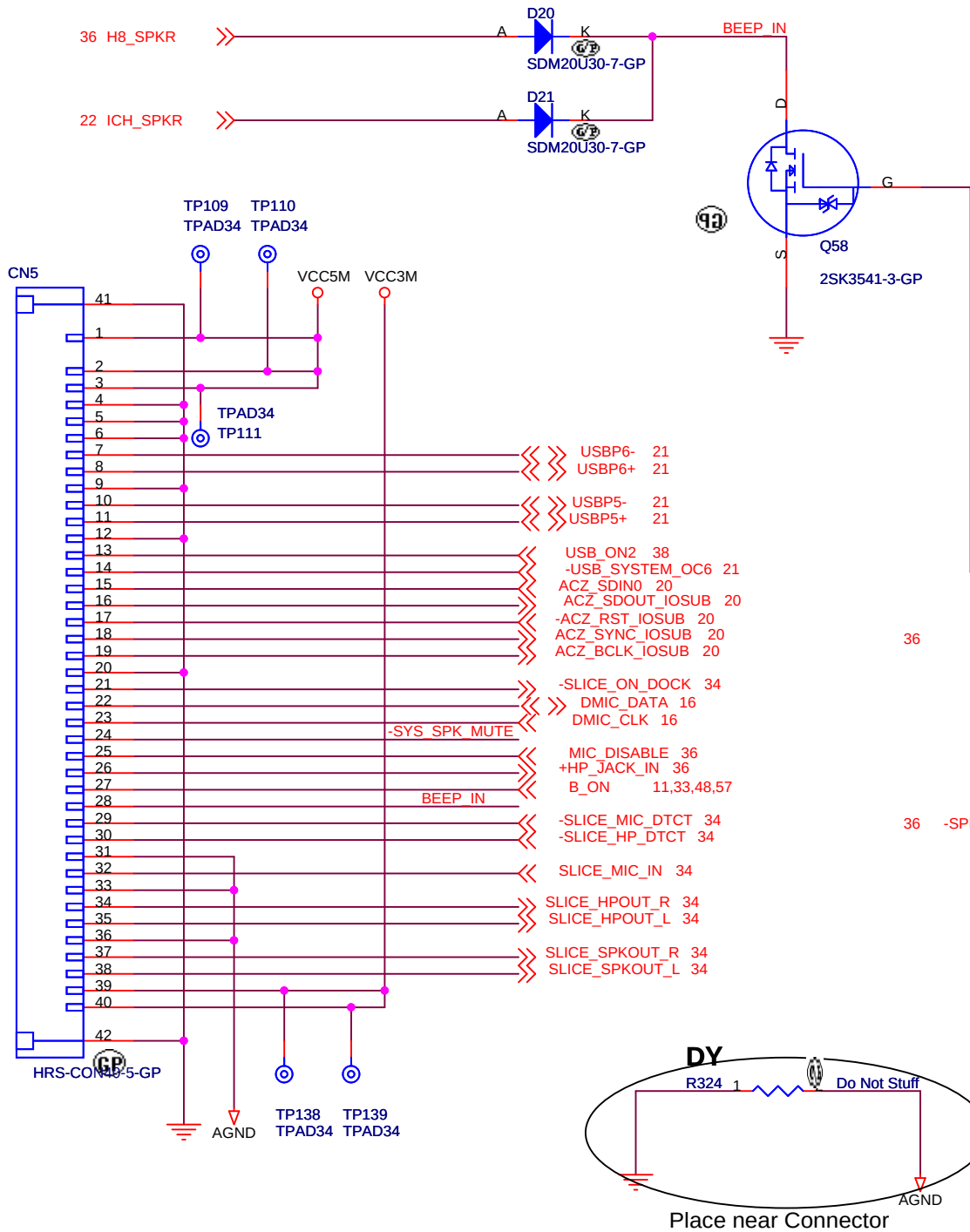


U58			
1st	TI	TPS2066DGN-1	74.02066.B71
2nd	TI	TPS2066DGN	74.02066.A71

BOM

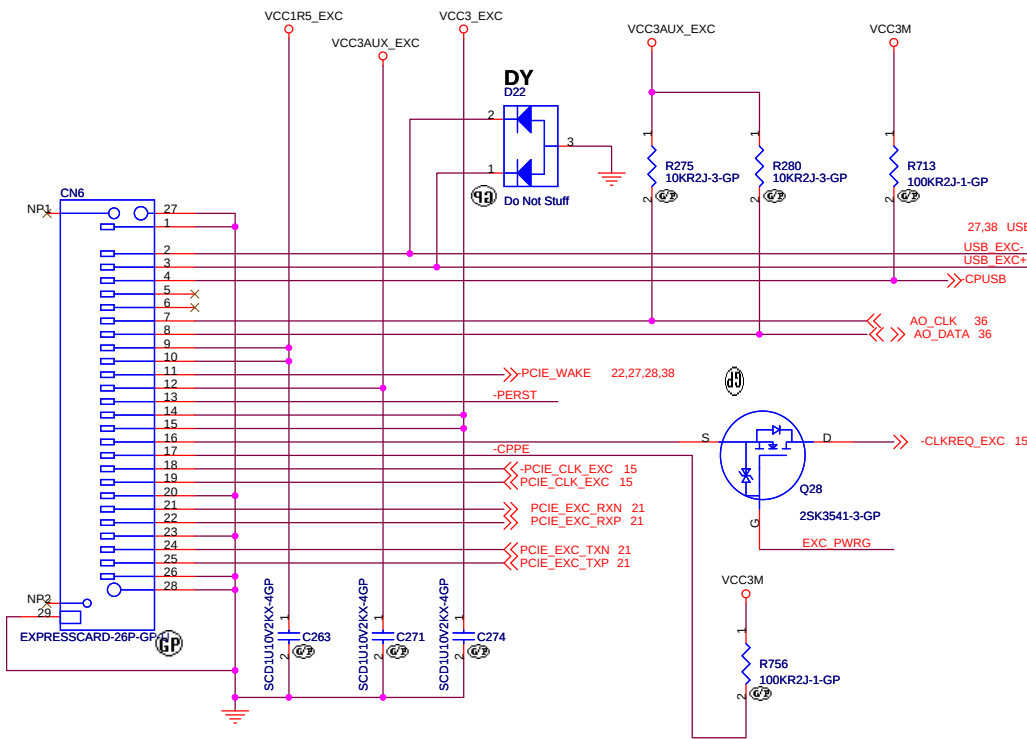
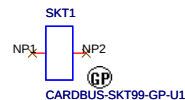
Title		USB POWER / CONNECTOR	
Size	A3	Document Number	Mocha-1
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緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Sub-CARD CONNECTOR	
Title Sub-CARD CONNECTOR	Document Number Mocha-1
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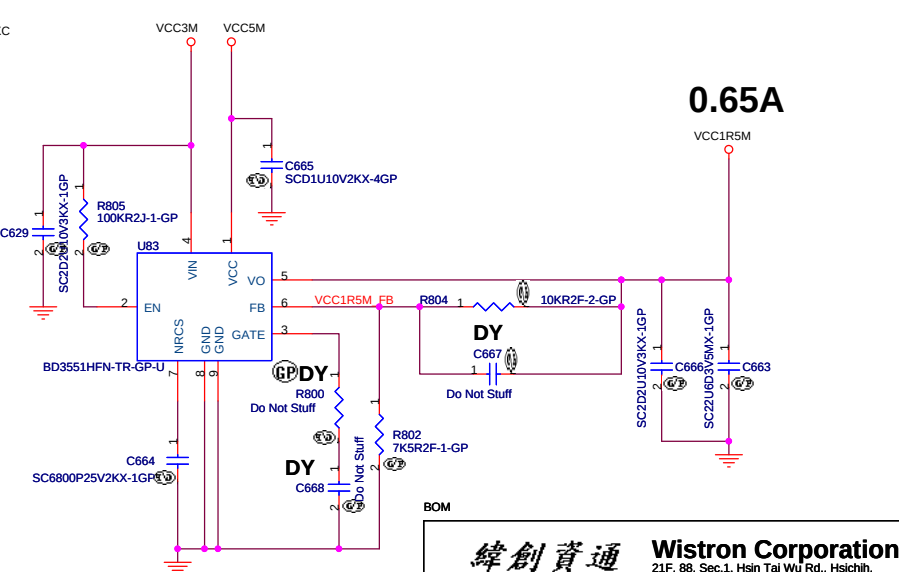
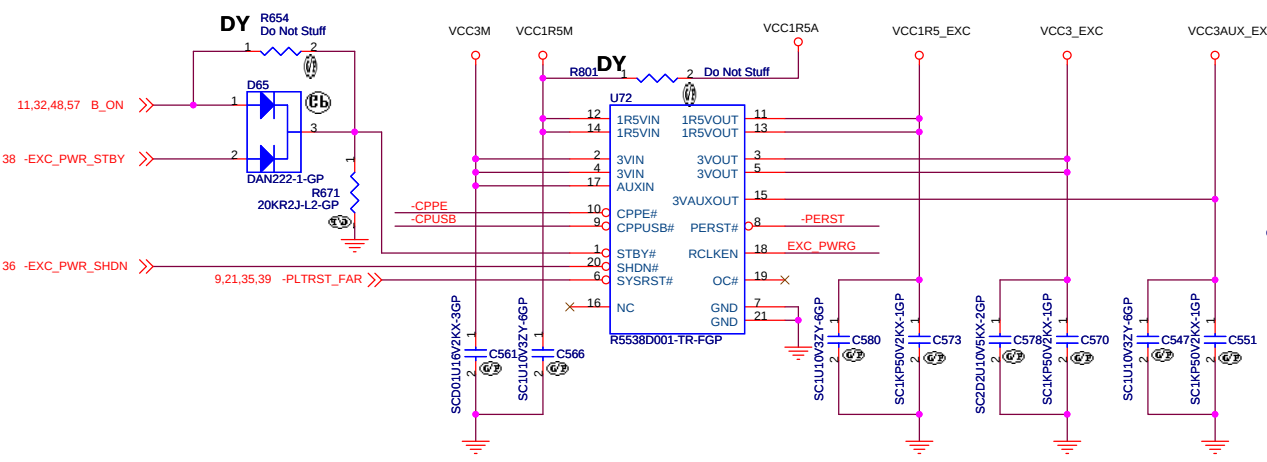


Bypass U39 as short as possible

U39
1st TSUSB221R SER (73.03221.003)

Always ON	REG	LITE/BB/NO
U39	ASM	NoASM
R379	ASM	NoASM
R382	NoASM	ASM
R373	NoASM	ASM

Always On	REG/BB	LITE/NO
U83	ASM	NoASM
R805	ASM	NoASM
C629	ASM	NoASM
C665	ASM	NoASM
C664	ASM	NoASM
R800	NoASM	NoASM
C668	NoASM	NoASM
R802	ASM	NoASM
R804	ASM	NoASM
C667	NoASM	NoASM
C666	ASM	NoASM
C663	ASM	NoASM



Always ON	REG/BB	LITE/NO
D65	ASM	NoASM
R671	ASM	NoASM
R654	NoASM	ASM
R801	NoASM	ASM

		U72	Wistron P/N
1st	RICOH	R5538D001-TR	74.05538.073
2nd	Winbond	W83L351YG	74.83351.073
3rd	TI	TPS2231RGPR	74.02231.073

0.65A

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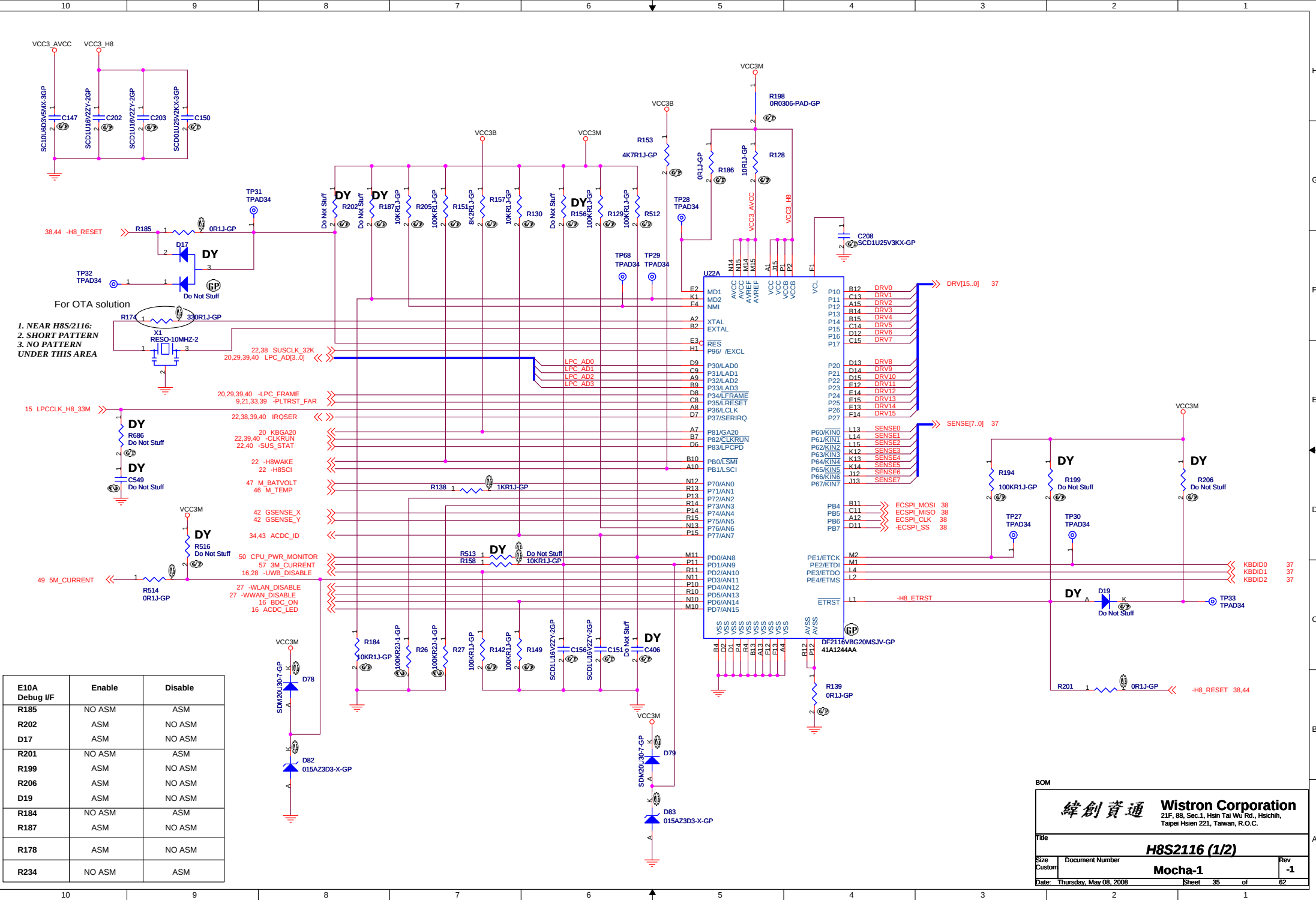
Express Card Slot/PWR

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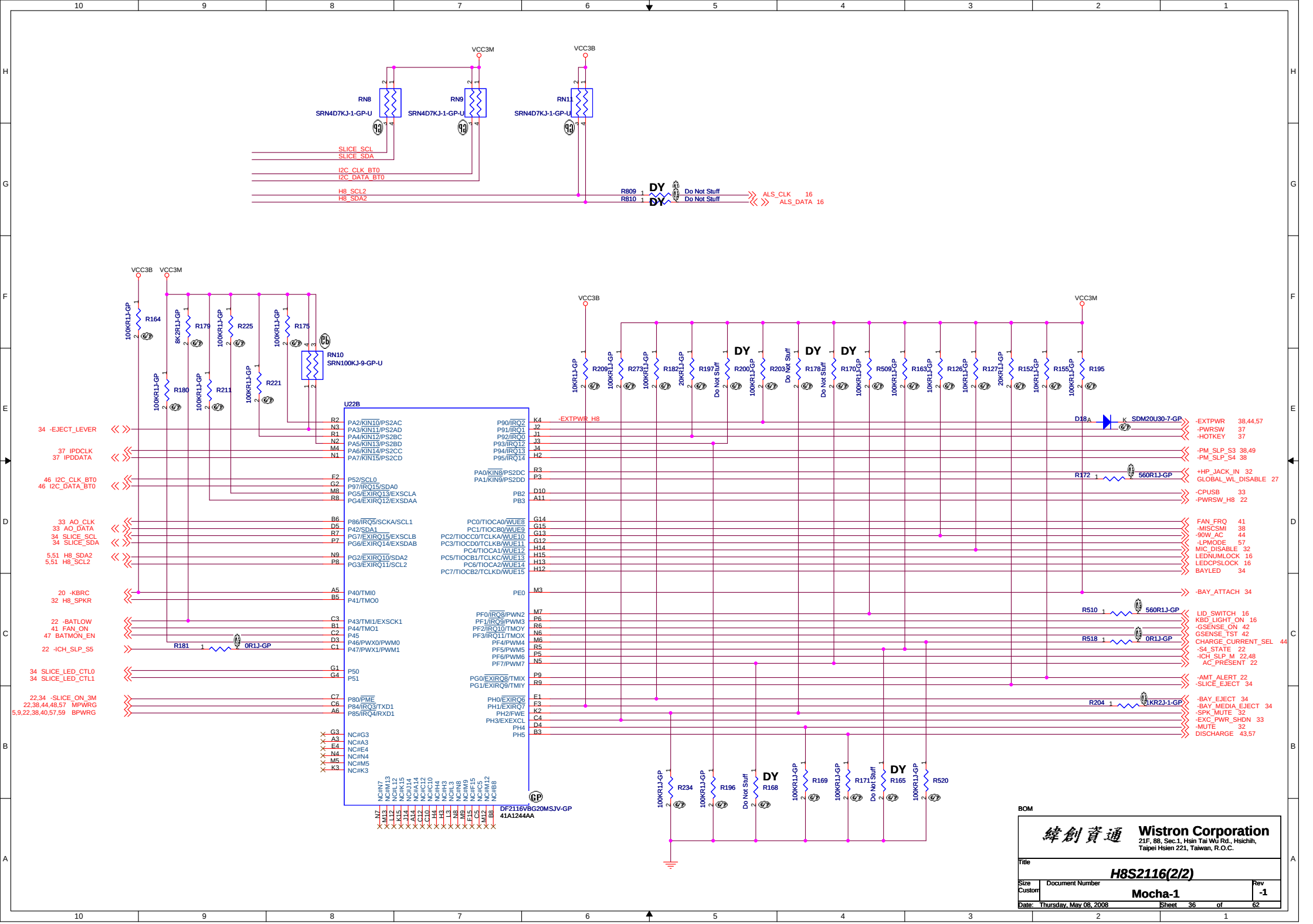
E10A Debug I/F	Enable	Disable
R185	NO ASM	ASM
R202	ASM	NO ASM
D17	ASM	NO ASM
R201	NO ASM	ASM
R199	ASM	NO ASM
R206	ASM	NO ASM
D19	ASM	NO ASM
R184	NO ASM	ASM
R187	ASM	NO ASM
R178	ASM	NO ASM
R234	NO ASM	ASM

- For OTA solution
1. NEAR H8S/2116:
 2. SHORT PATTERN
 3. NO PATTERN UNDER THIS AREA

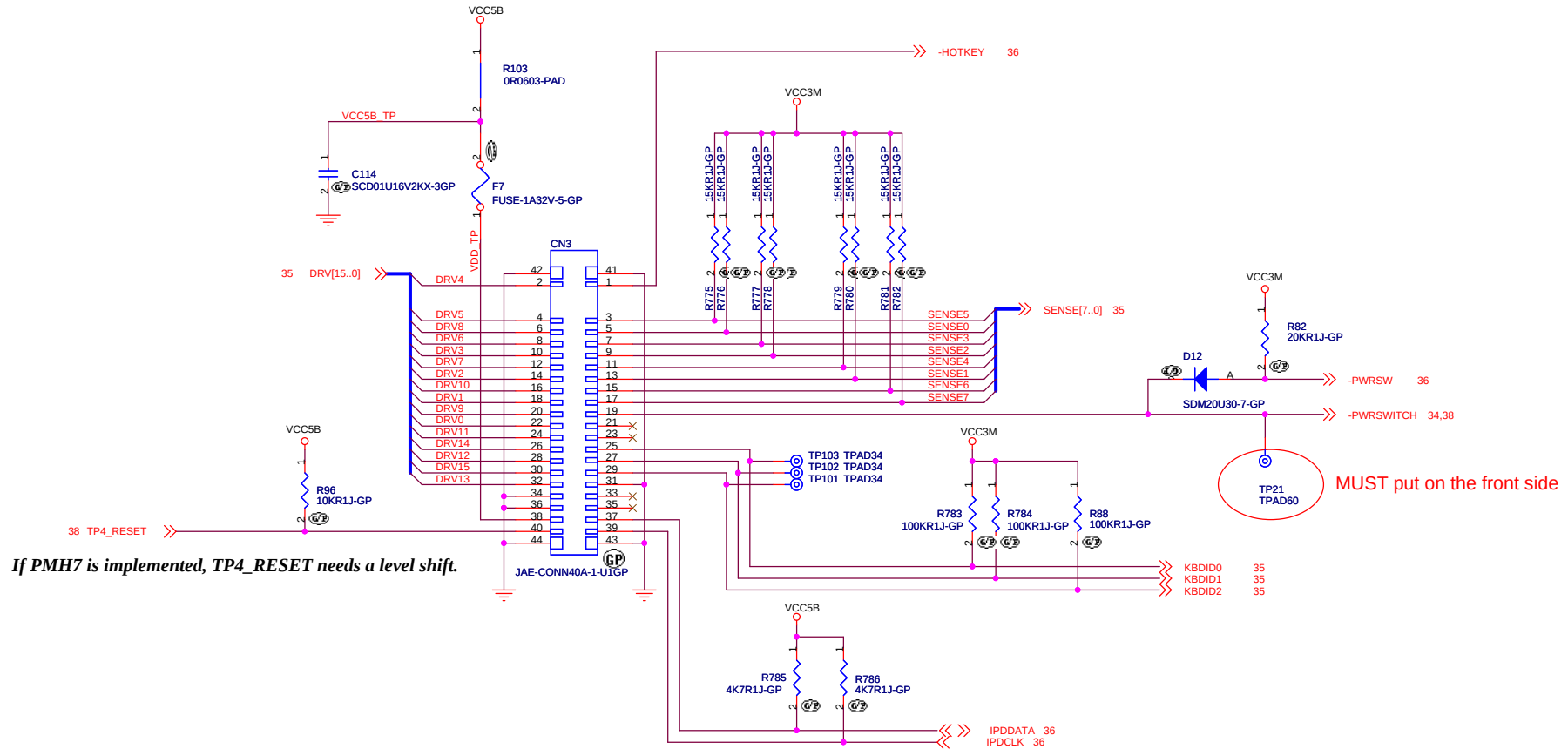


BOM

緯創資通 Wistron Corporation	
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title H8S2116 (1/2)	
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Keyboard Connector

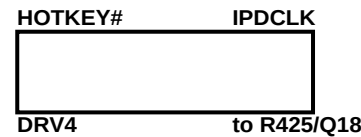


If PMH7 is implemented, TP4_RESET needs a level shift.

MUST put on the front side

Near CN3

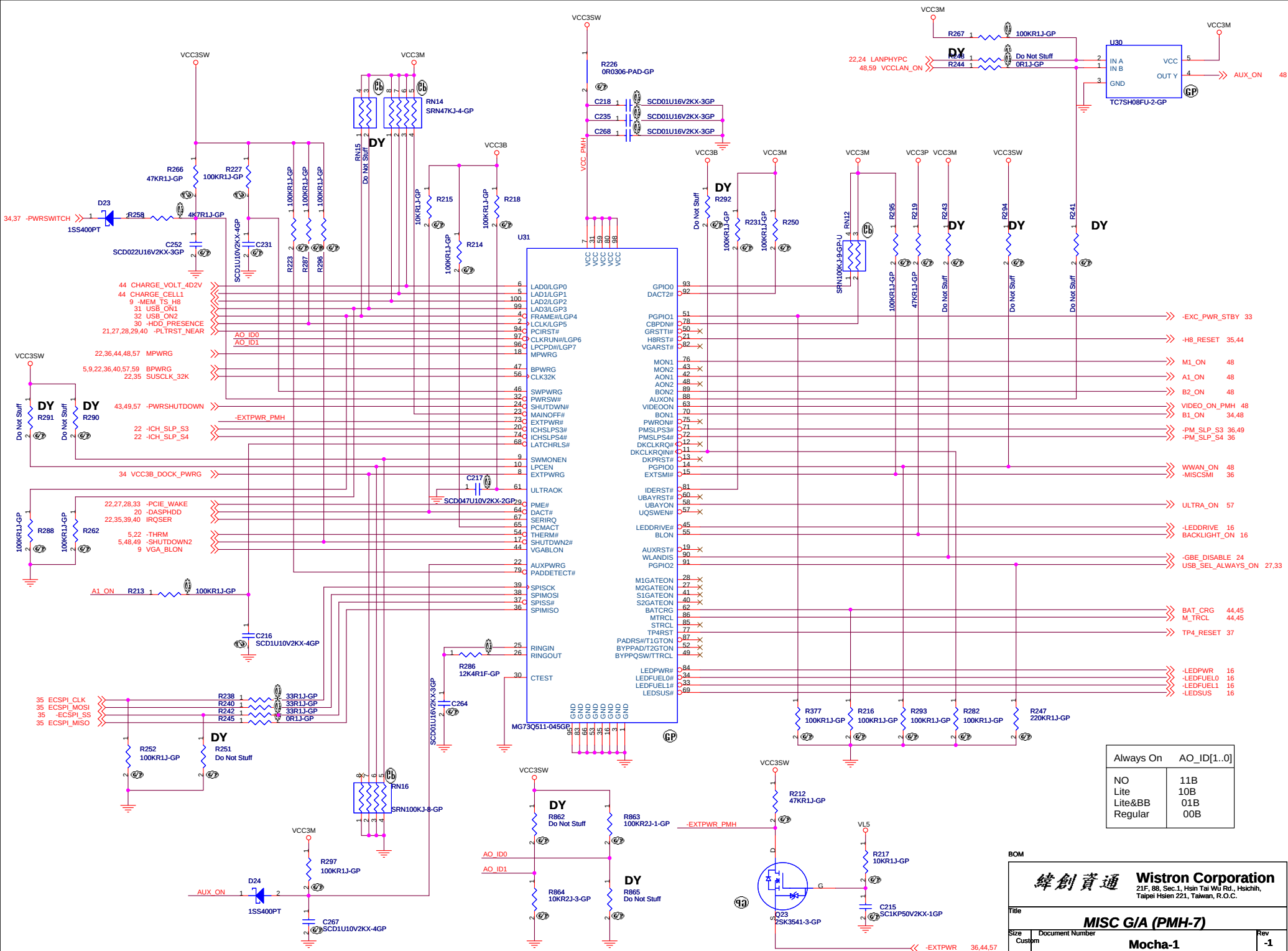
DRV4	TP77	TPAD34	SENSE5	TP93	TPAD34
DRV5	TP78	TPAD34	SENSE0	TP94	TPAD34
DRV6	TP79	TPAD34	SENSE3	TP95	TPAD34
DRV7	TP80	TPAD34	SENSE2	TP96	TPAD34
DRV8	TP81	TPAD34	SENSE4	TP97	TPAD34
DRV9	TP82	TPAD34	SENSE1	TP98	TPAD34
DRV10	TP83	TPAD34	SENSE6	TP99	TPAD34
DRV11	TP84	TPAD34	SENSE7	TP100	TPAD34
DRV12	TP85	TPAD34	IPDDATA	TP104	TPAD34
DRV13	TP86	TPAD34	IPDCLK	TP105	TPAD34
TP87	TPAD34	TP4_RESET	TP106	TPAD34	
TP88	TPAD34	VDD TP	TP107	TPAD34	
TP89	TPAD34	-HOTKEY	TP108	TPAD34	
TP90	TPAD34				
TP91	TPAD34				
TP92	TPAD34				



Keyboard Connector Top View

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Title	
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Date: Thursday, May 08, 2008	
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KEYBOARD CONN Mocha-1	

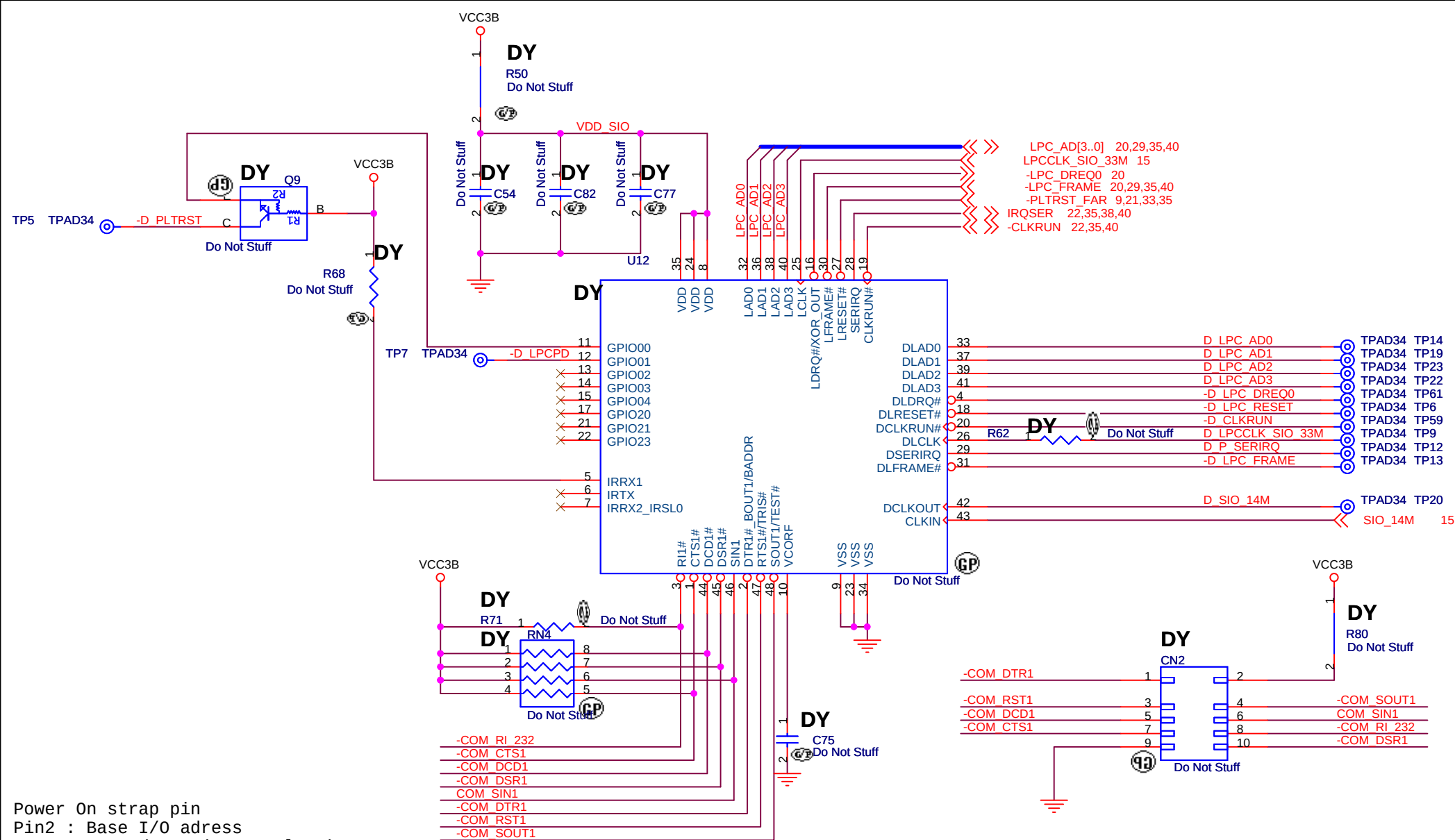


Always On	AO_ID[1..
NO	11B
Lite	10B
Lite&BB	01B
Regular	00B

BOM

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

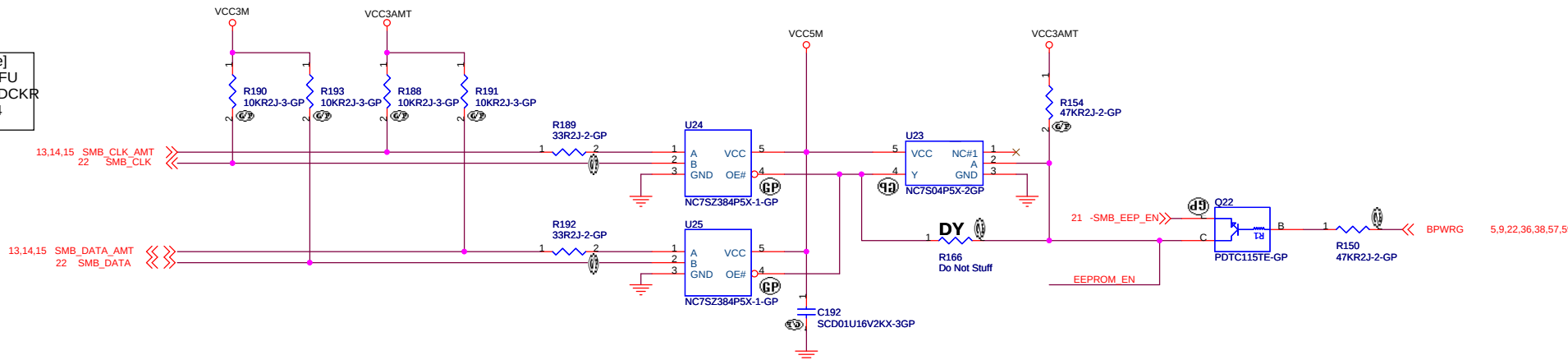
Title			
MISC G/A (PMH-7)			
Size	Document Number	Rev	
Custom	Mocha-1	-1	
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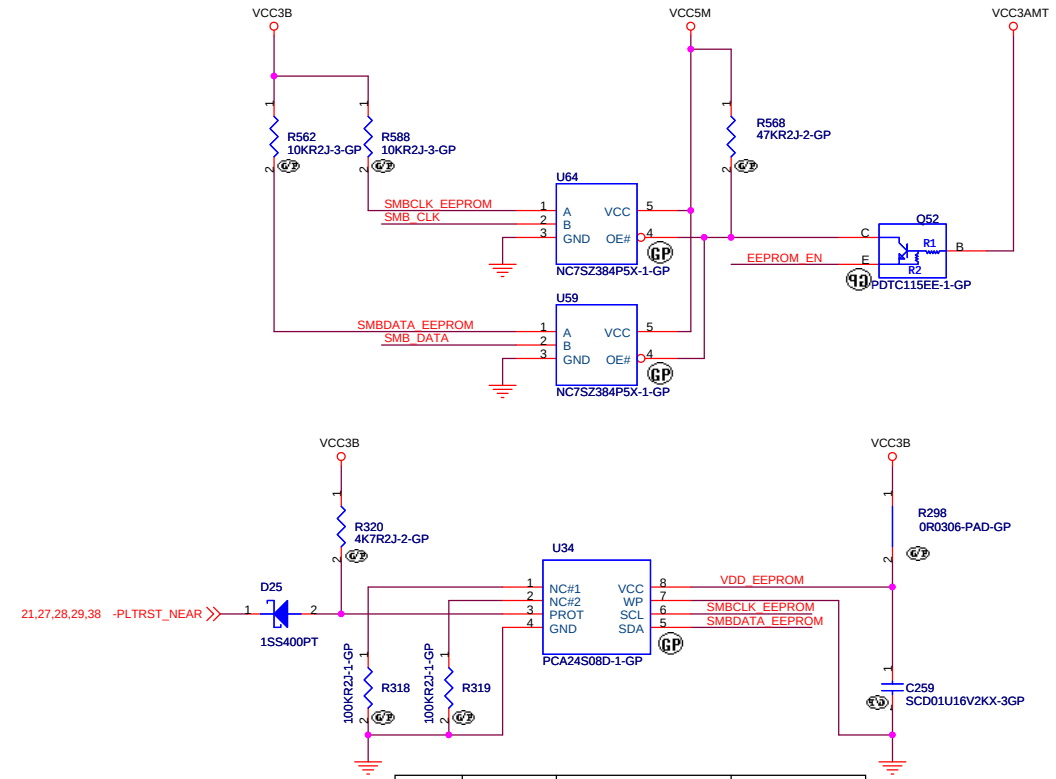
BOM

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Title			
WPCN385SDG			
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[Sourcing Candidate]
Toshiba TC7SB384FU
TI SN74CBT1G384DCKR
Fairchild NC7SZ384

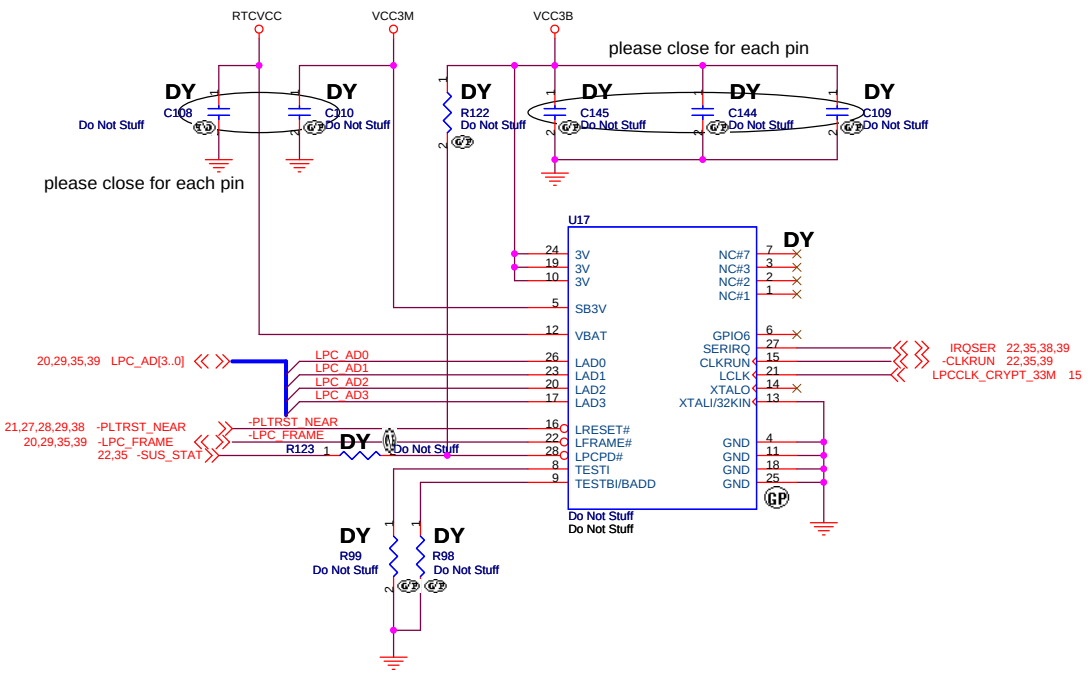


EEPROM



		U34	Wistron P/N
1st	PHILIPS	PCA24S08D	38L5170AA

TCPA



BOM

緯創資通

Wistron Corporation

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Title

EEPROM/TCPA

Size A3

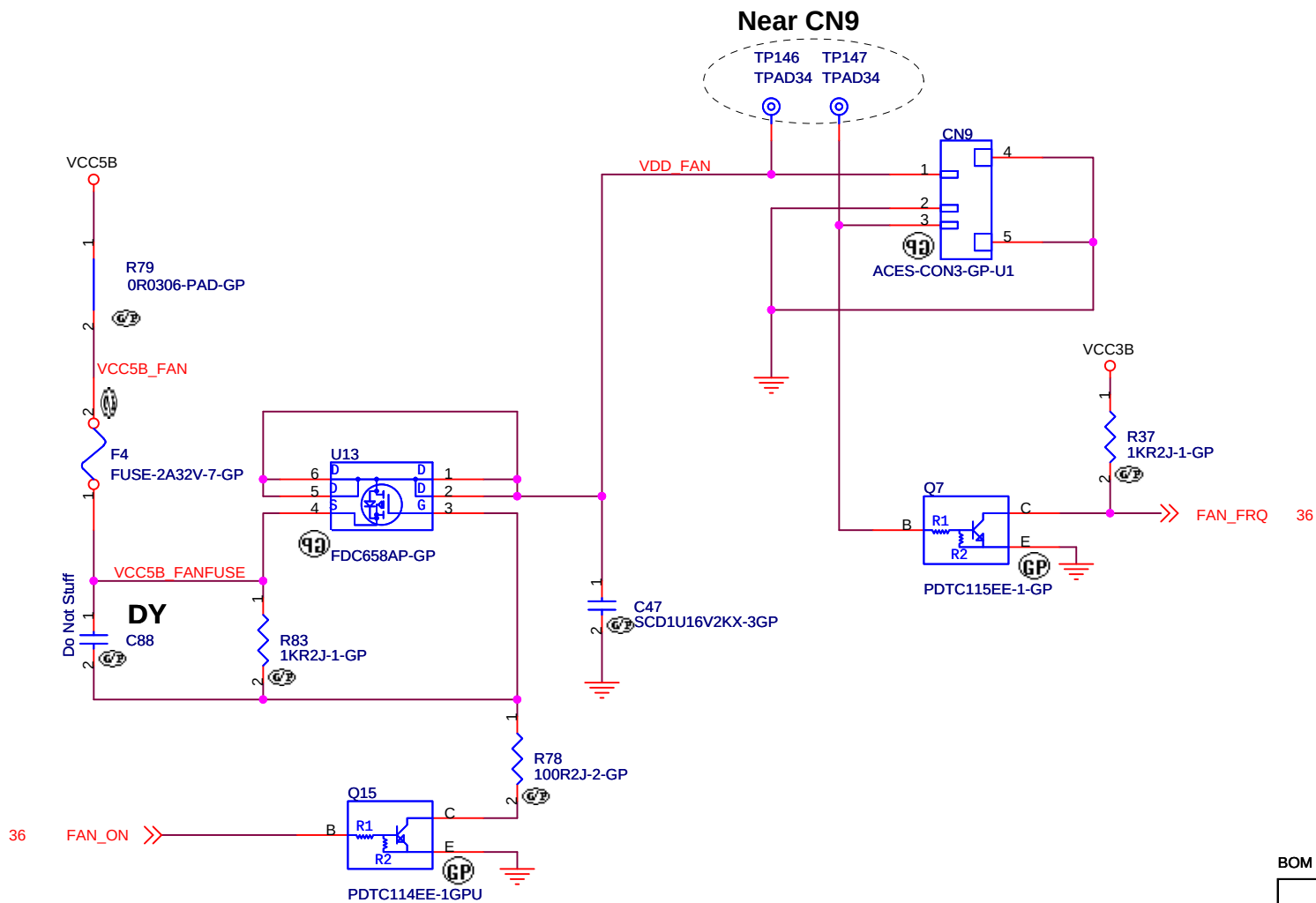
Document Number

Rev -1

Date: Thursday, May 08, 2008

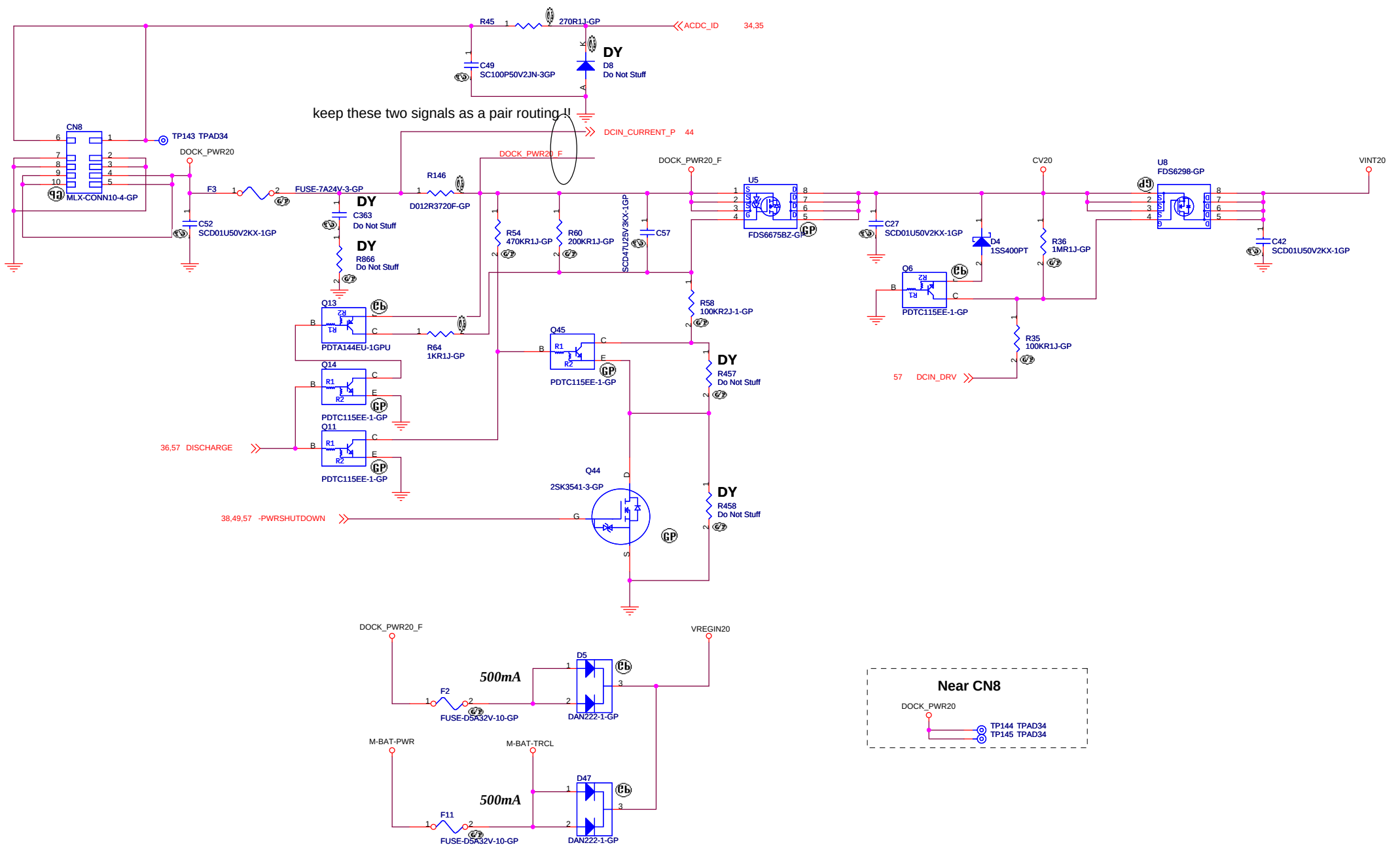
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Mocha-1



BOM

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FAN CONTROL	
Size A4	Document Number Mocha-1
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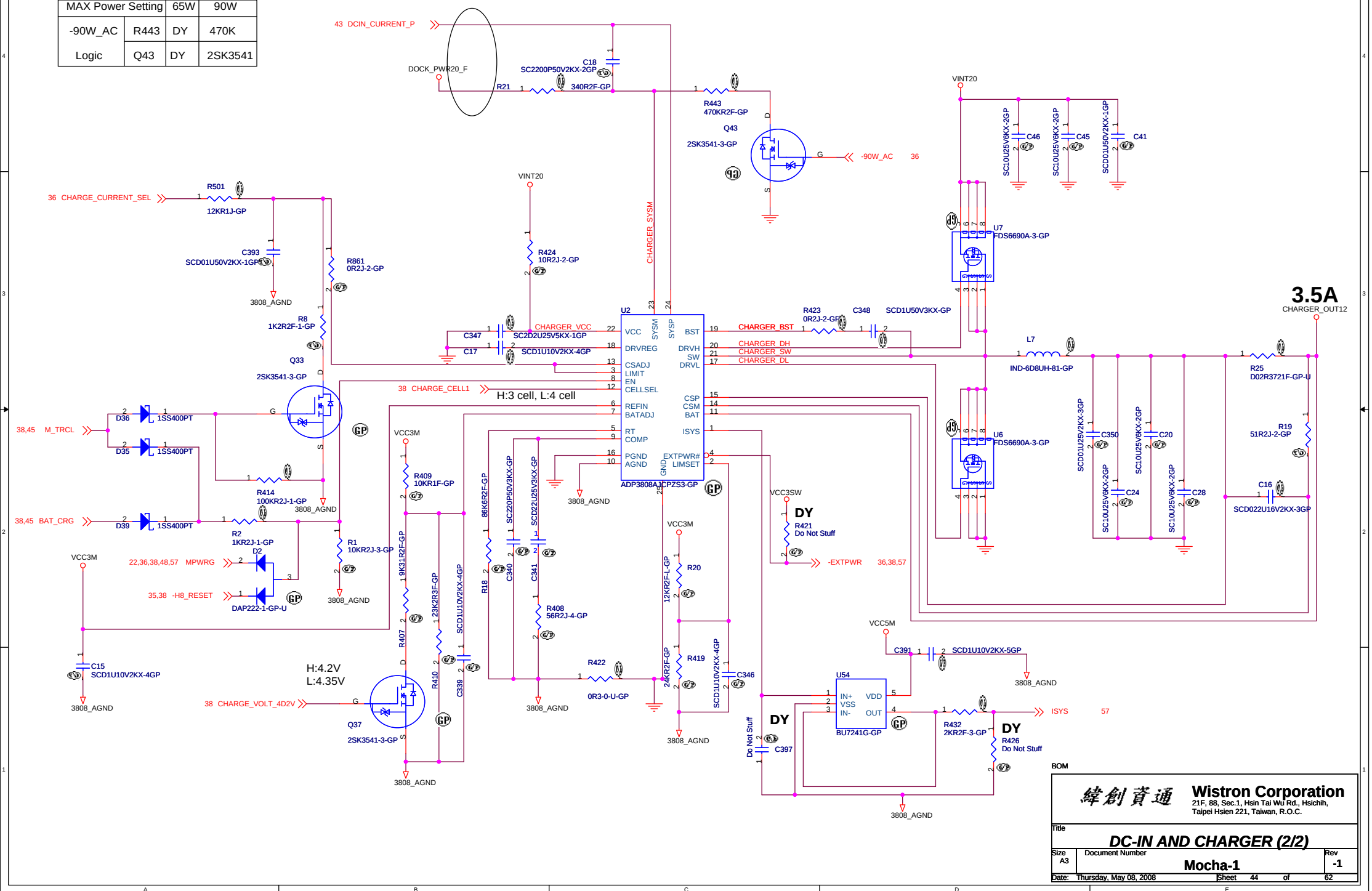
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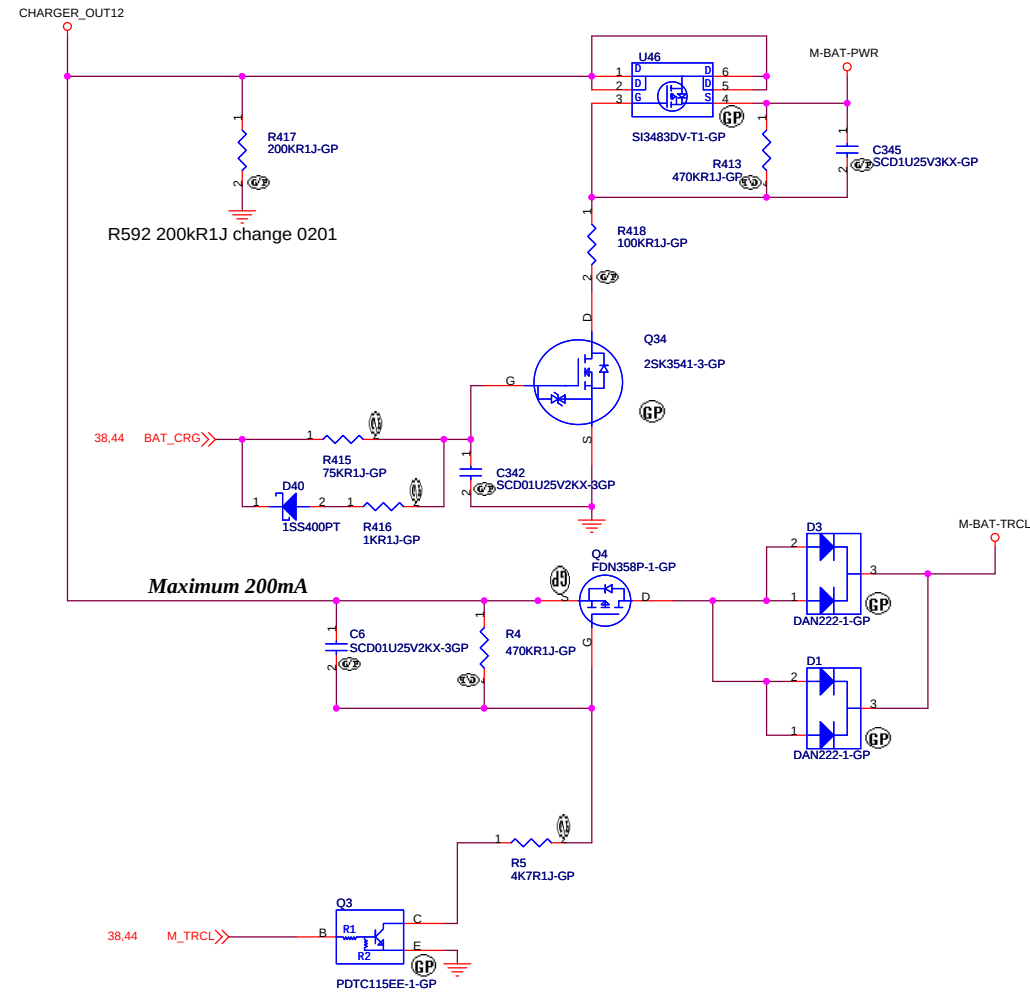
緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title			
DC-IN AND CHARGER (1/2)			
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90W, 65W, auto selection mode

MAX Power Setting	65W	90W
-90W_AC	R443 DY	470K
Logic	Q43 DY	2SK3541

Keep these two signals as a pair routing !!





BOM

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Title			
CHARGER SELECT			
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4

4

3

3

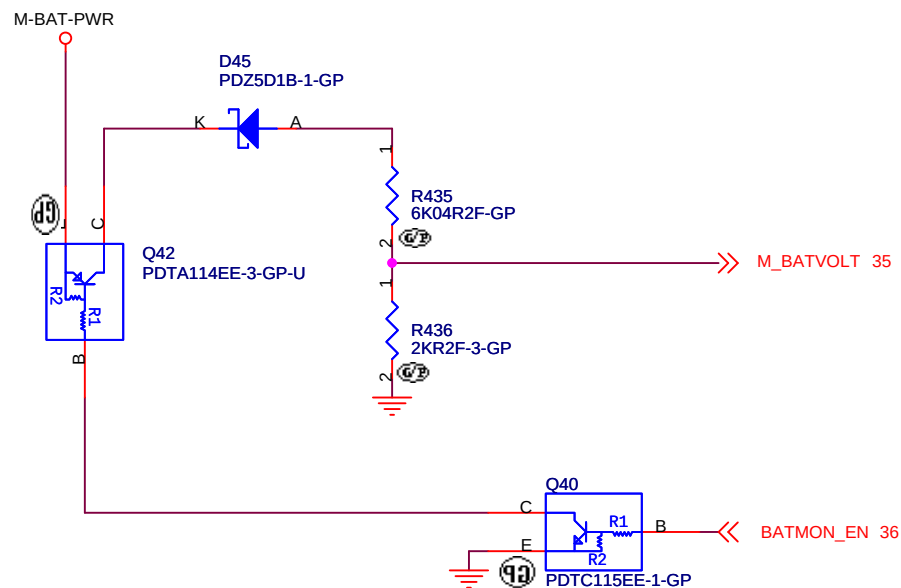
2

2

1

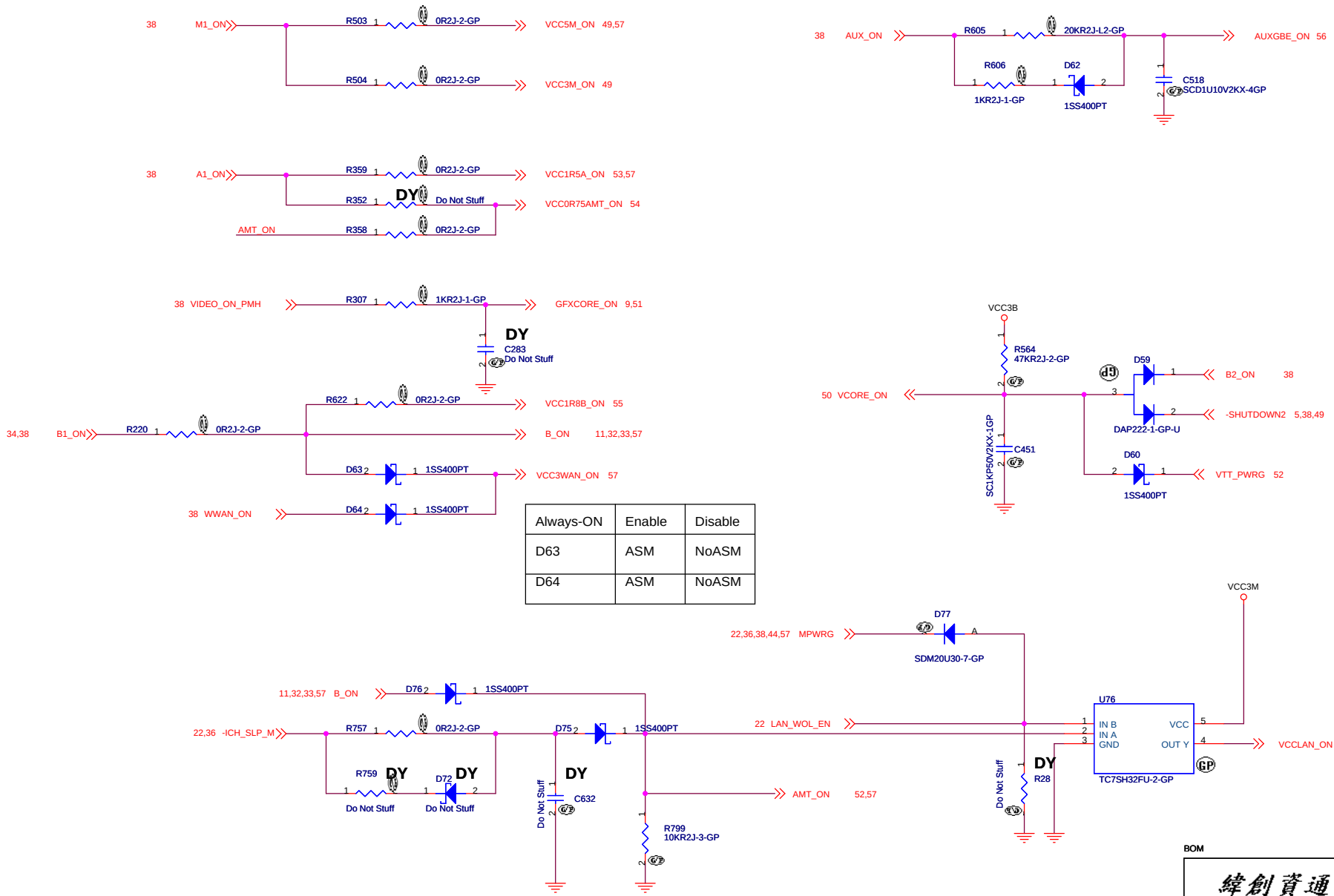
1

$V_{OUT} = 0.249 (V_{BAT} - 5)$



BOM

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Title			
BATTERY MONITOR			
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緯創資通

Wistron Corporation

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Title

POWER SEQUENCE

Size A3

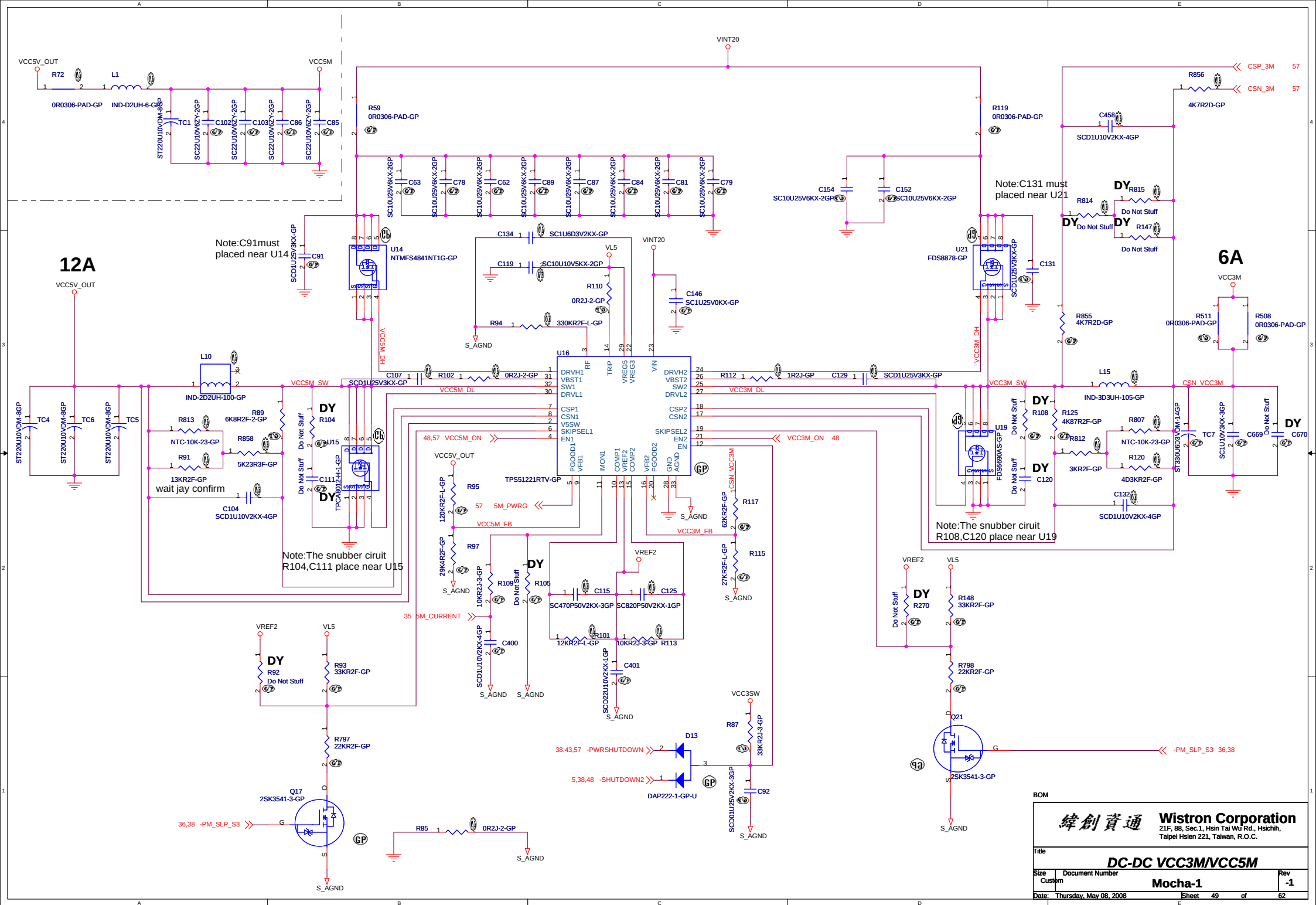
Document Number

Mocha-1

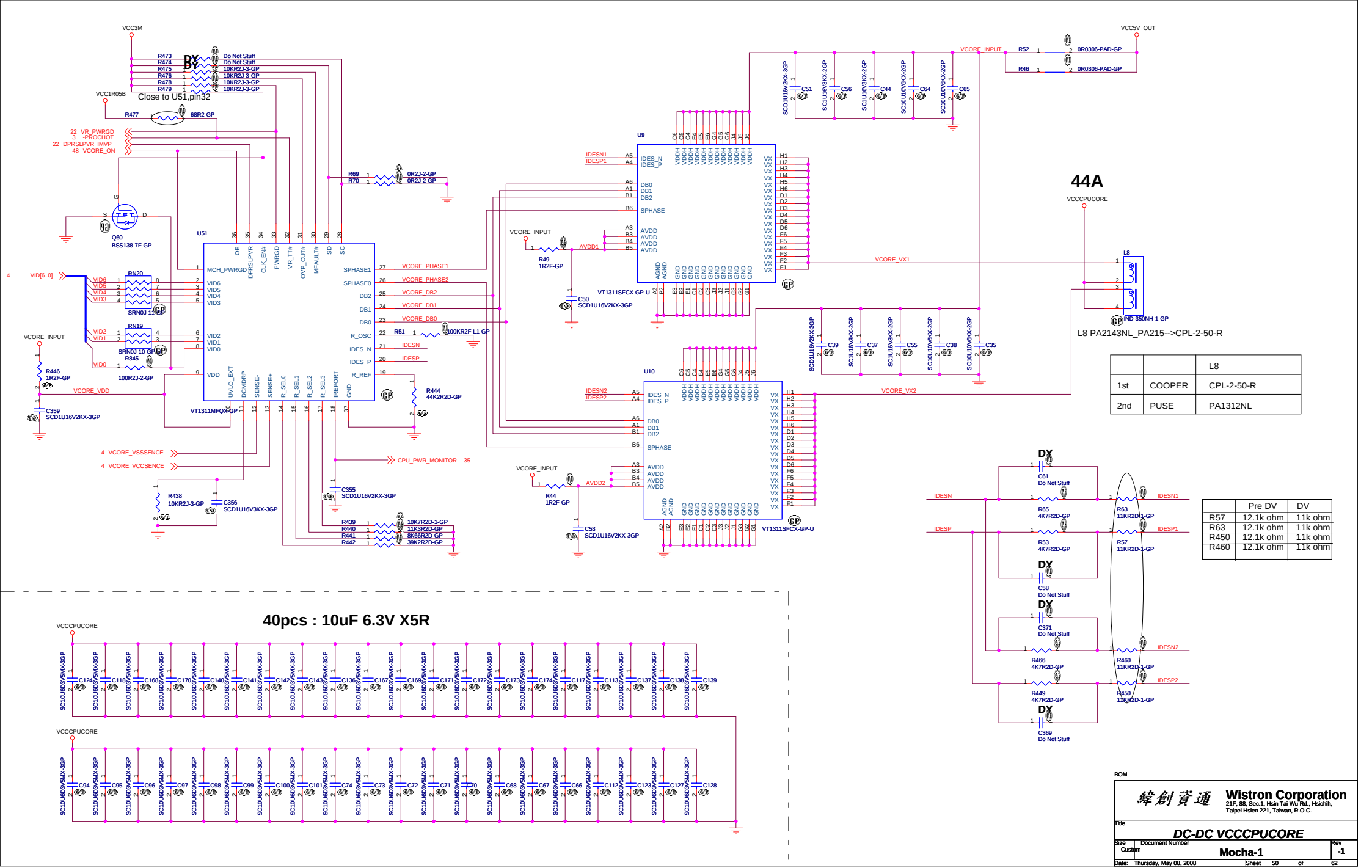
Rev -1

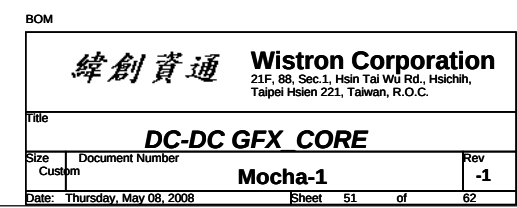
Date: Thursday, May 08, 2008

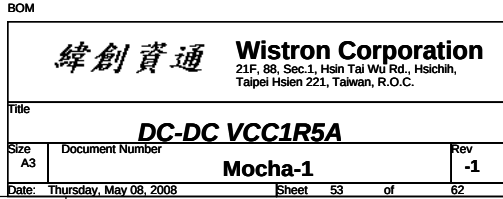
Sheet 48 of 62

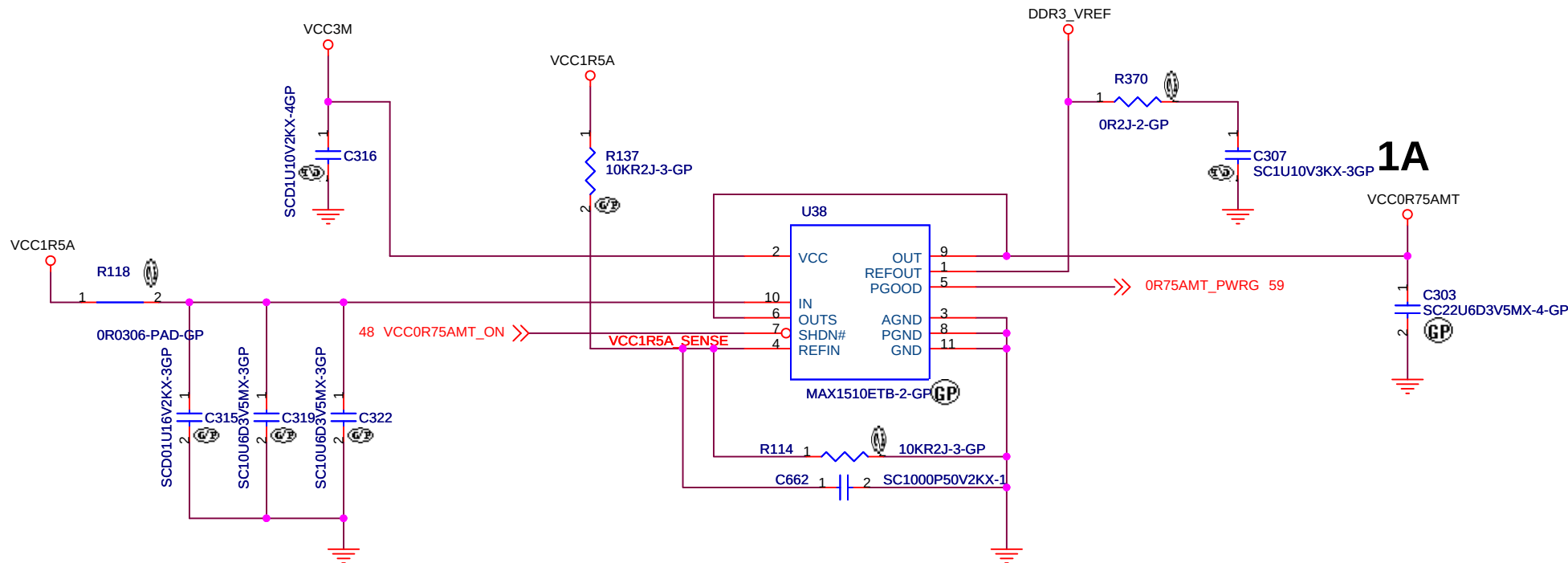


BOM			
緯創資通 Wistron Corporation			
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title			
DC-DC VCC3M/VCC5M			
Size	Document Number	Rev	
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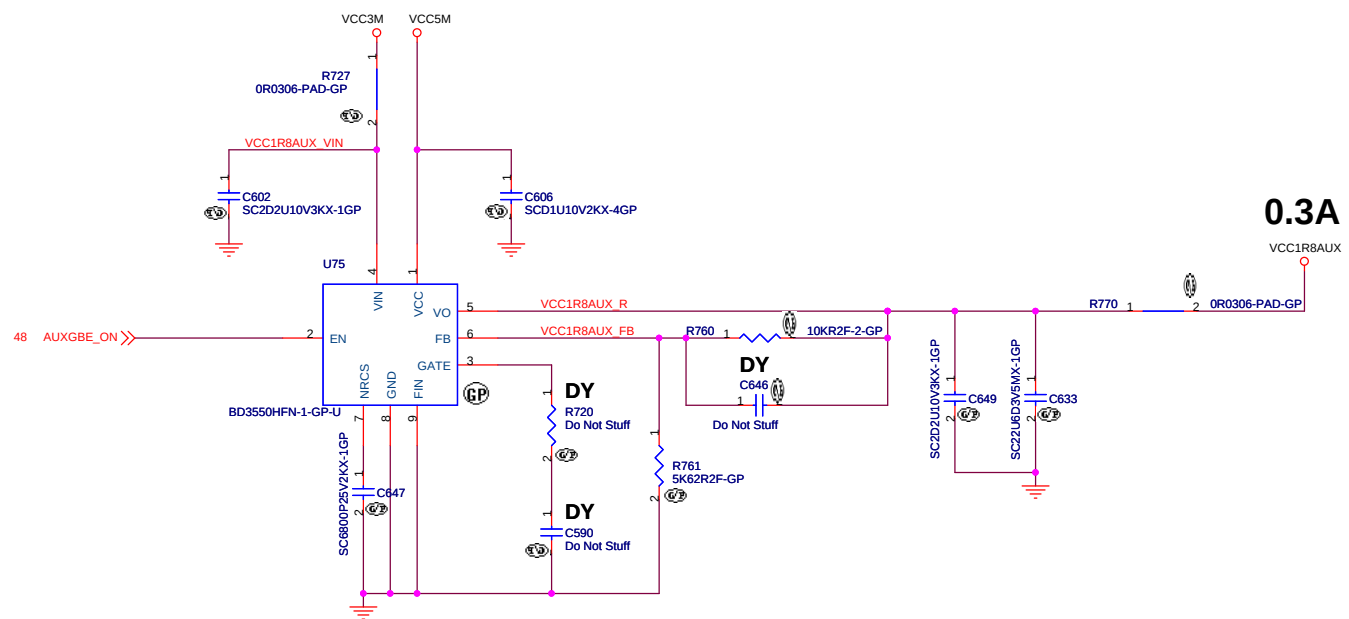
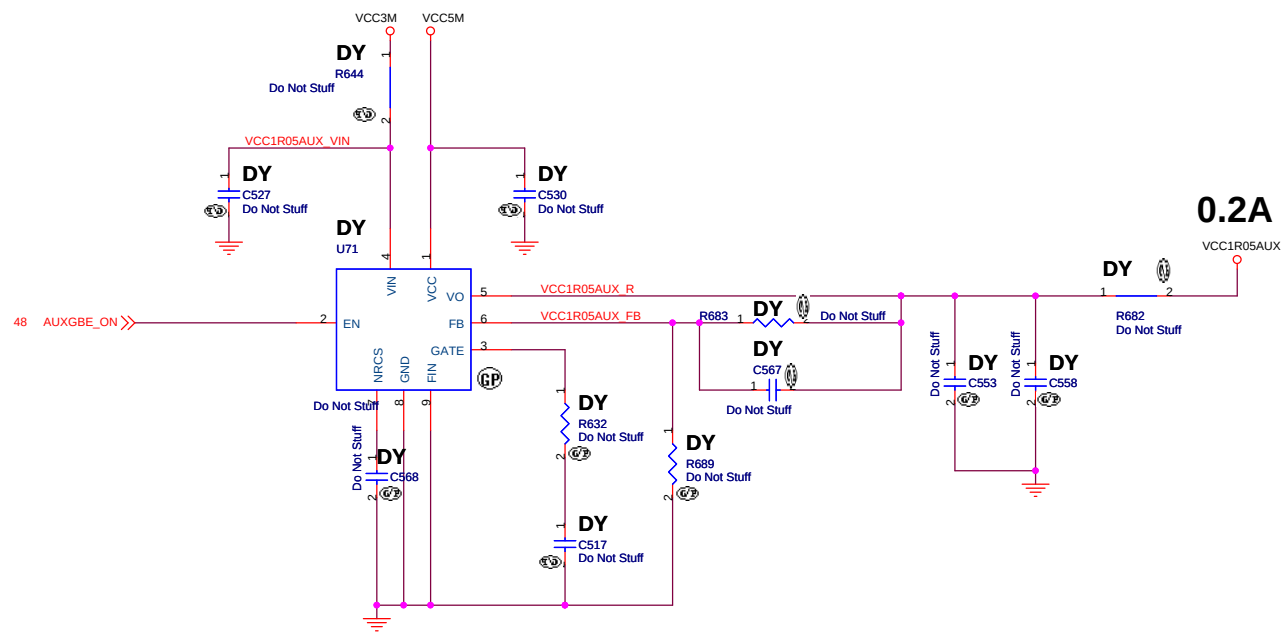






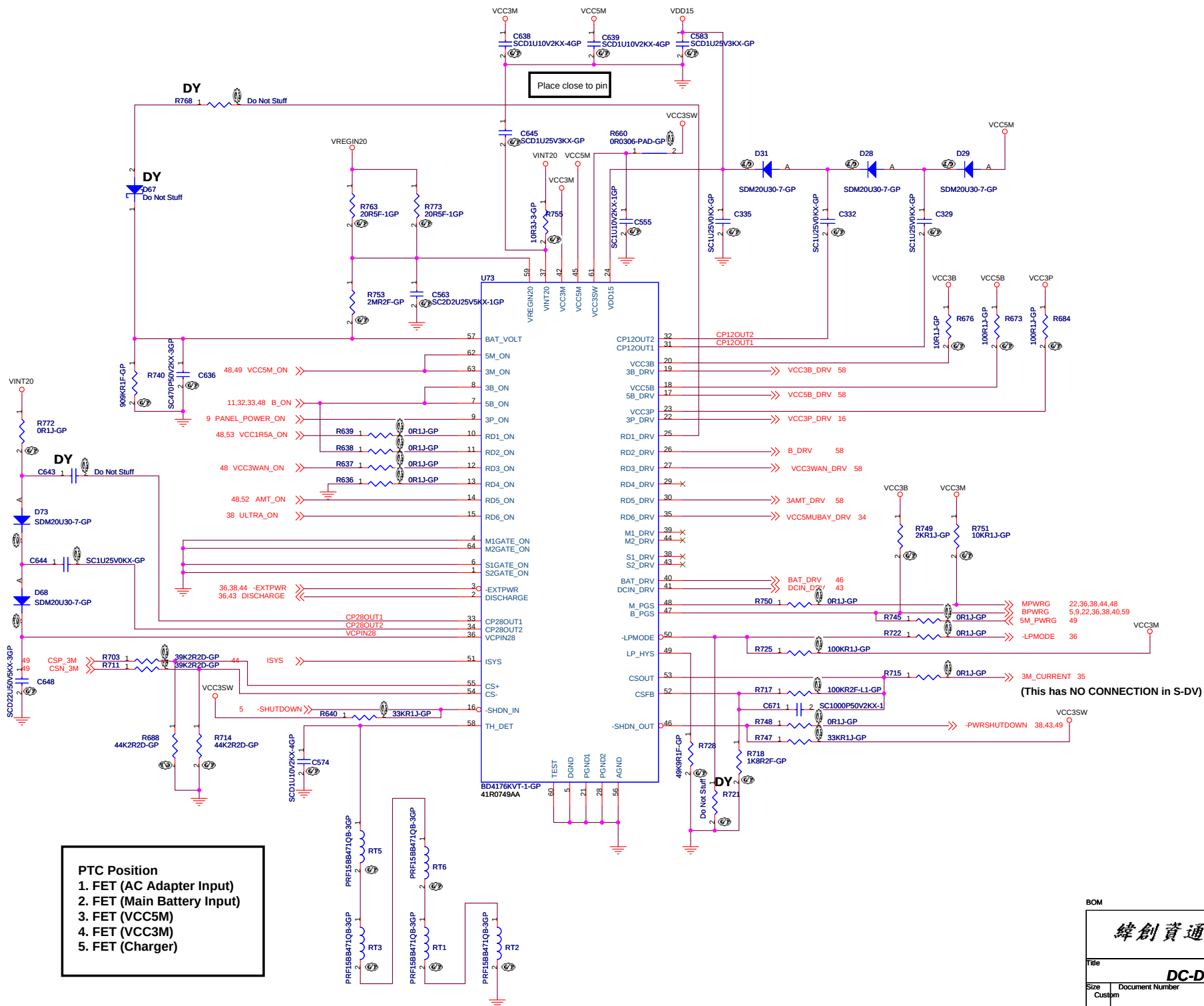
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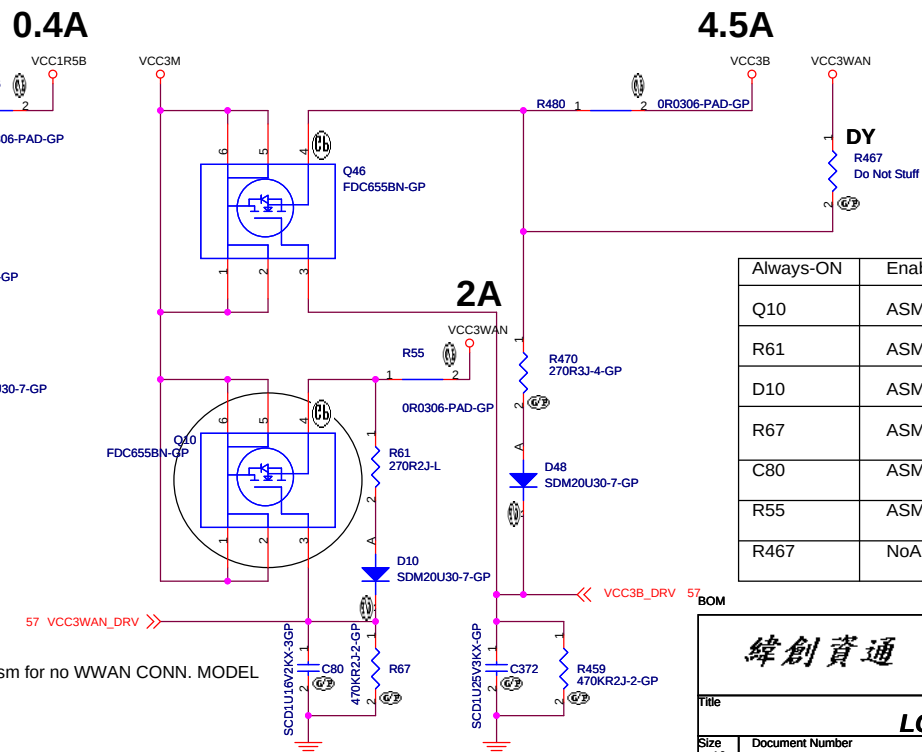
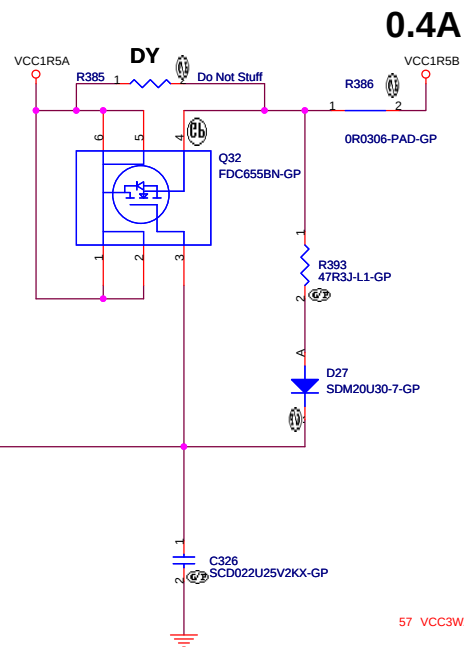
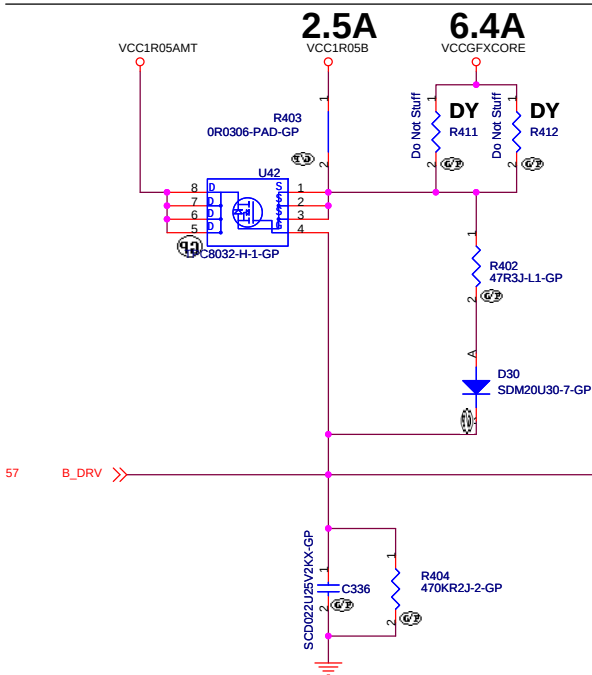
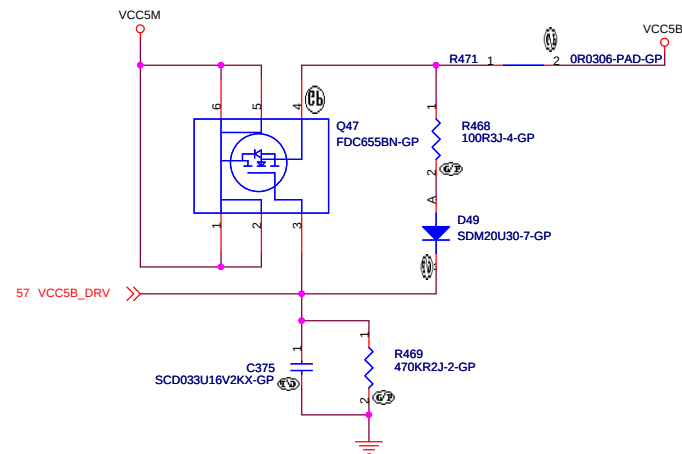
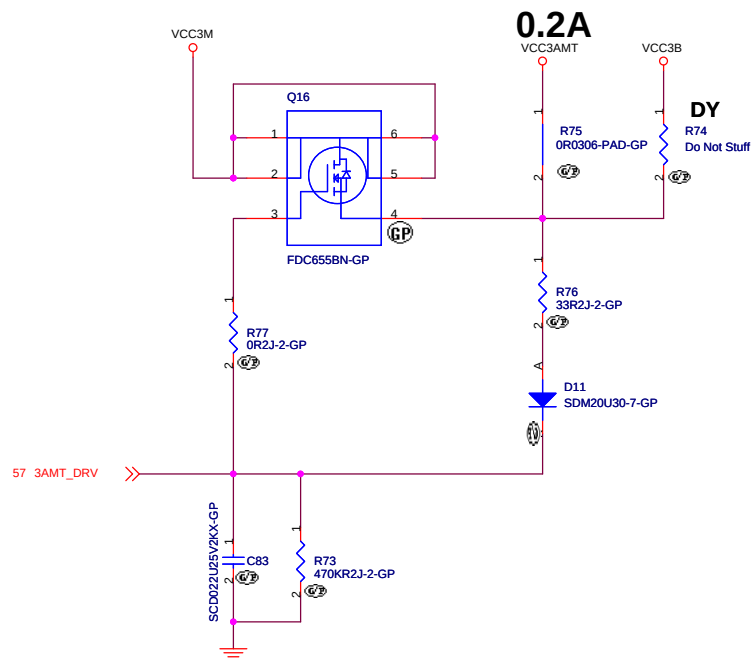
緯創資通		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
DC-DC VCC0R75AMT			
Size A4	Document Number		Rev
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緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title	
DC-DC VCC1R05AUX/VCC1R8AUX	
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Always-ON	Enable	Disable
Q10	ASM	NoASM
R61	ASM	NoASM
D10	ASM	NoASM
R67	ASM	NoASM
C80	ASM	NoASM
R55	ASM	NoASM
R467	NoASM	ASM

No-asm for no WWAN CONN. MODEL

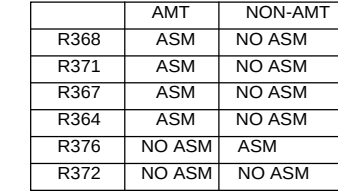
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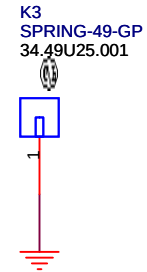
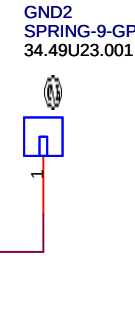
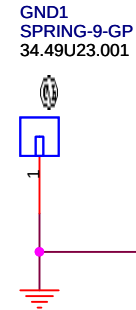
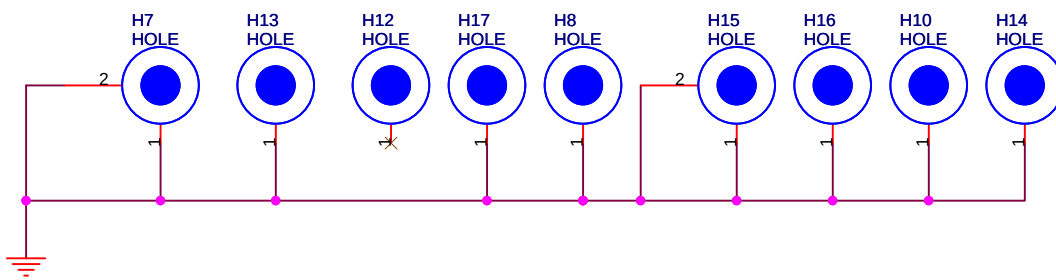
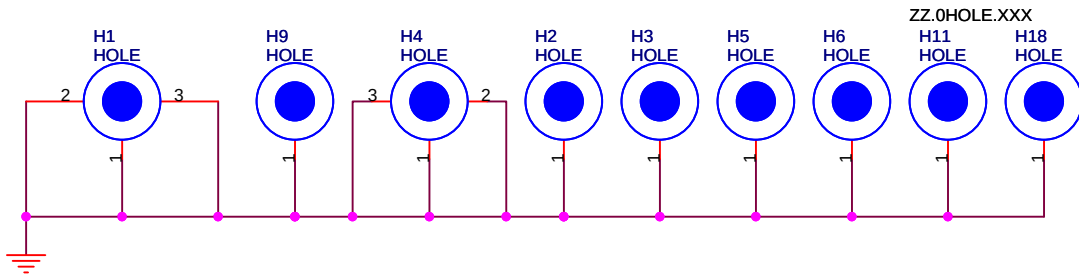
緯創資通 Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.

LOAD SW 1

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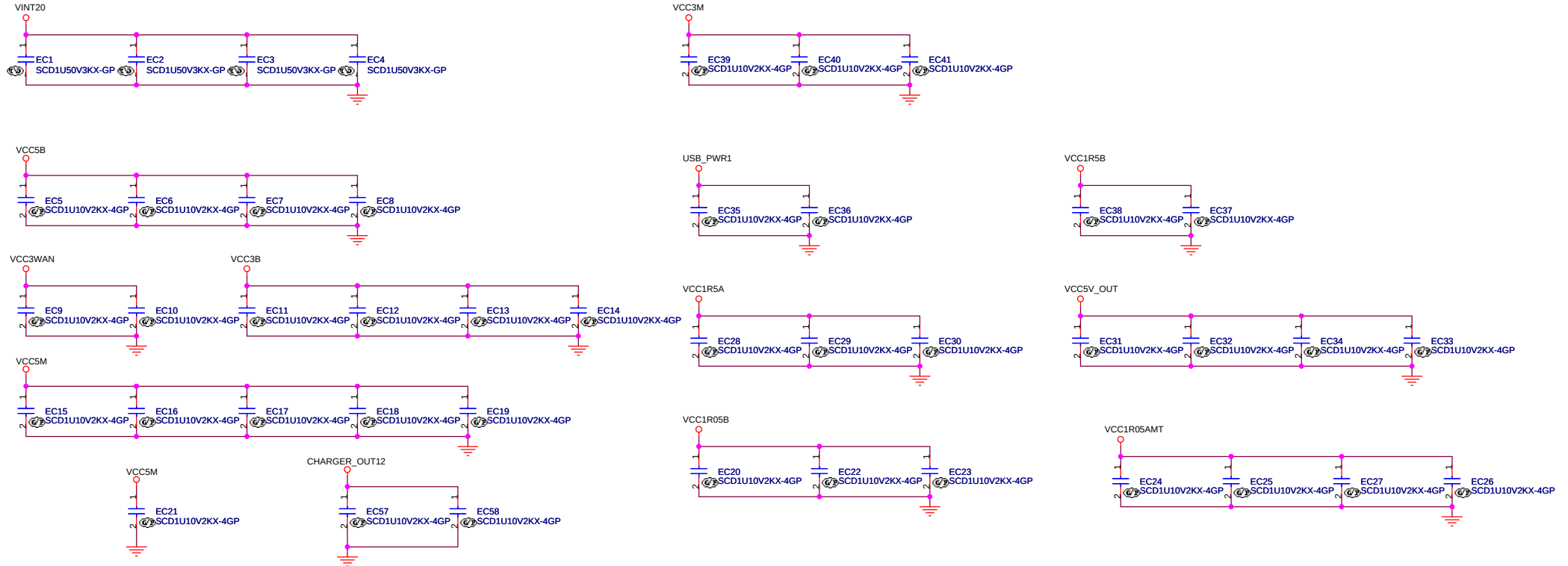




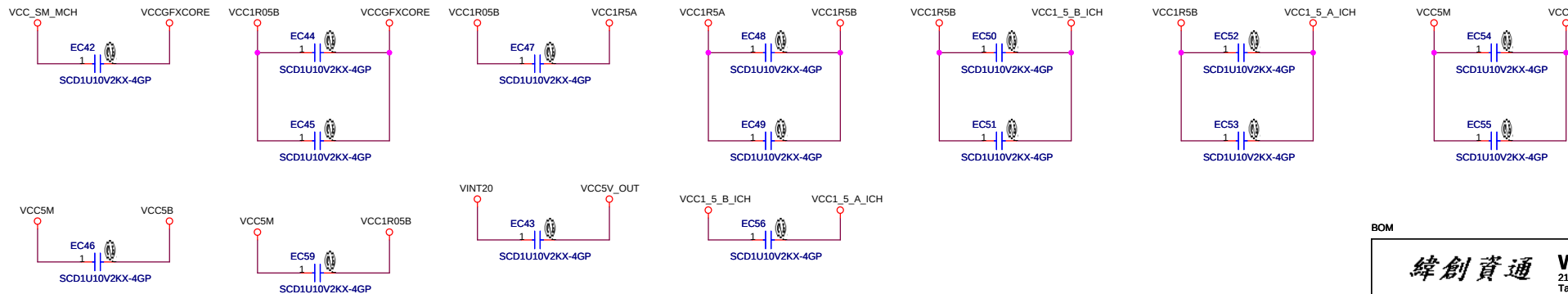
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緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title	
HOLES/GND/PADS	
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Long power trace EMI decoupling caps



Power Moat EMI decoupling caps



BOM

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Comparison chart for Always On function

Item	Page	Location Netname	AMT	NON_AMT	Modify	Note
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BOM

緯創資通		Wistron Corporation	
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title			
AMT FUNCTION CONTROL TABLE			
Size	Document Number		Rev
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