

Comet-2 Block Diagram

LCO-2 91.4VC01.001

Mar. 15, 2012

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

BQ24760 74
INPUTS OUTPUTS
DOCK_PWR20 CHARGER_OUT12

System DC/DC
TPS51220ARSN 78
VINT20 VCC5M
VCC3M

CPU DC/DC
VT1318M/VT1324S 79
VCC5M_OUT VCCCPUCORE

GMCH GFX CORE
VT1324S 80
VCC5M_OUT VCCGFXCORE

VCCIR5A
VT357FCX 85
VCC5M_OUT VCCIR5A

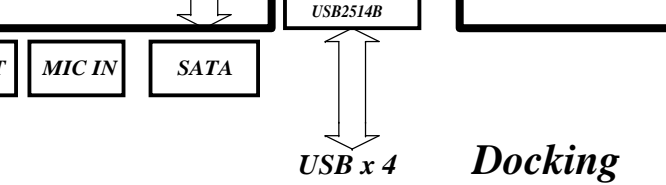
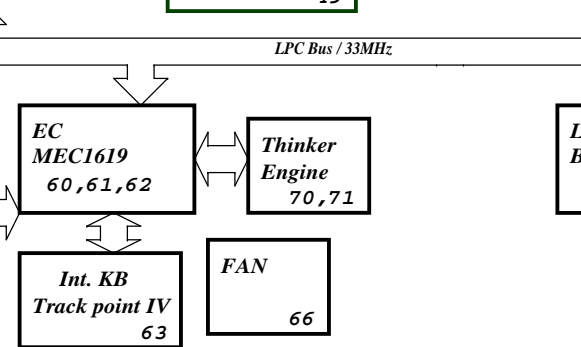
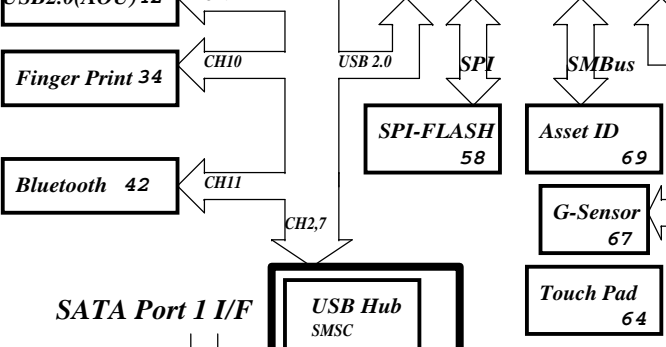
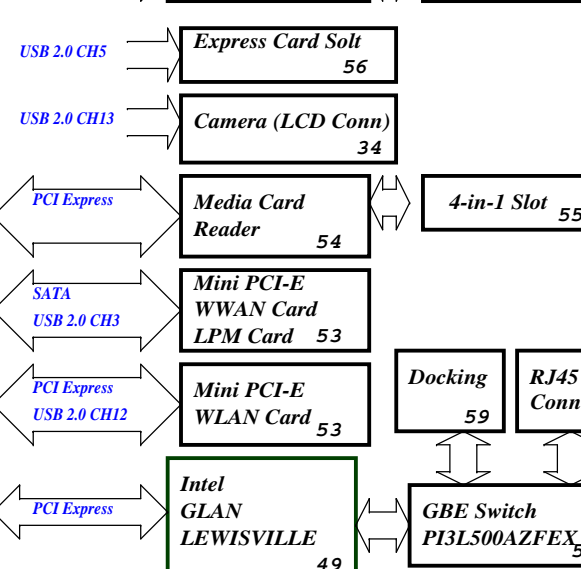
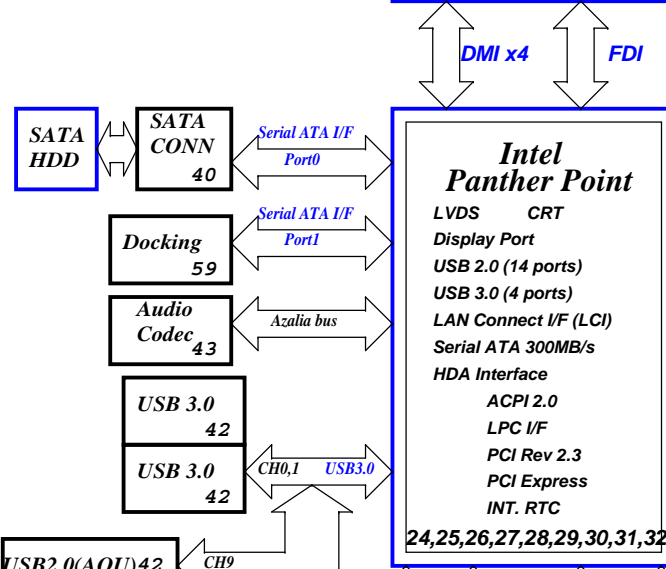
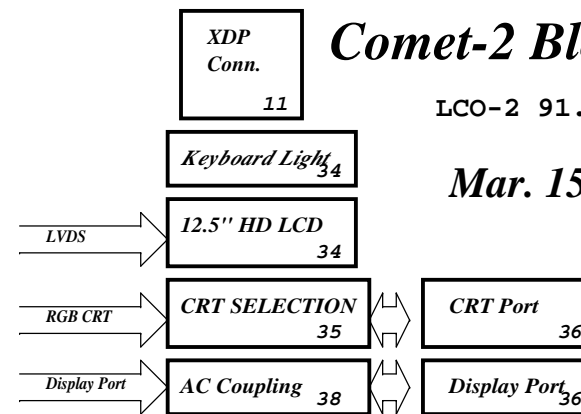
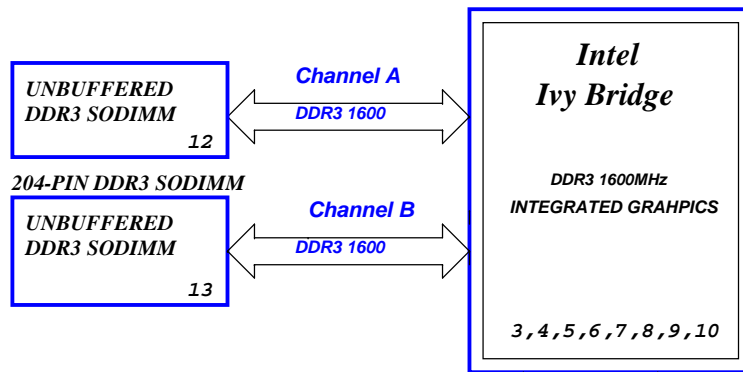
VCC0R75B
TPS51200DRCR 86
VCCIR5A VCC0R75B

VCCIR8B
BD9139 89
VCC5M_OUT VCCIR8B

VCCIR05AMT
VT356FCX 84
VCC5M_OUT VCCIR05LAN

VCCIR05B_VTT
VT356 83
VCC5M_OUT VCCIR05B_VTT

VCCSA
VT370 90
VCC5M_OUT VCCSA



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

Block Diagram			
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Size A3	Comet-2	-1	
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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

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

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]

IBEXPEAK-M	39	38	48	49	Planar ID Version	Planar PCB Version
PLANAR_IDn	3	2	1	0		
	0	0	0	0	Comet-2 initial	N/A
	0	0	0	1	Comet-2 SDV	SA
	0	0	1	0	Comet-2 SIT	SB
	0	0	1	1	Comet-2 SVT	-1
	0	1	0	0		
	0	1	0	1		
	0	1	1	0		
	0	1	1	1		
	1	0	0	0		
	1	0	0	1		
	1	0	1	0		

EC HISTORY

[illegible]

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Title																													

Reference

Size	A3
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-1

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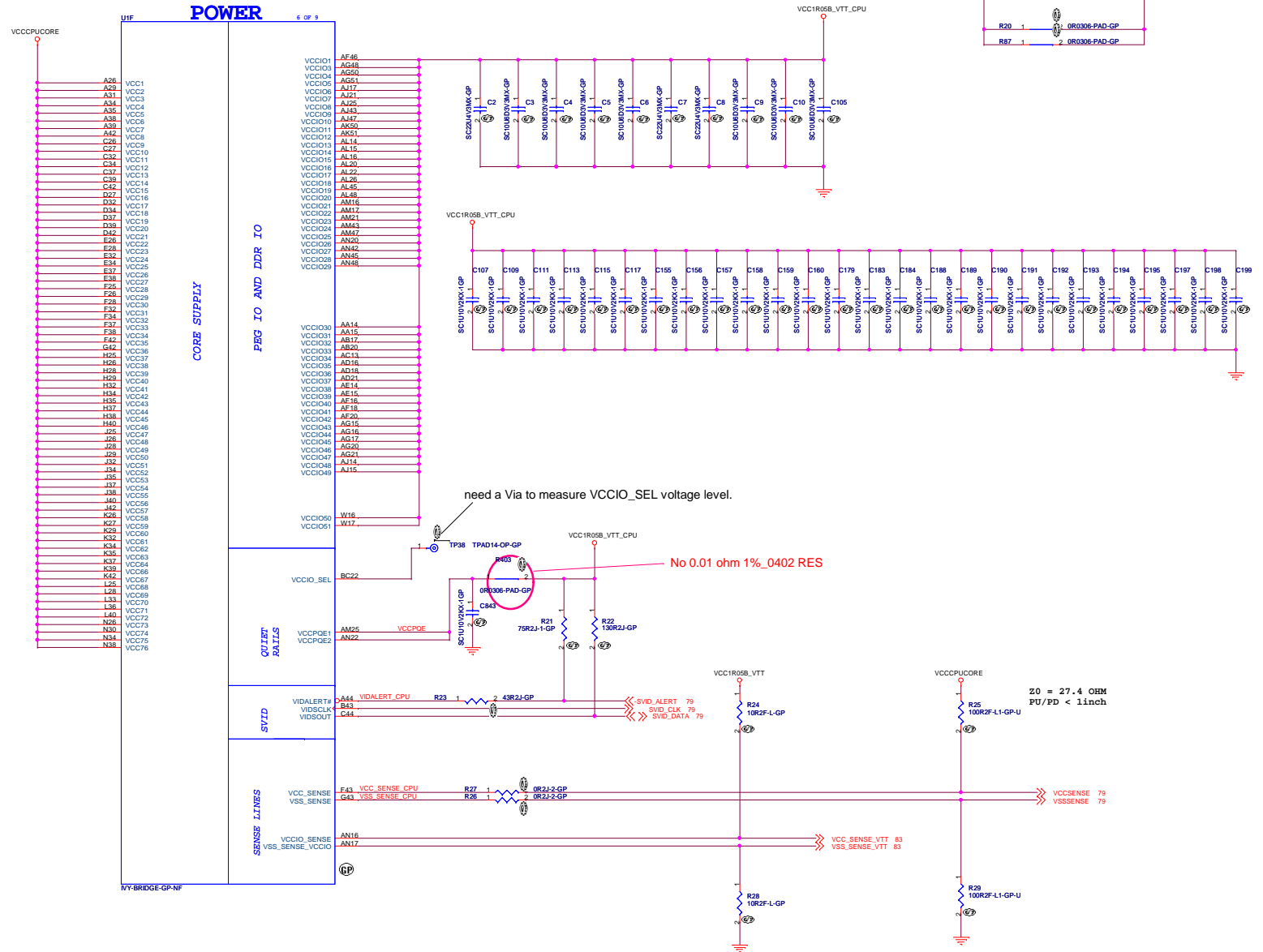
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Sandy Bridge	High
Ivy Bridge	Low



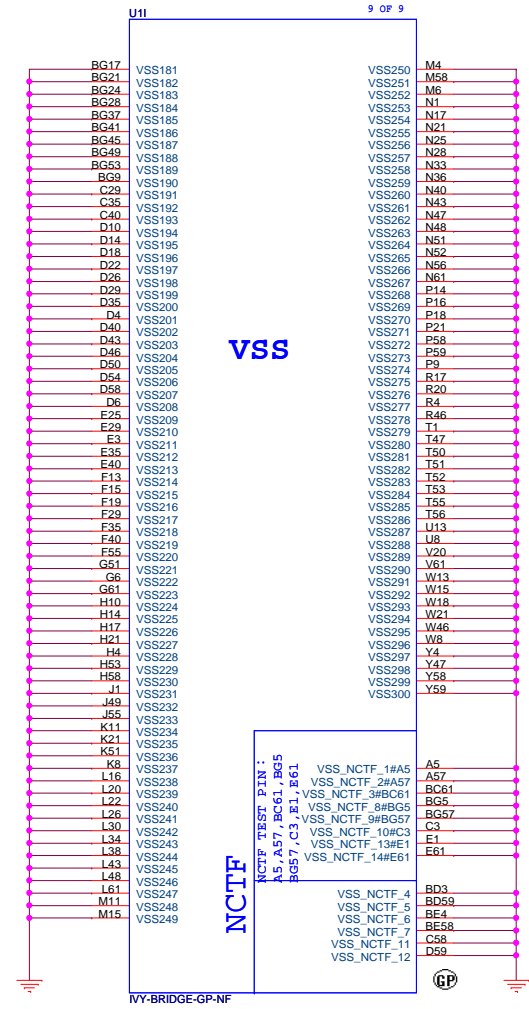
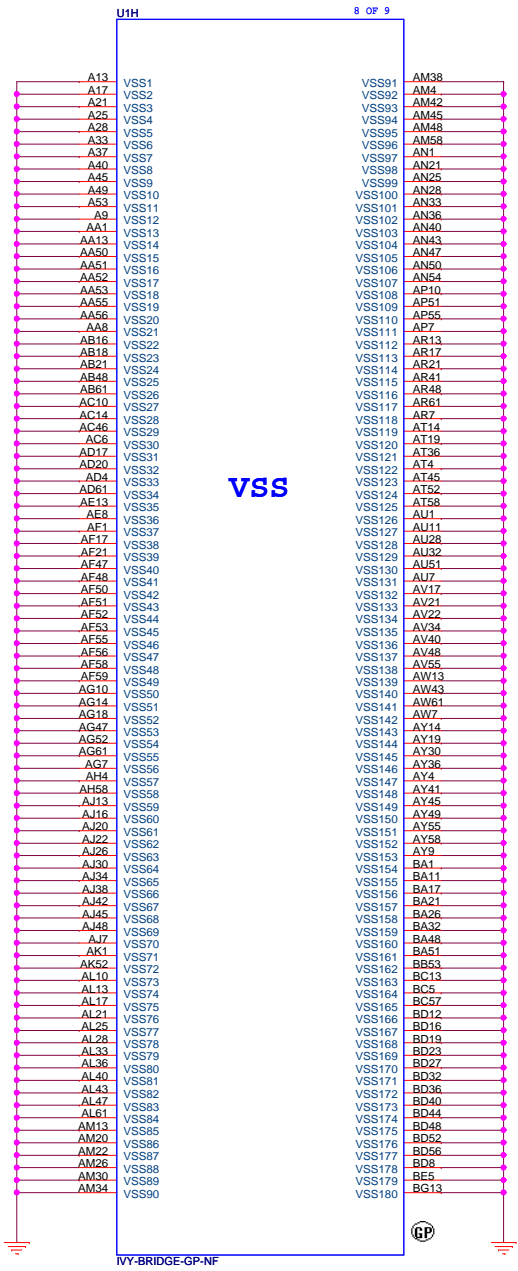
Title	CPU(2/8):CLK/MISC/JTAG
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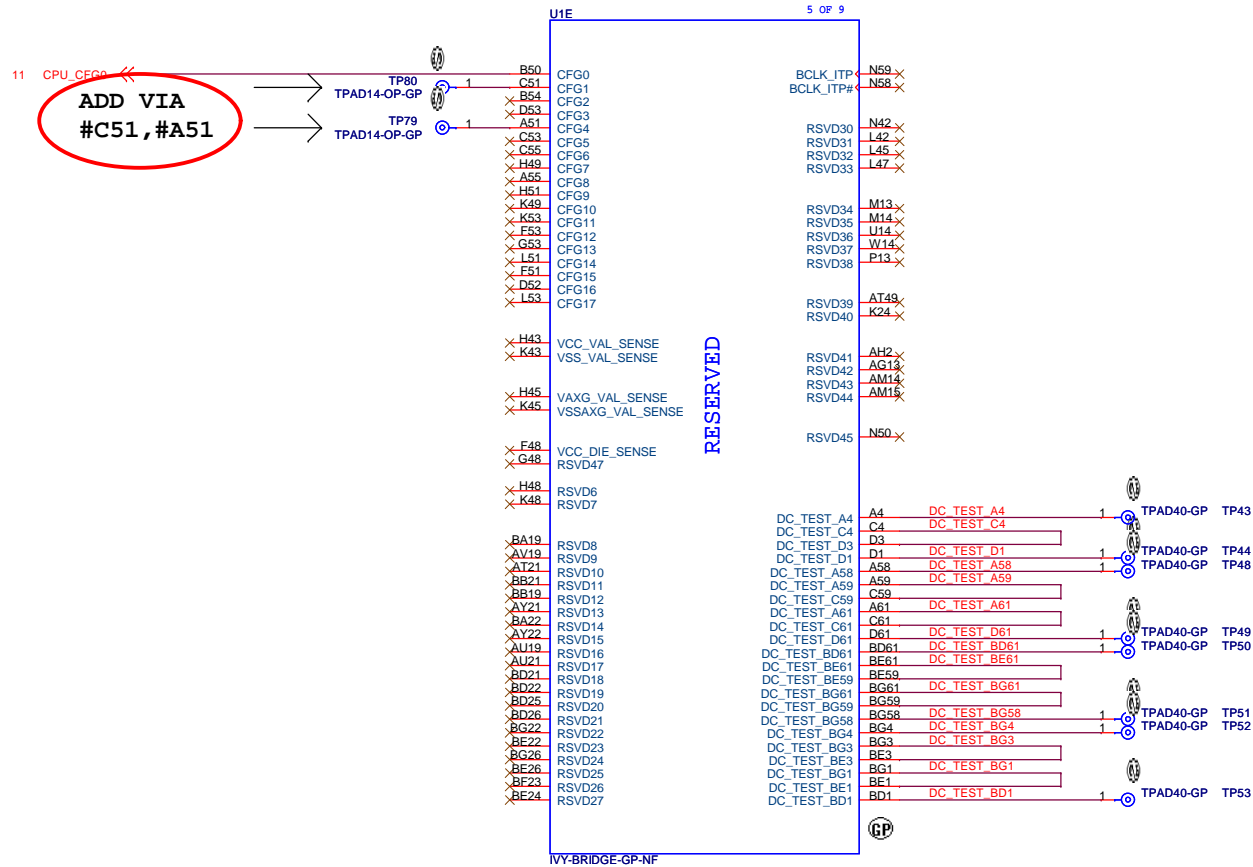
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		21F, 8B, Sec 1, Hsin Tai Wu Rd., Hsinchu, Taipei Hsin 221, Taiwan, R.O.C.	
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Size A2	Document Number	Comet-2	Rev -1
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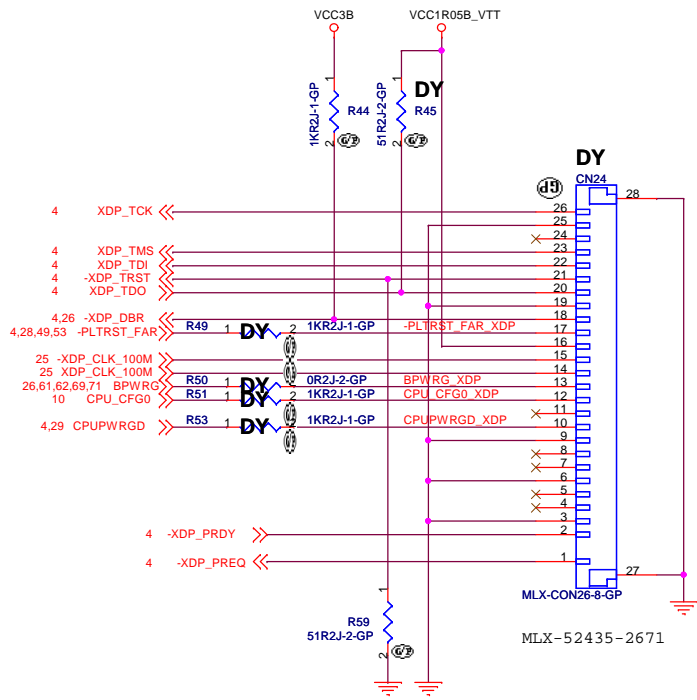
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Title CPU(7/8):GND		
Size Custom	Document Number Comet-2	Rev -1
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Title			CPU(8/8):CFG/Reserved	
Size	Document Number	Comet-2		Rev
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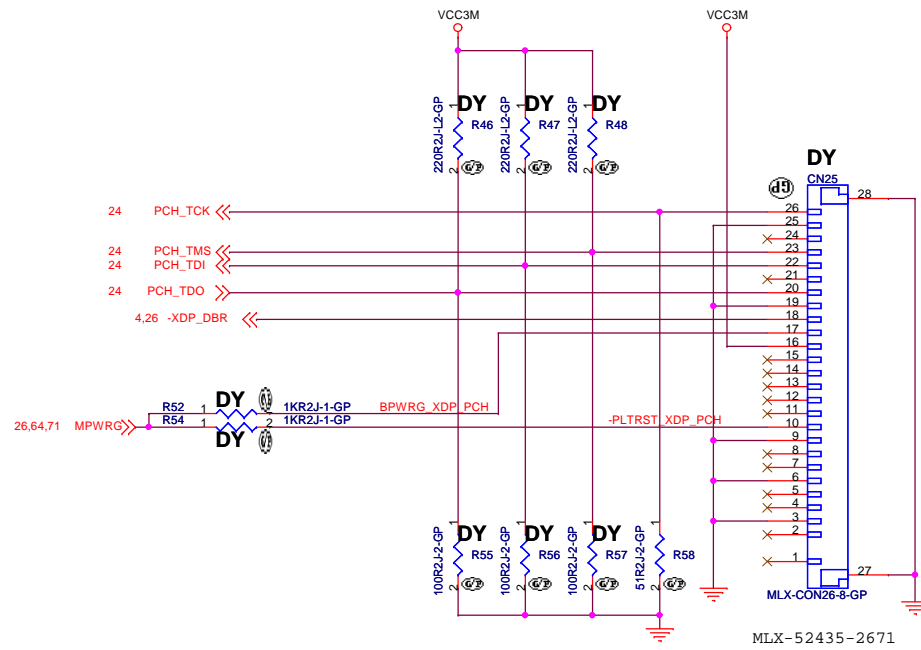


DEBUG Interface for Processor.

XDP1 NOTE:"ASM" FOR PDV/SDV ONLY

		ENABLE	DISABLE
TDO	R45	ASM	DY
TRST#	R59	ASM	ASM
DBRST#	R44	ASM	ASM
RESET#	R49	ASM	DY
CFG0	R51	ASM	DY
PWRGD	R53	ASM	DY
BPWRG	R50	ASM	DY
	CN24	ASM	DY

↑
FVT Logic



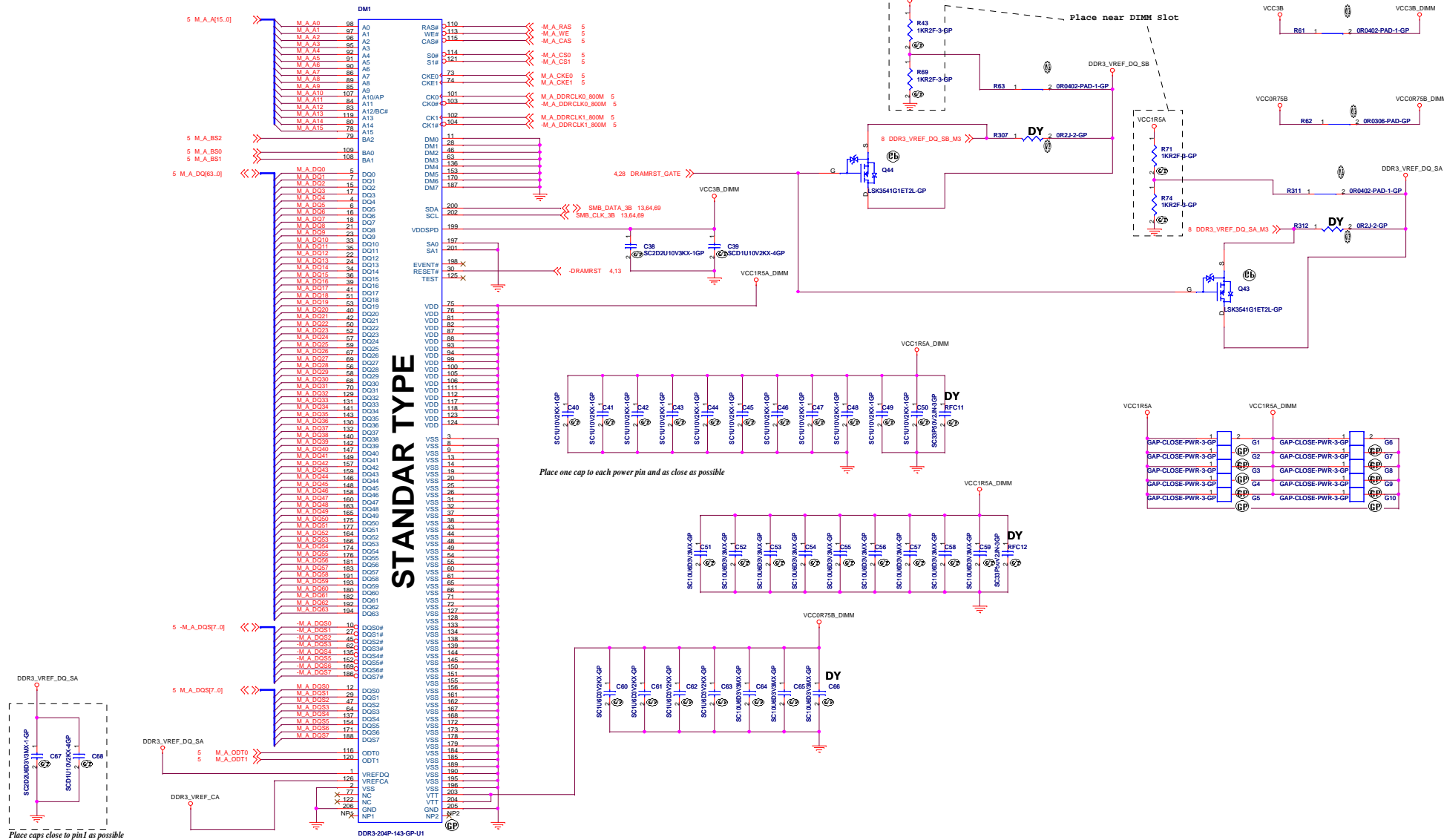
DEBUG Interface for PCH.

XDP2 NOTE:"ASM" FOR PDV/SDV ONLY

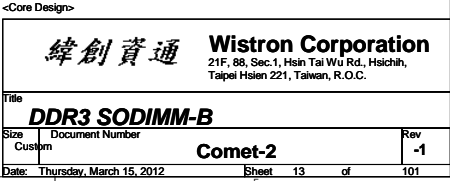
		ENABLE	DISABLE
TDO	R46	220	DY
	R55	100	DY
TMS	R48	220	DY
	R57	100	DY
TDI	R47	220	DY
	R56	100	DY
TCK	R58	51	51
MPWRG	R52	ASM	DY
	R54	ASM	DY
	CN25	ASM	DY

↑
FVT Logic

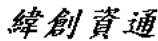
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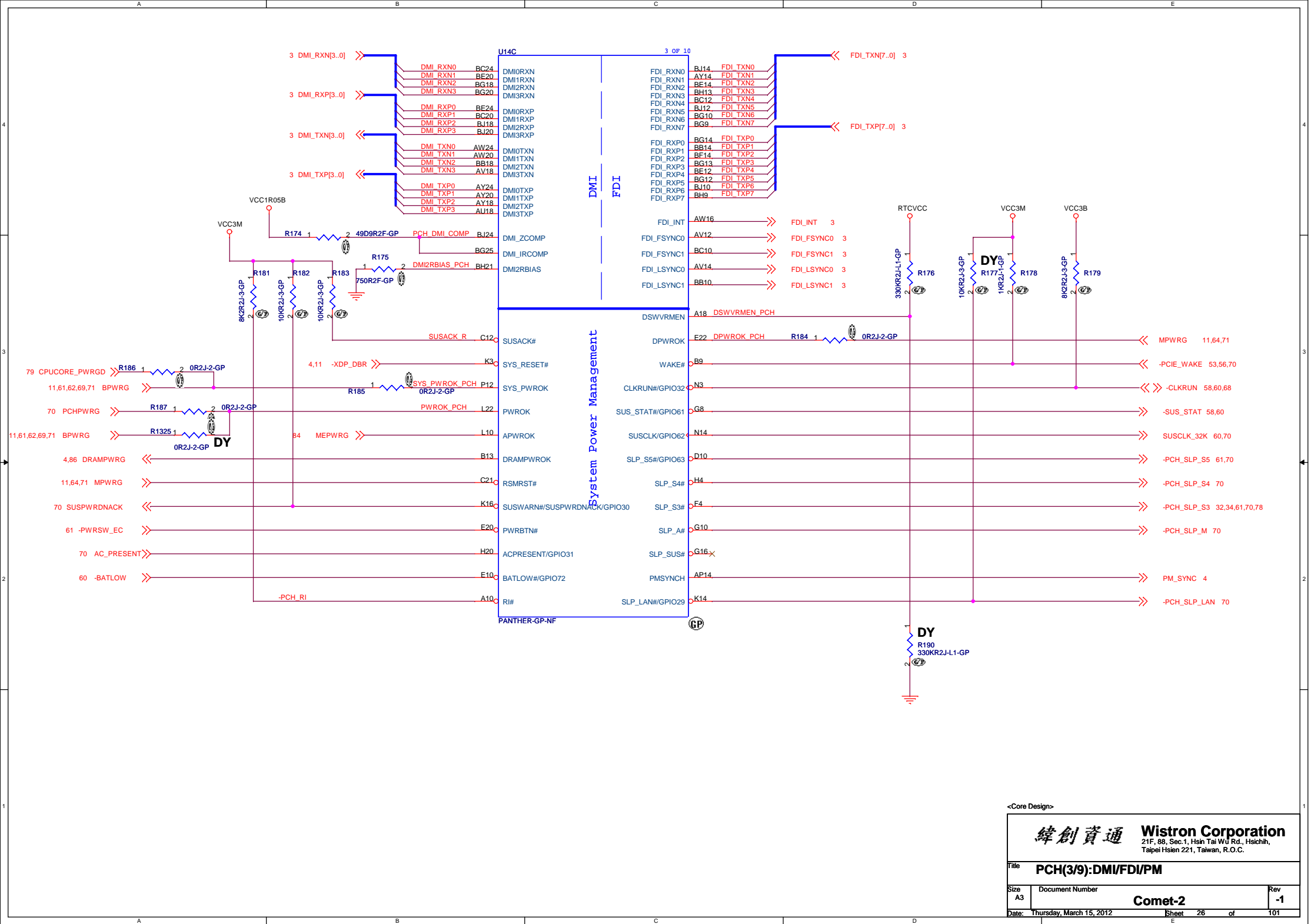
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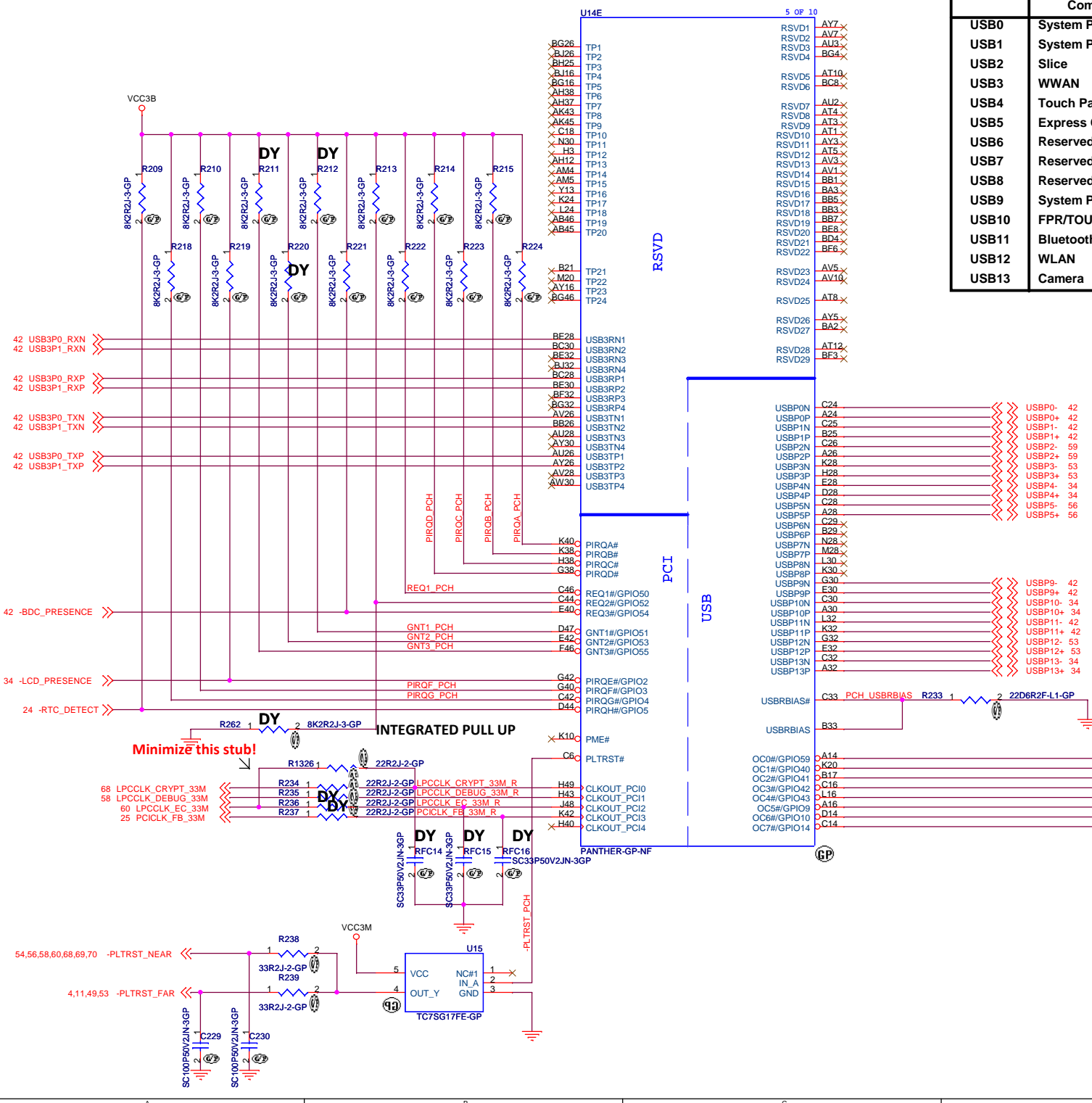
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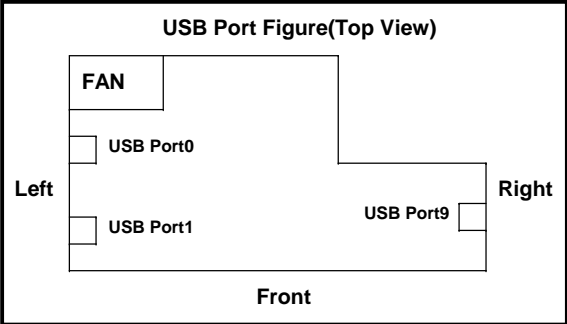
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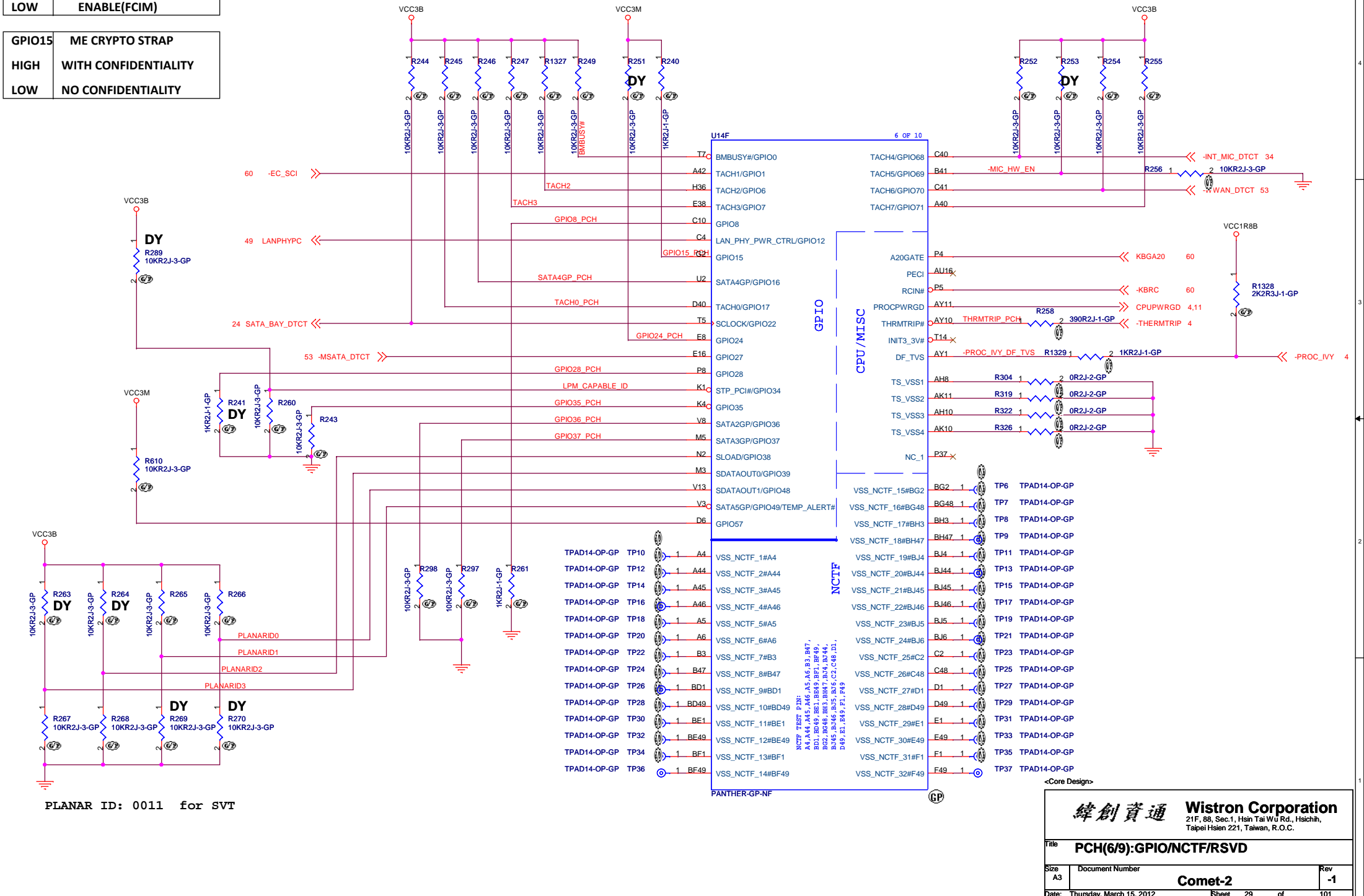
	Comet-2
USB0	System Port 0 (USB3.0)
USB1	System Port 1 (USB3.0)
USB2	Slice
USB3	WWAN
USB4	Touch Panel
USB5	Express Card
USB6	Reserved
USB7	Reserved
USB8	Reserved
USB9	System Port 9 (iPod)
USB10	FPR/TOUCH PAD
USB11	Bluetooth
USB12	WLAN
USB13	Camera

	Dasher2
USB0	System Port 0 (USB3.0)
USB1	System Port 1 (USB3.0)
USB2	since Dock USB3.0
USB3	WWAN
USB4	Reserved
USB5	Express Card
USB6	Reserved
USB7	USB2.0 DOCKING
USB8	Reserved
USB9	System Port 9 (iPod)
USB10	FPR/TOUCH PAD
USB11	Bluetooth
USB12	WLAN
USB13	Camera



GPIO8	INTEGRATED CLOCKING
HIGH	DISABLE(BTM)
LOW	ENABLE(FCIM)

GPIO15	ME CRYPTO STRAP
HIGH	WITH CONFIDENTIALITY
LOW	NO CONFIDENTIALITY



PLANAR ID: 0011 for SVT

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Title

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

Size

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Document Number

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Date:

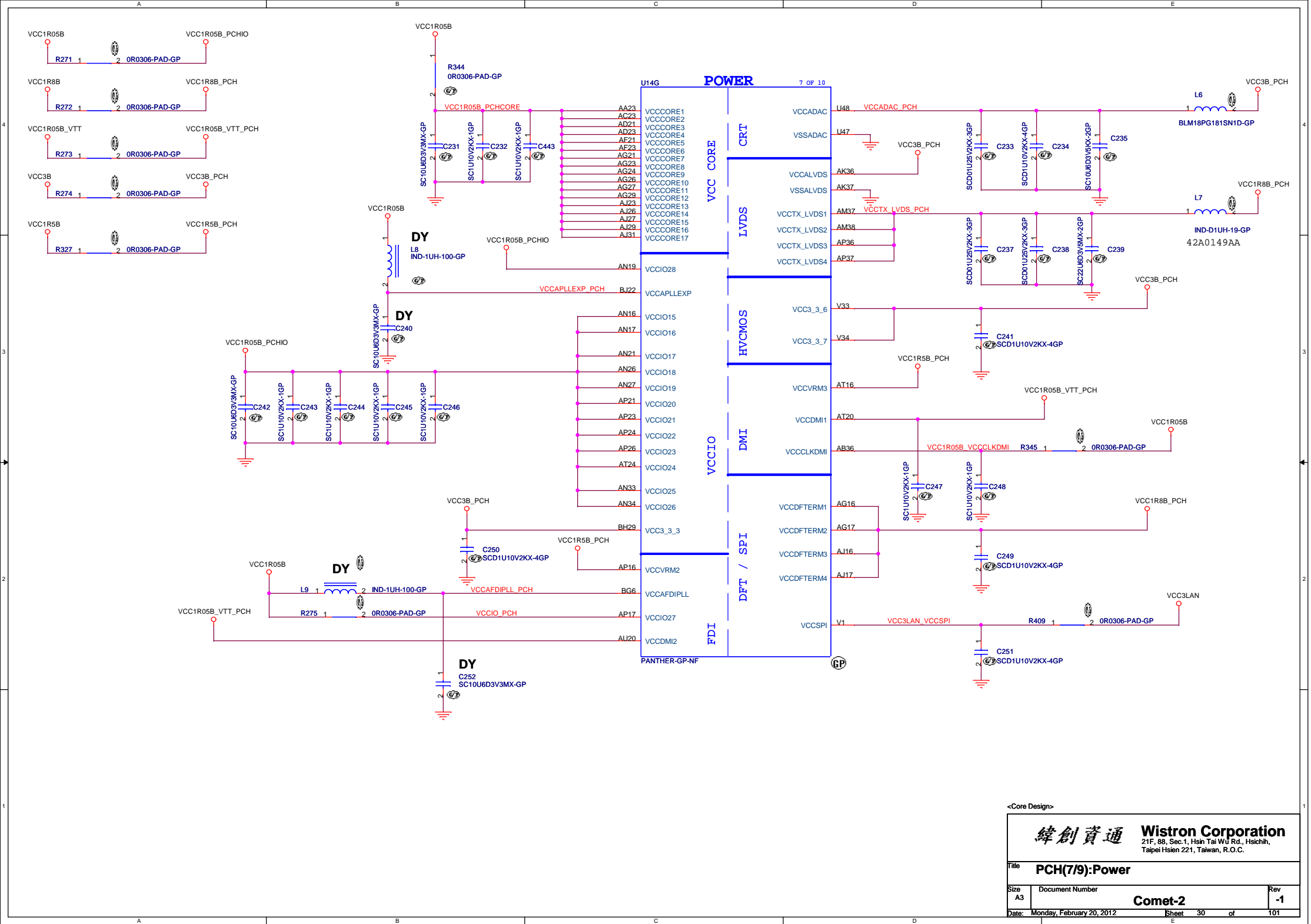
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TEST PAD FOR METS/APS



26,34,61,70,78 -PCH_SLP_S3

34,58,59,63,70 -PWRSWITCH

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Title

PCH (9/9):GND

Size

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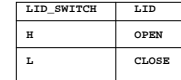
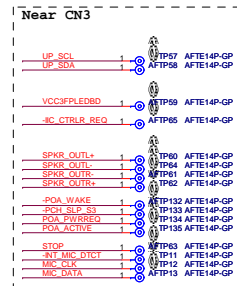
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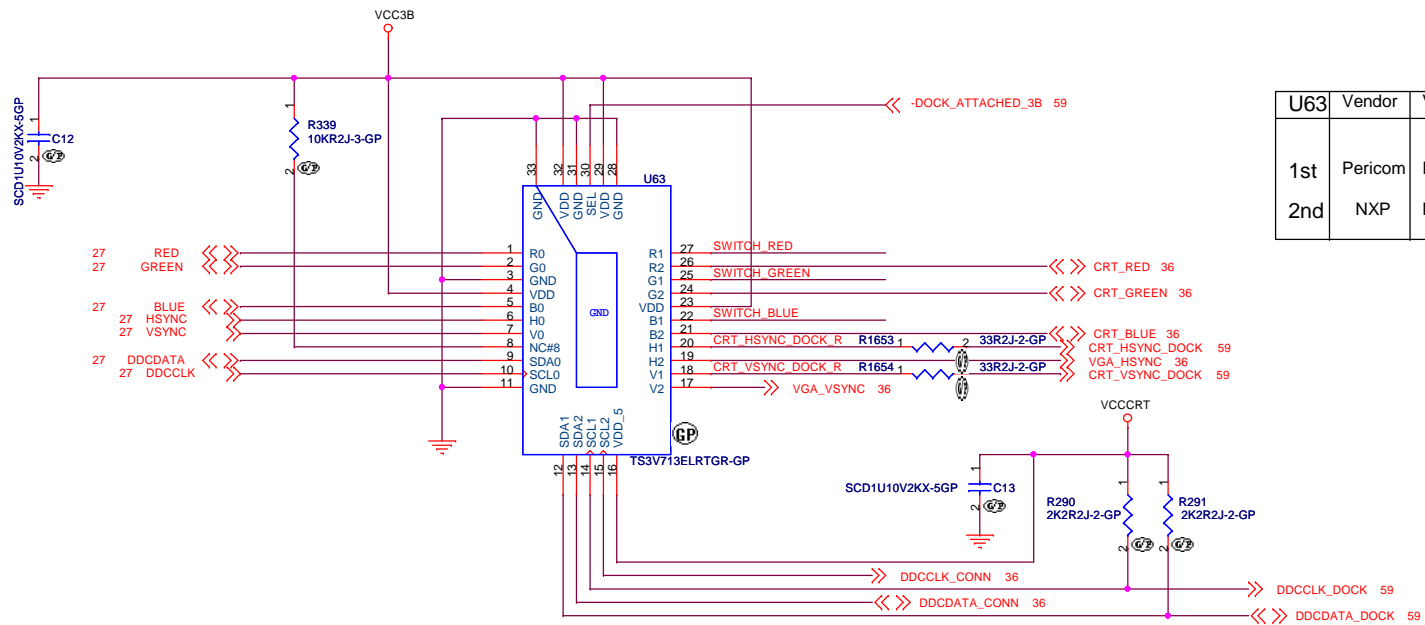
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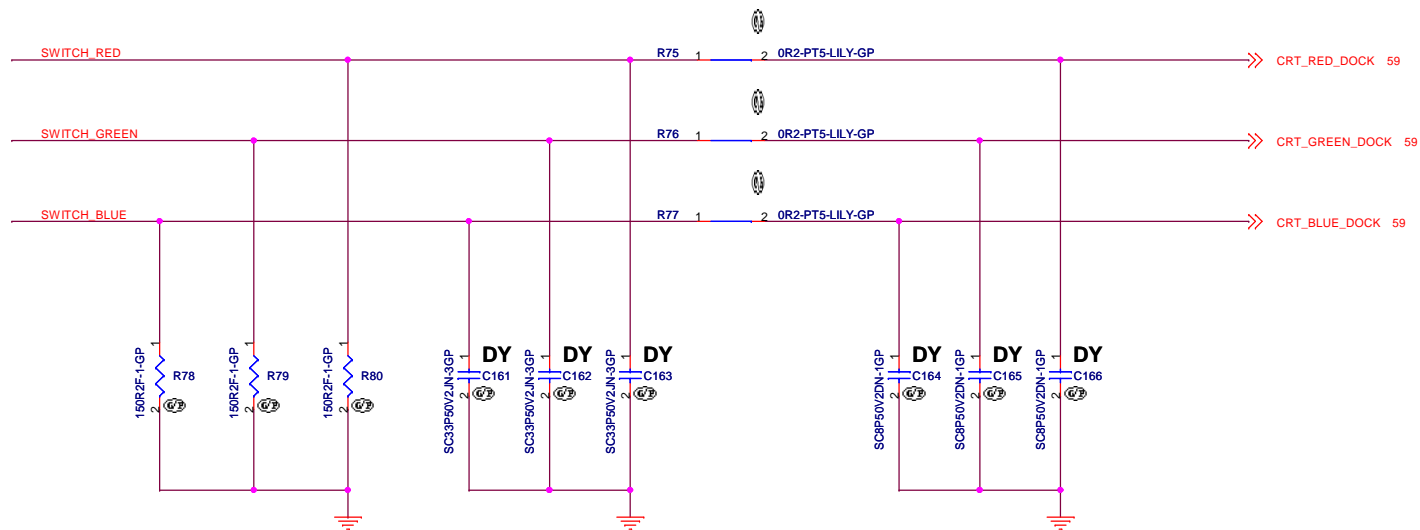
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U63	Vendor	Vendor P/N	Wistron P/N
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2nd	NXP	NX5DV715HF	73.05715.003



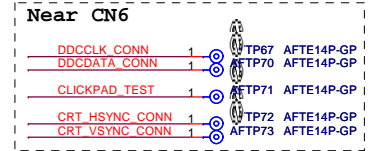
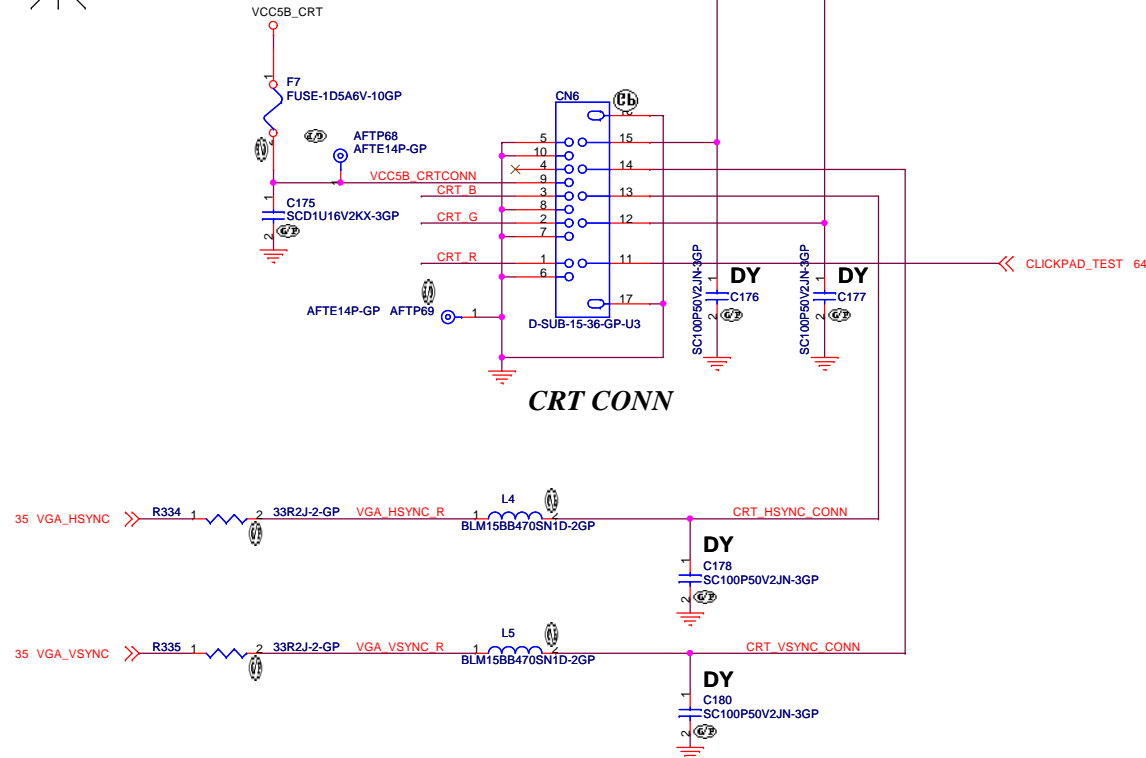
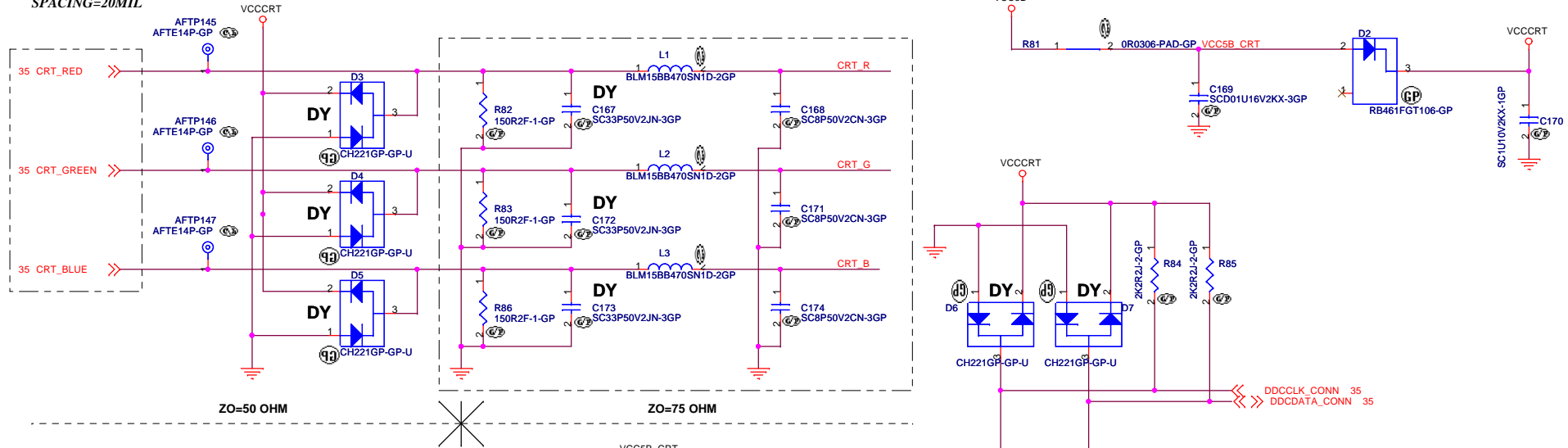
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CRT SELECTOR	
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GND GUARDING

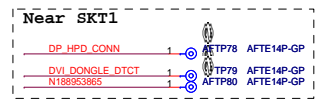
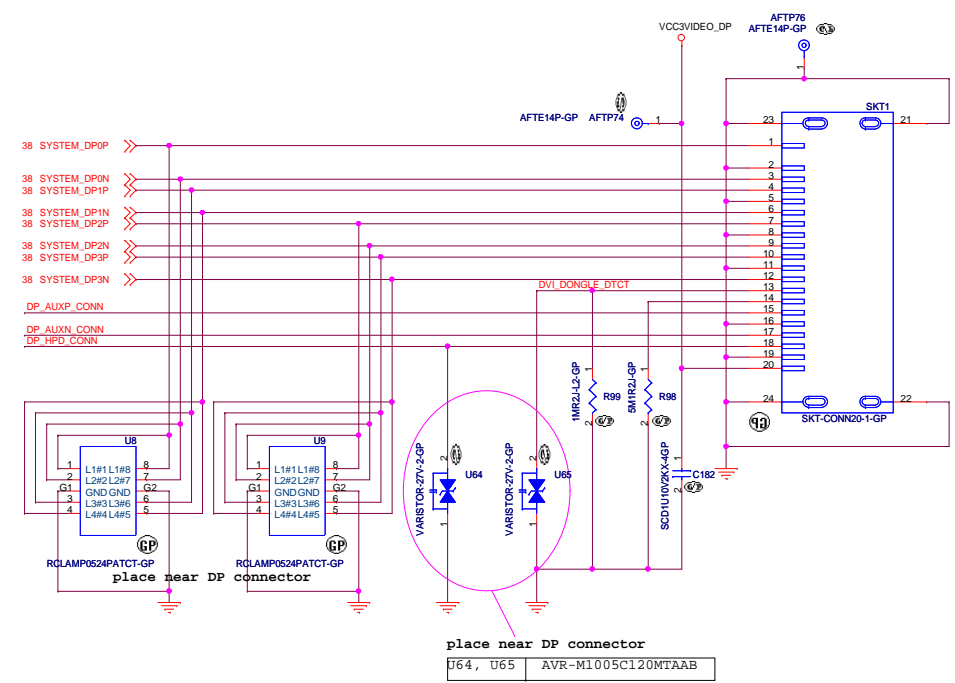
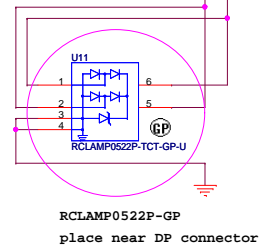
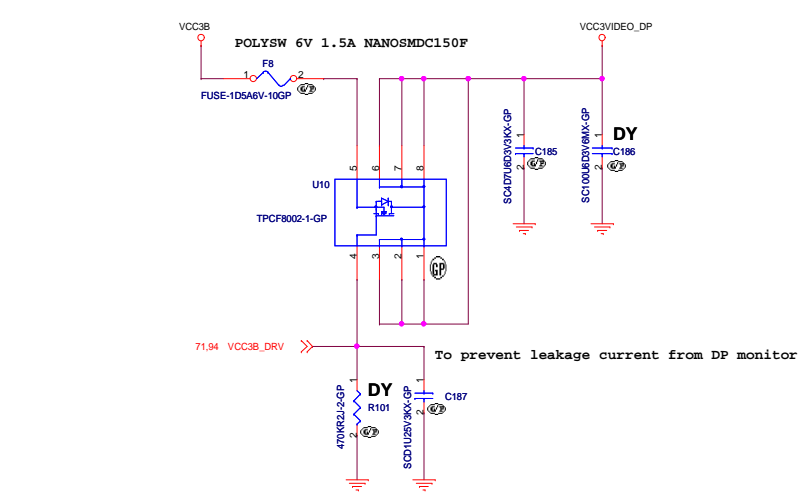
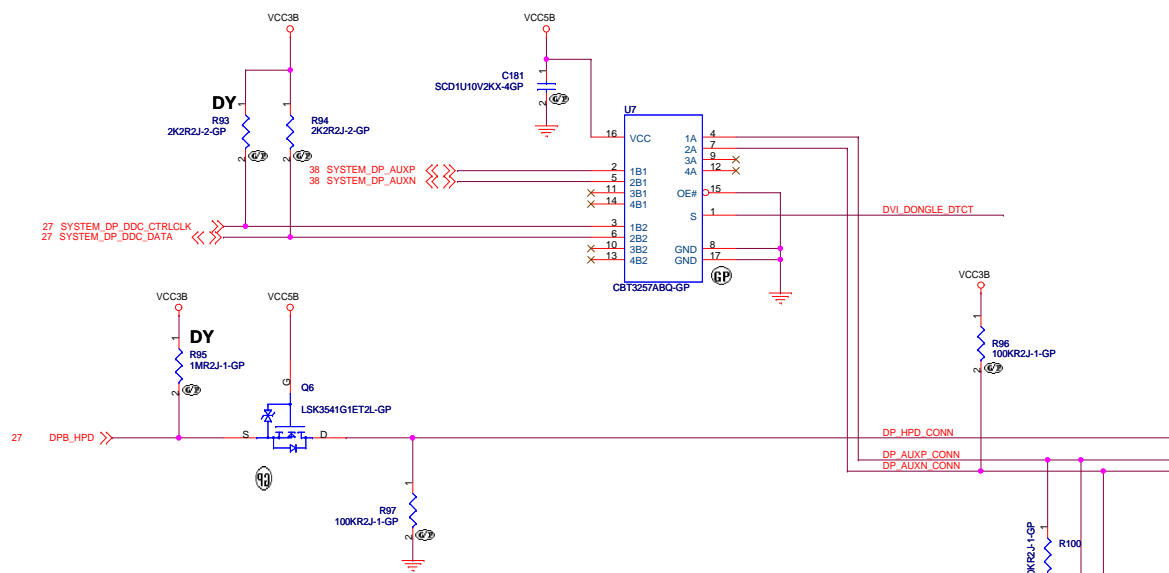
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SPACING=20MIL

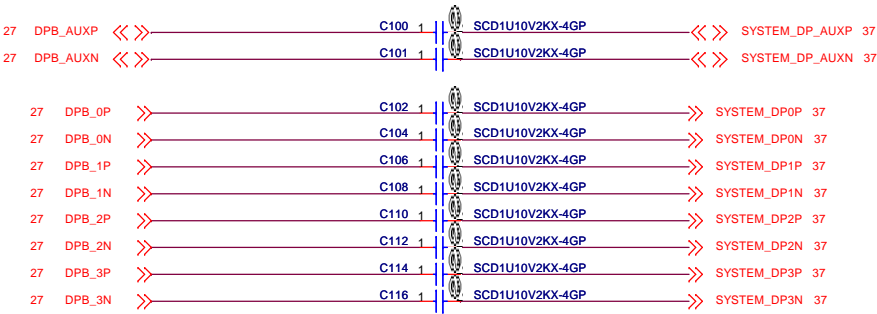


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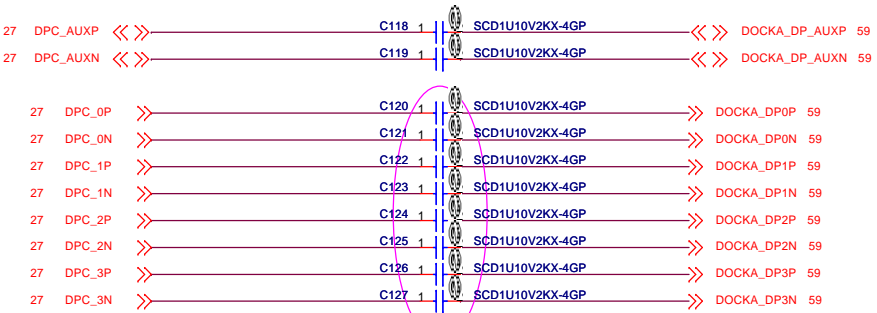
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Ext CRT Interface	
Title Size A3 Date: Thursday, March 15, 2012	Document Number Comet-2 Sheet 36 of 101
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System DP Connector



Docking DP Connector A



Place Near Docking Connector

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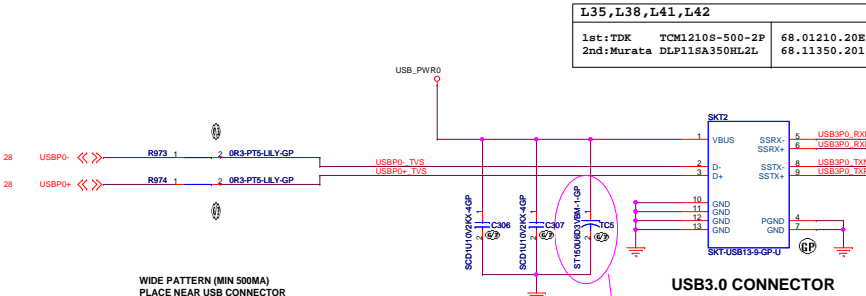
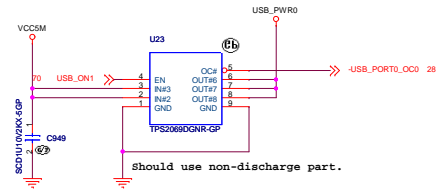
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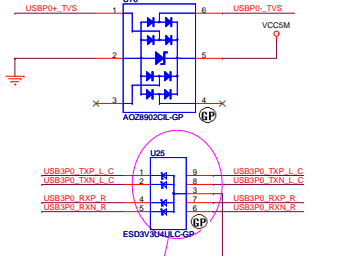
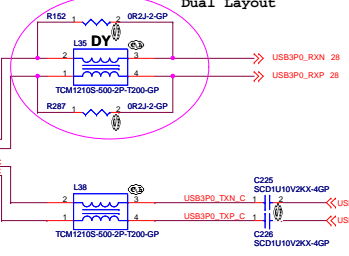
USB3.0 port0

U23,U18			
USB3.0 Enable	TI	TPS2069DGN	74.02069.079
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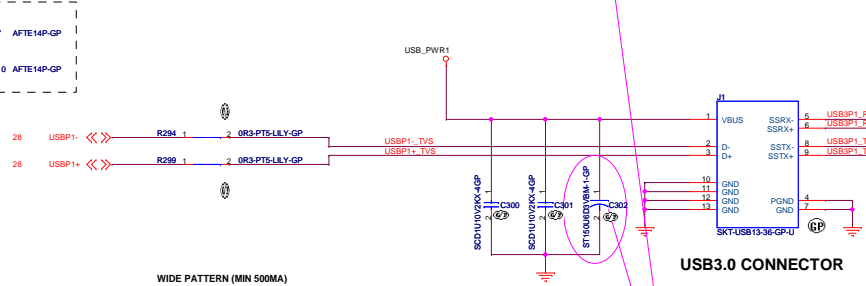
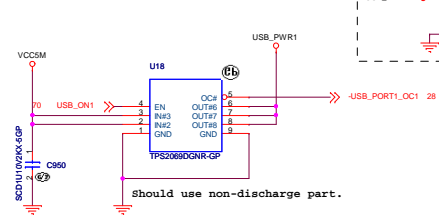


L35,L38,L41,L42

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2nd:Murata	DLP118A350HL2L	68.11350.201

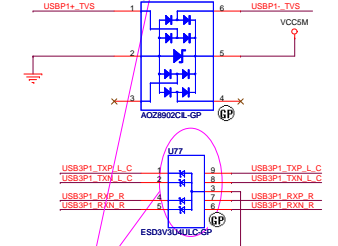
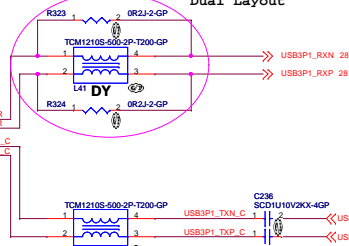


USB3.0 port1

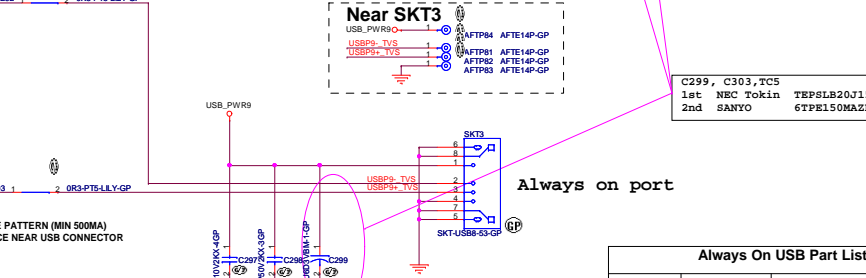
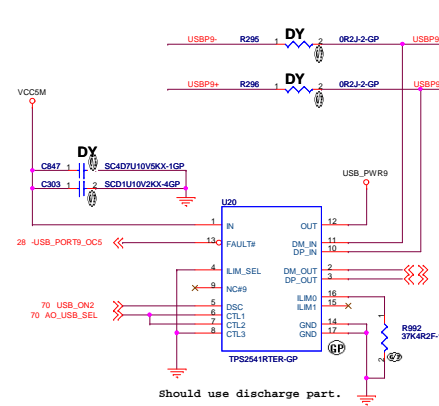


USB3.0 CONNECTOR

1	VBUS	SSRX-	SSRX+	5	USB3P1_RXN_R
2	D-	SSTX-	SSTX+	6	USB3P1_RXP_R
3	D+	SSTX-	SSTX+	7	USB3P1_TXN_L_C
4	GND	GND	GND	8	USB3P1_TXP_L_C
10	GND	GND	GND	11	USB3P1_TXN_C
11	GND	GND	GND	12	USB3P1_TXP_C
12	GND	GND	GND	13	USB3P1_TXN_C
13	GND	GND	GND	14	USB3P1_TXP_C



USB port9(Always On USB)



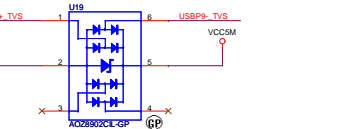
Always on port

1st	NEC Tokin	TEPSLB20J157M	77.C1571.09L
2nd	SANYO	6TPE150MAZB	77.21571.111

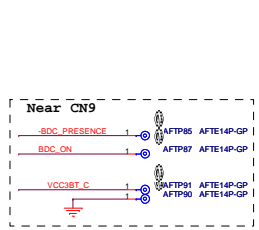
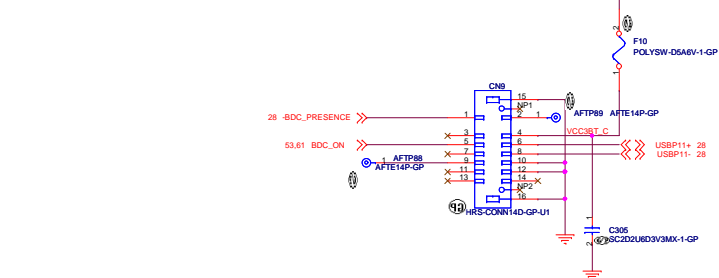


U25,U77

1st:Infineon	ESD3V3U4ULC	83.3V3U4.0A0
2nd:NXP	IP4294CZ10-TBR	83.04294.0A0



Bluetooth Module



Always On USB Part List (U20)

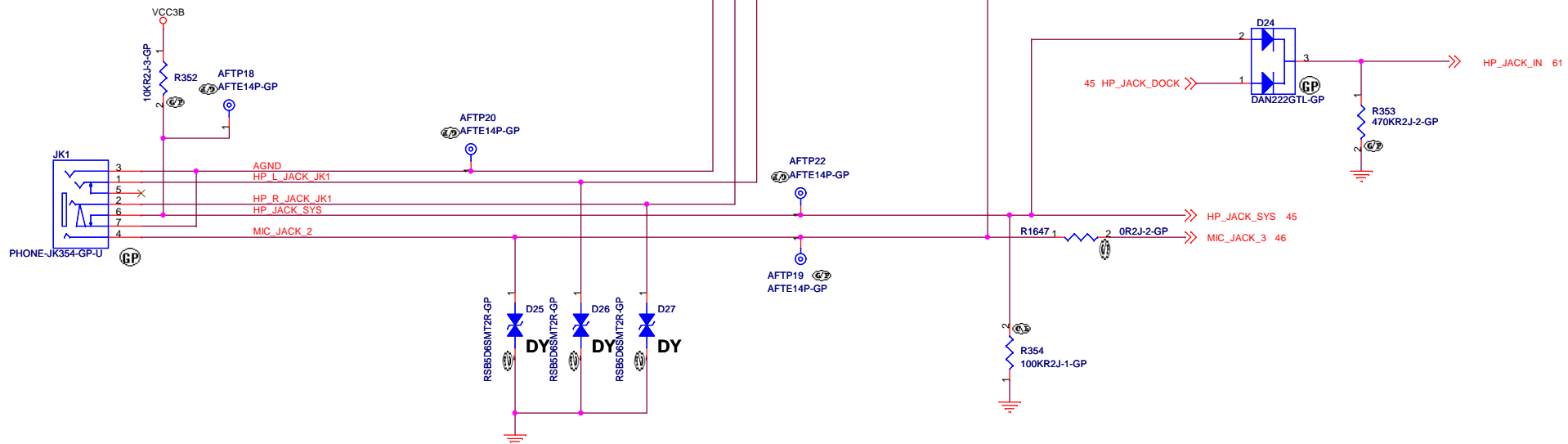
	~SDV	FVT~
TI	TPS2541RTER (74.02541.073)	TPS2541RTER(74.02541.073) TPS2541A(74.02541. A73)

Title			
AUDIO ALC3202			
Size A2	Document Number Comet-2		Rev -1
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NEAR HEADPHONE CONN

WIDE PATTERN

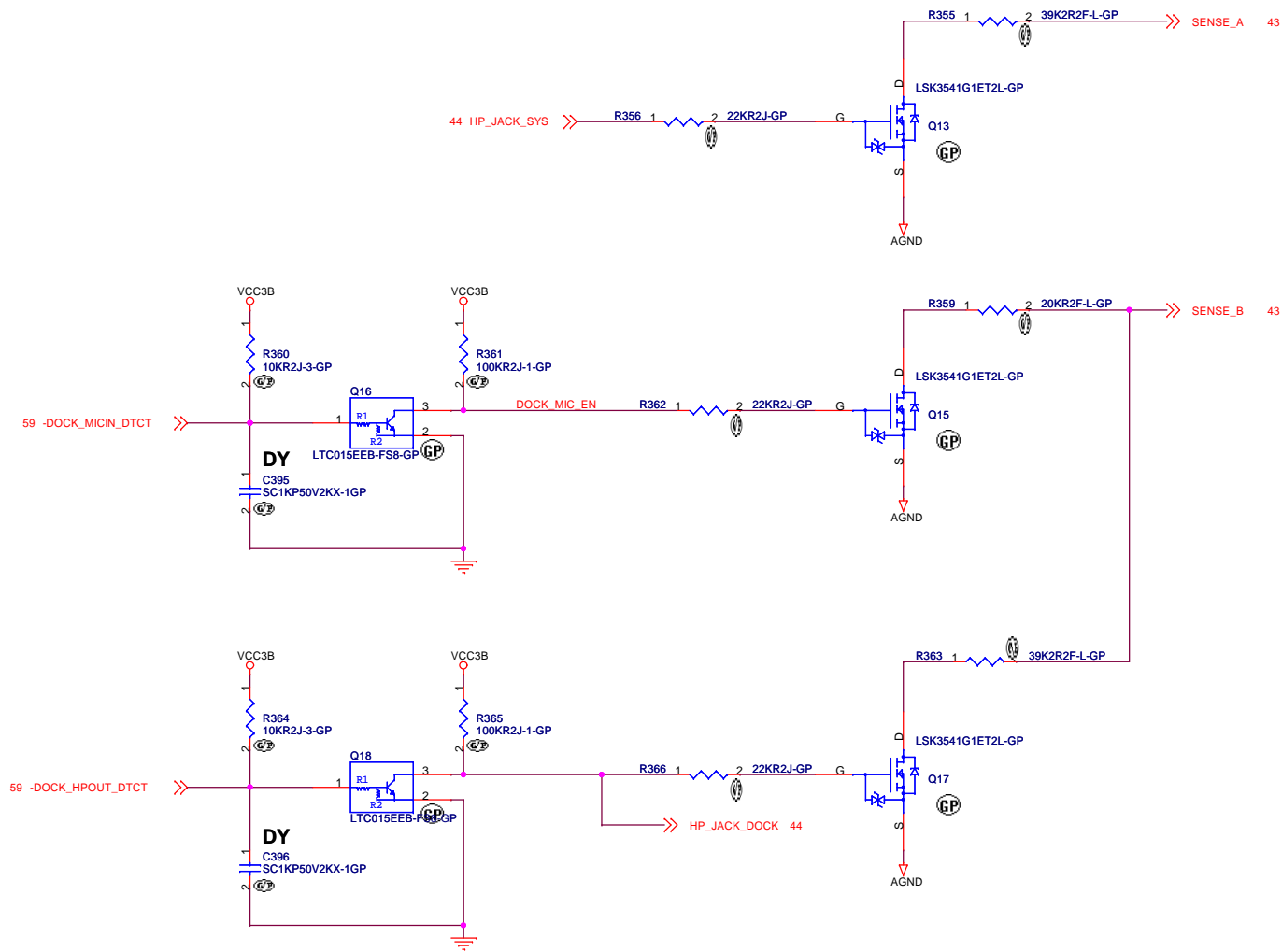
WIDE AND SHORT PATTERN



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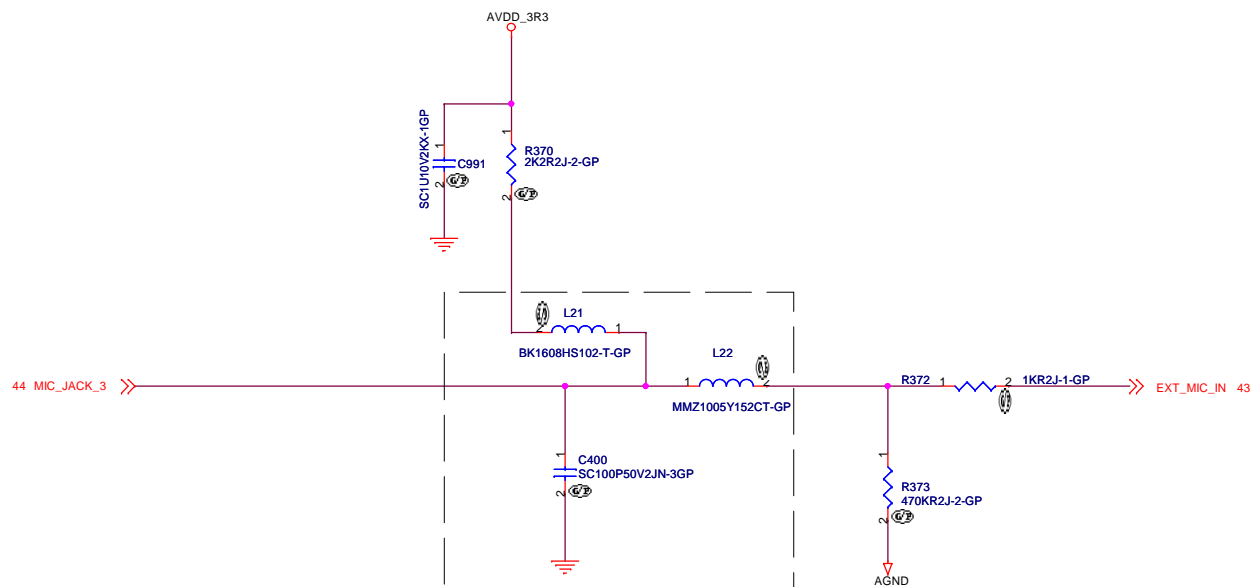
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Audio Connector		
Size A3	Document Number	Rev -1
Date: Thursday, March 15, 2012	Sheet 44 of 101	Comet-2



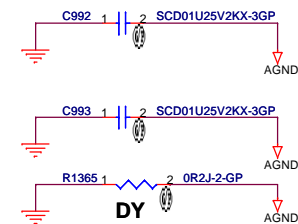
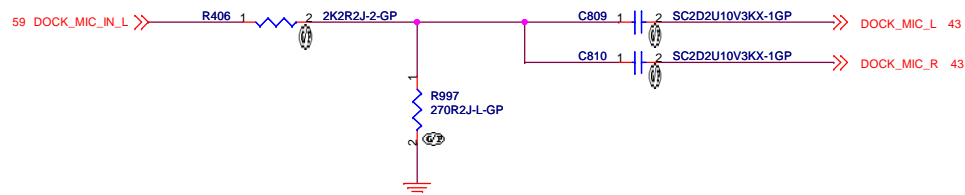
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Title			Audio Jack Sense
Size	Document Number	Rev	
A3		Comet-2	
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NEAR EXT MIC CONN



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<div> <div>Size</div> <div>A3</div> </div>	<div> <div>Document Number</div> <div>Comet-2</div> </div>
<div> <div>Date</div> <div>Thursday, March 15, 2012</div> </div>	<div> <div>Sheet</div> <div>46 of 101</div> </div>
<div> <div>Rev</div> <div>-1</div> </div>	

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Title

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Size
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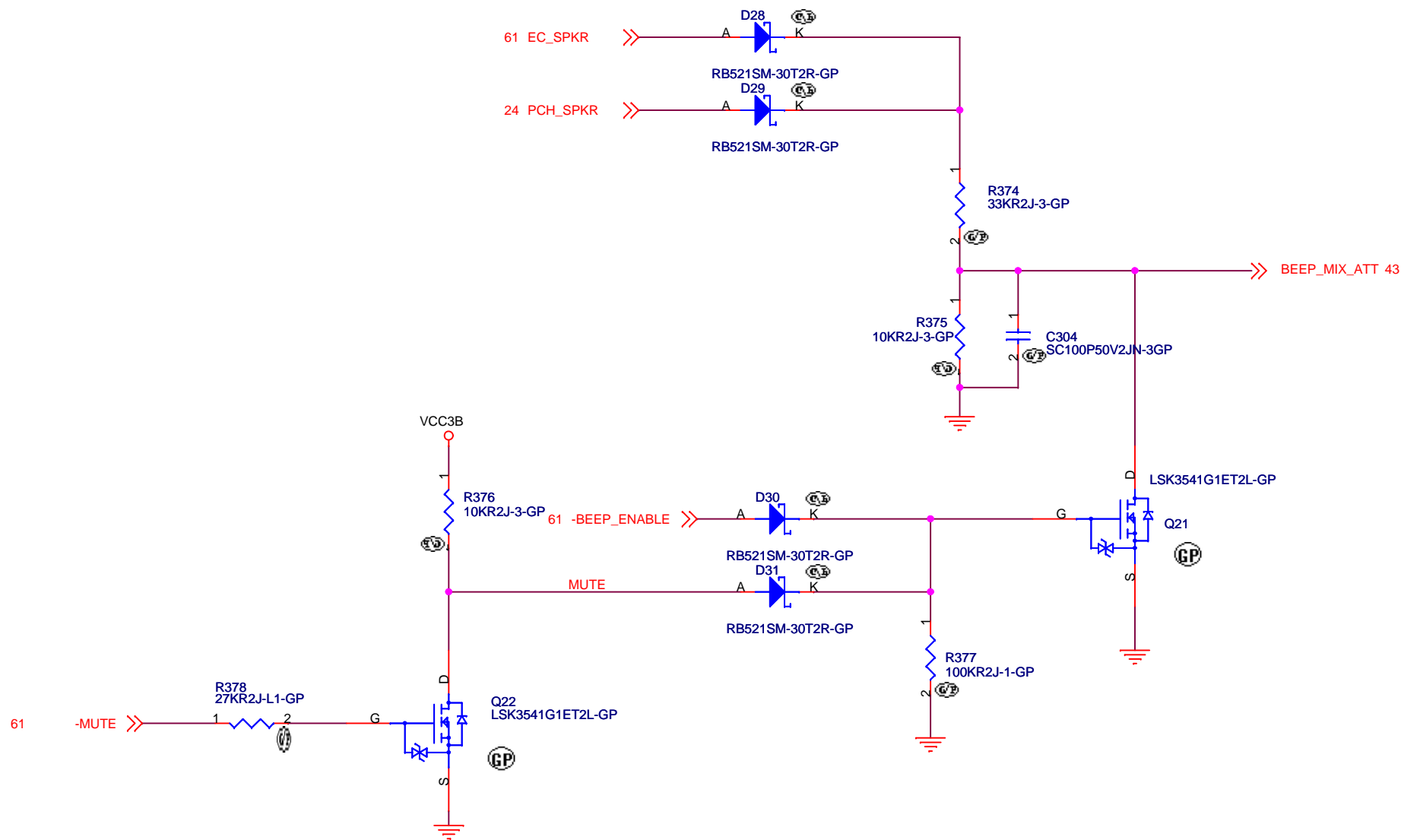
Document Number

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-1

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Title

Audio BEEP

Size
A4

Document Number

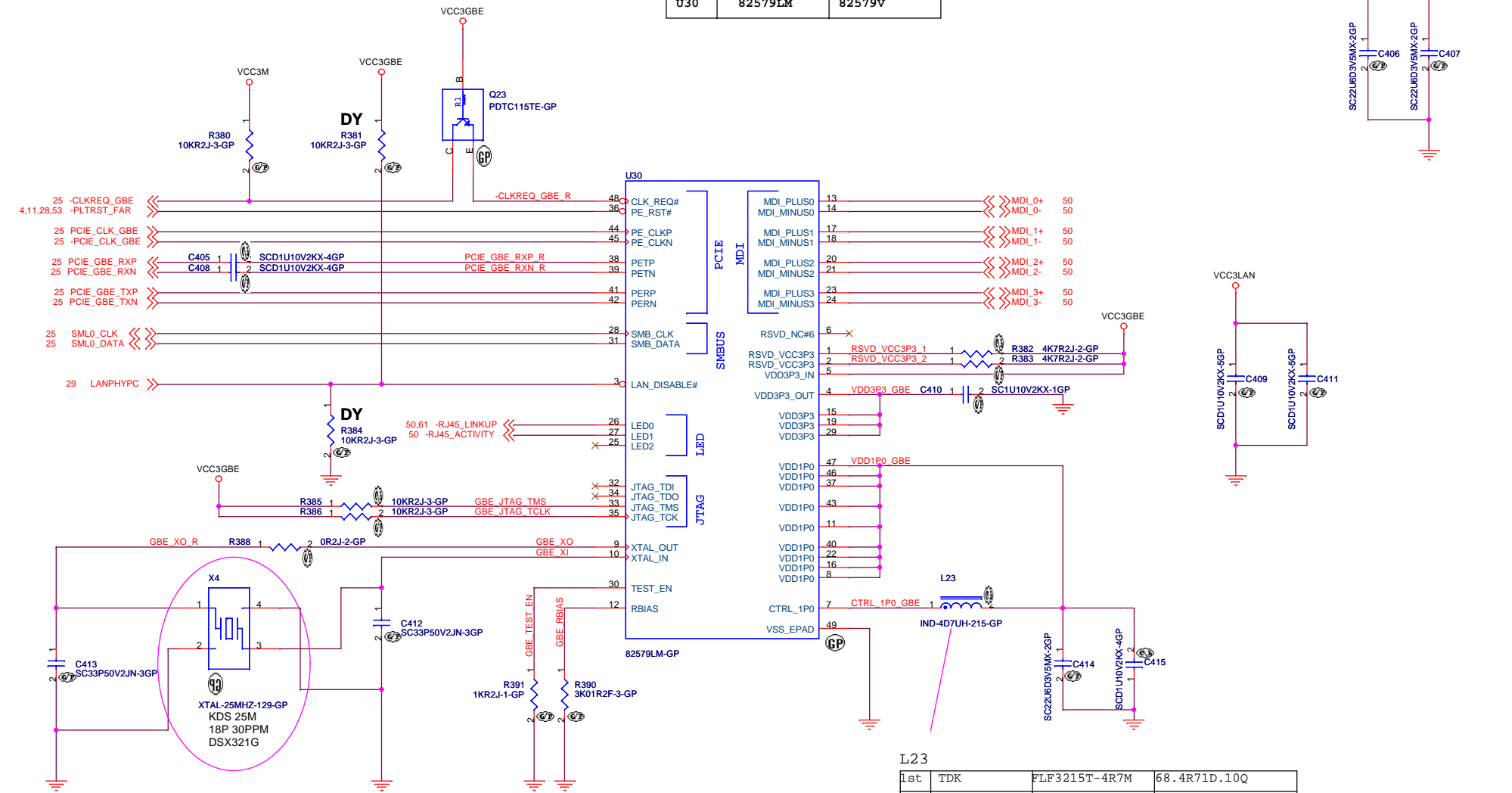
Comet-2

Rev
-1

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AMT	YES	NO
U30	82579LM	82579V



X4			
1st	KDS	DSX321G 25M 18P 30PPM	82.30020.B11
2nd	H.ELE	HSX321S 25M 18P 30PPM	82.30020.B21
3rd	TXC	7V25020001 25M 18P 30PPM	41U6141AA

L23			
1st	TDK	FLF3215T-4R7M	68.4R71D.10Q
2nd	Murata	LQH32PN4R7NN0	68.4R750.20H
3rd	Taiyo Yuden	BRL3225T4R7M	68.4R71E.10I

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Title

GBE Lewisville

Size

A3

Document Number

Comet-2

Date

Thursday, March 15, 2012

Rev

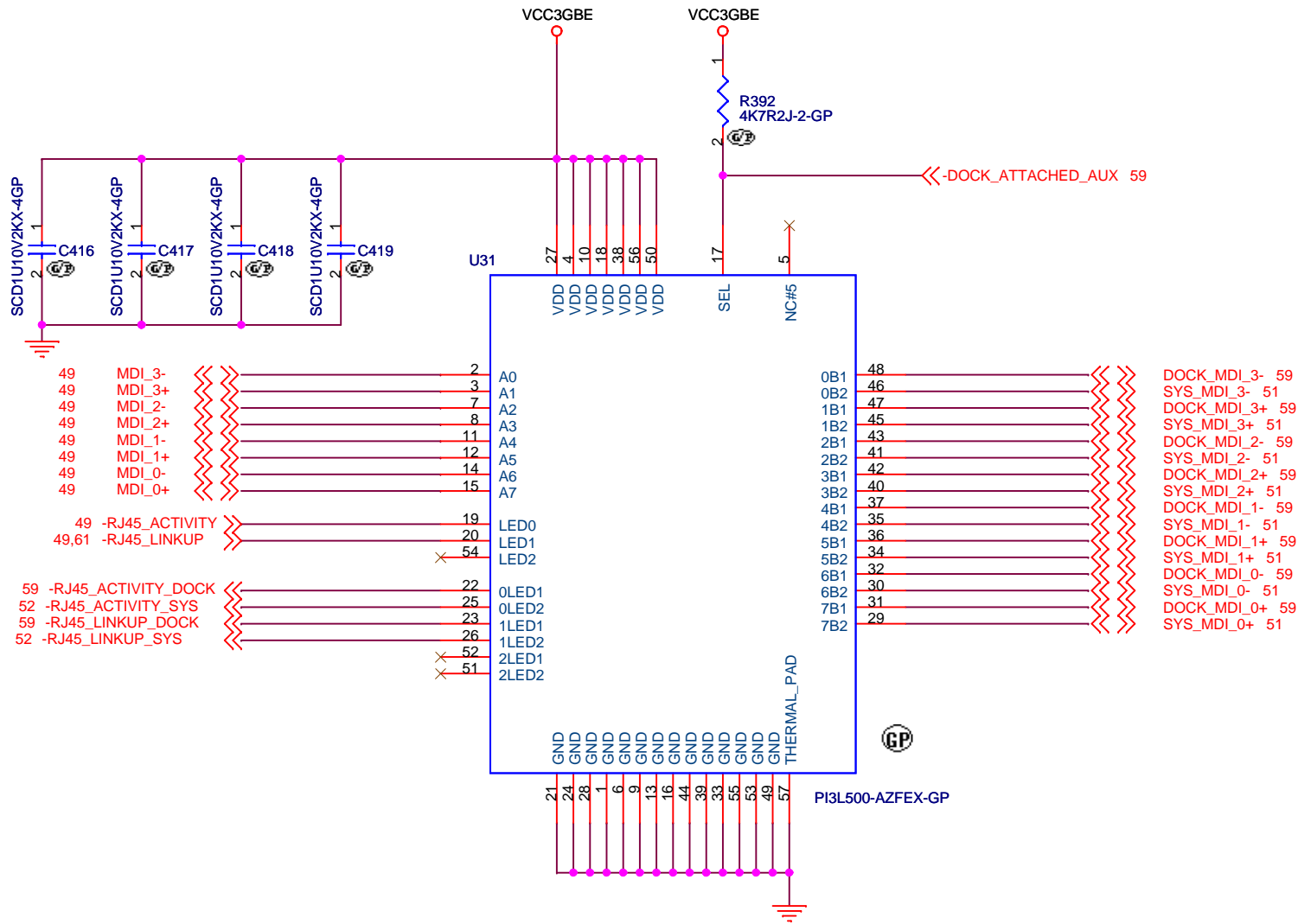
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Sheet

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of

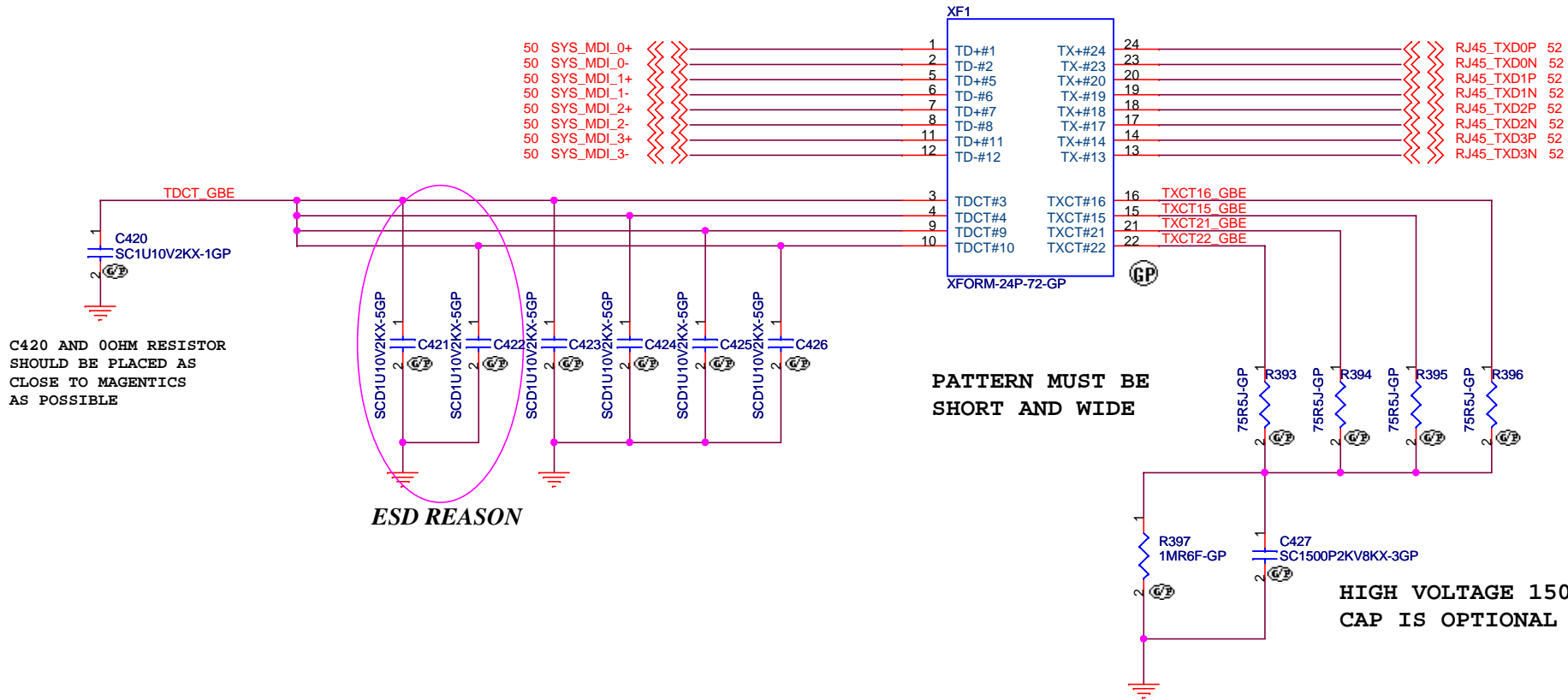
101



		Vendor P/N	Wistron P/N
1st	Pericom	PI3L500AZFEX	73.3L500.003
2nd	TI	TS3L500AERHUR	73.3L500.A0V
3rd	ST	STMUX1800LQTR	73.01800.003

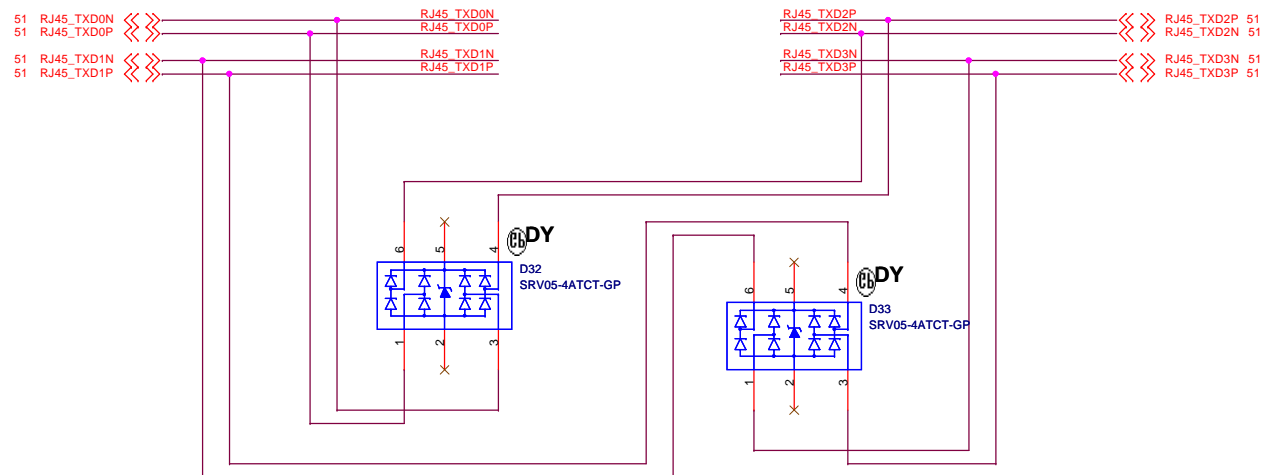
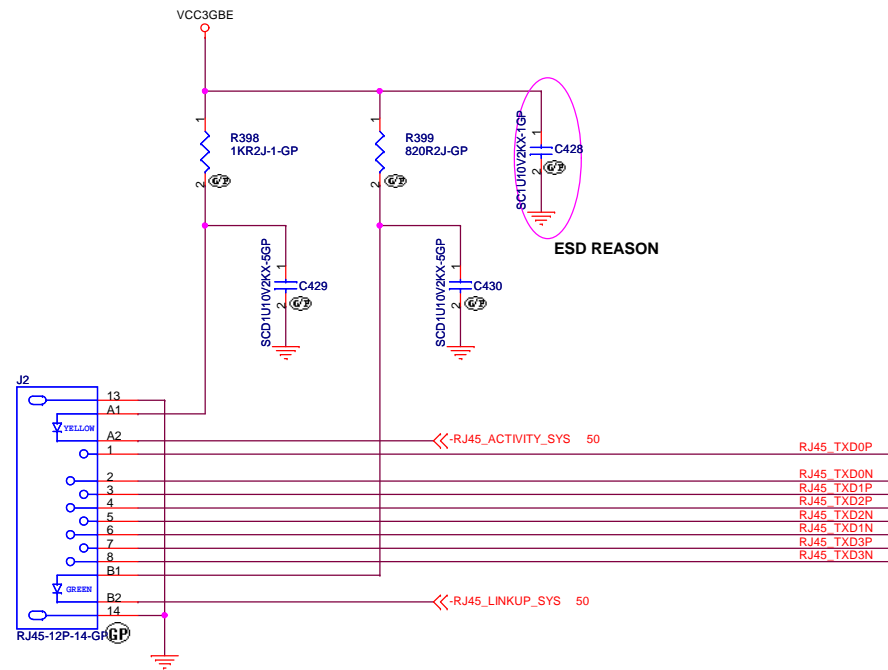
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Title	
GBE LAN Switch	
Size A4	Document Number Comet-2
Date: Monday, March 19, 2012	Rev -1
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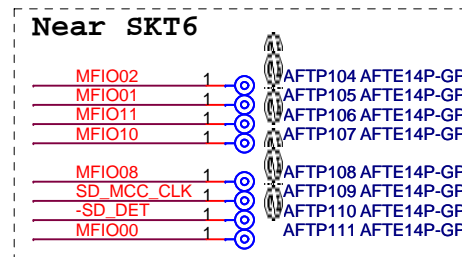
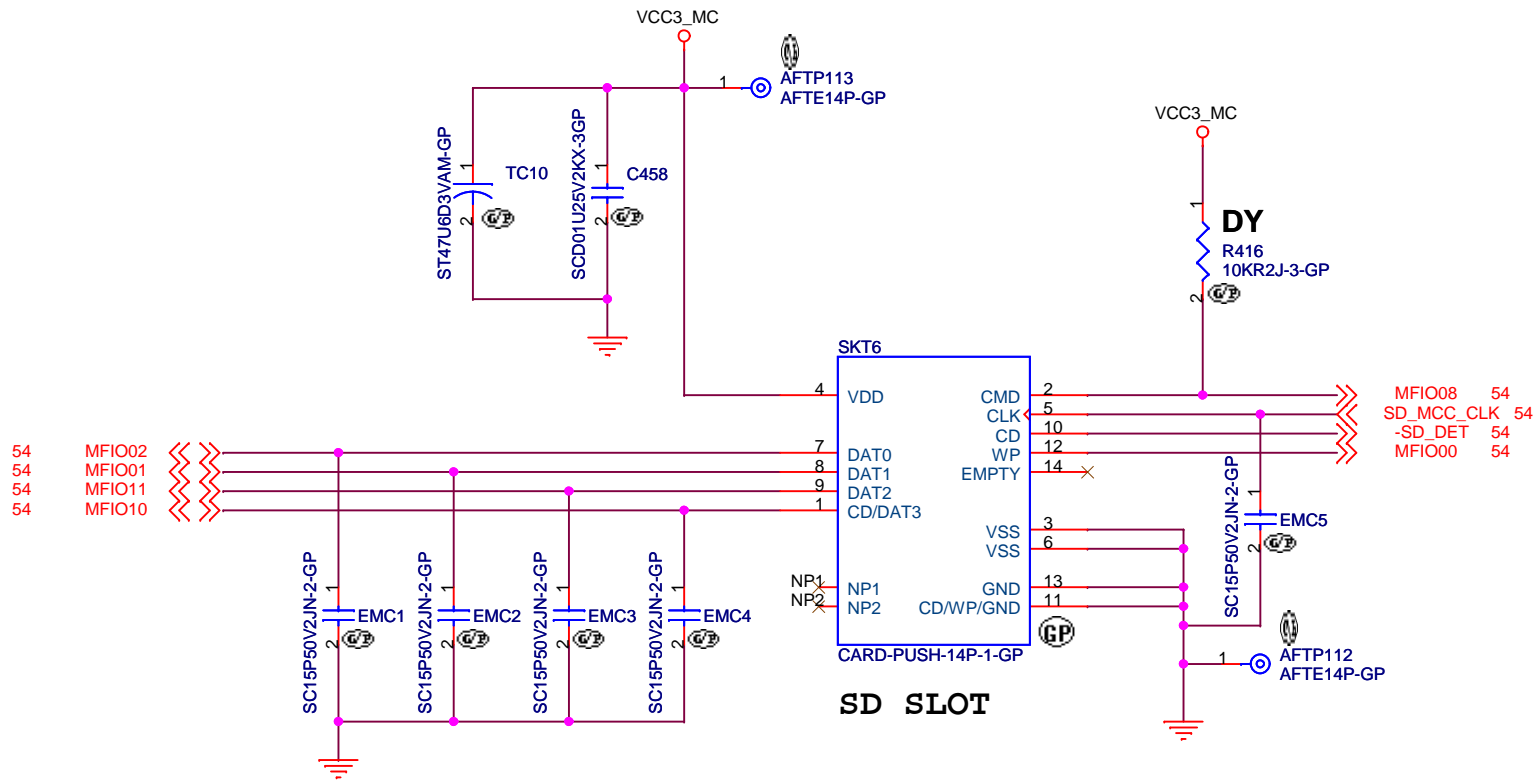
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21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title			
GBE MAGNETICS			
Size	Document Number	Rev	
Custom		Comet-2	
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緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.		
RJ45 CONNECTOR		
Title Size A3	Document Number Comet-2	Rev -1
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Title

Media Card Slot

Size
A4

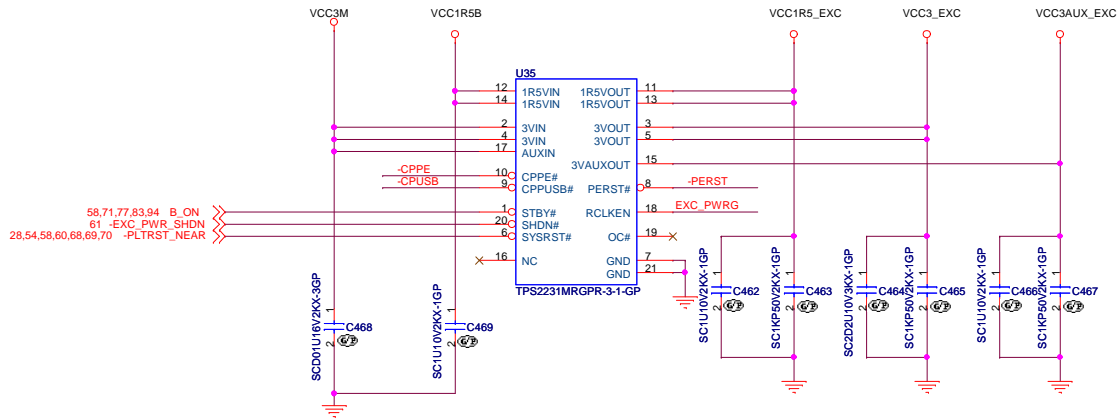
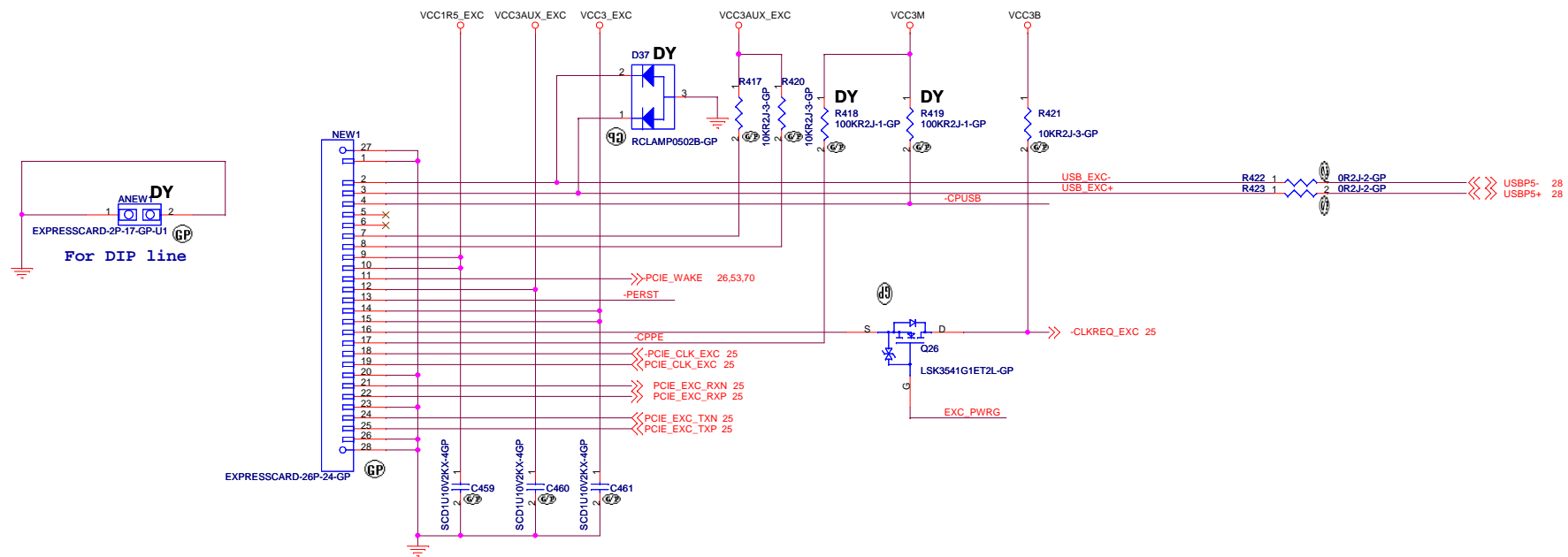
Document Number

Comet-2

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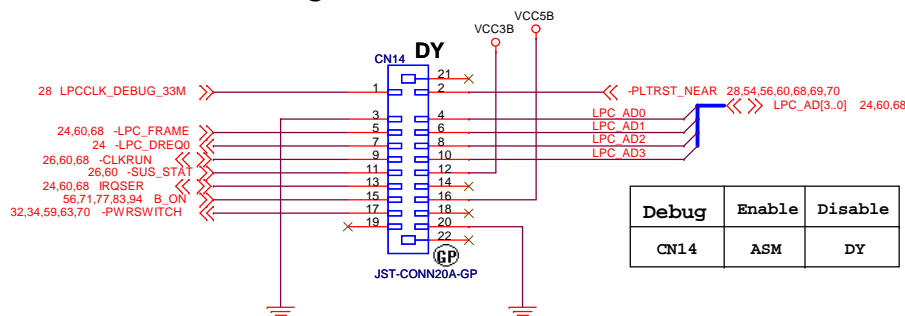
U35	TI	TPS2231MRGP-3	45K0234BA
	Rohm	BD4156MUV-GTR	74.04156.A73
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Title BLANK			
Size A	Document Number Comet-2		Rev -1
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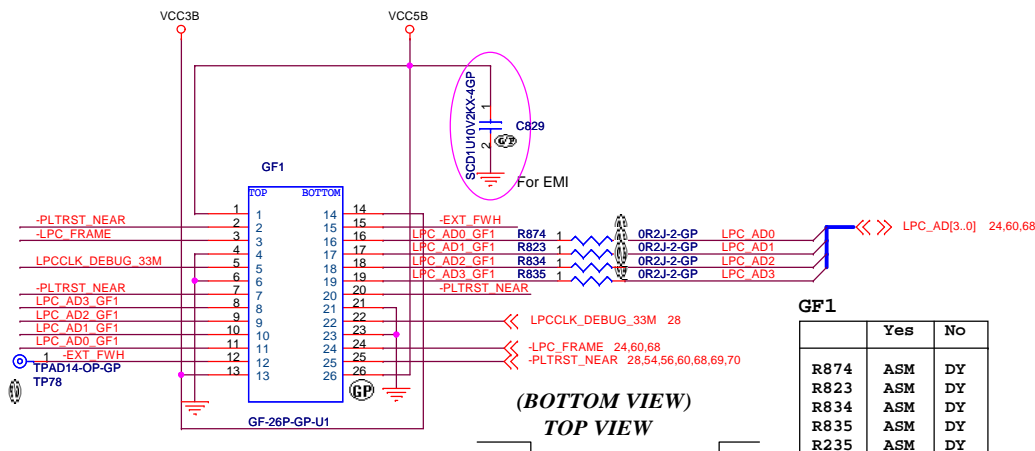
Debug card connector



Put "easy-to -access" place

4MB			
SO8	Marconix	MX25L3206EM2I-12G	72.25320.C01
	Winbond	W25Q032BVSSIG	72.25Q32.A01
	Eon	EN25QH32-104HIP	72.02532.B01
	Numonyx	N25Q032A13ESEC0	72.25Q32.C01
8MB			
SO8	Marconix	MX25L6406EM2I-12G	72.25640.D01
	Winbond	W25Q064CVSSIG	72.25Q64.B01
	Eon	EN25QH64-104HIP	72.02564.001
	Numonyx	N25Q064A13ESEC0	72.25Q64.G01
	Winbond	W25Q64FVSSIG	72.25Q64.F01

Golden Finger for Debug Board



Configuration Table

	CONFIG-1 16MB	CONFIG-2 12MB	CONFIG-3 8MB
SPI1	16MB	8MB	8MB
SPI2	DY	4MB	DY
R429	DY	ASM	DY
R431	DY	ASM	DY
R433	DY	ASM	DY
R1375	DY	ASM	DY
R1376	DY	ASM	DY
C471	DY	ASM	DY
R149 (P. 24)	DY	ASM	DY
R122	DY	ASM	DY

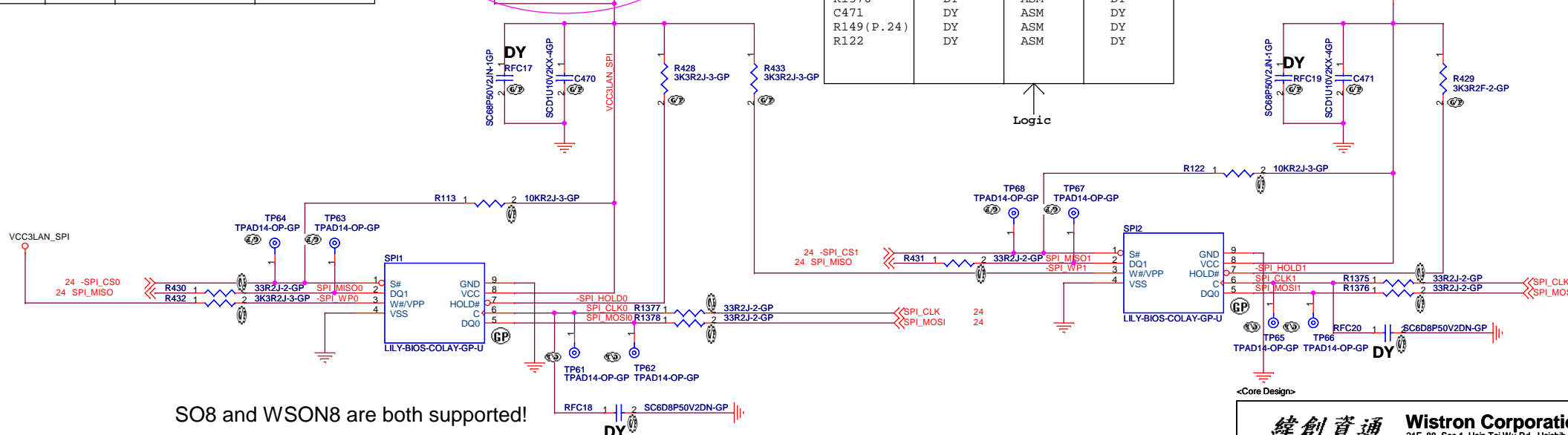
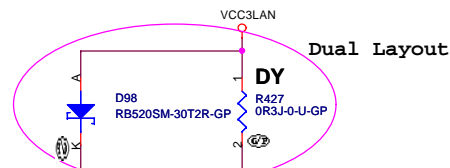
(BOTTOM VIEW)
TOP VIEW

(26) (25)....(15) (14)

13 12 2 1

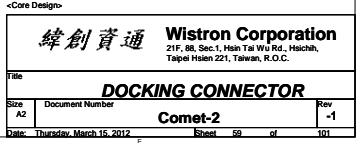
GF1	Yes	No
R874	ASM	DY
R823	ASM	DY
R834	ASM	DY
R835	ASM	DY
R235	ASM	DY

Logic

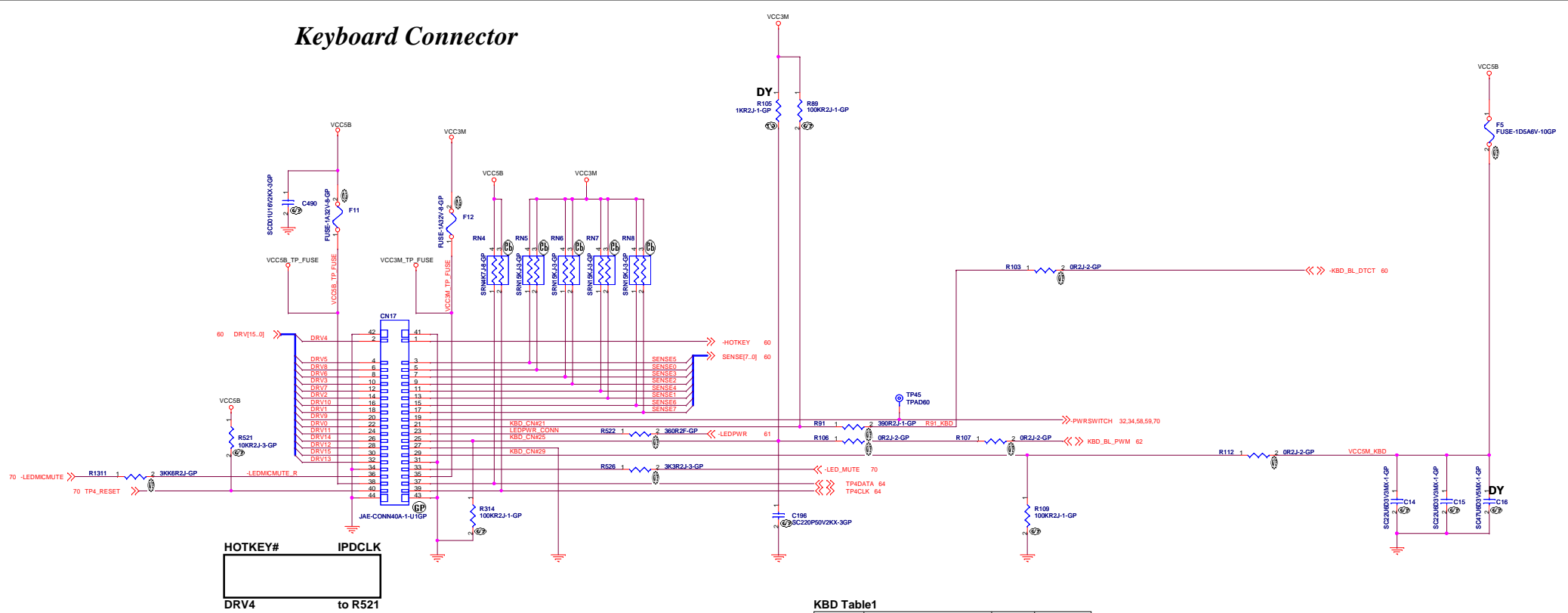


SO8 and WSON8 are both supported!

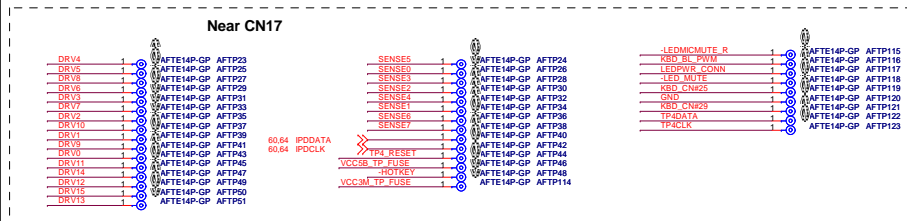
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Keyboard Connector



Keyboard Connector Top View



KBD Table1

		case1	case2
	CS12 KBD w/o BL	v	v
	CS12 KBD w BL		v
Parts#	parts	case1	case2
R89	100k 5%_0402	ASM	ASM
R105	1k 5%_0402	ASM	DY
R111	10k 5%_0402	DY	ASM
R110	10k 5%_0402	DY	ASM
R91	390 5%_0402	DY	ASM
R107	0 5%_0402	DY	ASM
R103	0 5%_0402	ASM	ASM
R106	0 5%_0402	DY	ASM
R112	0 5%_0402	DY	ASM
R109	100k 5%_0402	DY	ASM
R191	0 5%_0402	ASM	ASM
C16	47uF 6.3V_0805	DY	DY
C15	10uF 6.3V_0603	DY	ASM
C14	10uF 6.3V_0603	DY	ASM
F5	1.5A/6V PolySW	DY	ASM

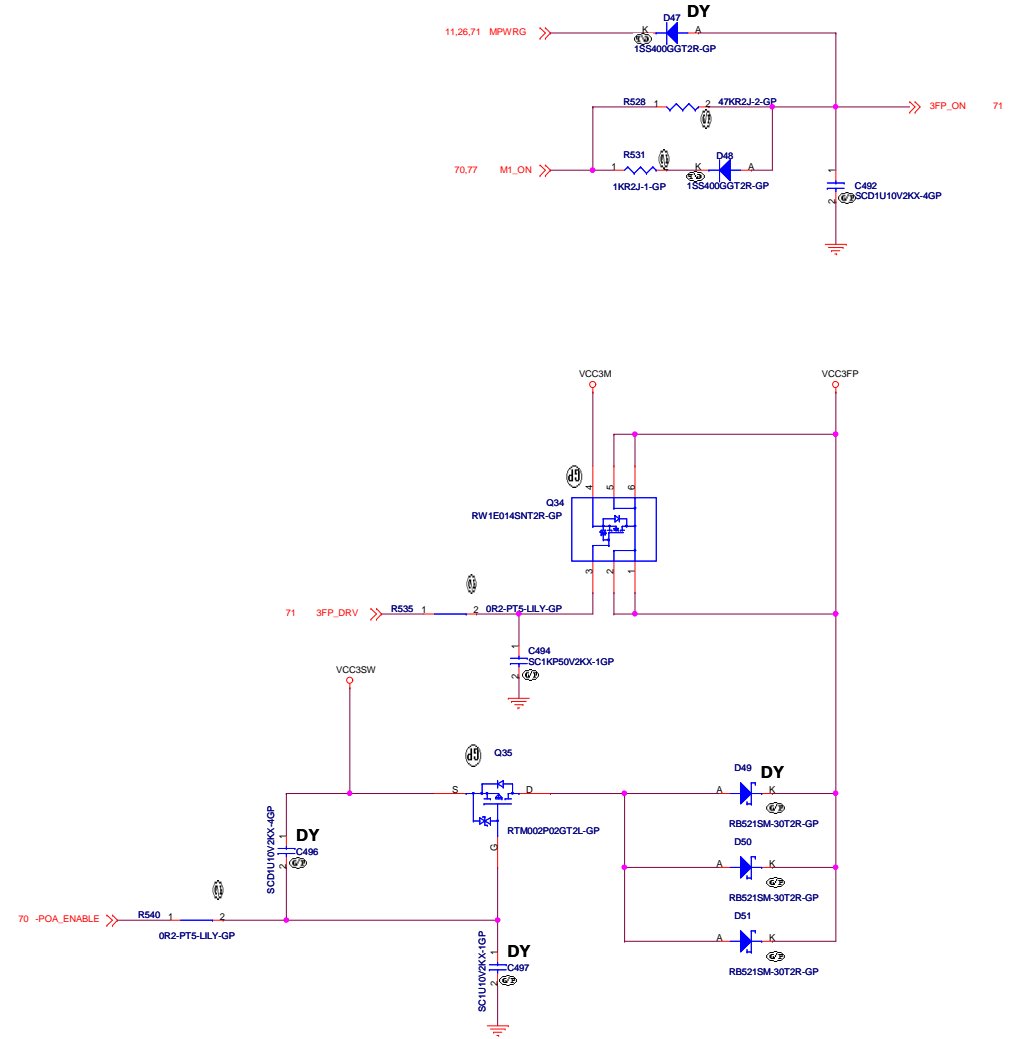
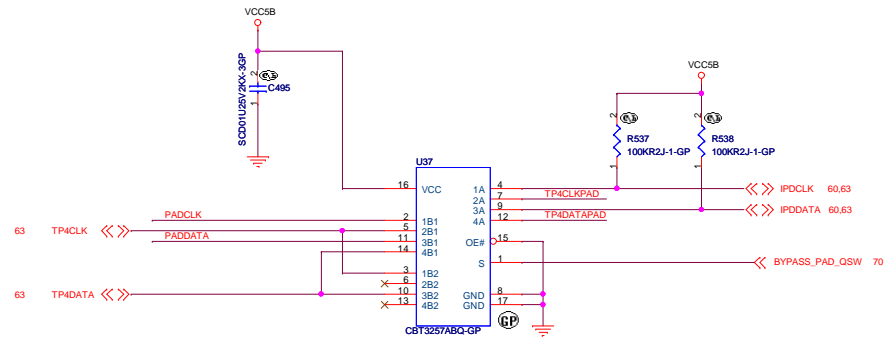
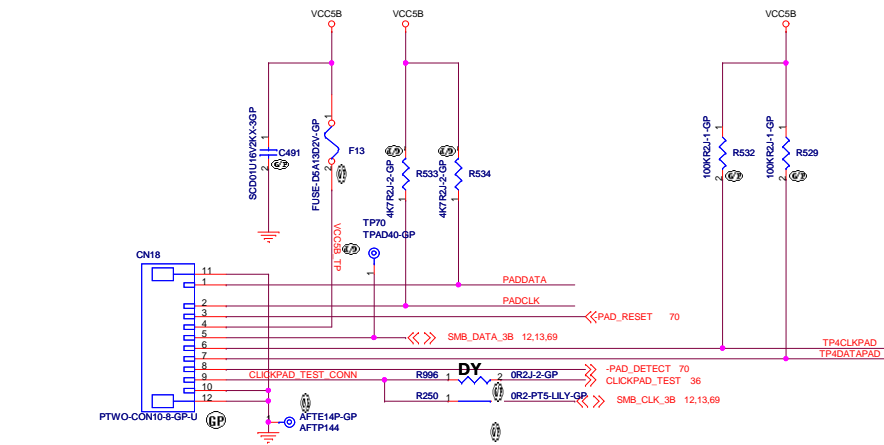
↑
Logic

◀Core Design▶

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Title			
KEYBOARD CONNECTOR			
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Touch PAD



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ULV

FAN_ID	Thermal module
1	DELTA or Toshiba
0	AVC

FAN_ID	Thermal module
1	Toshiba
0	AVC or DELTA

<Core Design>

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Title

FAN Control

Size
A4

Document Number

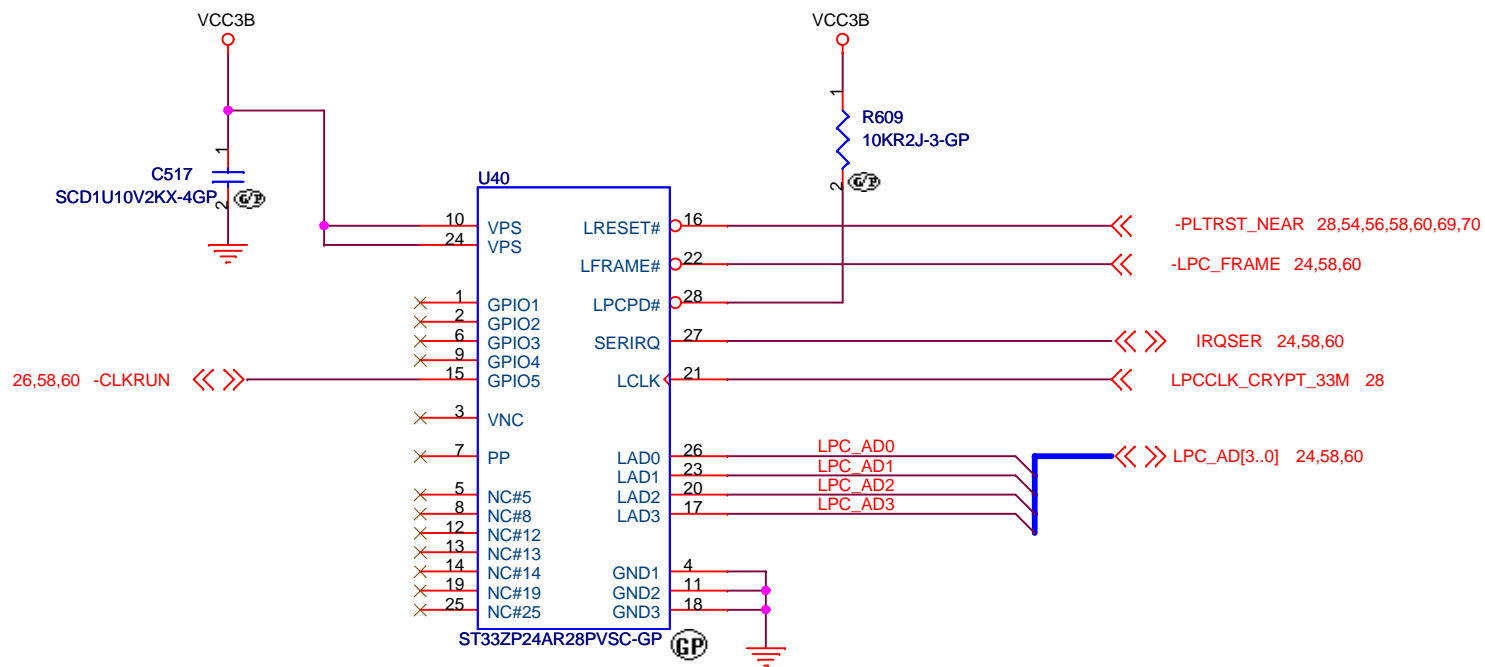
Comet-2

Rev	-1
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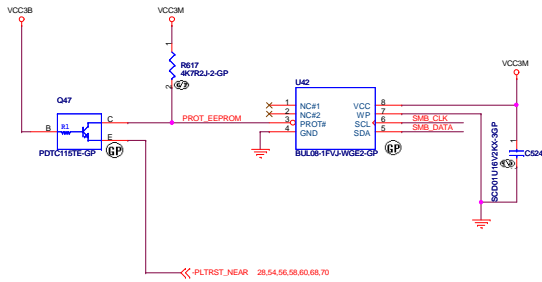
Rev
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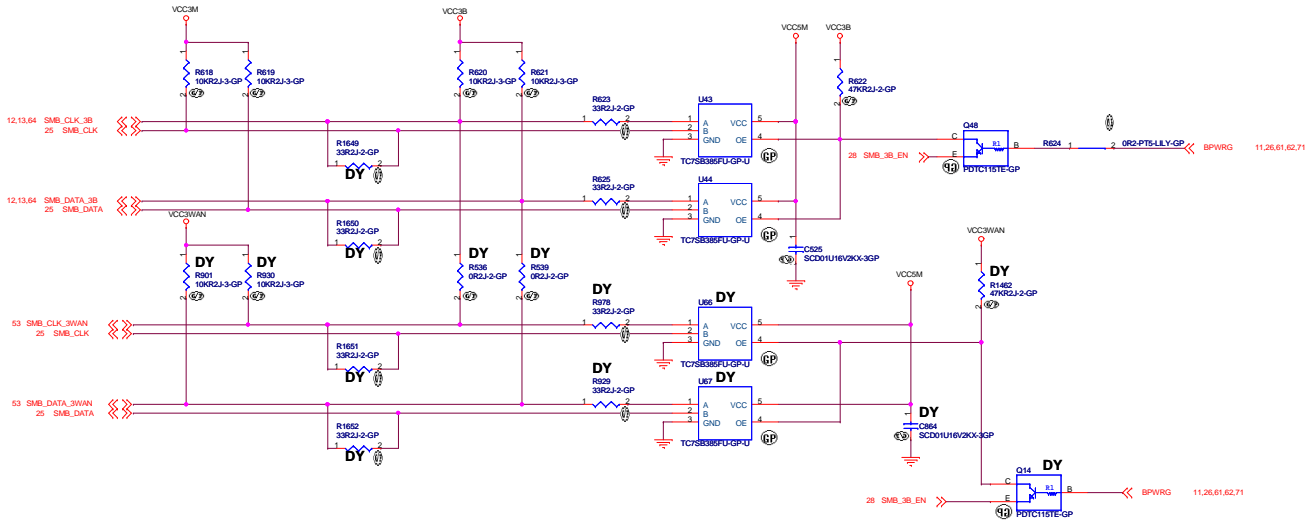
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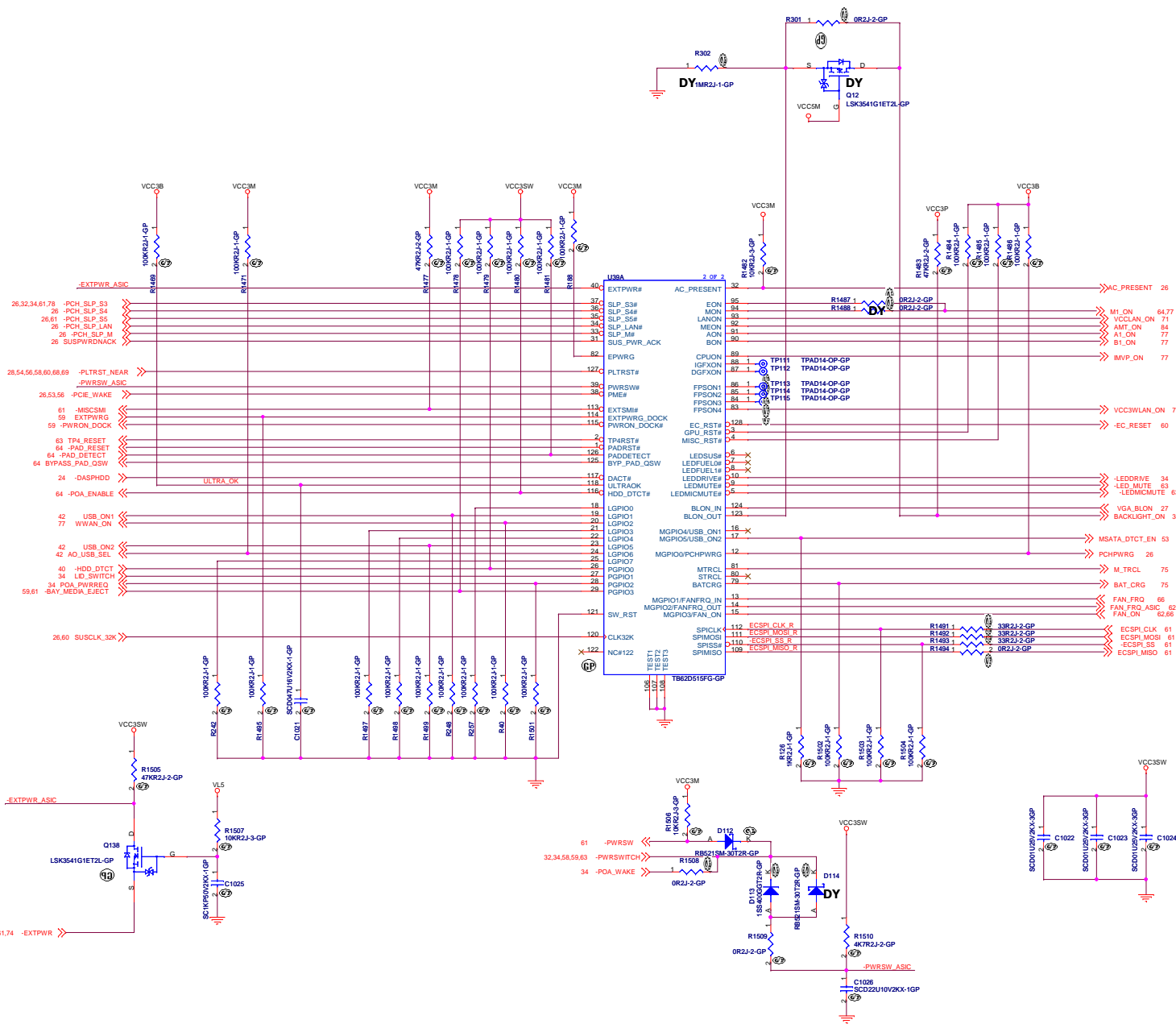
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Size	Document Number
A4	Comet-2
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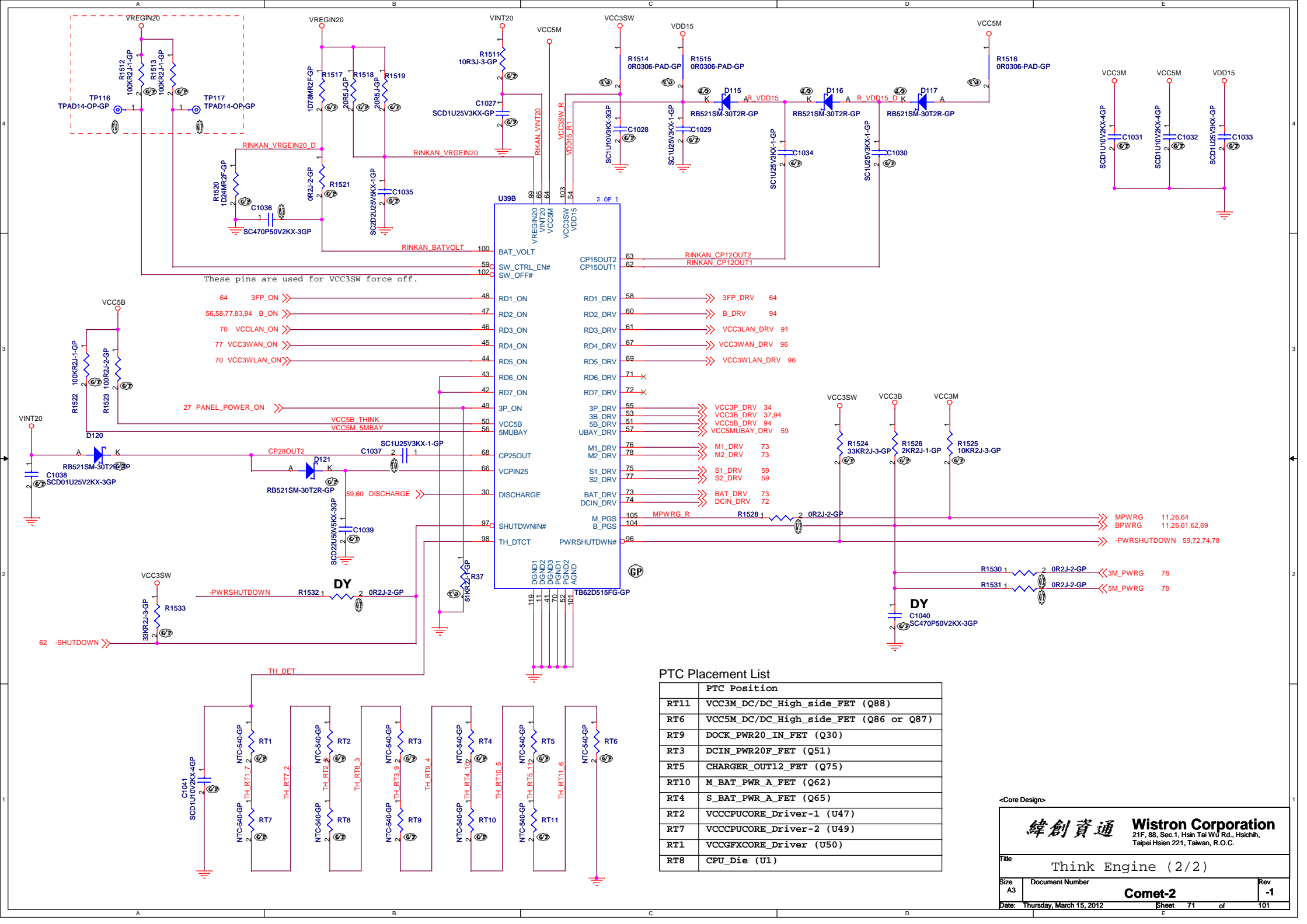
EEPROM



	Vendor	U42	Part Number
1st	ROHM	BUL08-1FVJ-W	72.BUL08.A0Q
2nd	NXP	PCA24S08ADP	72.24S08.A0Q
3rd	Sanyo	LE26CAP08TT	72.26C08.00R

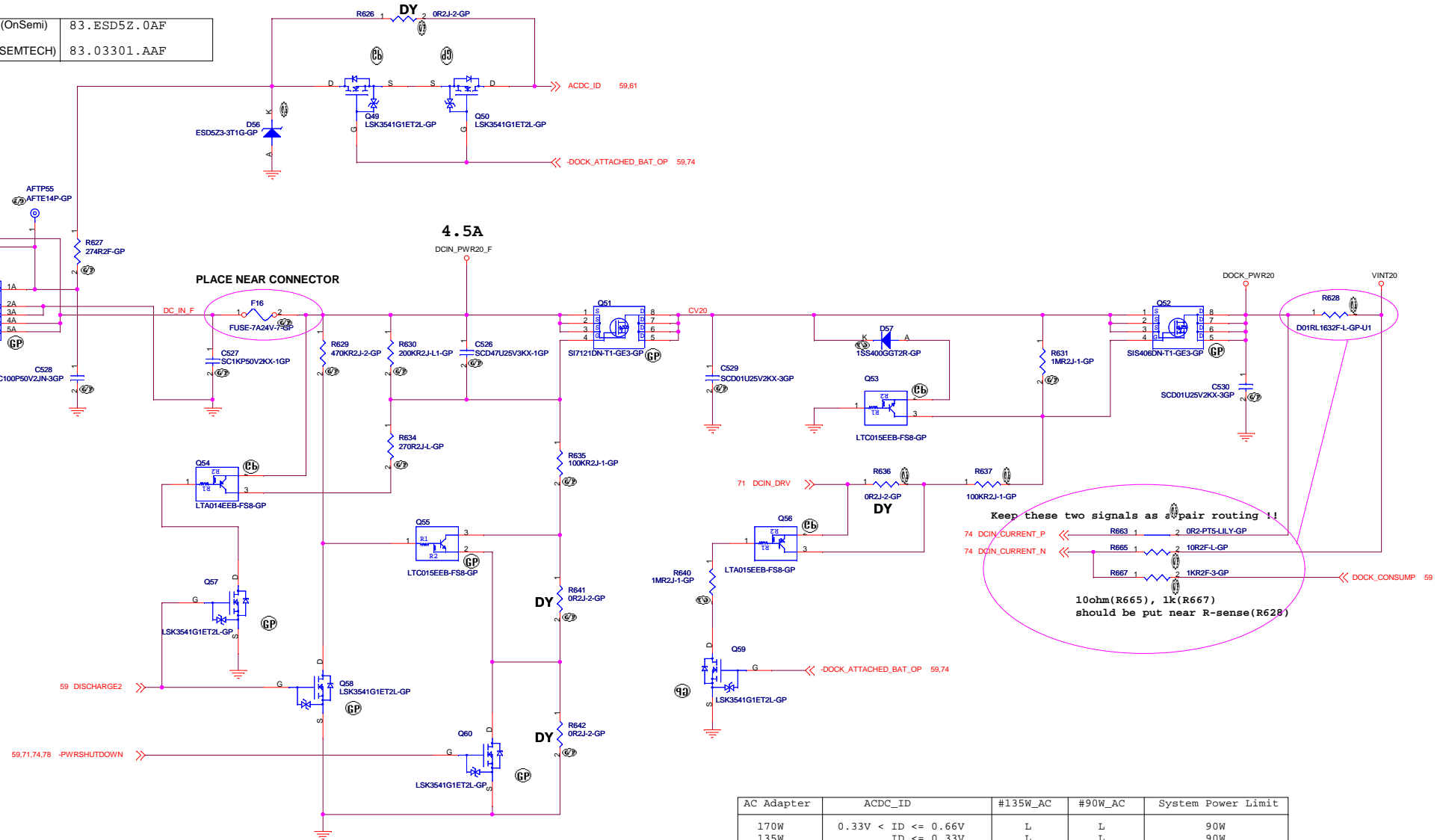






D56

ESD5Z3.3T1G(OnSemi)	83.ESD5Z.0AF
uClamp3301H(SEMTECH)	83.03301.AAF

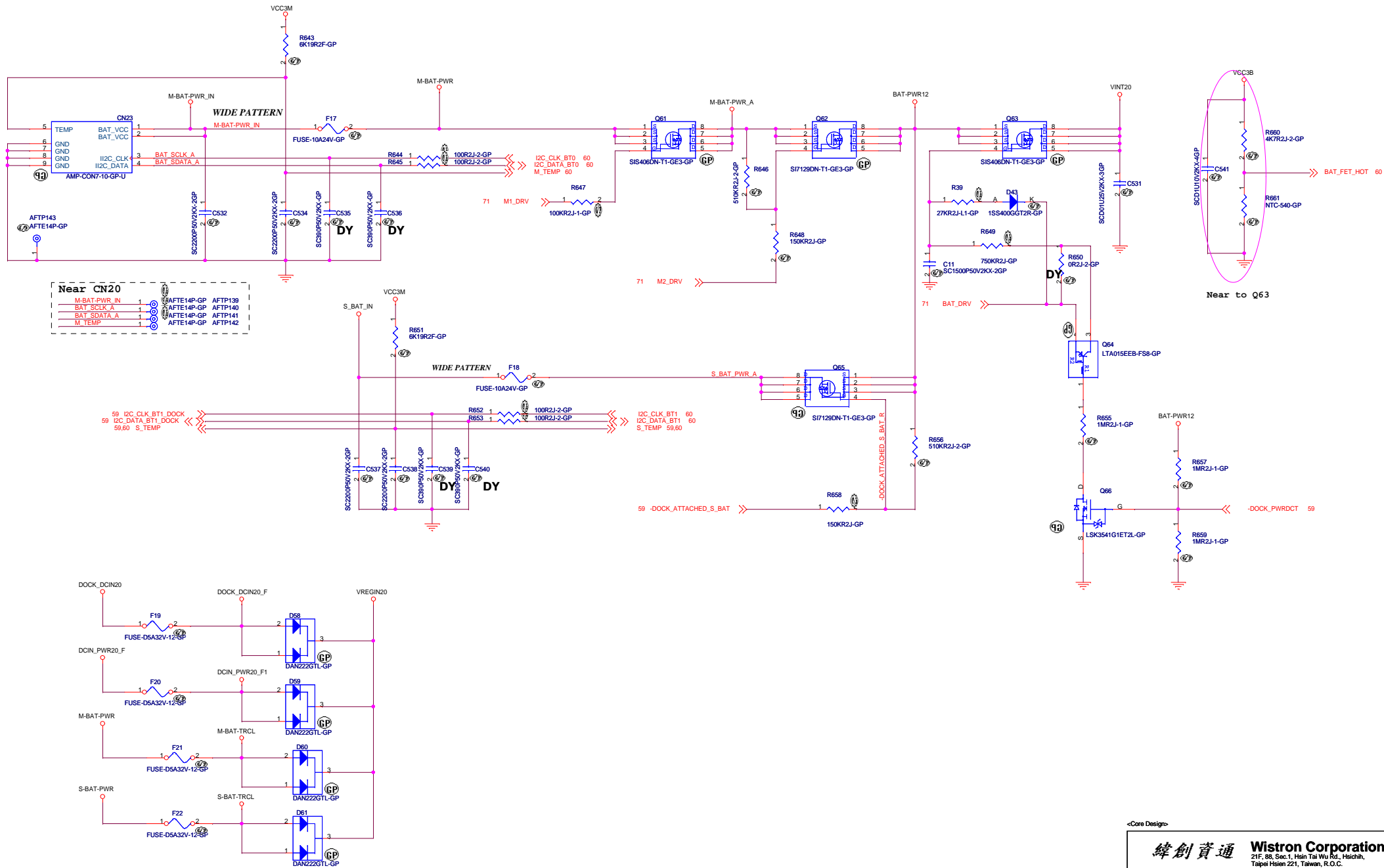


PEAK SHIFT	YES	NO
R641	NO-ASM	ASM
R629	ASM	NO-ASM
Q58	ASM	NO-ASM
Q55	ASM	NO-ASM

Logic

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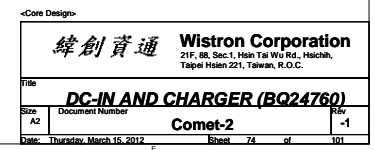
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Title		DC-IN	
Size	Document Number	Rev	
Custom	Comet-2	-1	
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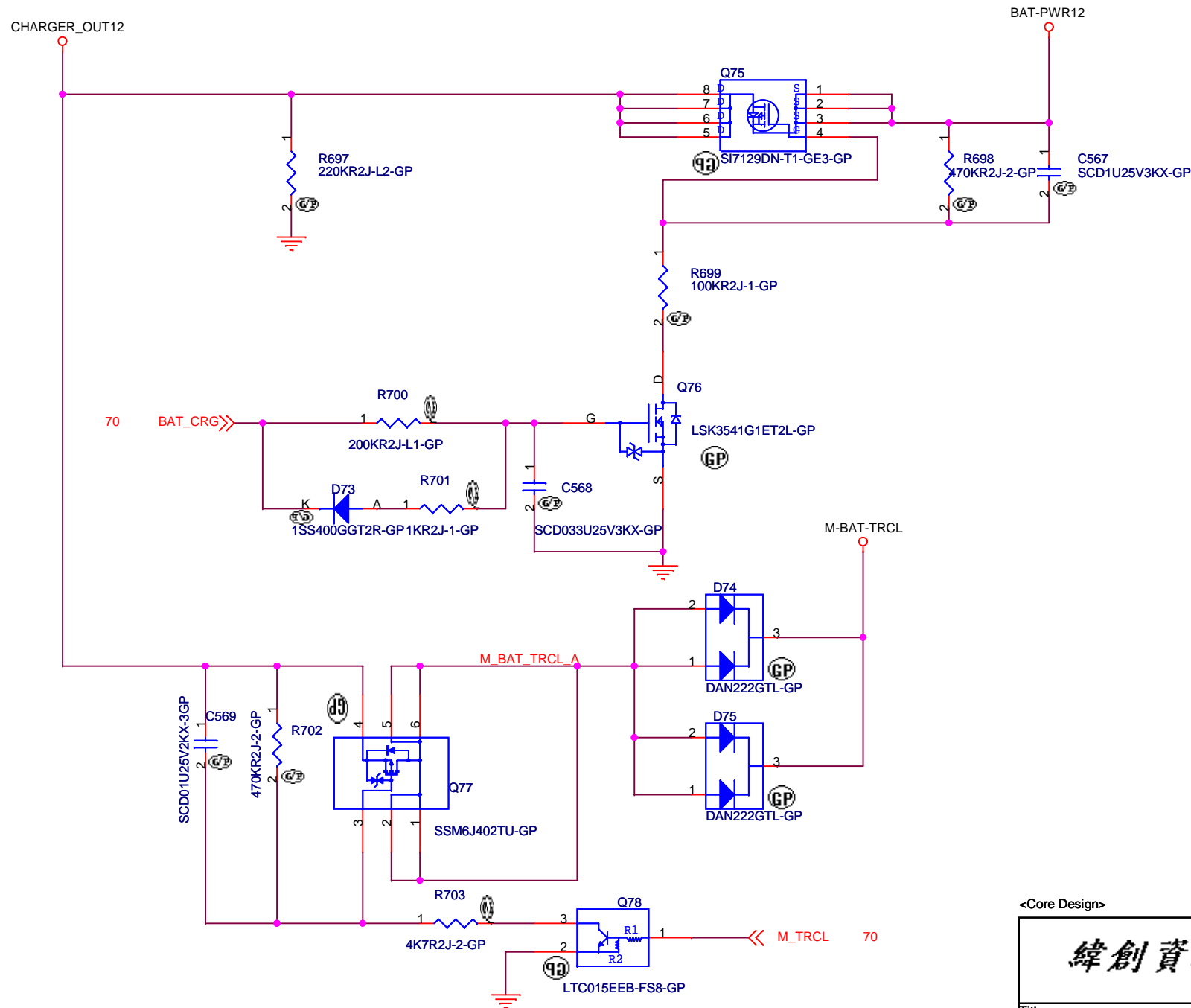


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BATTERY INPUT			
File			
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Title

CHARGER SELECT

Size
A4

Document Number

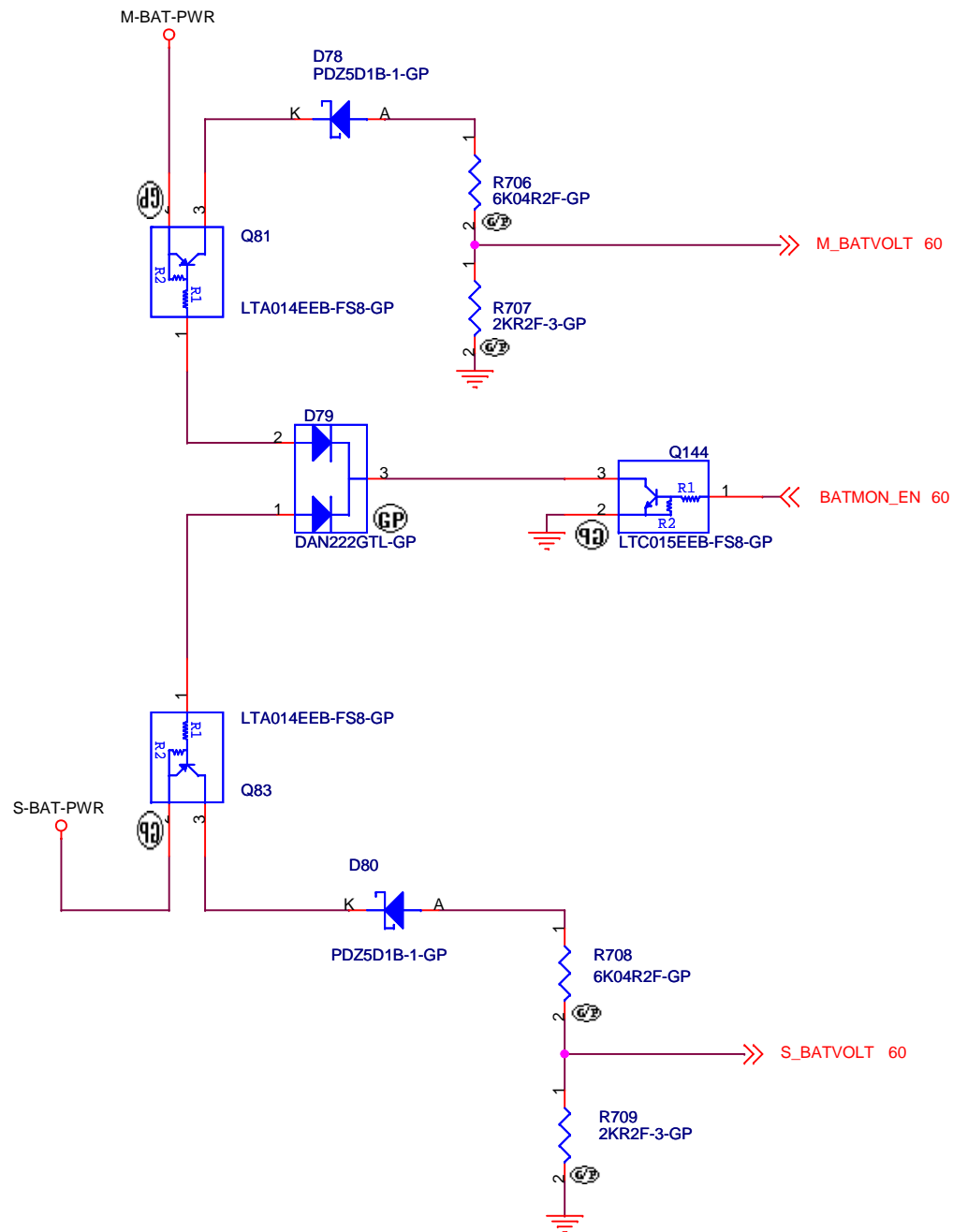
Comet-2

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-1

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



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Title

BATTERY MONITOR

Size
A4

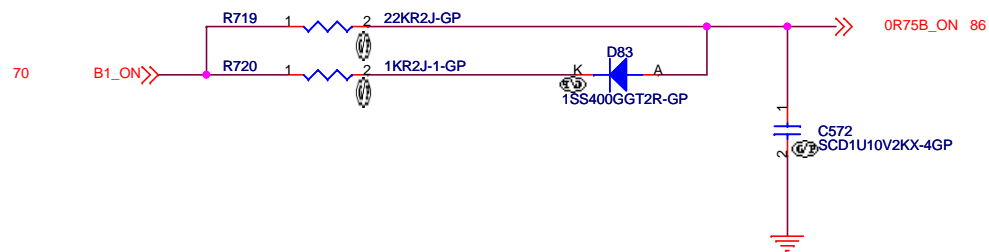
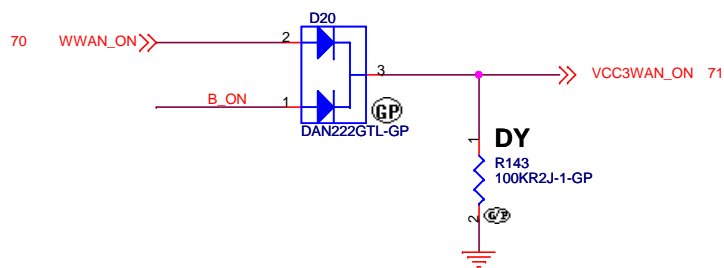
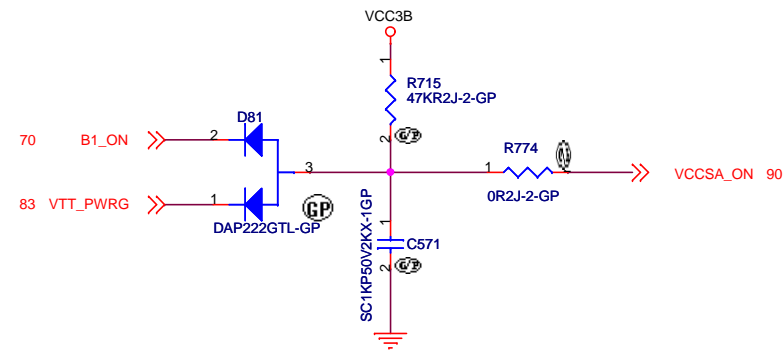
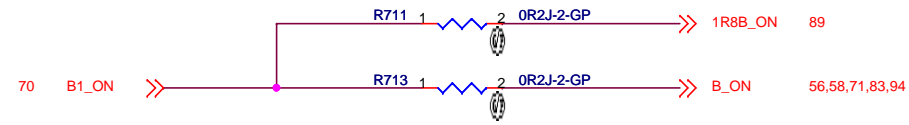
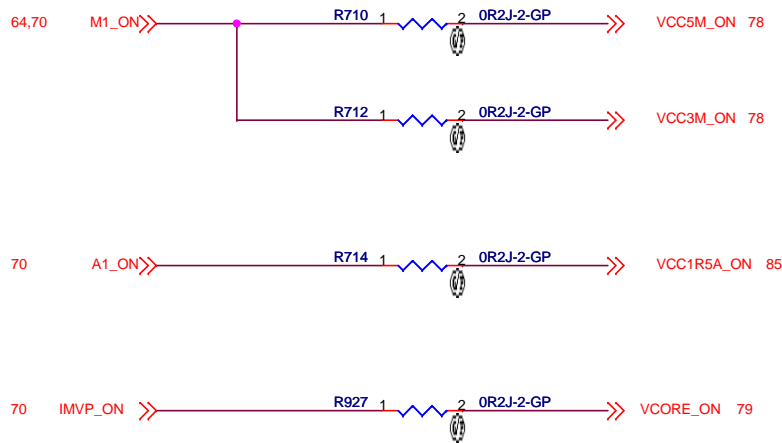
Document Number

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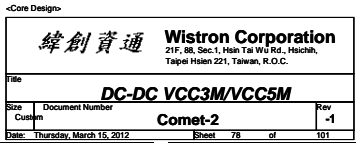


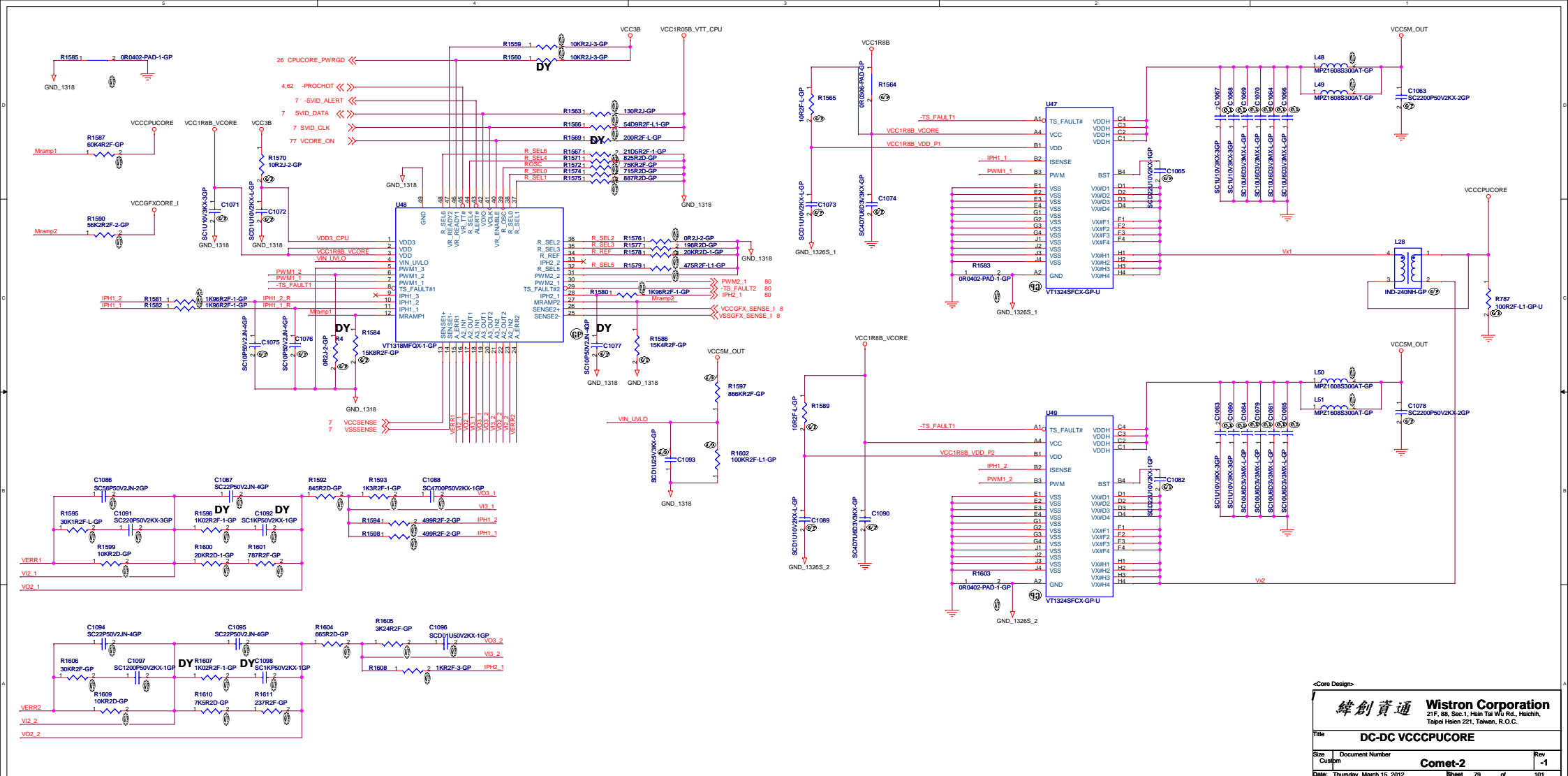
AOAC	YES	NO
D20 R143	ASM DY	DY ASM

Logic

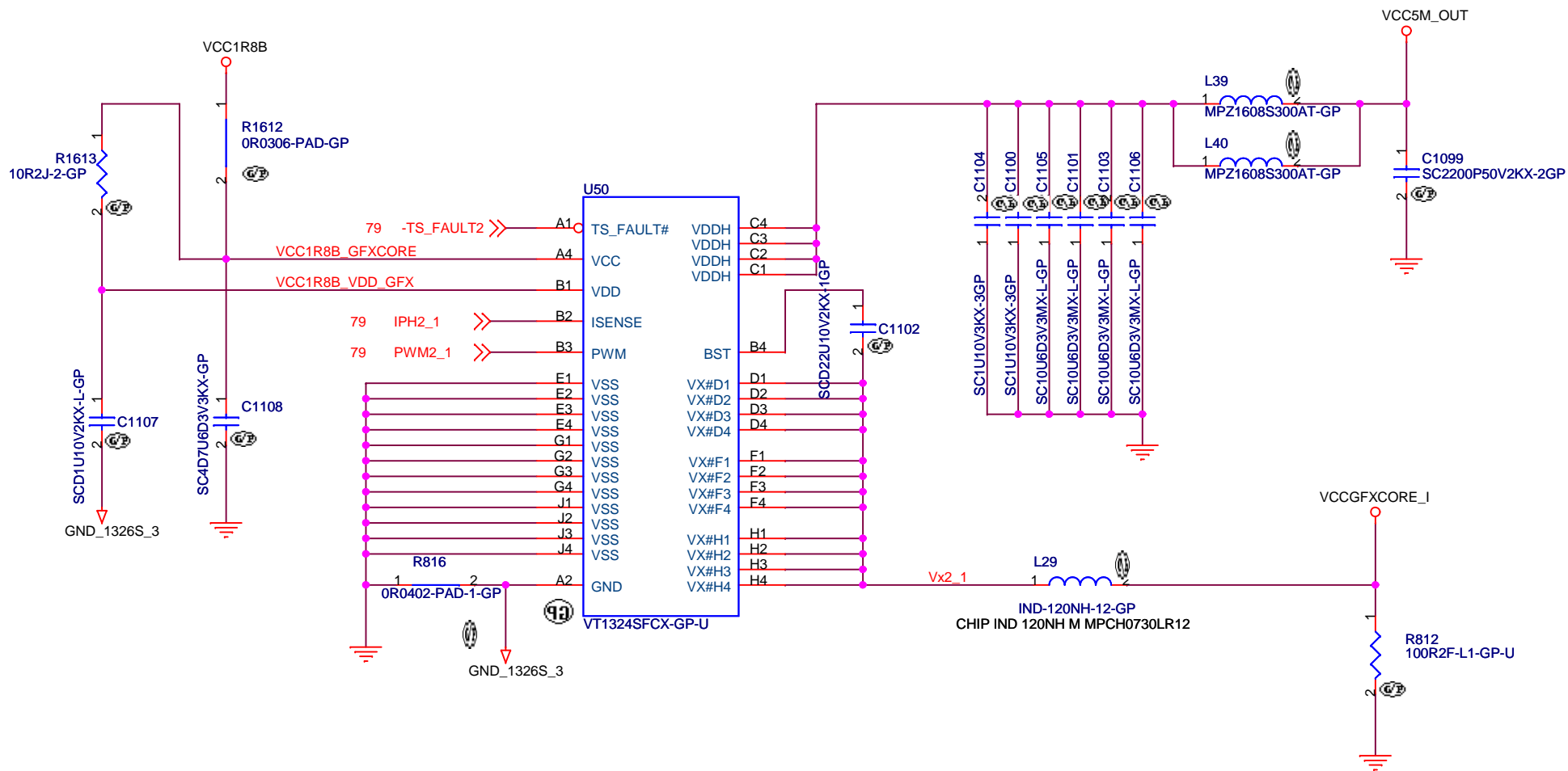
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Title			
POWER SEQUENCE			
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DC-DC VCCCPUCORE			
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Taipei Hsien 221, Taiwan, R.O.C.

Title **VCCGFXCORE**

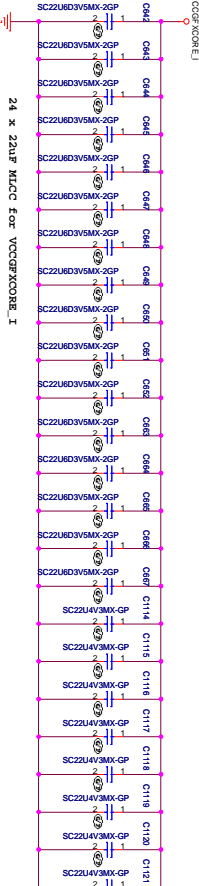
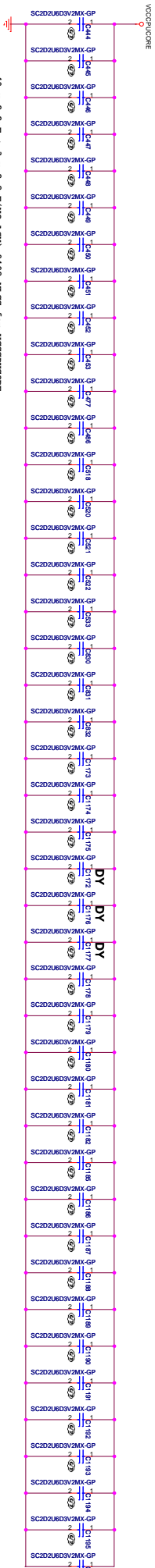
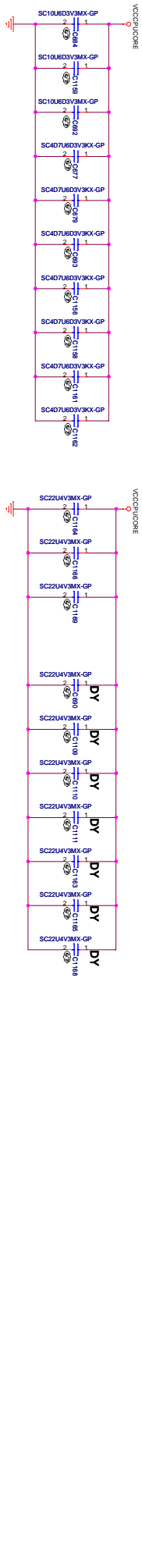
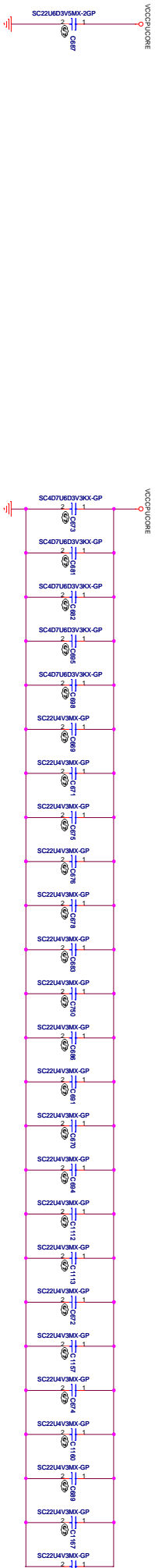
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Comet-2

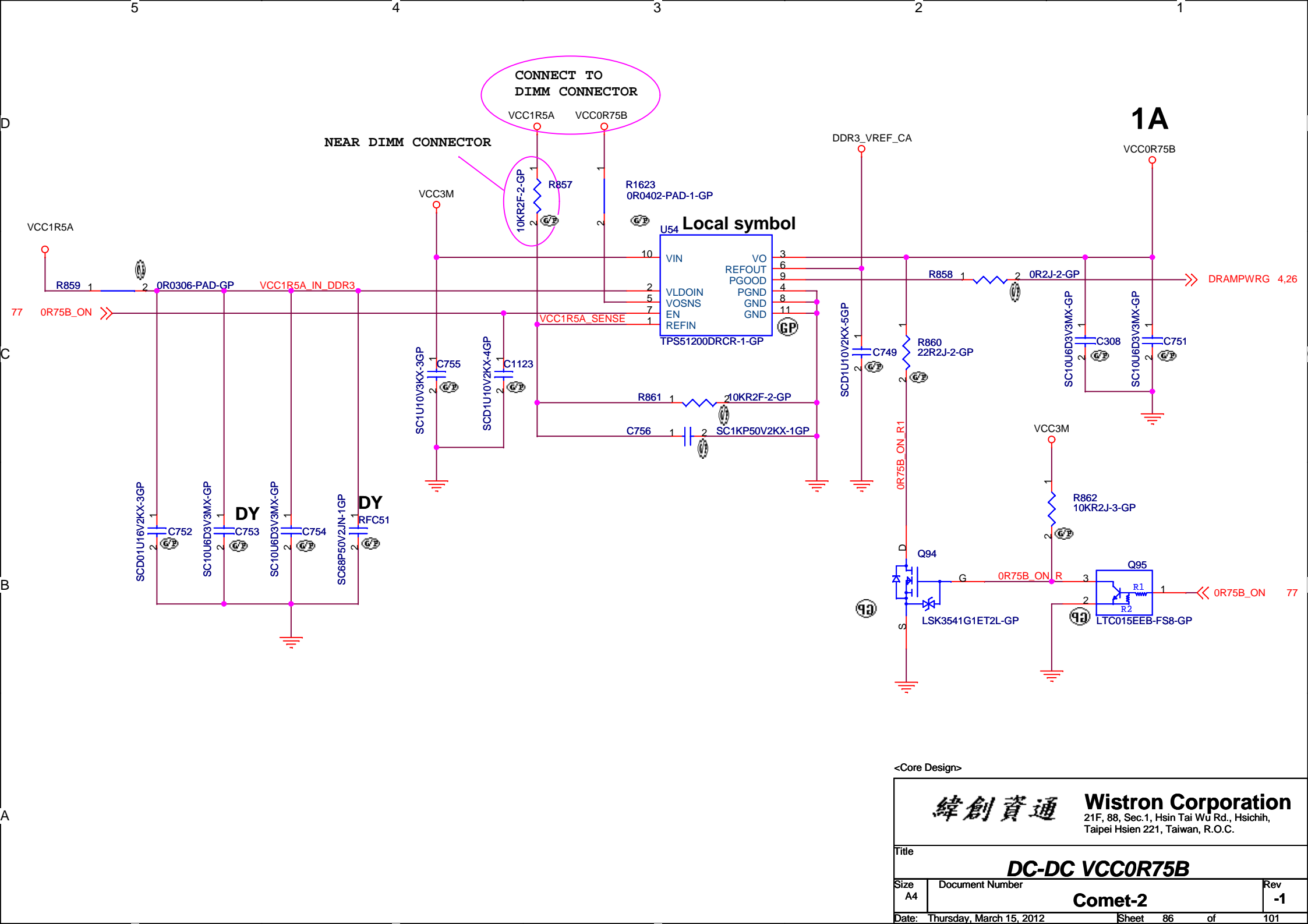
Rev **-1**

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Wistron Corporation

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DC-DC VCC0R75B

Size

A4

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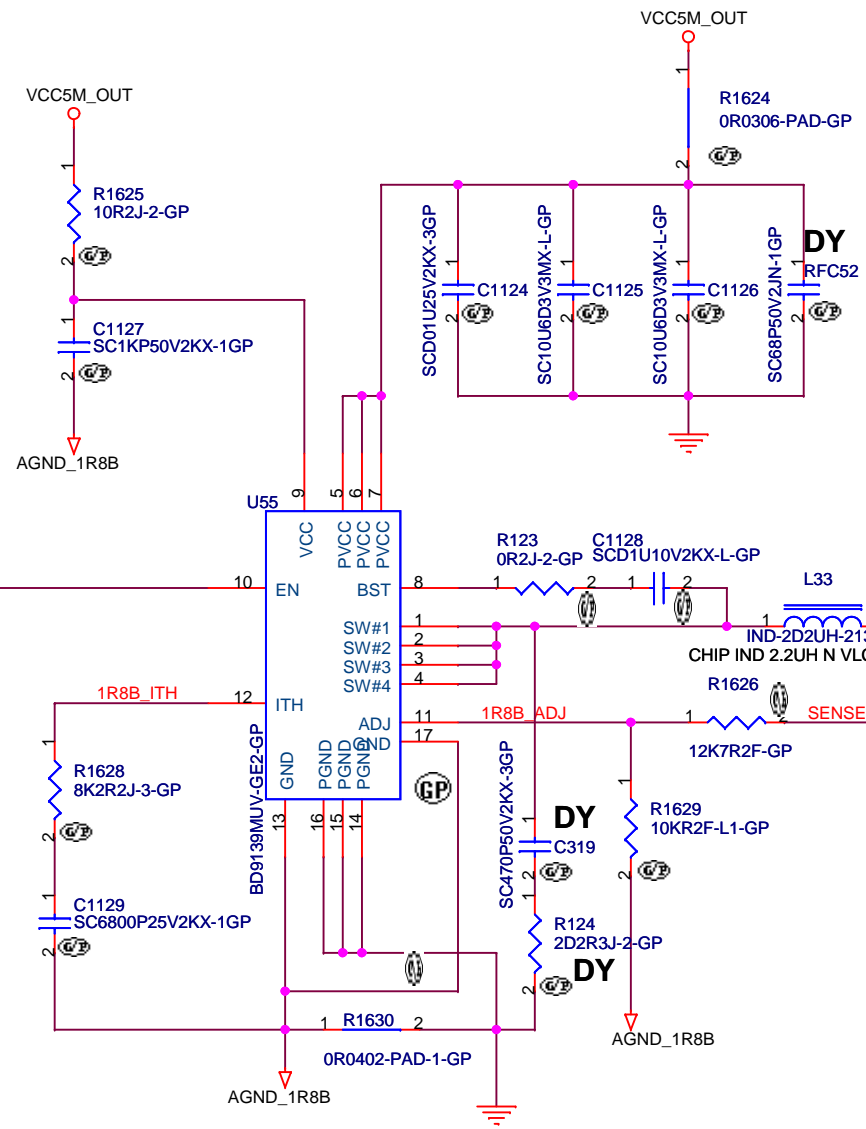
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L33

supplier	Vendor P/N	Wistron P/N
TDK	VLC5020T-2R2N	68.2R25A.10Z
Taiyo-Yuden	NRS5024T-2R2NMGJ	68.2R21E.10F

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Title

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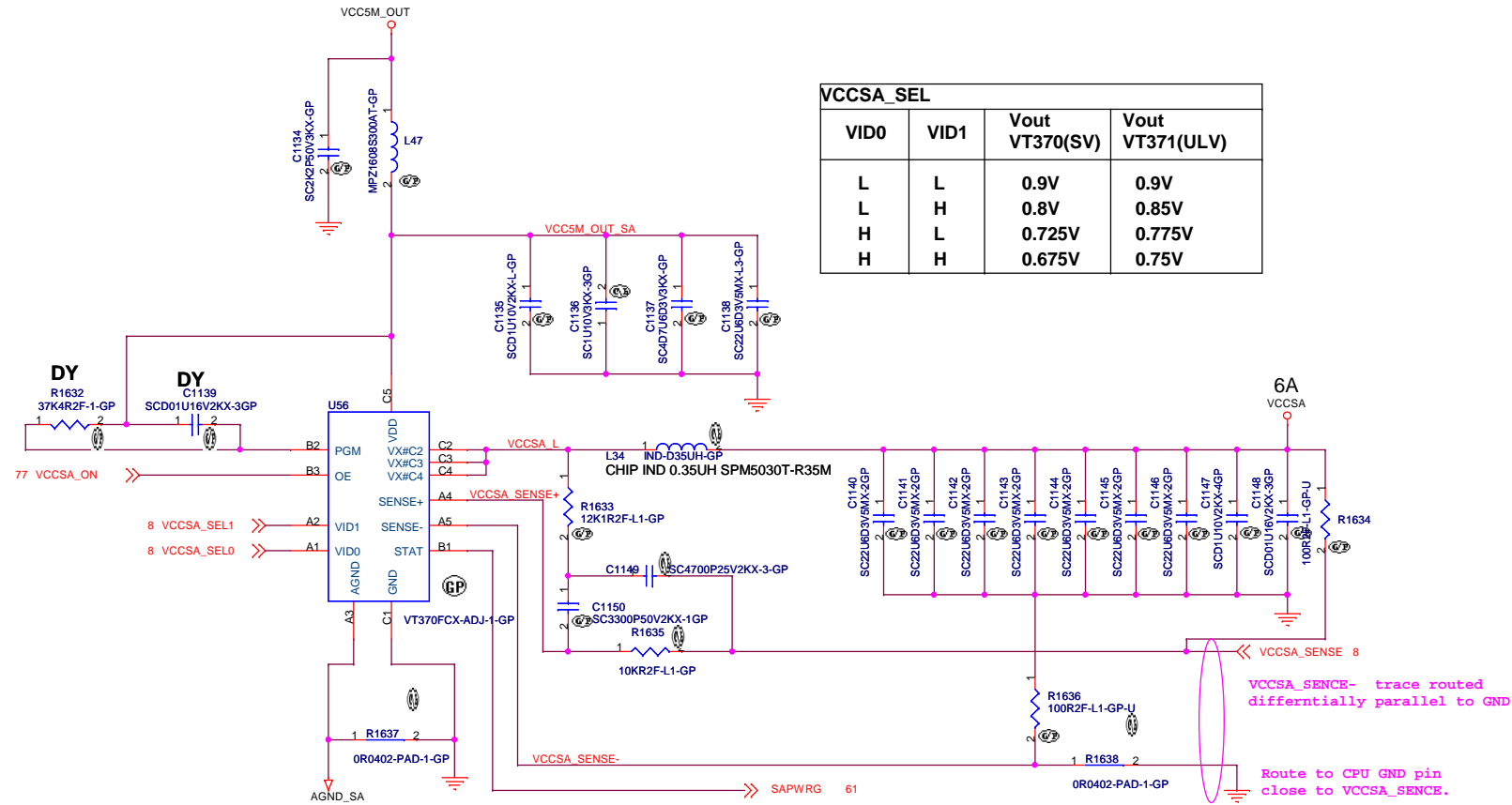
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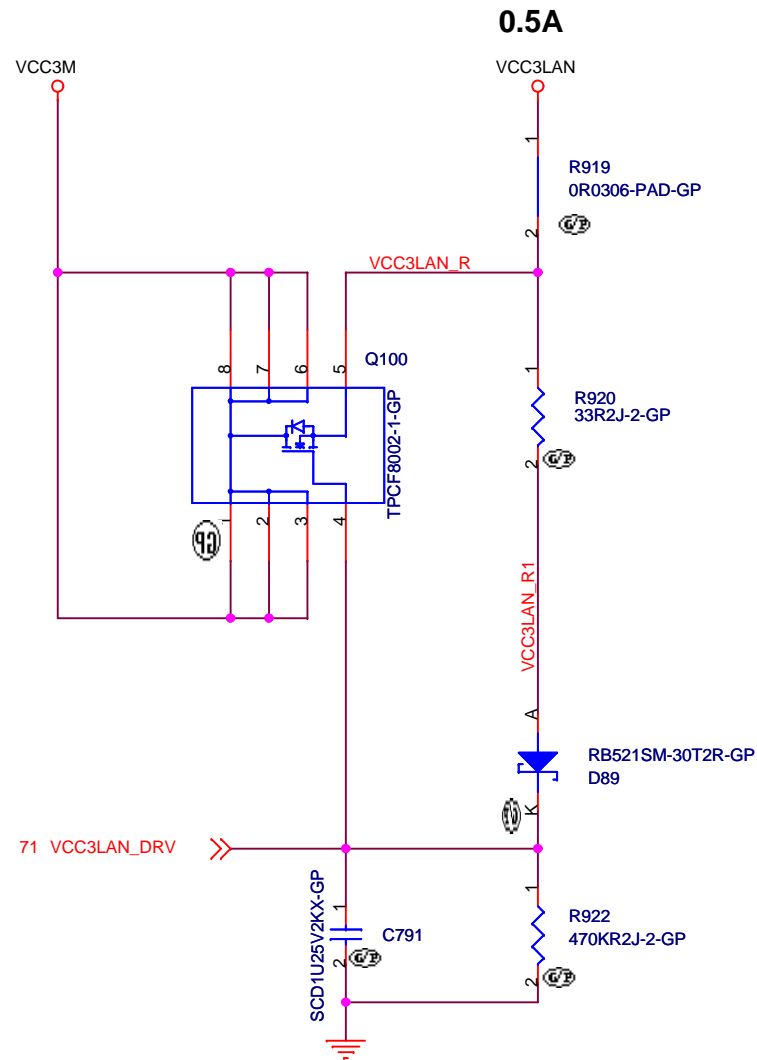
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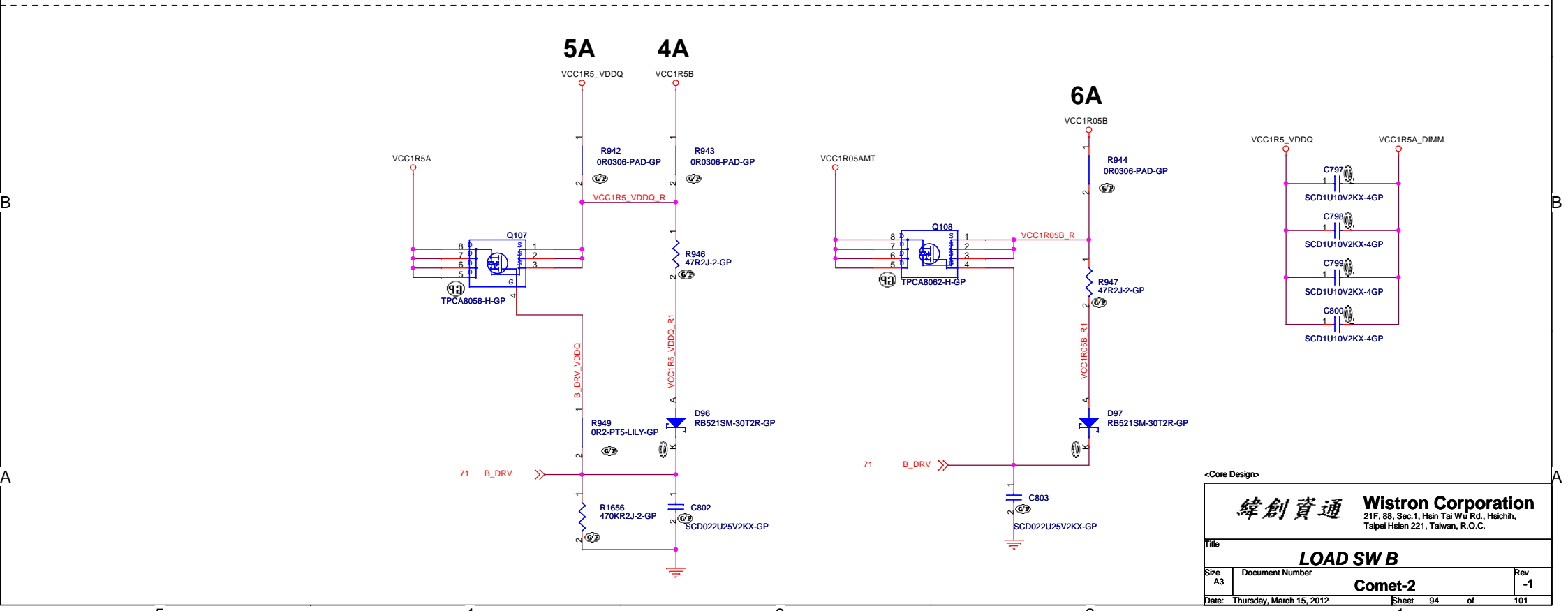
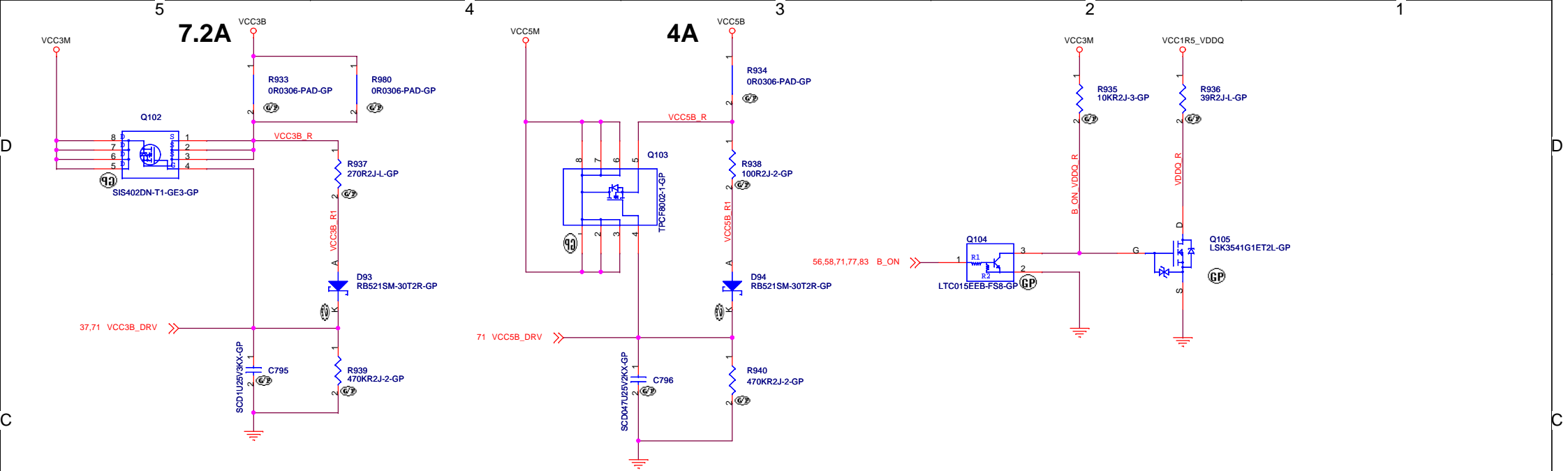
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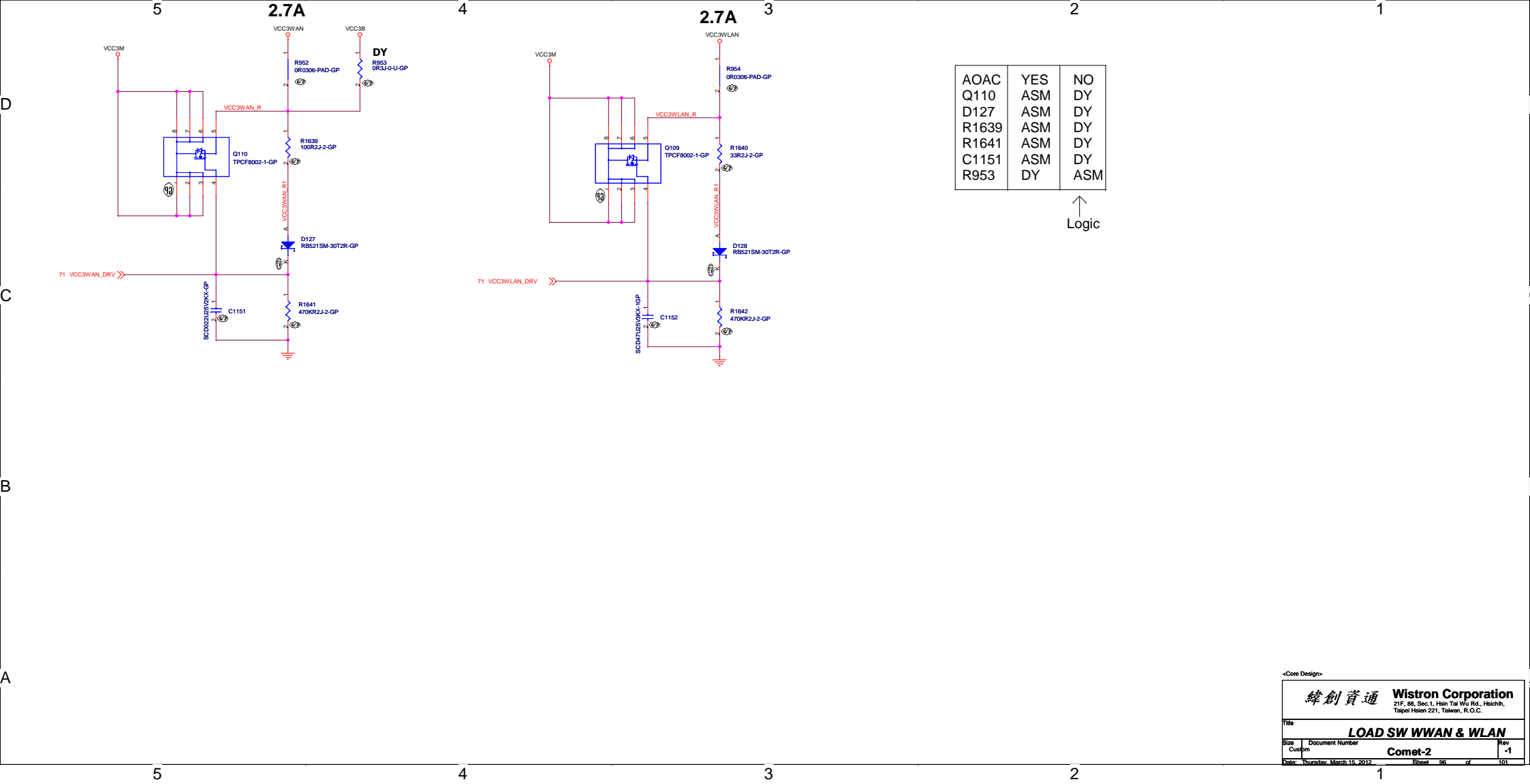
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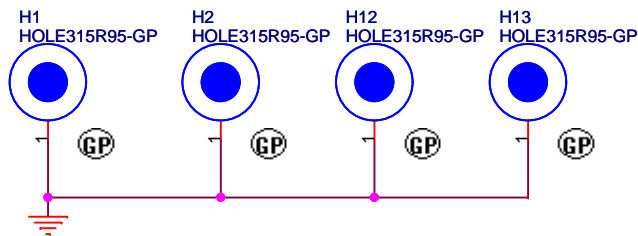
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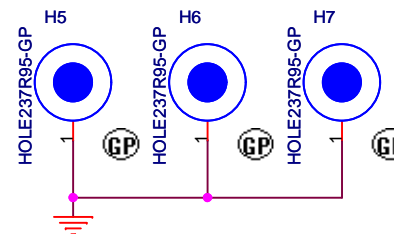
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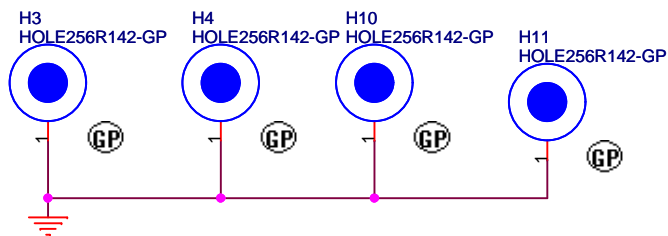
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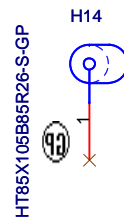
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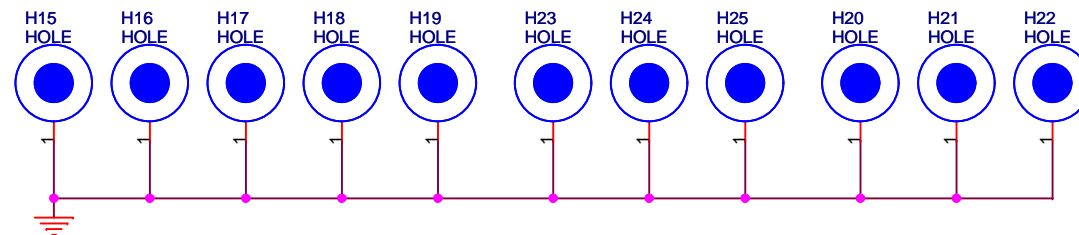
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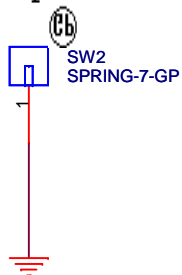


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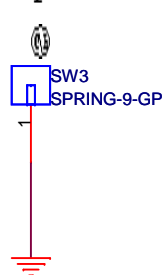
34.49U26.001

GND pad for docking connector



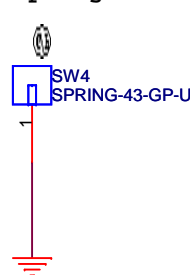
34.49U23.001

GND pad for docking connector



34.15J03.001

spring for EMI



34.40U07.001

SW5
SPRING-U4-GP



34.15J03.001

spring for RF (SW6~SW7)

DY
SW6
SPRING-43-GP-U



DY
SW7
SPRING-43-GP-U



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HOLES/GND/PADS

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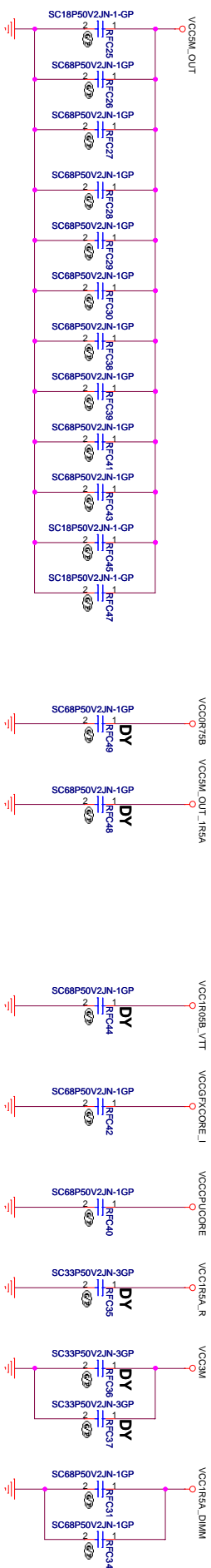
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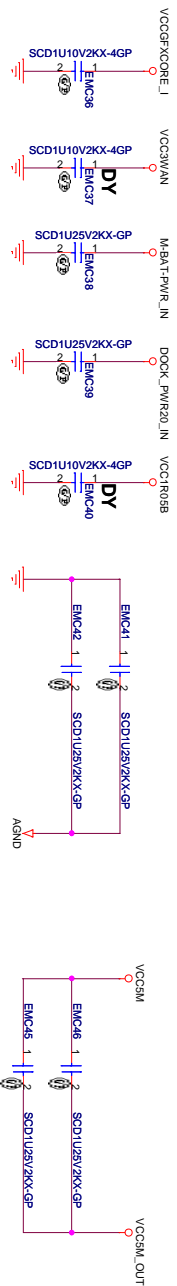
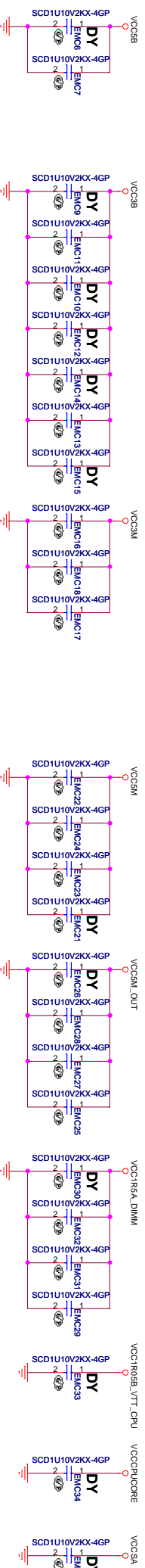
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RF decoupling caps

named as RFCxxx



Long power trace EMI decoupling caps



		SV		ULV	
Master IC		U48	VT1318M	VT1318M	
# of slave for CPU		2		3	
Slave for CPU		U47	VT1324S	VT1324S	
Inductor for CPU		U49	VT1324S	no stuff	
		L28	BFW10040	no stuff	
		L14	no stuff	MPCH0730LR12	
# of slave for GPU		1		1	
Slave for GPU		U50	VT1324S	VT1324S	
Inductor for GPU		L29	MPCH0730LR12	MPCH0730LR12	

			SV		ULV	
R_SEL[0]	pin 38	R1574	715	0.5%	280	1.0%
R_SEL[1]	pin 37	R1575	887	0.5%	825	0.5%
R_SEL[2]	pin 36	R1576	0	5.0%	0	5.0%
R_SEL[3]	pin 35	R1577	196	0.5%	196	0.5%
R_SEL[4]	pin 44	R1571	825	0.5%	825	0.5%
R_SEL[5]	pin 32	R1579	475	1.0%	402	0.5%
R_SEL[6]	pin 48	R1567	21.5	1.0%	21.5	1.0%
R_REF	pin 34	R1578	20K	0.5%	20K	0.5%
ROSC	pin 39	R1572	75K	1.0%	61.9K	1.0%

			SV		ULV	
LL_R1_CPU	pin 15 - pin 16	R1599	10K	0.5%	10K	0.5%
LL_R2_CPU	pin 16 - pin 17	R1600	20K	0.5%	7.5K	0.5%
	pin 16 - pin 17	R1601	787	1.0%	453	1.0%
LL_C1_CPU	pin 15 - pin 16	C1086	56pF		33pF	
LL_C2_CPU	pin 16 - pin 17	C1087	22pF		22pF	
LL_RLEAD_CPU	pin 15 - pin 16	R1595	30.1K	1.0%	15K	1.0%
LL_CLEAD_CPU	pin 15 - pin 16	C1091	220pF		680pF	
LL_RLAG_CPU	pin 16 - pin 17	R1596	no stuff		no stuff	
LL_CLAG_CPU	pin 16 - pin 17	C1092	no stuff		no stuff	
RDES_CPU	pin 17 - pin 18	R1592	845	0.5%	487	0.5%
RINT_CPU	pin 18 - pin 19	R1593	1.3K	1.0%	2.74K	1.0%
CINT_CPU	pin 18 - pin 19	C1088	4700PF		3300pF	
RPH11	IPH1_1 - pin 18	R1598	499	1.0%	750	1.0%
RPH12	IPH1_2 - pin 18	R1594	499	1.0%	no stuff	1.0%
IPHF11_R	pin 11	R1582	1.96K	1.0%	1.96K	1.0%
IPHF11_C	pin 11	C1076	10pF		no stuff	
IPHF12_R	pin 10	R1581	1.96K	1.0%	no stuff	1.0%
IPHF12_C	pin 10	C1075	10pF		no stuff	
R_MRAMP1	pin 12	R1584	15.8K	1.0%	13K	1.0%
R_MRAMP1_PU	pin 12	R1587	60.4K	1.0%	43.2K	1.0%
R_PWM2	Pin 6	R4	no stuff		0	5.0%
LL_R1_GPU	pin 24 - pin 23	R1609	10K	0.5%	10K	0.5%
LL_R2_GPU	pin 23 - pin 22	R1610	7.5K	0.5%	7.87K	0.5%
LL_C1_GPU	pin 23 - pin 22	R1611	237	1.0%	0	5.0%
LL_C2_GPU	pin 23 - pin 22	C1094	22pF		22pF	
LL_RLEAD_GPU	pin 24 - pin 23	C1095	22pF		22pF	
LL_CLEAD_GPU	pin 24 - pin 23	R1606	30K	1.0%	30K	1.0%
LL_RLAG_GPU	pin 24 - pin 23	C1097	1200pF		1000pF	
LL_CLAG_GPU	pin 23 - pin 22	R1607	no stuff		no stuff	
RDES_GPU	pin 22 - pin 21	C1098	no stuff		no stuff	
RINT_GPU	pin 21 - pin 20	R1604	665	0.5%	665	0.5%
CINT_GPU	pin 21 - pin 20	R1605	3.24K	1.0%	3.24K	1.0%
RPH21	IPH2_1 - pin 21	C1096	10nF		10nF	
IPHF21_R	pin 28	R1608	1K	1.0%	1K	1.0%
IPHF21_C	pin 28	R1580	1.96K	1.0%	1.96K	1.0%
R_MRAMP2	pin 27	C1077	no stuff		no stuff	
R_MRAMP2_PU	pin 27	R1586	15.4K	1.0%	15.4K	1.0%
	pin 27	R1590	56.2K	1.0%	56.2K	1.0%

			SV	ULV
		C1090	4.7uF	no stuff
		R1589	10 1.0%	no stuff
		C1089	0.1uF	no stuff
		C1082	0.22uF	no stuff
		C1083	1uF	no stuff
		C1080	1uF	no stuff
		C1084	10uF	no stuff
		C1079	10uF	no stuff
		C1081	10uF	no stuff
		C1085	10uF	no stuff
		L50	MPZ1608S300A	no stuff
		L51	MPZ1608S300A	no stuff
		C1078	2200pF	no stuff

Vcore Output

		SV		ULV	
C687	22uF	0805	22uF	0805	
C669	22uF	0603	22uF	0603	
C671	22uF	0603	22uF	0603	
C673	4.7uF	0603	22uF	0603	
C675	22uF	0603	22uF	0603	
C676	22uF	0603	22uF	0603	
C678	22uF	0603	22uF	0603	
C695	4.7uF	0603	22uF	0603	
C681	4.7uF	0603	22uF	0603	
C682	4.7uF	0603	22uF	0603	
C683	22uF	0603	22uF	0603	
C750	22uF	0603	22uF	0603	
C686	22uF	0603	22uF	0603	
C691	22uF	0603	22uF	0603	
C670	22uF	0603	22uF	0603	
C694	22uF	0603	22uF	0603	
C698	4.7uF	0603	22uF	0603	
C1112	22uF	0603	22uF	0603	
C1113	22uF	0603	22uF	0603	
C672	22uF	0603	22uF	0603	
C1157	22uF	0603	22uF	0603	
C674	22uF	0603	22uF	0603	
C1160	22uF	0603	22uF	0603	
C689	22uF	0603	22uF	0603	
C1167	22uF	0603	22uF	0603	
C680	22uF	0603	22uF	0603	
C679	4.7uF	0603	10uF	0603	
C677	4.7uF	0603	10uF	0603	
C1156	4.7uF	0603	10uF	0603	
C684	10uF	0603	10uF	0603	
C693	4.7uF	0603	10uF	0603	
C1159	10uF	0603	10uF	0603	
C692	10uF	0603	10uF	0603	
C1158	4.7uF	0603	10uF	0603	
C1161	4.7uF	0603	10uF	0603	
C1162	4.7uF	0603	10uF	0603	
C690	N/A	0603	N/A	0603	
C1109	N/A	0603	N/A	0603	
C1110	N/A	0603	N/A	0603	
C1111	N/A	0603	N/A	0603	
C1163	N/A	0603	N/A	0603	
C1164	22uF	0603	N/A	0603	
C1165	N/A	0603	N/A	0603	
C1166	22uF	0603	N/A	0603	
C1168	N/A	0603	N/A	0603	
C1169	22uF	0603	N/A	0603	
C444	2.2uF	0402	2.2uF	0402	
C445	2.2uF	0402	2.2uF	0402	
C446	2.2uF	0402	2.2uF	0402	
C447	2.2uF	0402	2.2uF	0402	
C448	2.2uF	0402	2.2uF	0402	
C449	2.2uF	0402	2.2uF	0402	
C450	2.2uF	0402	N/A	0402	
C451	2.2uF	0402	2.2uF	0402	
C452	2.2uF	0402	2.2uF	0402	
C453	2.2uF	0402	2.2uF	0402	

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C477	2.2uF	0402	2.2uF	0402	
C486	2.2uF	0402	2.2uF	0402	
C518	2.2uF	0402	2.2uF	0402	
C520	2.2uF	0402	2.2uF	0402	
C521	2.2uF	0402	2.2uF	0402	
C522	2.2uF	0402	N/A	0402	
C533	2.2uF	0402	2.2uF	0402	
C830	2.2uF	0402	2.2uF	0402	
C831	2.2uF	0402	2.2uF	0402	
C832	2.2uF	0402	2.2uF	0402	
C1172	N/A	0402	N/A	0402	
C1173	2.2uF	0402	N/A	0402	
C1174	2.2uF	0402	N/A	0402	
C1175	2.2uF	0402	N/A	0402	
C1176	N/A	0402	N/A	0402	
C1177	N/A	0402	N/A	0402	
C1178	2.2uF	0402	2.2uF	0402	
C1179	2.2uF	0402	2.2uF	0402	
C1180	2.2uF	0402	2.2uF	0402	
C1181	2.2uF	0402	2.2uF	0402	
C1182	2.2uF	0402	2.2uF	0402	
C1185	2.2uF	0402	2.2uF	0402	
C1186	2.2uF	0402	2.2uF	0402	
C1187	2.2uF	0402	2.2uF	0402	
C1188	2.2uF	0402	2.2uF	0402	
C1189	2.2uF	0402	2.2uF	0402	
C1190	2.2uF	0402	2.2uF	0402	
C1191	2.2uF	0402	2.2uF	0402	
C1192	2.2uF	0402	2.2uF	0402	
C1193	2.2uF	0402	2.2uF	0402	
C1194	2.2uF	0402	2.2uF	0402	
C1195	2.2uF	0402	2.2uF	0402	
C1196	2.2uF	0402	2.2uF	0402	

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Size	Document Number	Comet-2	Rev
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Date: Monday, March 12, 2012		Pages: 100	of 101

Config	Capability							
	1	2	3	4	5	6	7	8
AOAC	Yes	Yes	Yes	Yes	No	No	No	No
Anti-Theft	Yes	Yes	No	No	Yes	Yes	No	No
External EEPROM	Yes	No	Yes	No	Yes	No	Yes	No
U66	ASM	ASM	DY	DY	DY	DY	DY	DY
U67	ASM	ASM	DY	DY	DY	DY	DY	DY
C864	ASM	ASM	DY	DY	DY	DY	DY	DY
R978	ASM	ASM	DY	DY	DY	DY	DY	DY
R929	ASM	ASM	DY	DY	DY	DY	DY	DY
R901	ASM	ASM	DY	DY	DY	DY	DY	DY
R930	ASM	ASM	DY	DY	DY	DY	DY	DY
R1462	ASM	ASM	DY	DY	DY	DY	DY	DY
Q14	ASM	DY	DY	DY	DY	DY	DY	DY
Q48	ASM	DY	ASM	DY	ASM	DY	ASM	DY
R624	ASM	DY	ASM	DY	ASM	DY	ASM	DY
R536	DY	DY	DY	DY	ASM	ASM	DY	DY
R539	DY	DY	DY	DY	ASM	ASM	DY	DY
U42	ASM	DY	ASM	DY	ASM	DY	ASM	DY
Q47	ASM	DY	ASM	DY	ASM	DY	ASM	DY
R617	ASM	DY	ASM	DY	ASM	DY	ASM	DY
C524	ASM	DY	ASM	DY	ASM	DY	ASM	DY

↑
Logic

Battery Authentication	Y	N
--> External EEPROM	Y	N