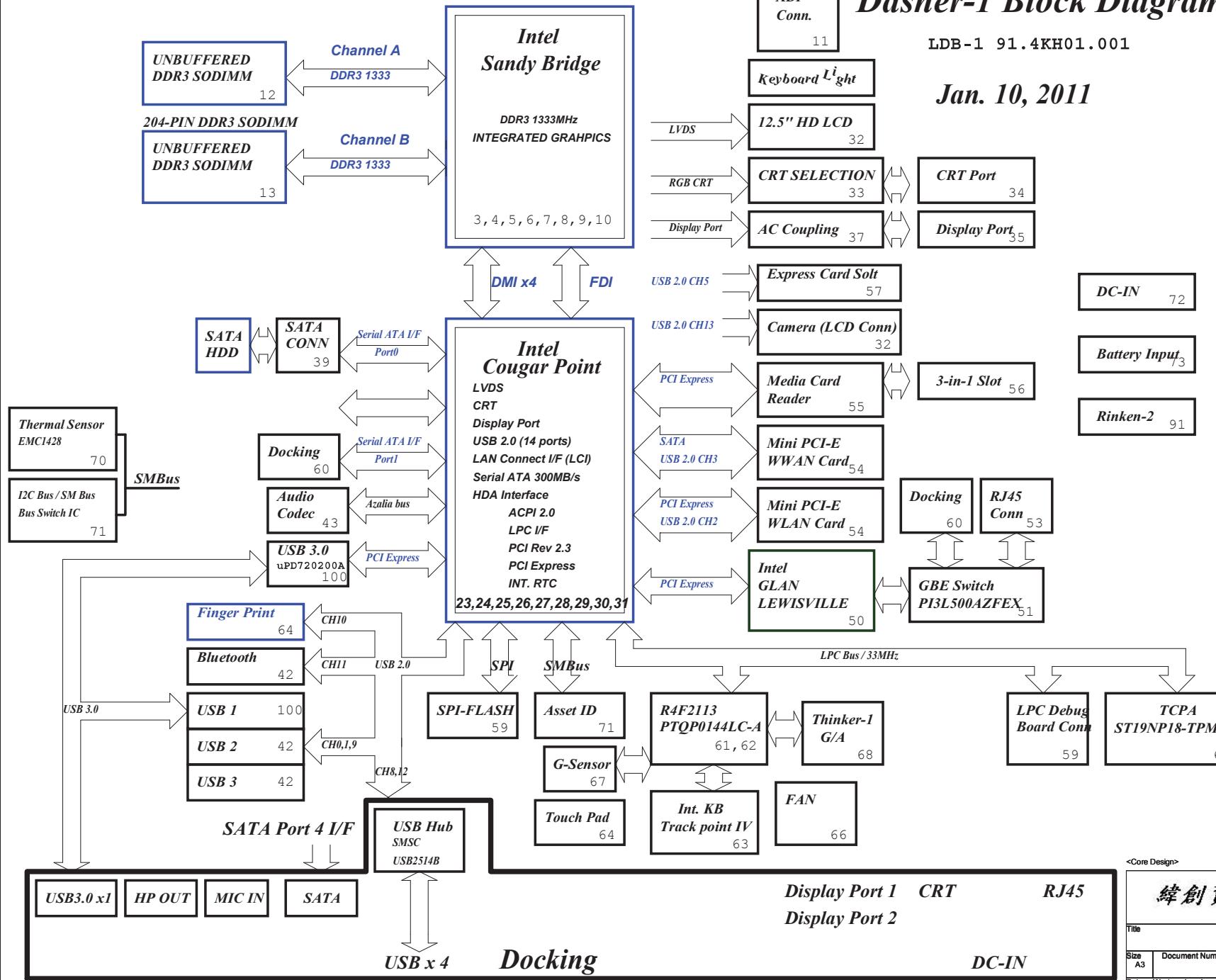


Dasher-1 Block Diagram

LDB-1 91.4KH01.001

Jan. 10, 2011



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

BQ24742 74

INPUTS	OUTPUTS
DOCK_PWR20	CHARGER_OUT12

System DC/DC

TPS51220ARSN 78

VINT20	VCC5M VCC3M
--------	----------------

CPU DC/DC

VT1316/VT1317 79

VCC5V_OUT	VCCCPUCORE
-----------	------------

GMCH GFX CORE

VT1317 81

VCC5V_OUT	VCCGFXCORE
-----------	------------

VCCIR5A

VT357FCX 86

VCC5V_OUT	VCCIR5A
-----------	---------

VCC0R75B

MAX1510 87

VCCIR5A	VCC0R75B
---------	----------

VCCIR8B

TPS62060 89

VCC5V_OUT	VCCIR8B
-----------	---------

VCC1R05AMT

VT356FCX 85

VCC5V_OUT	VCC1R05LAN
-----------	------------

VCC1R05B_VTT

VT357FCX 84

VCC5V_OUT	VCC1R05B_VTT
-----------	--------------

VCCSA

VT355FCX 90

VCC5V_OUT	VCCSA
-----------	-------

<Core Design>

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Title

Block Diagram

Size A3 Document Number Rev SD

Dasher-1 Sheet 1 of 101

Date: Wednesday, January 12, 2011

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, $R2\geq 0402$, $R3\geq 0603$, $R5\geq 0805$

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

I 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		
	0	0	0	1		
	0	0	1	0	Dasher-1 Pre-DV	SA
	0	0	1	1	Dasher-1 SDV/UT	SB
	0	1	0	0	Dasher-1 MFVT	SC
	0	1	0	1	Dasher-1 FVT	SD
	0	1	1	0	Dasher-1 M-SIT	SE
	0	1	1	1	Dasher-1 SIT	SF
	1	0	0	0	Dasher-1 SVT	-1

EC HISTORY

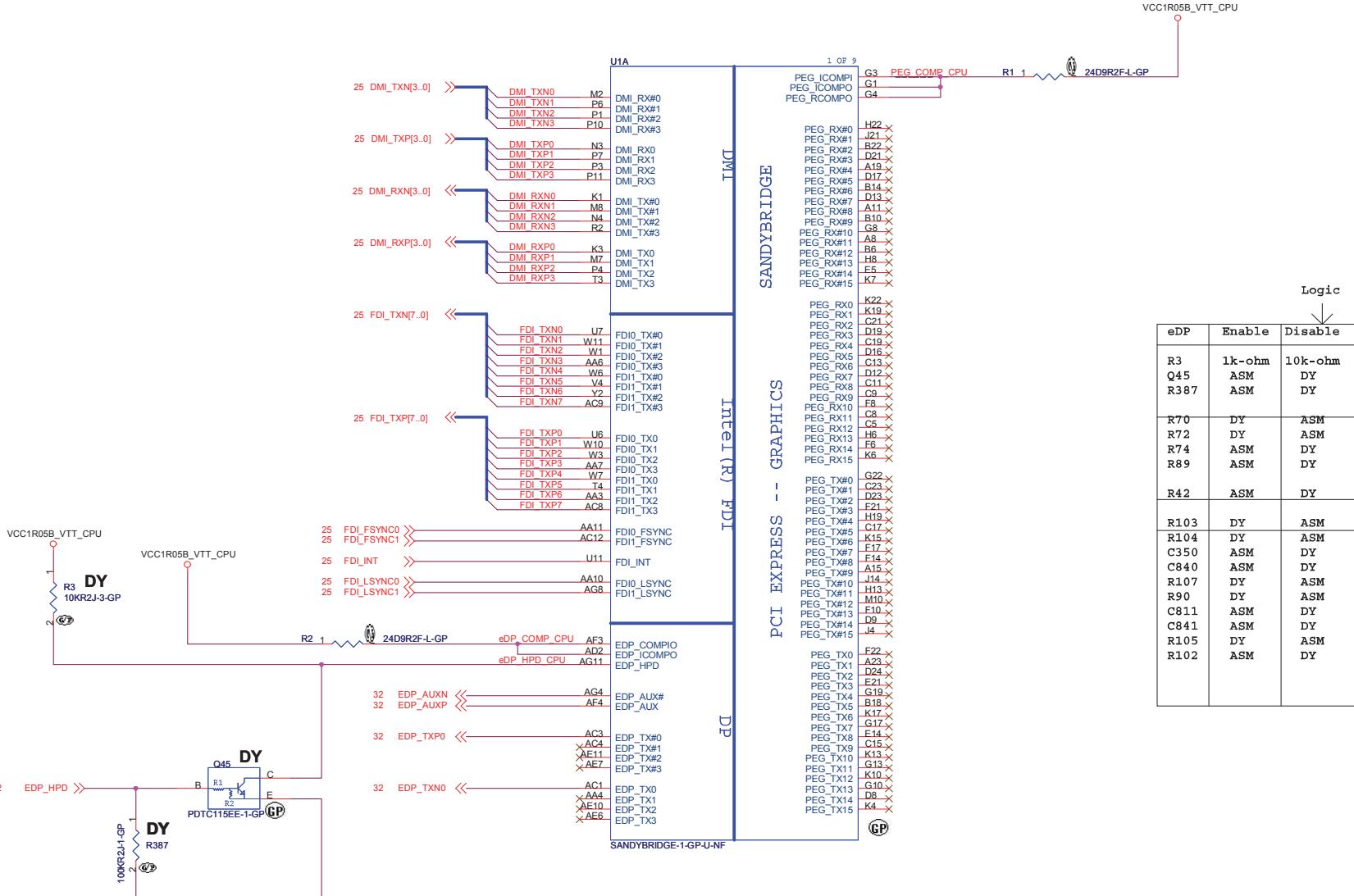
Core Design

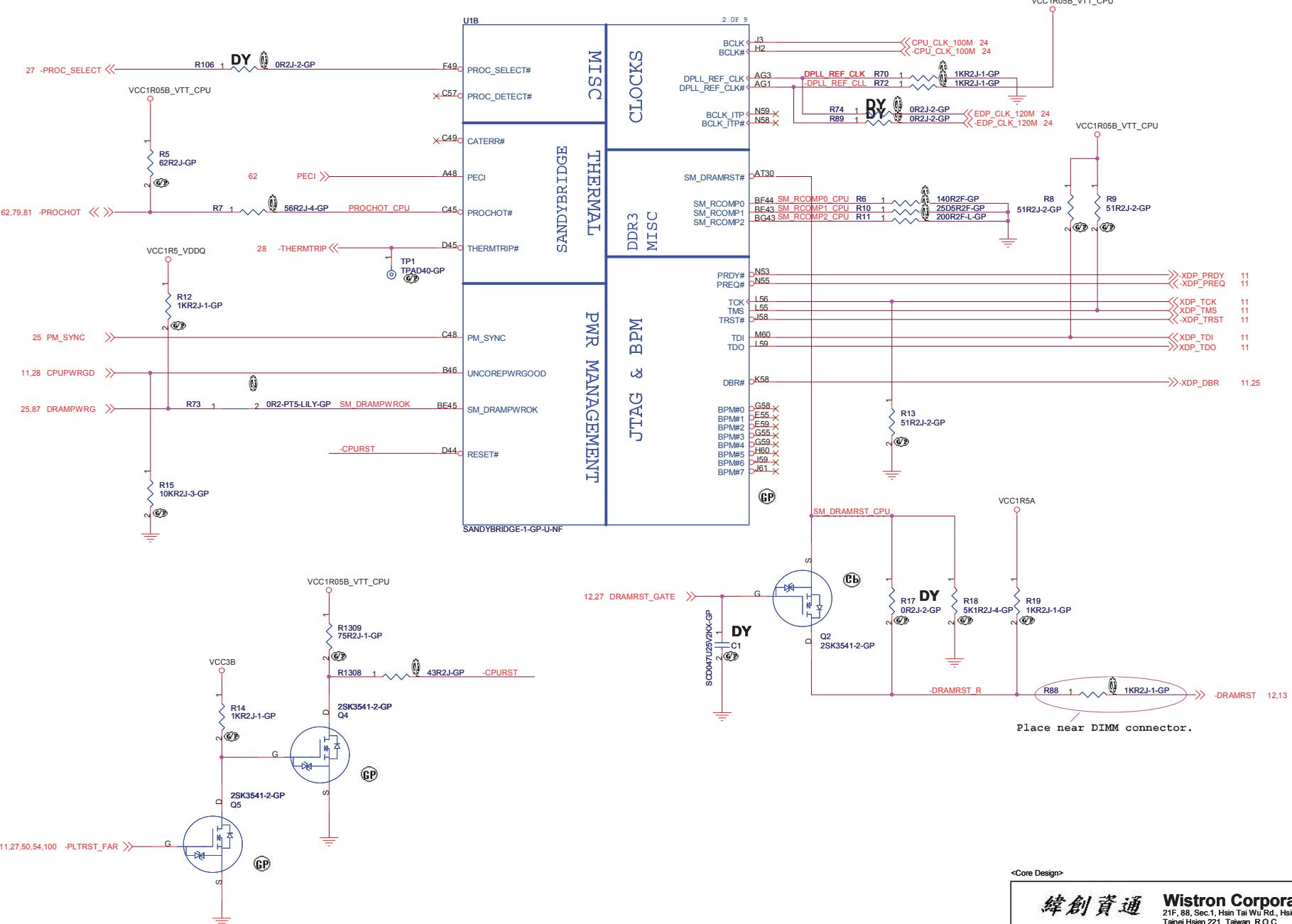
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21F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

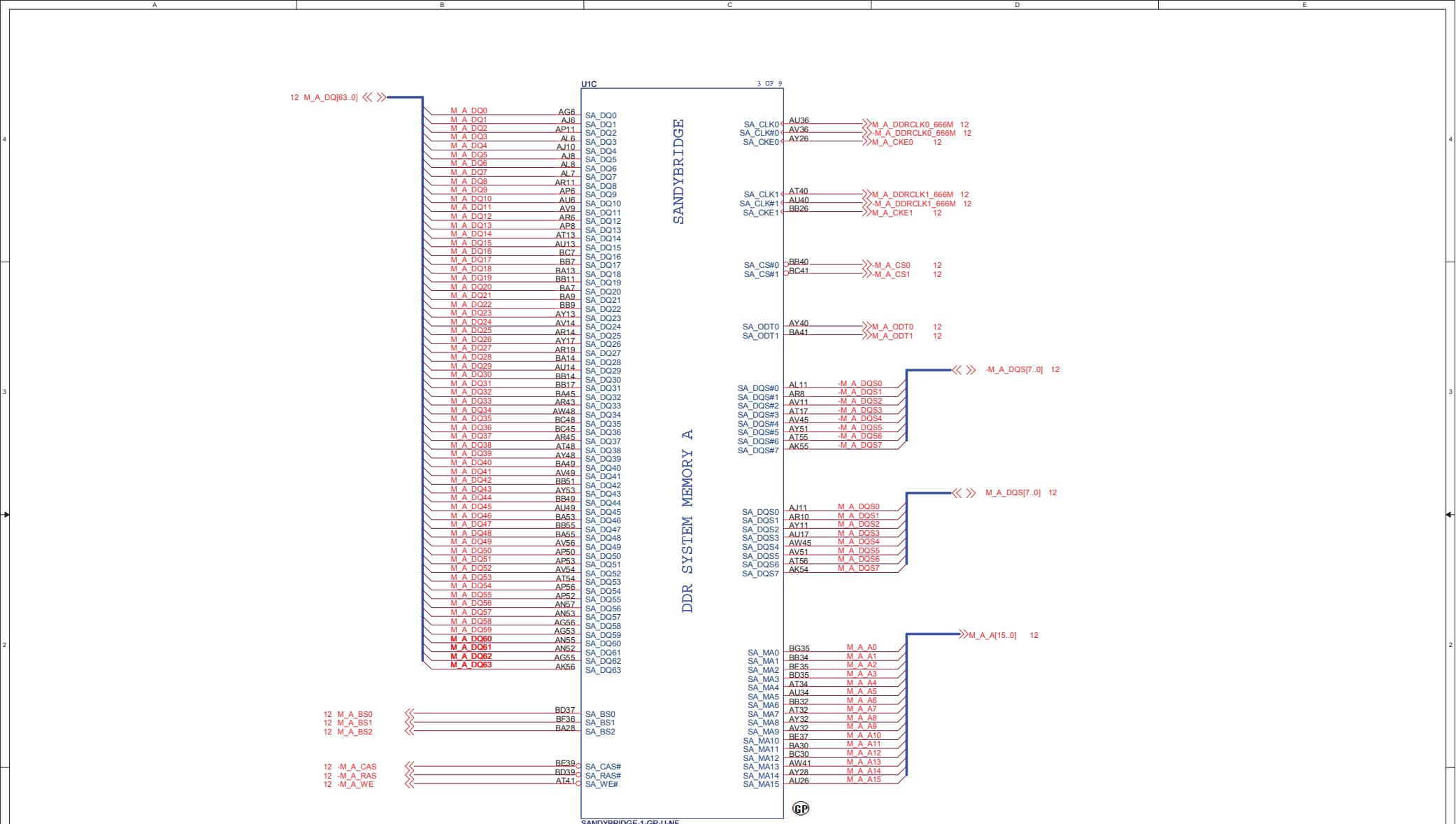
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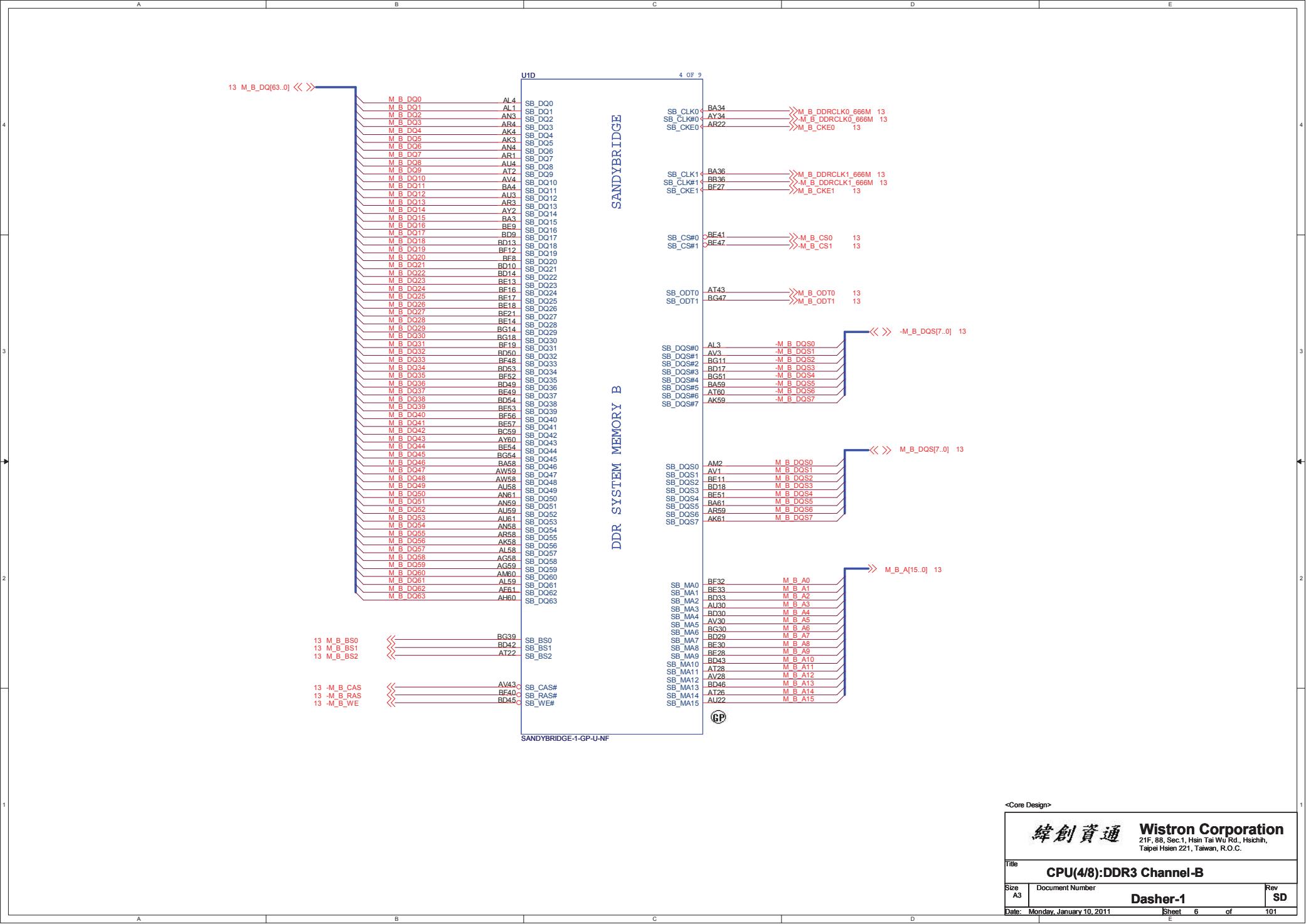
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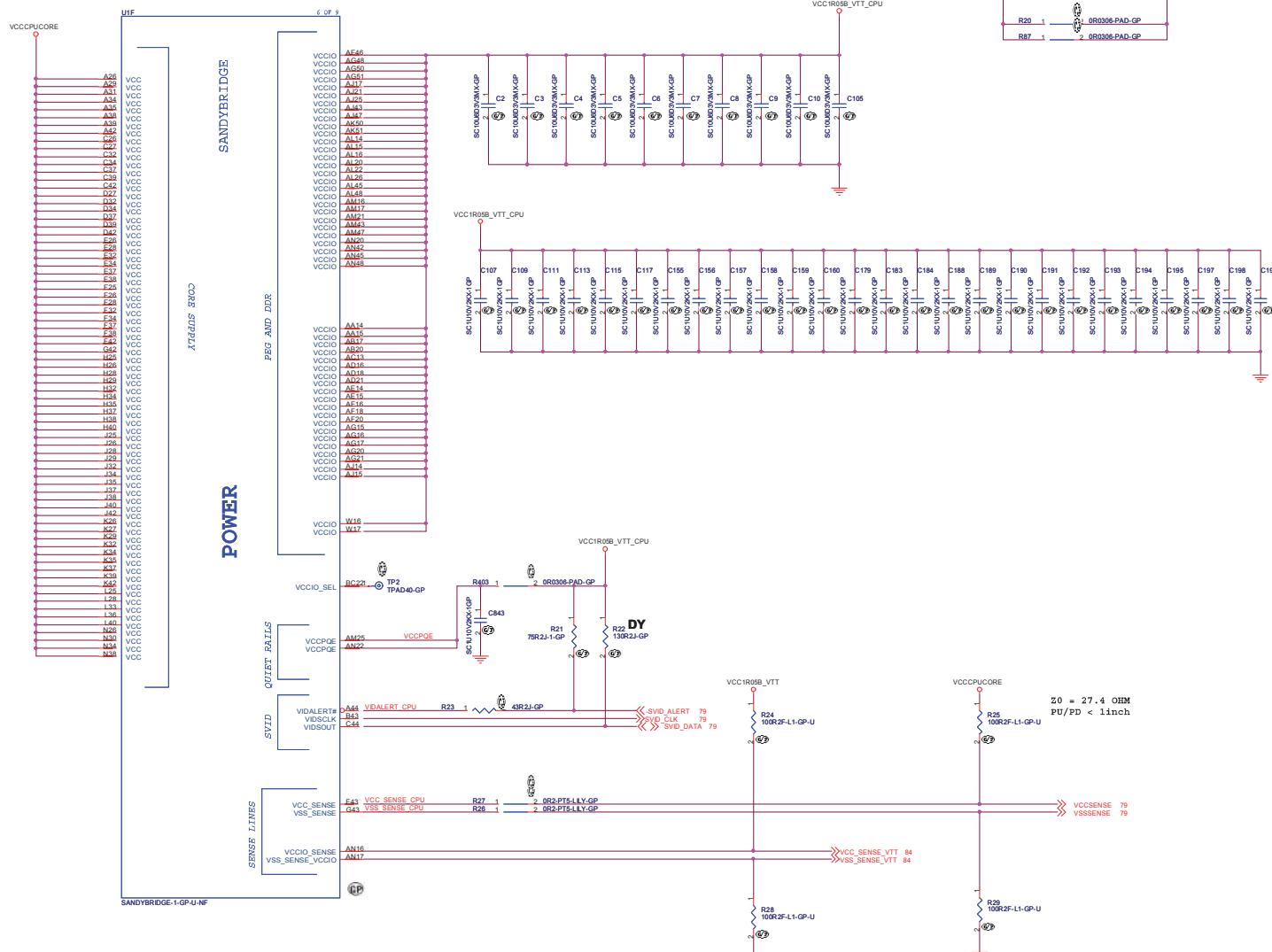
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Date: Monday, January 10, 2011		Sheet 2	of 101

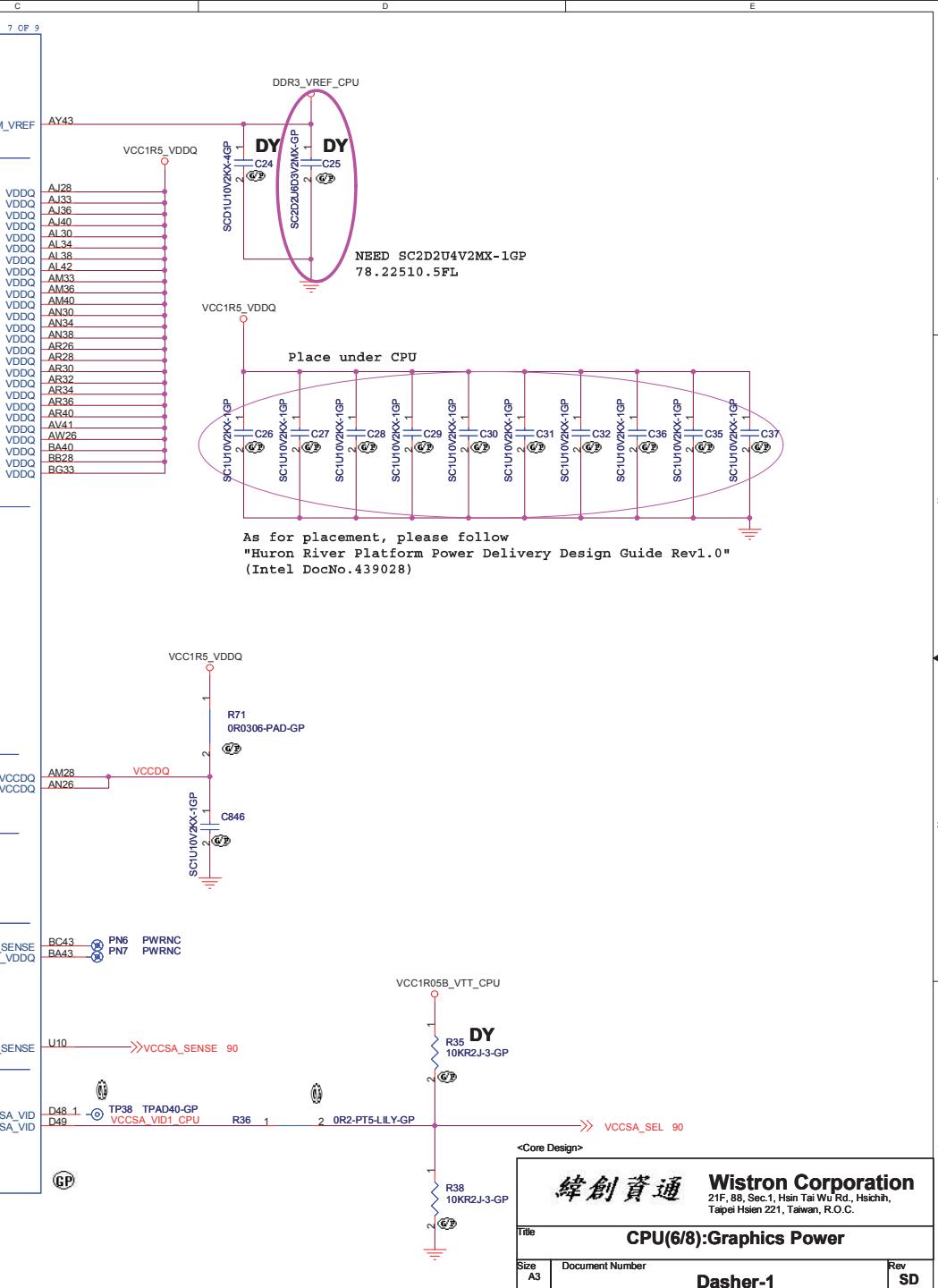
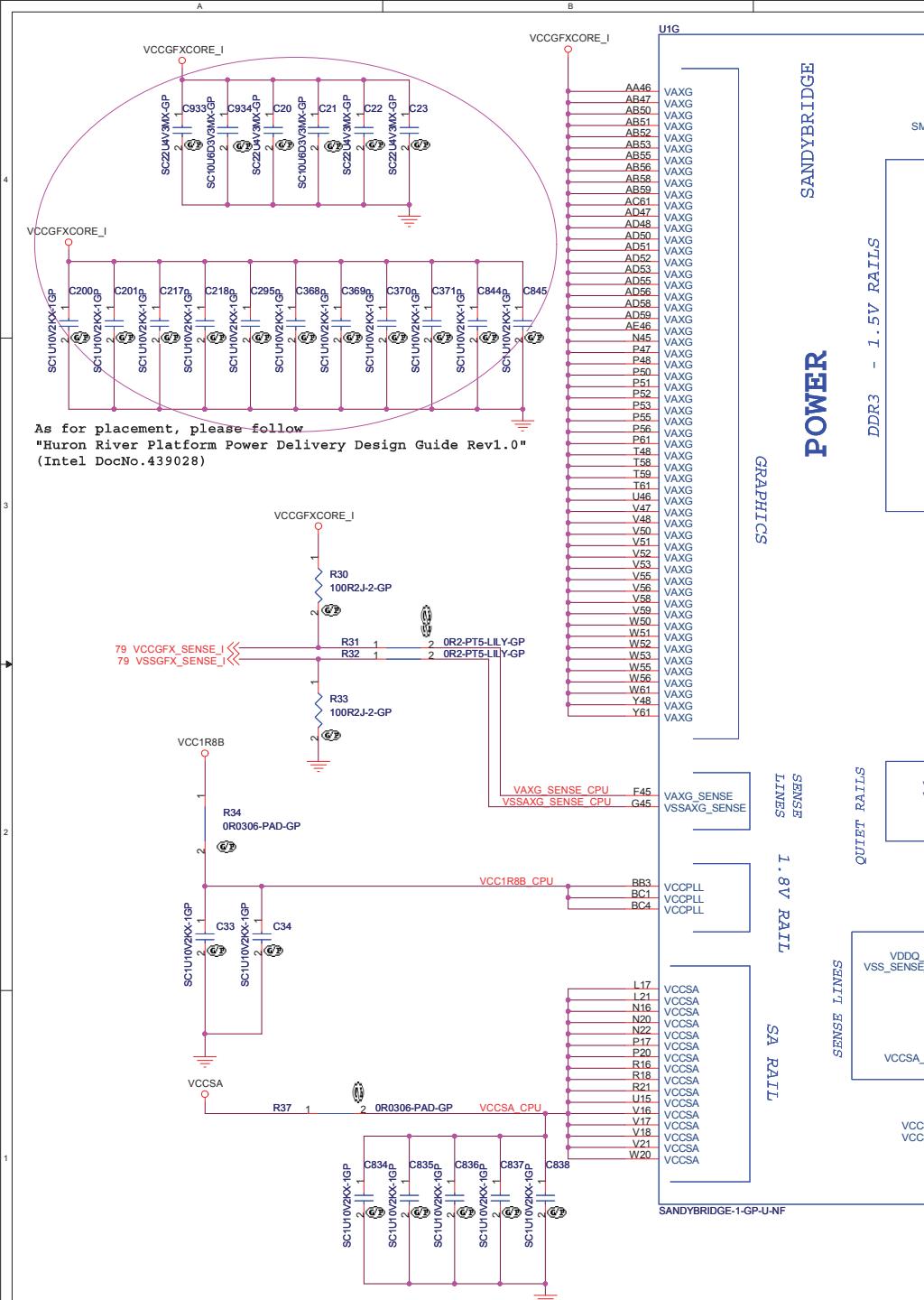


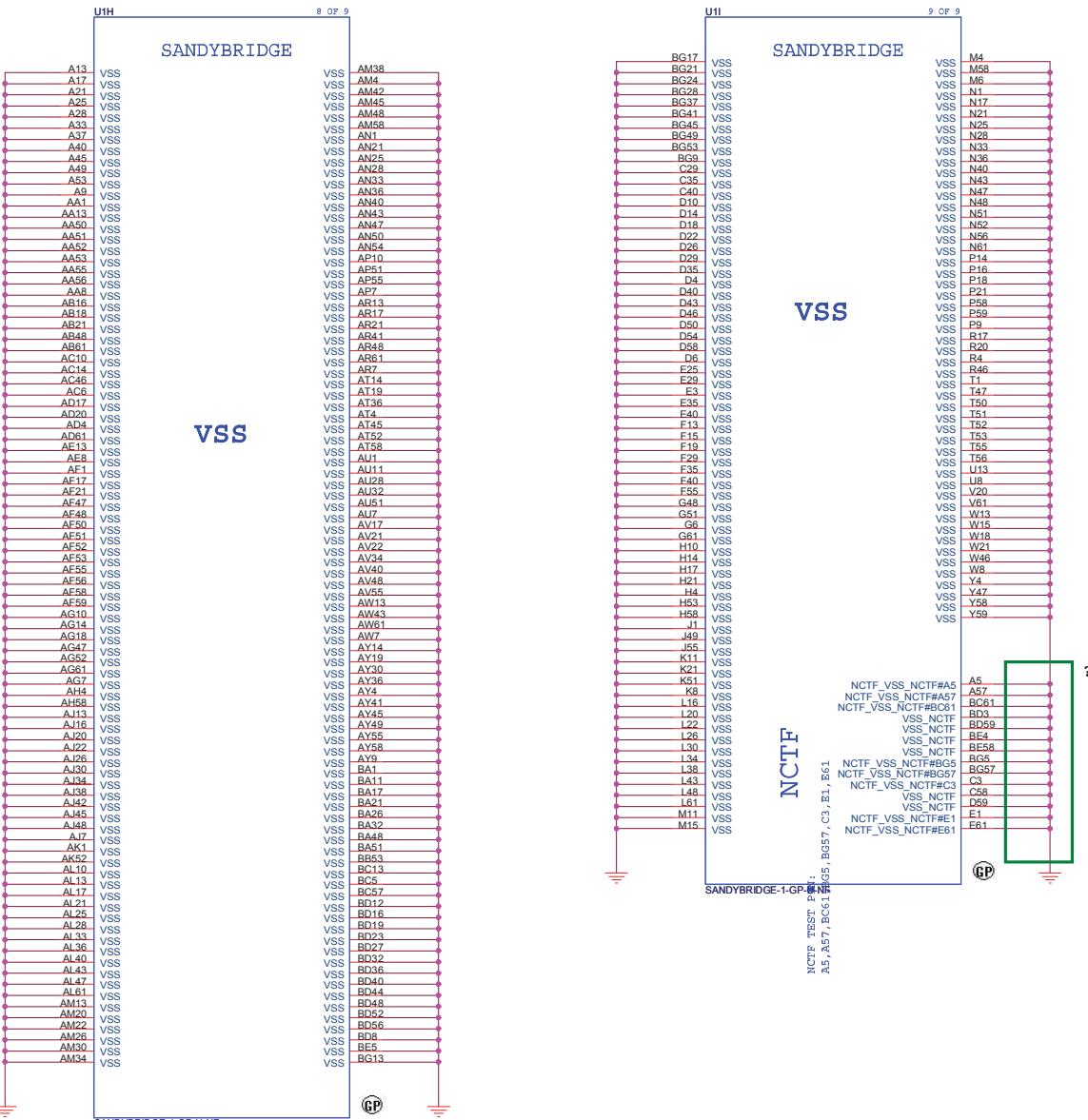










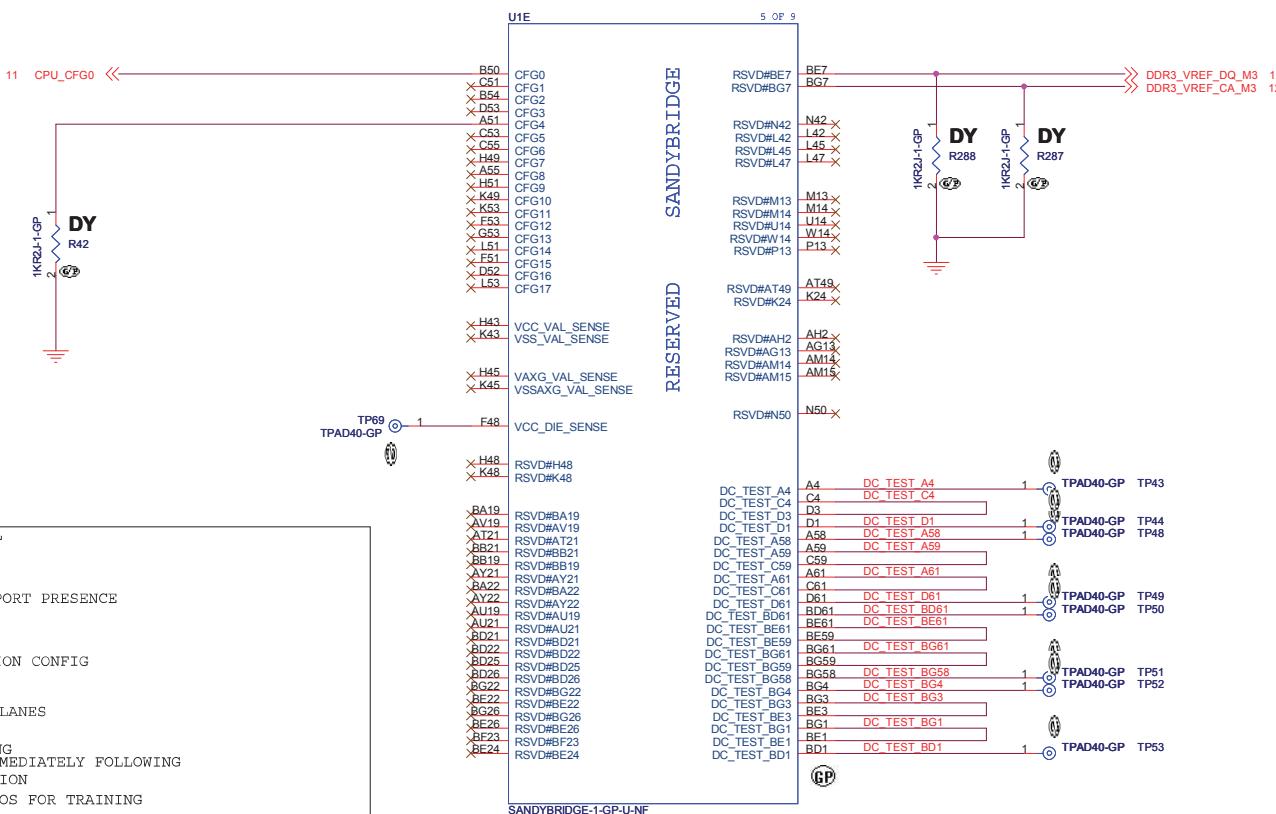


CFG2 PEG LANE REVERSAL
1 NO-ASM : NORMAL
0 ASM : REVERSE

CFG4 Embedded DISPLAY PORT PRESENCE
1 NO-ASM : DISABLE
0 ASM : ENABLE

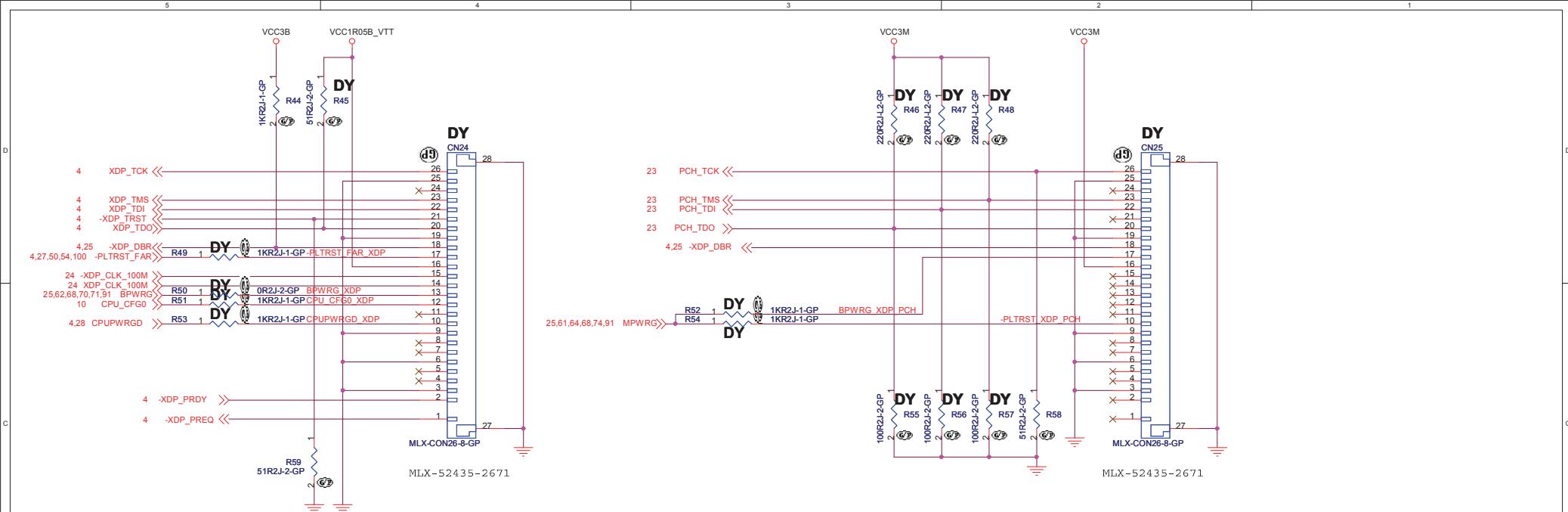
CFG[6:5] PEG BIFURCATION CONFIG
11 SINGLE 16 LANES
10 2x8 LANES
01 RESERVED
00 8 LANES AND 2x4 LANES

CFG7 PEG DEFER TRAINING
1 NO ASM : TRAIN IMMEDIATELY FOLLOWING
XXRESETB DEASSERTION
0 ASM : WAIT FOR BIOS FOR TRAINING



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Title	CPU(8/8):CFG/Reserved	Rev SD
Size A3	Document Number	
Dasher-1		
Date: Monday, January 10, 2011	Sheet 10 of 101	E



DEBUG Interface for Processor.

XDP1

		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

SIT Logic

DEBUG Interface for PCH.

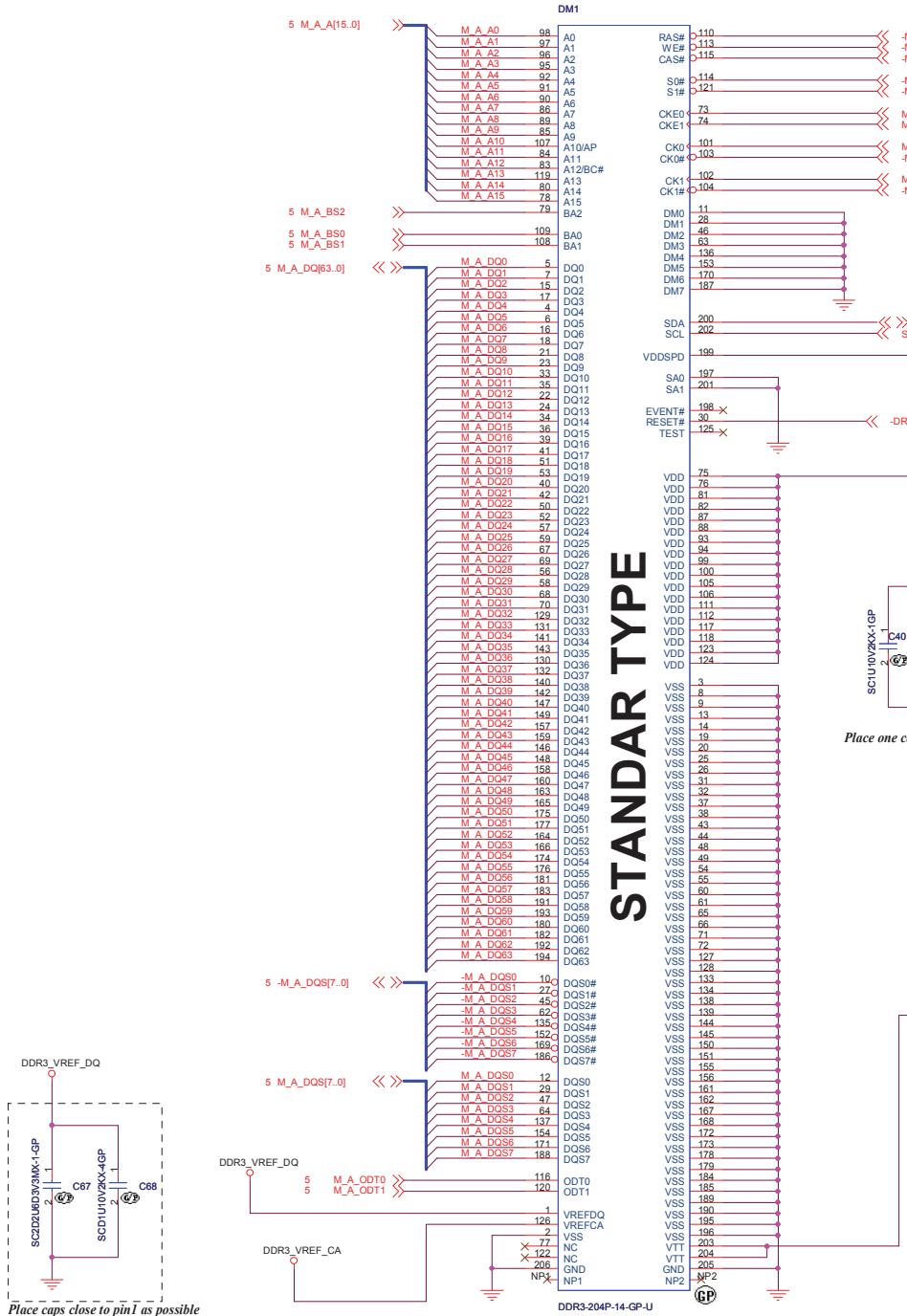
XDP2

		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

SIT Logic

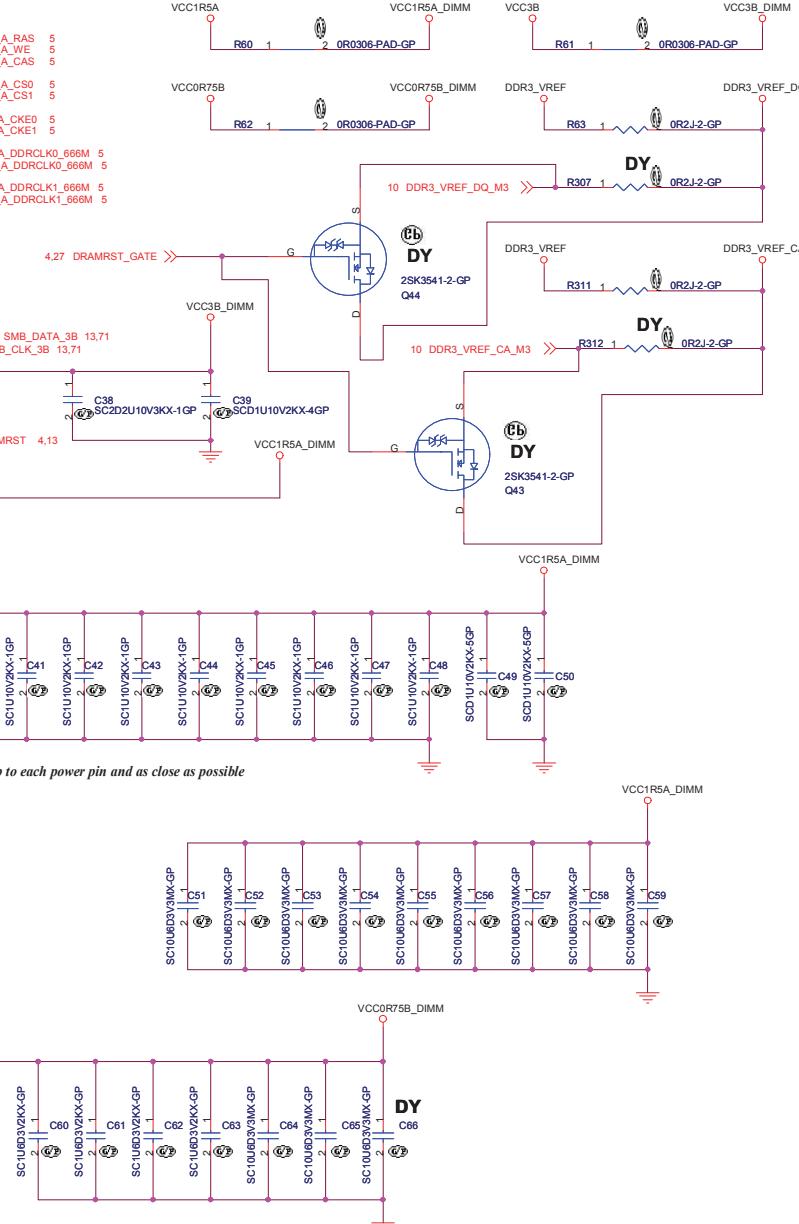
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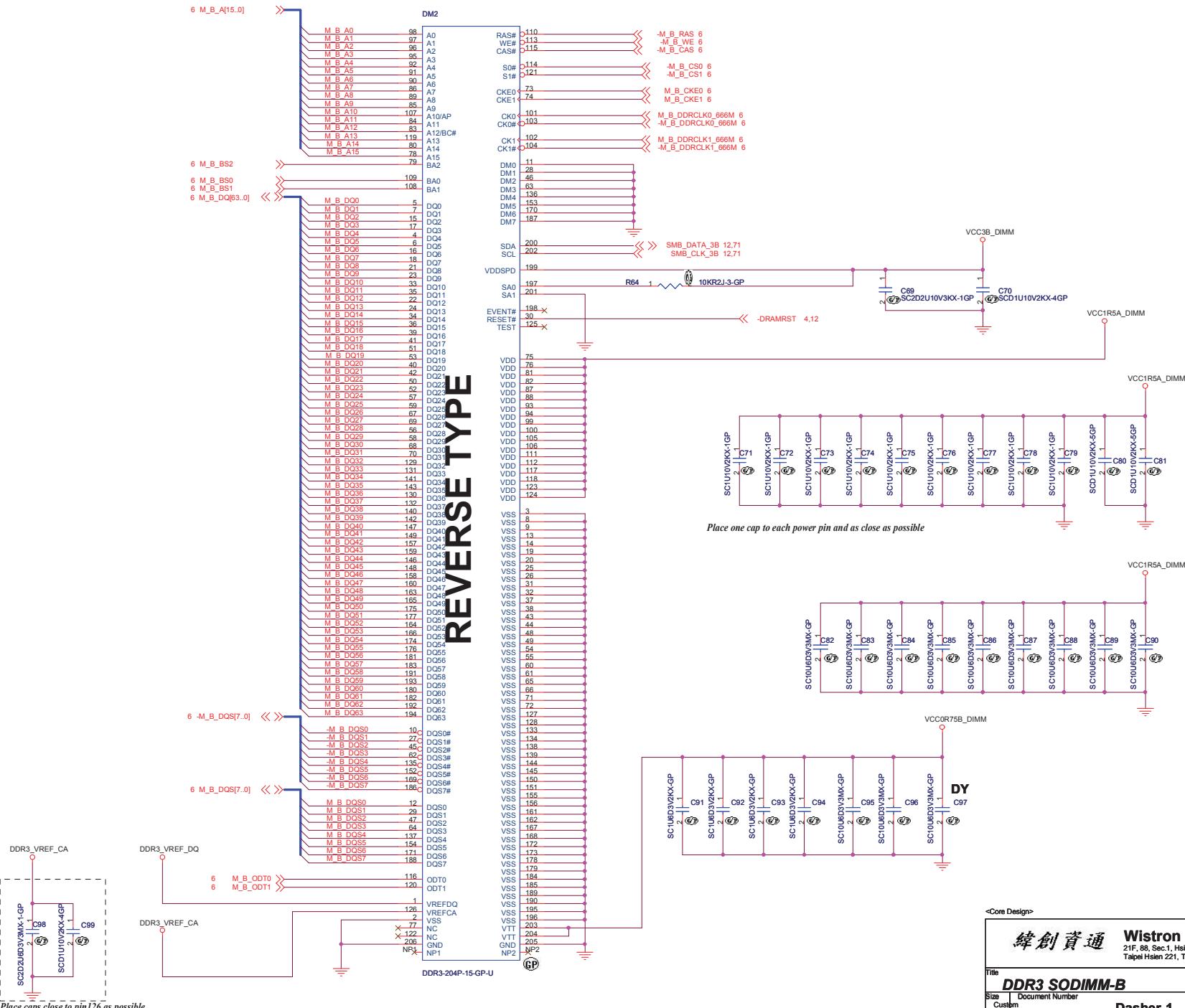
STANDARD TYPE



Place caps close to pin 1 as possible

A B C D E





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Size A3	Document Number	Rev SD
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Size A3	Rev SD	
Date: Monday, January 10, 2011	Sheet 1	of 101

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Date: Monday, January 10, 2011	Sheet	21 of 101

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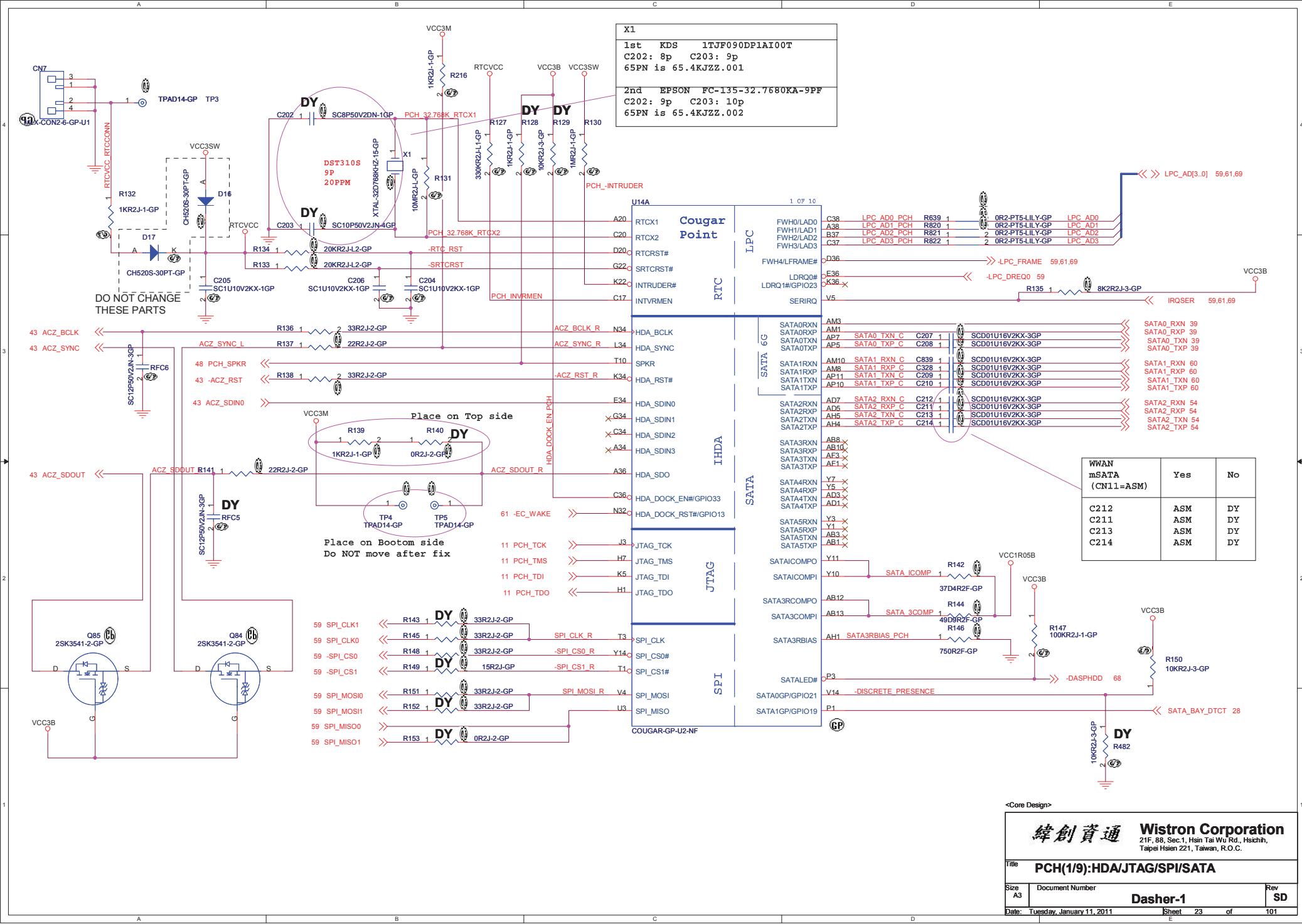
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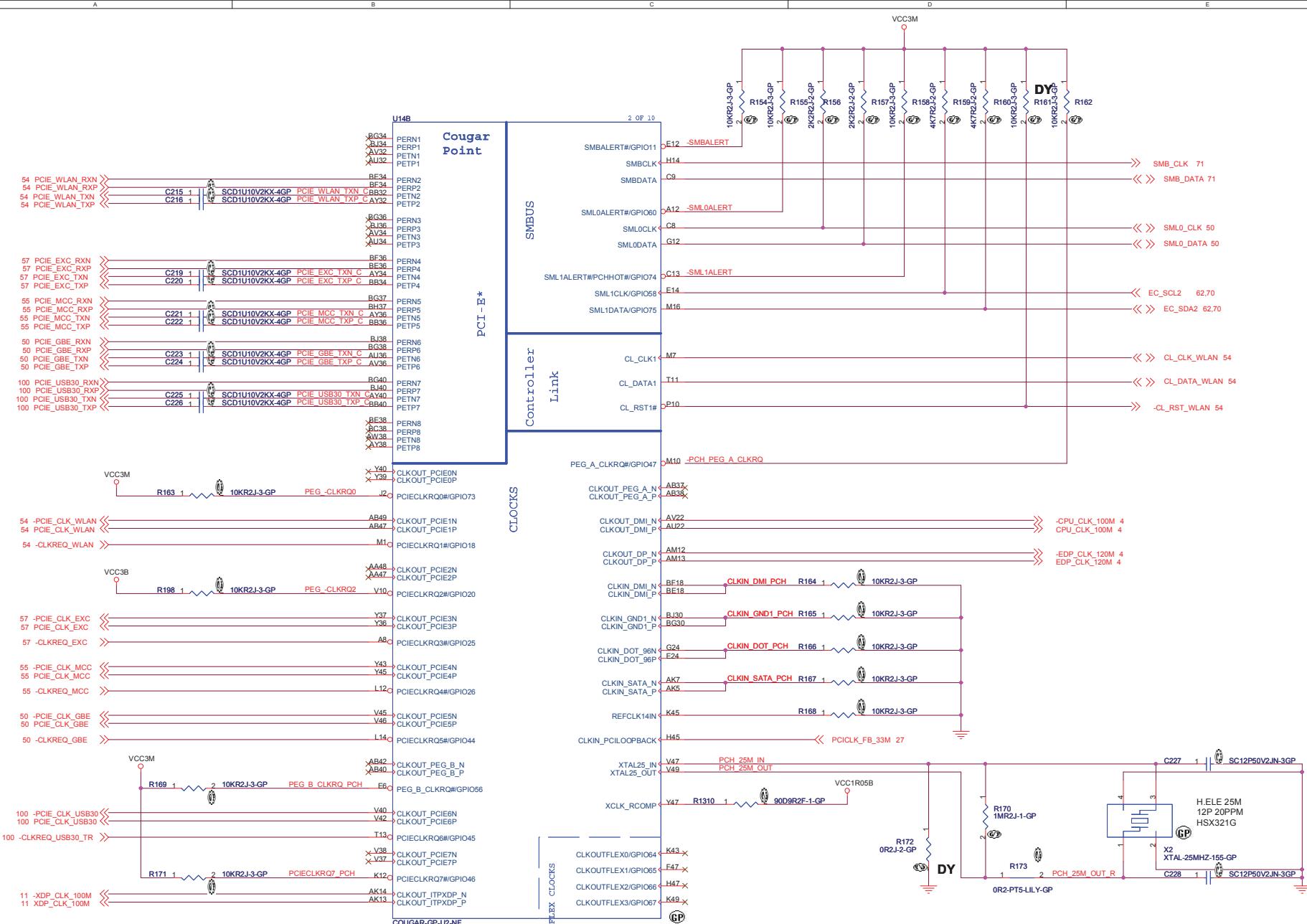
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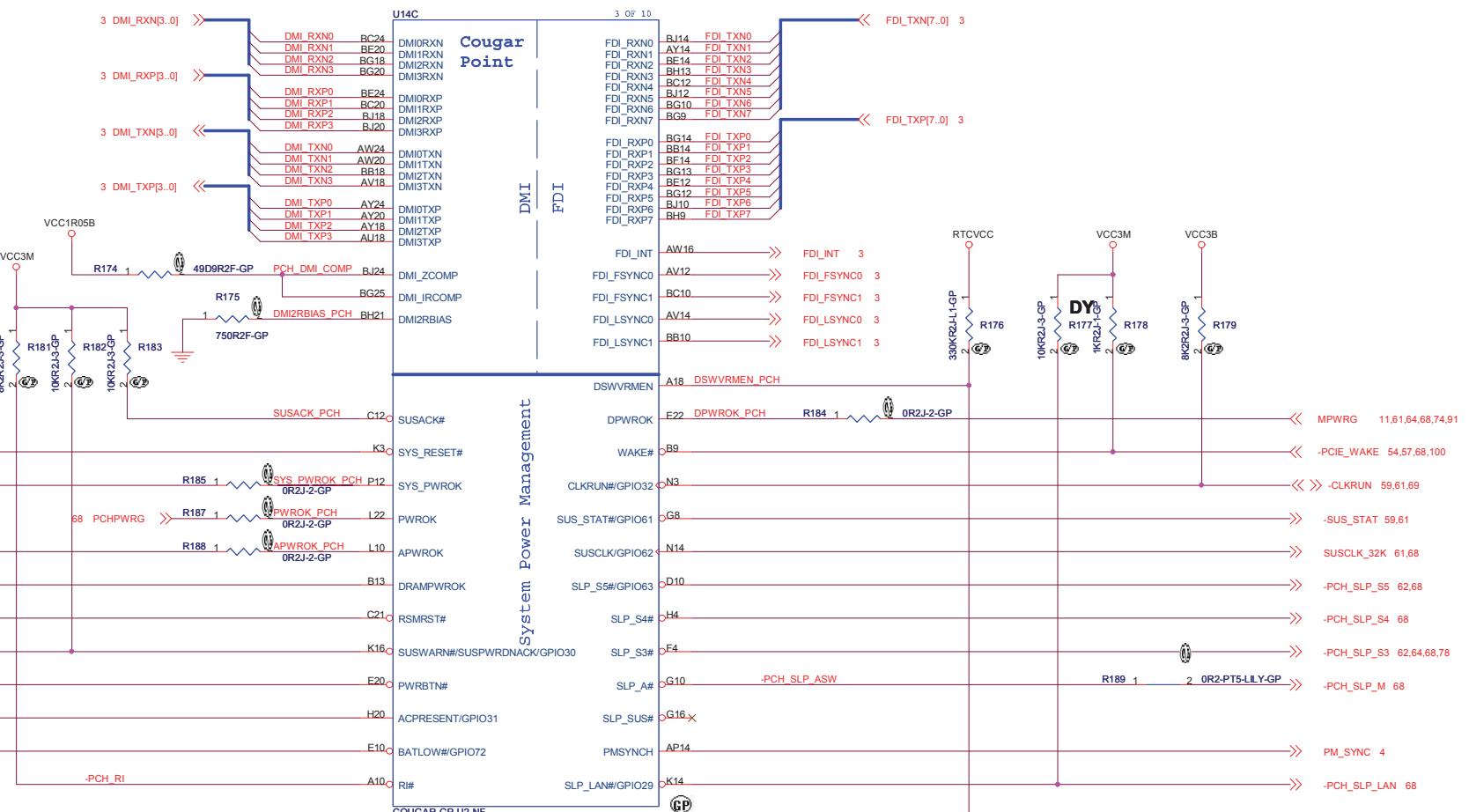
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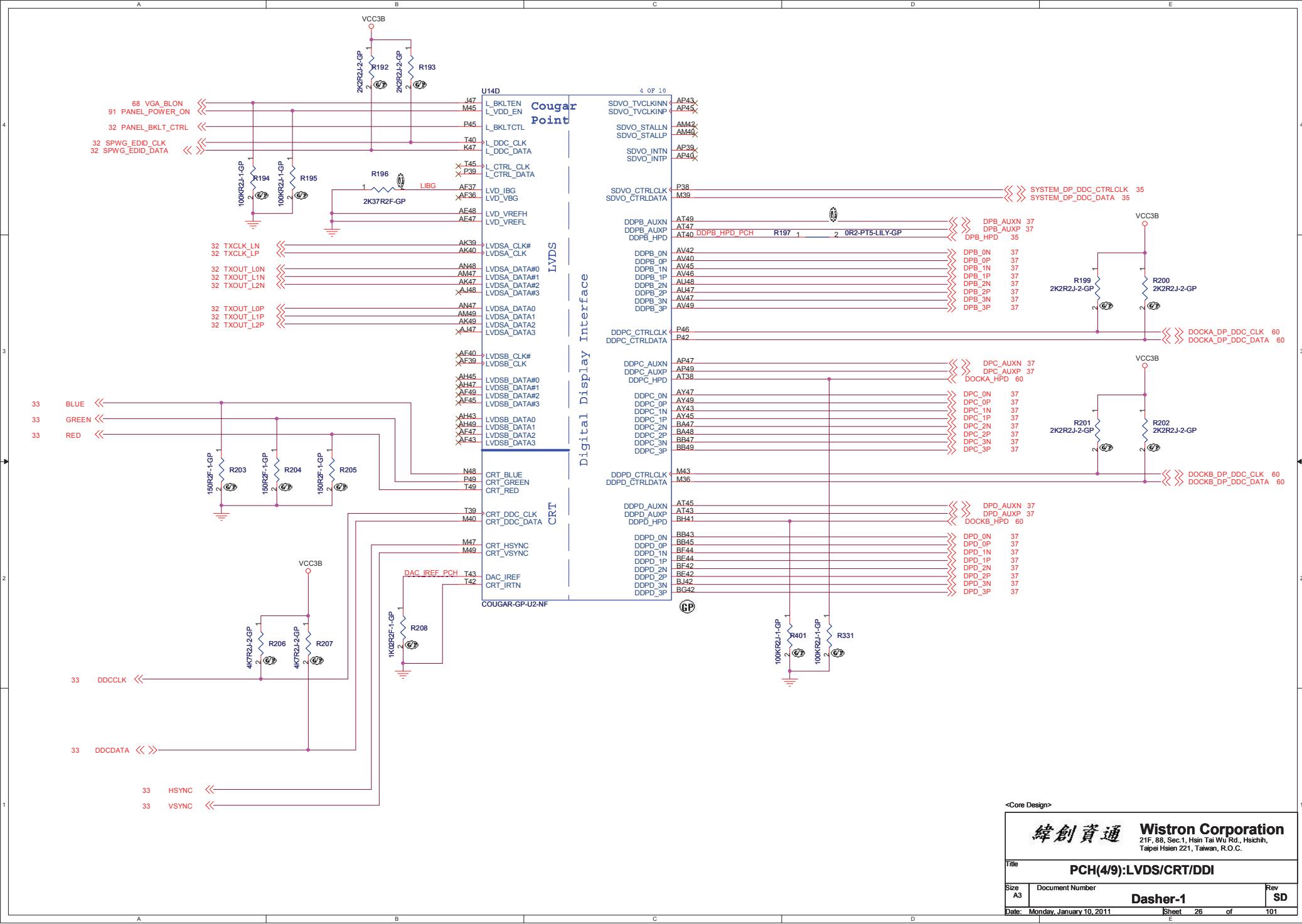
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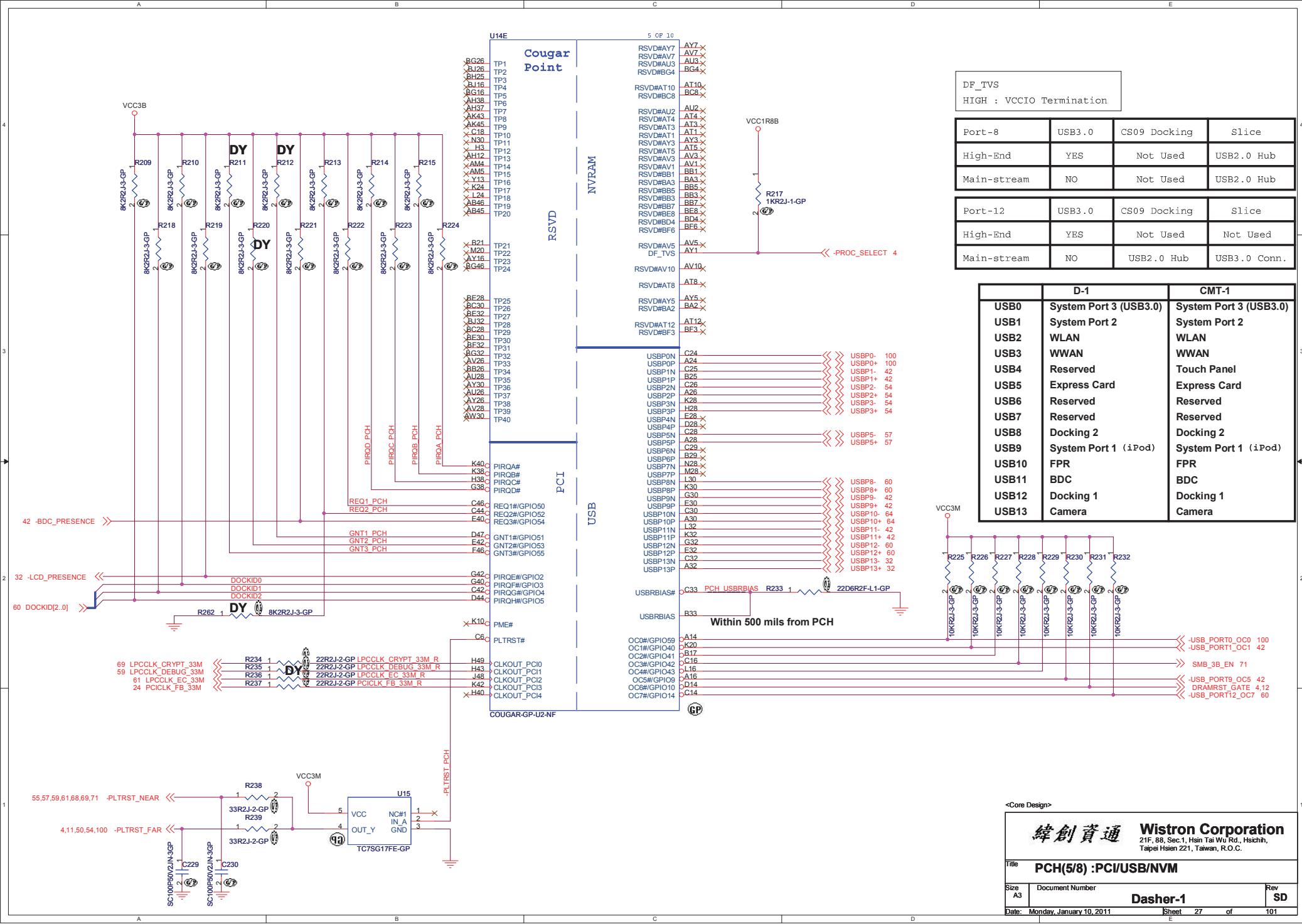
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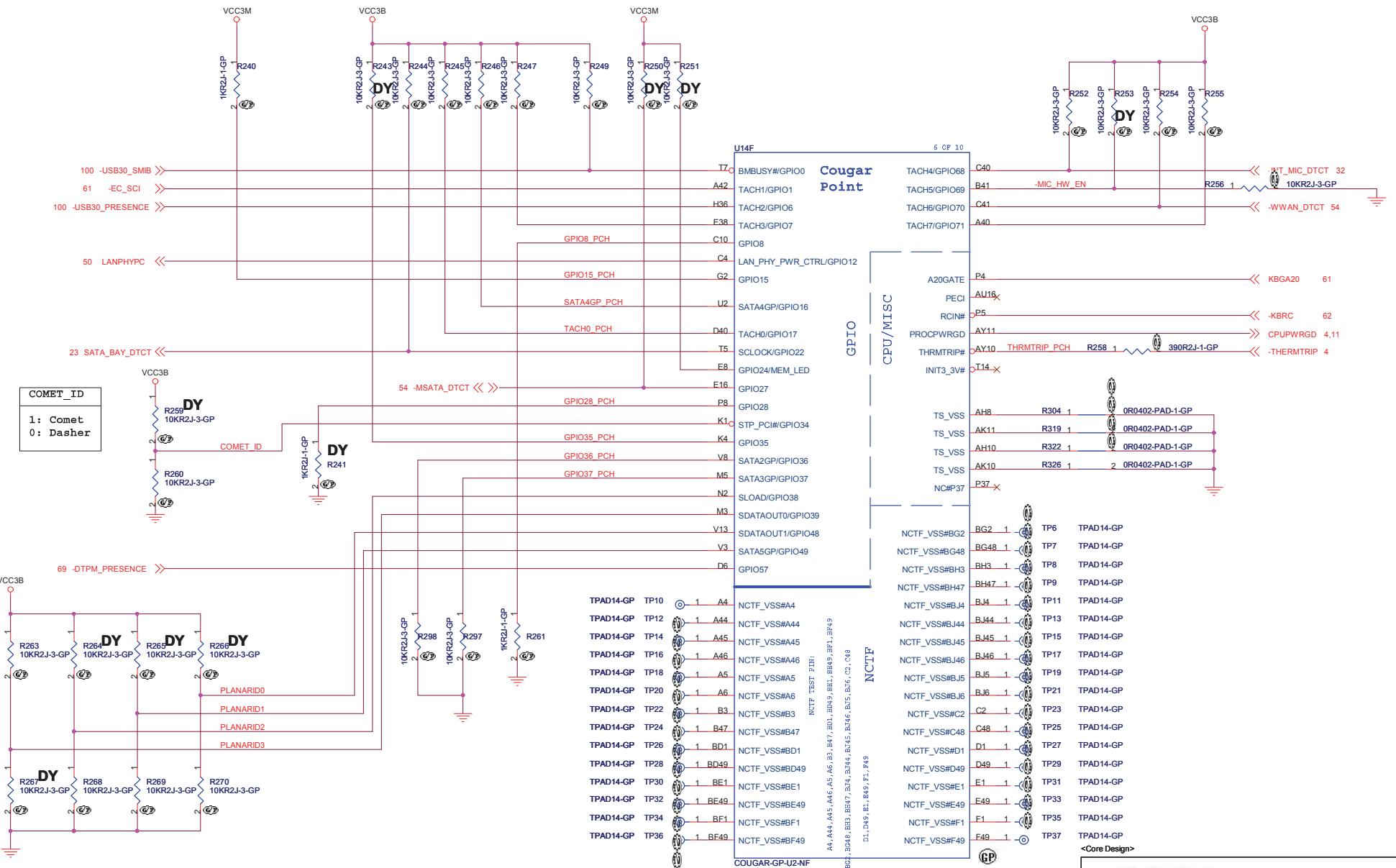


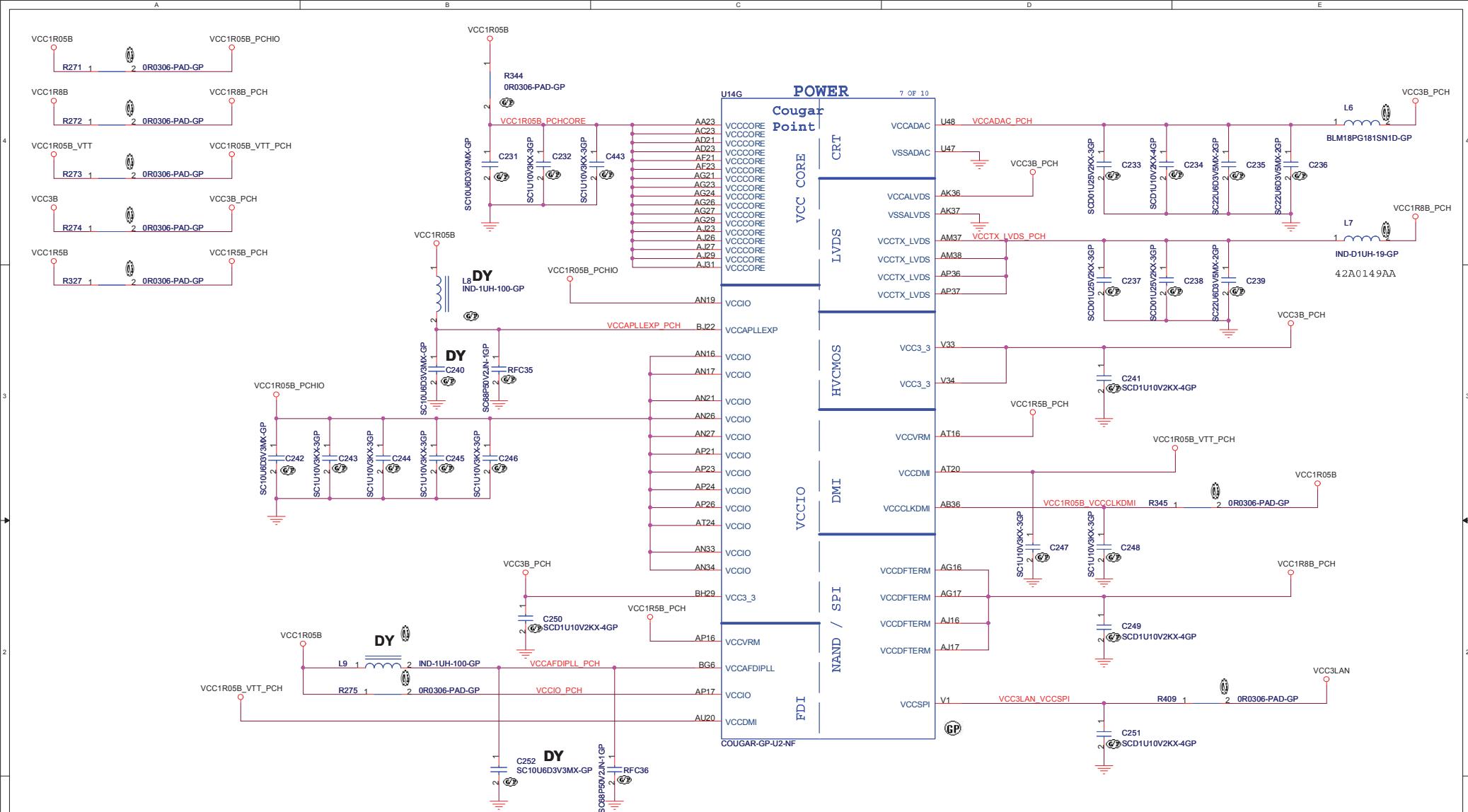


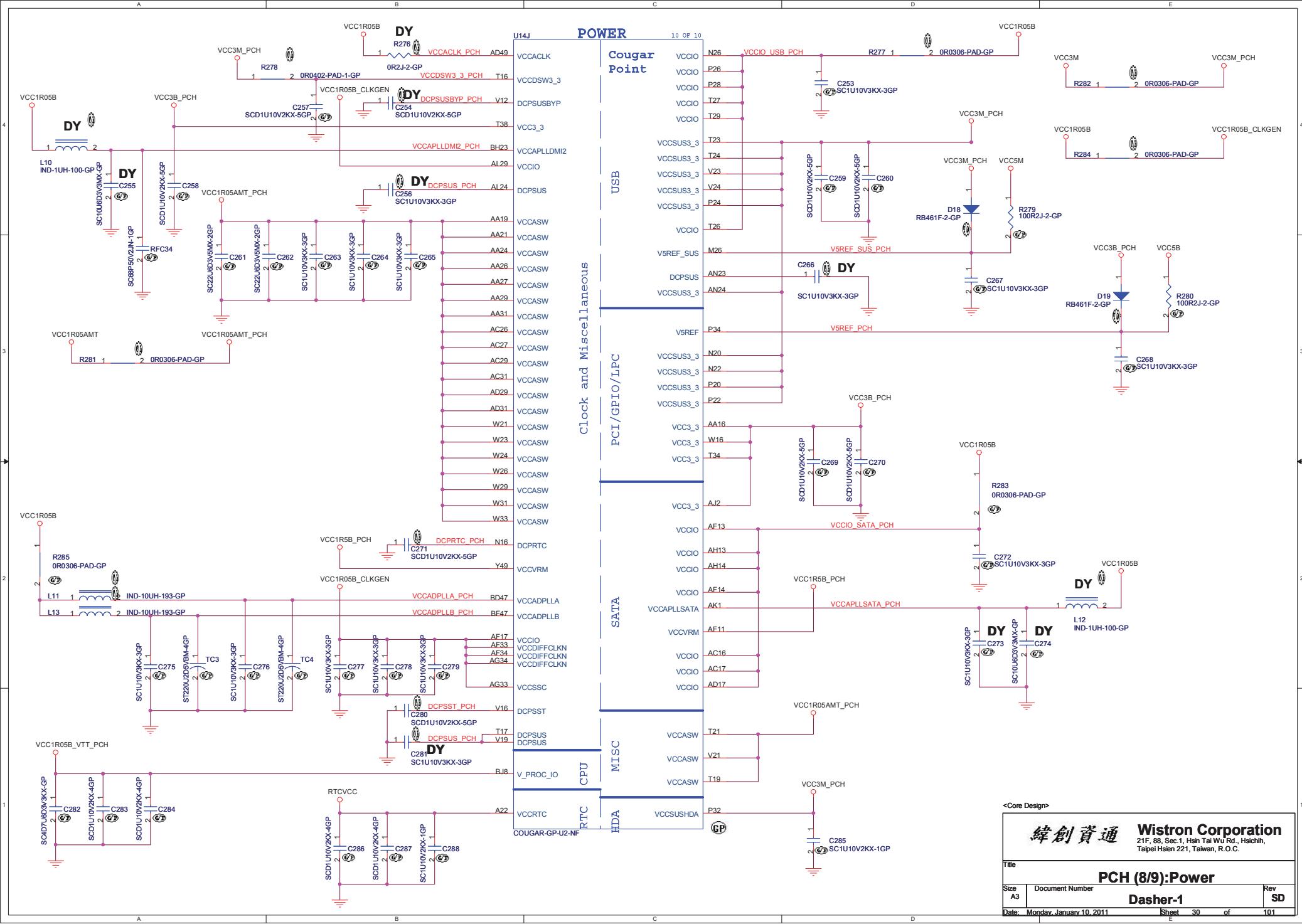


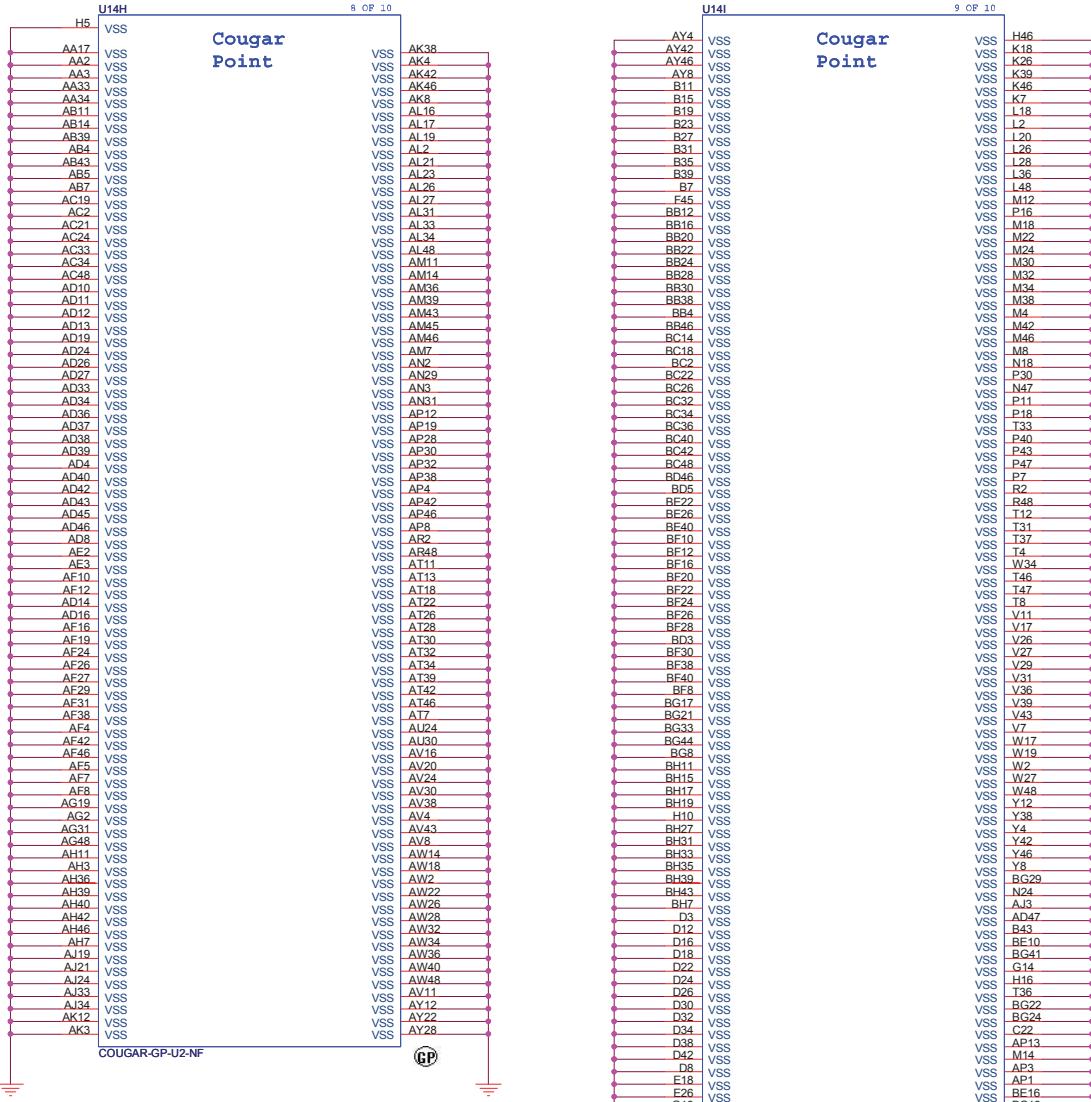






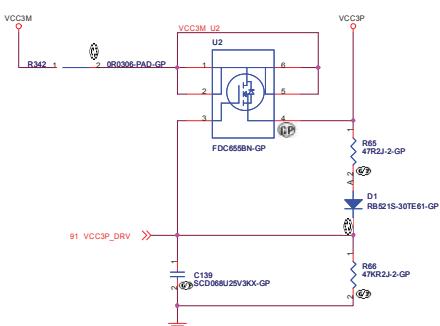
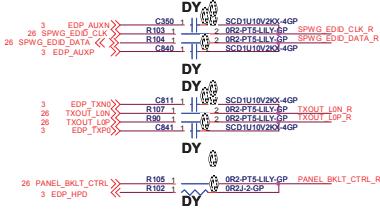
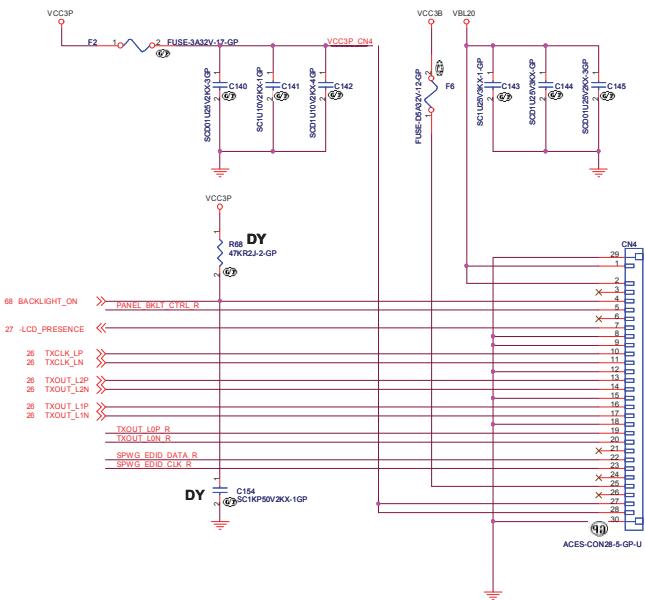




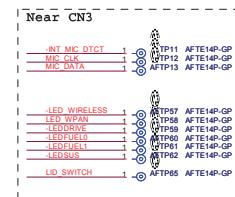
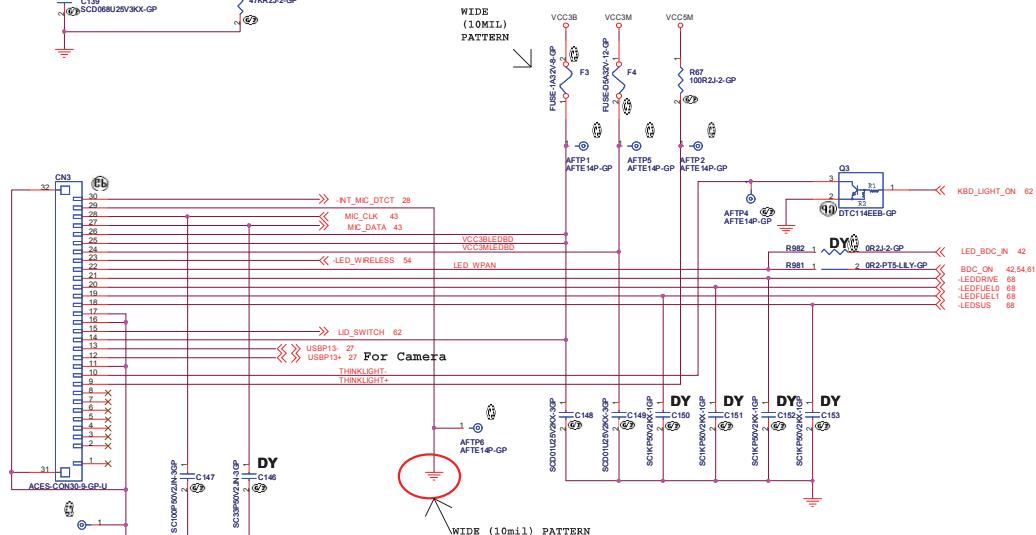




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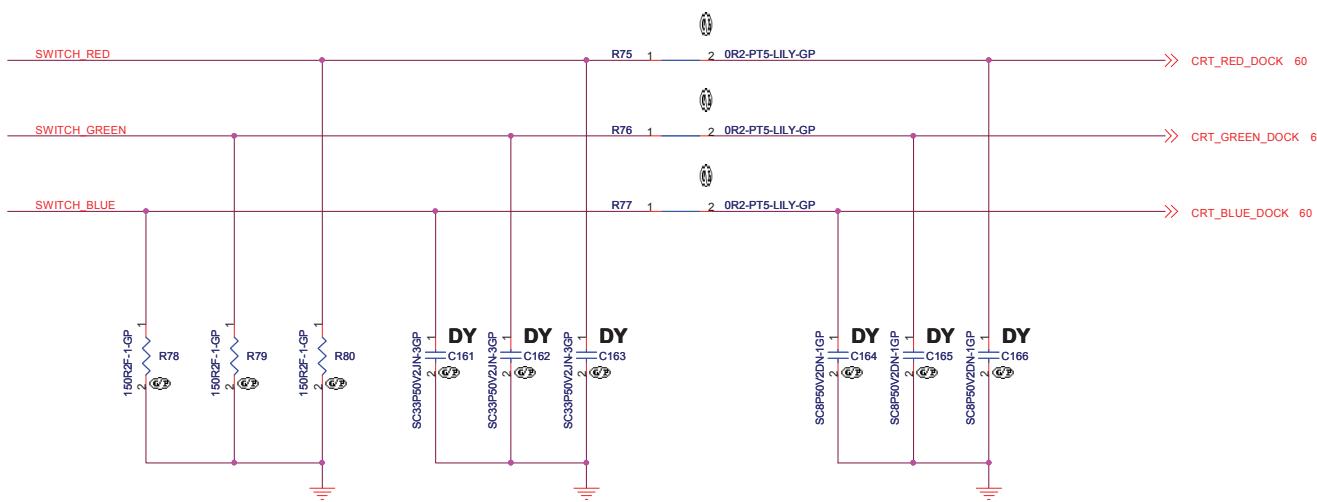
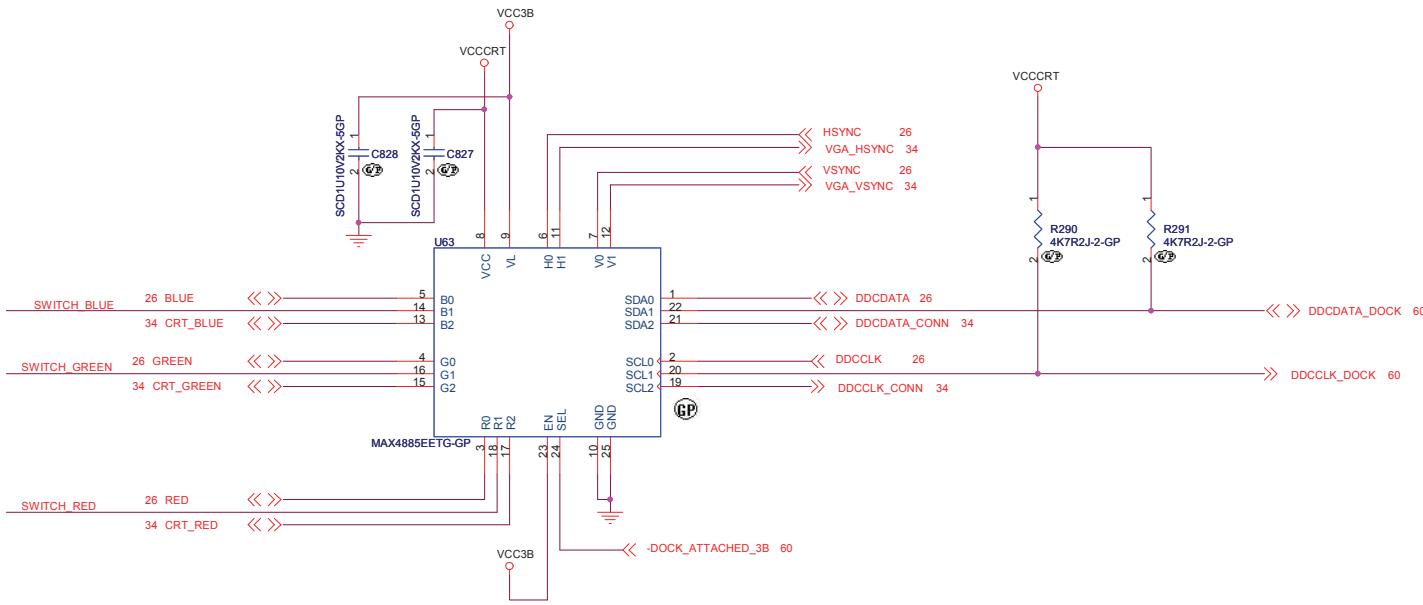
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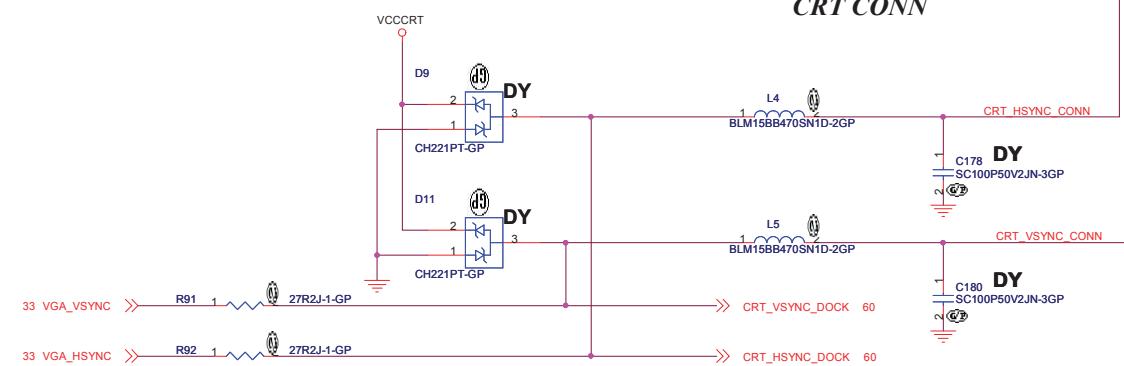
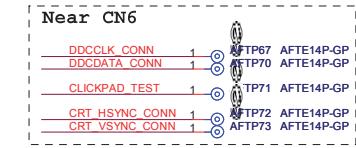
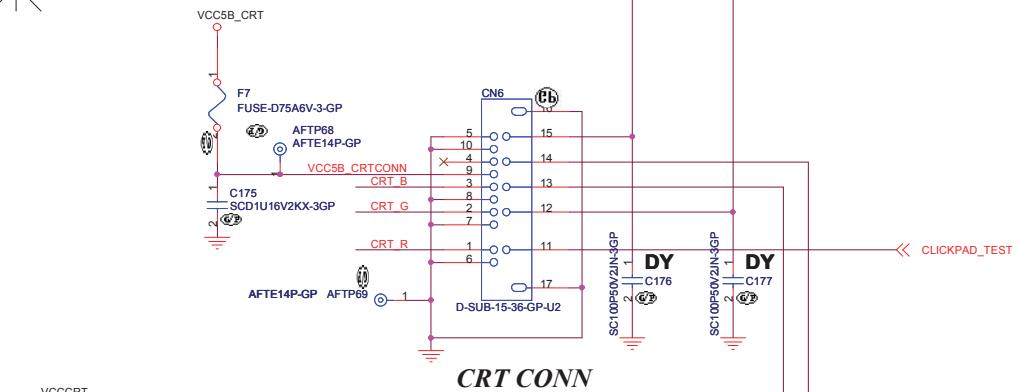
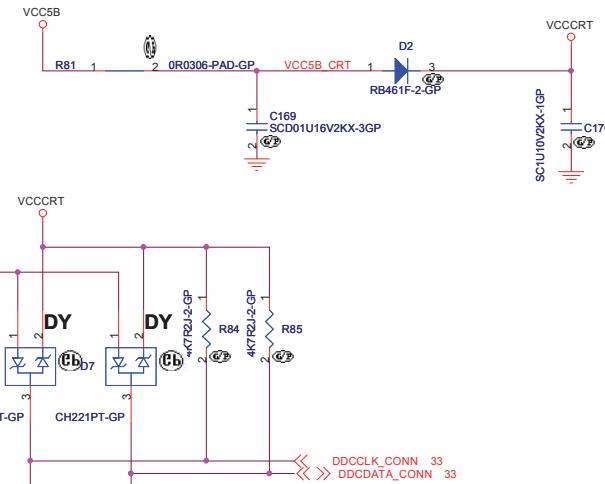
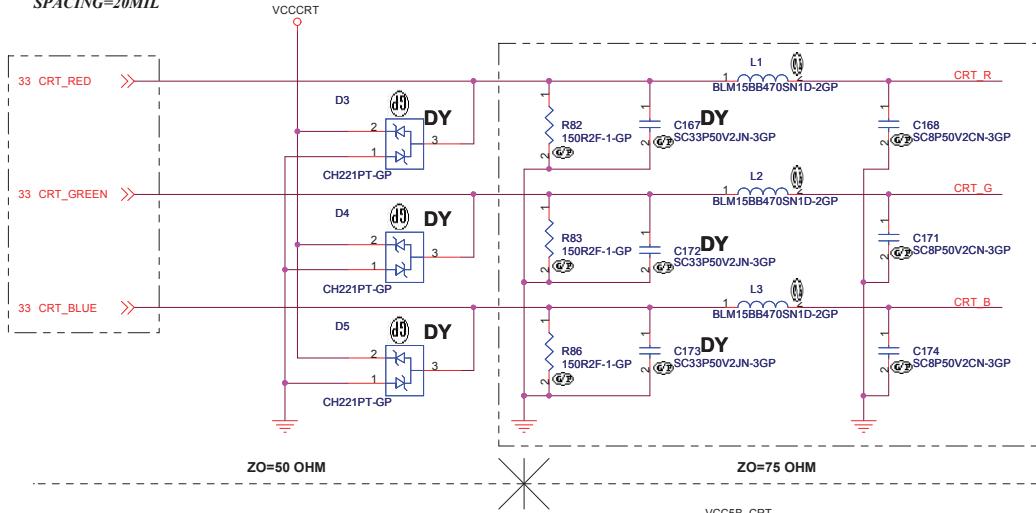
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Rev: SD Date: Monday, January 10, 2011 Sheet: 32 of 101

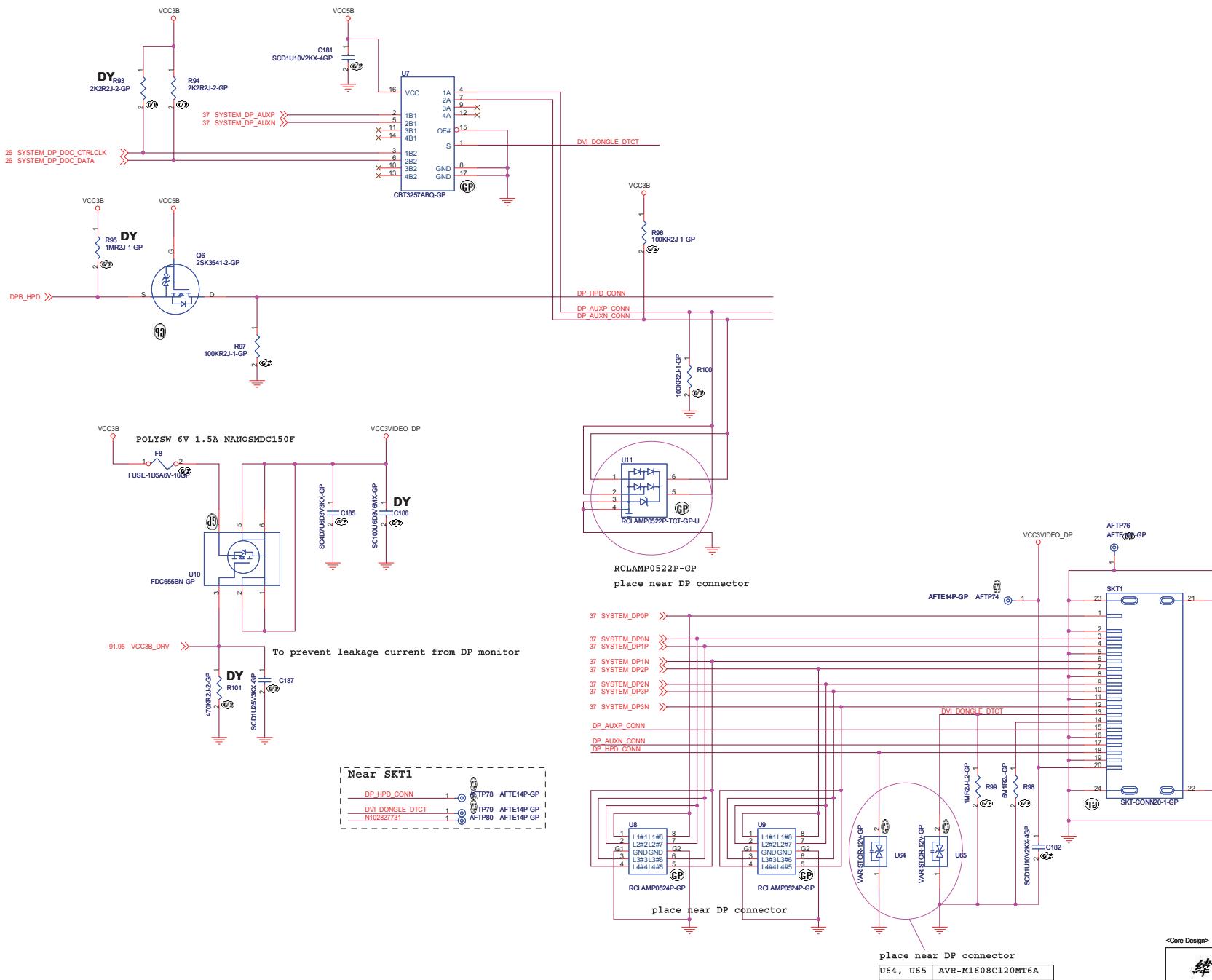


GND GUARDING

EACH SIGNAL WIDTH DEPENDS ON ZO(TRACE IMPEDANCE)

SPACING=20MIL





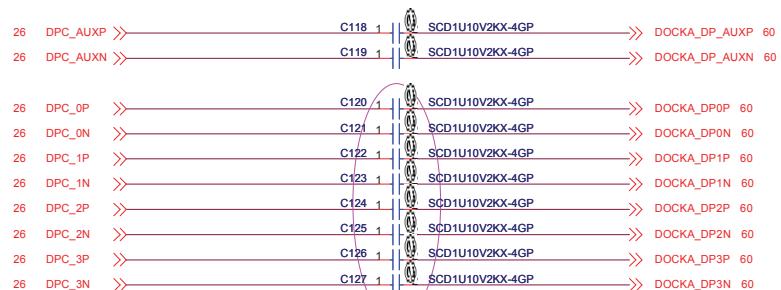
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Size A3	Rev SD	
Date: Monday, January 10, 2011	Sheet	36 of 101

A System DP Connector

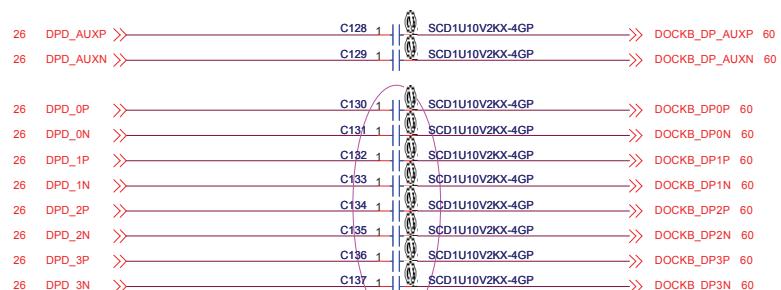


B Docking DP Connector A



Place Near Docking Connector

C Docking DP Connector B



Place Near Docking Connector

B

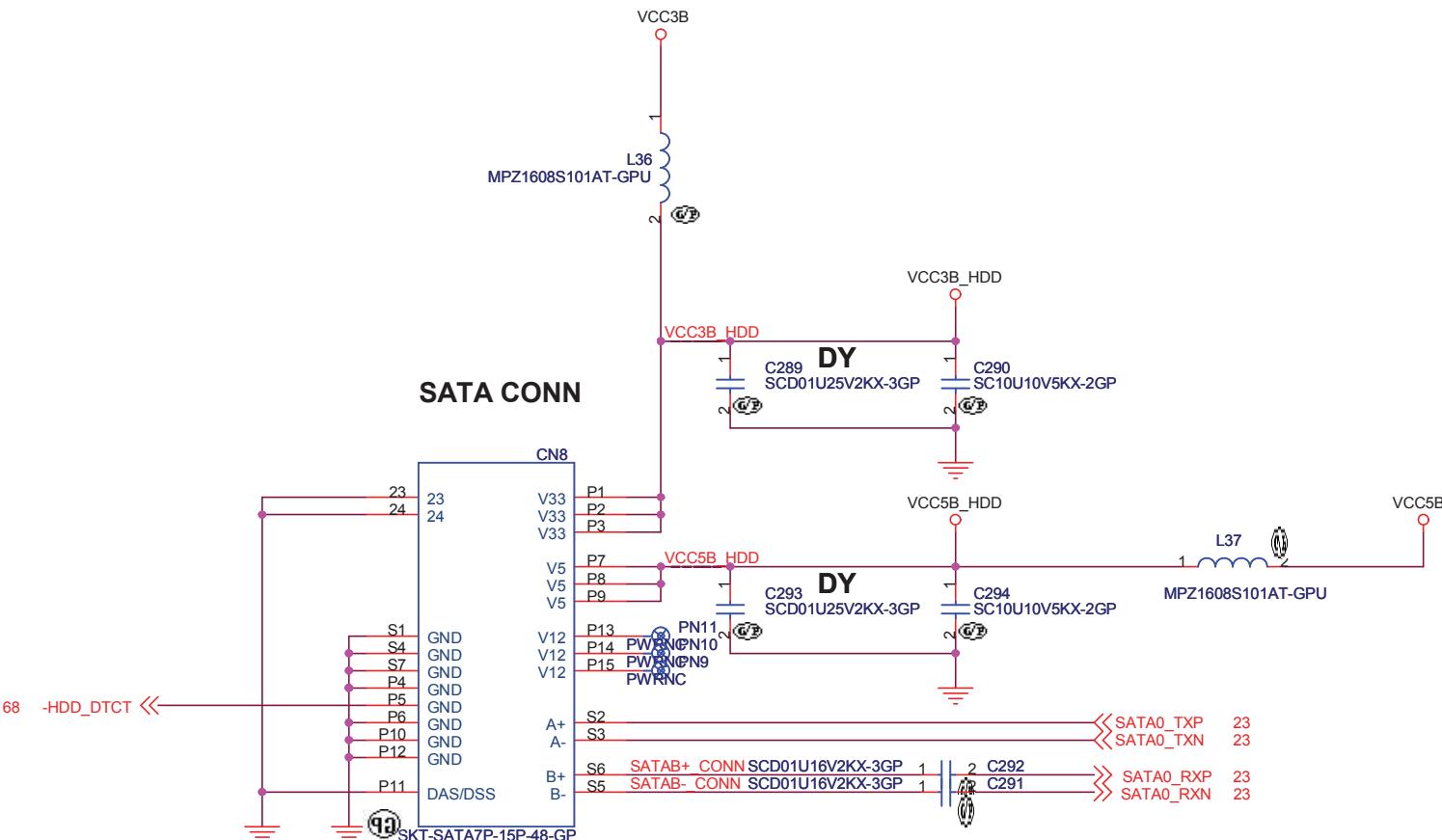
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Date: Monday, January 10, 2011	Sheet 1	38 of 101



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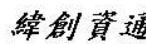
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Date: Monday, January 10, 2011	Sheet 1 of 40	101

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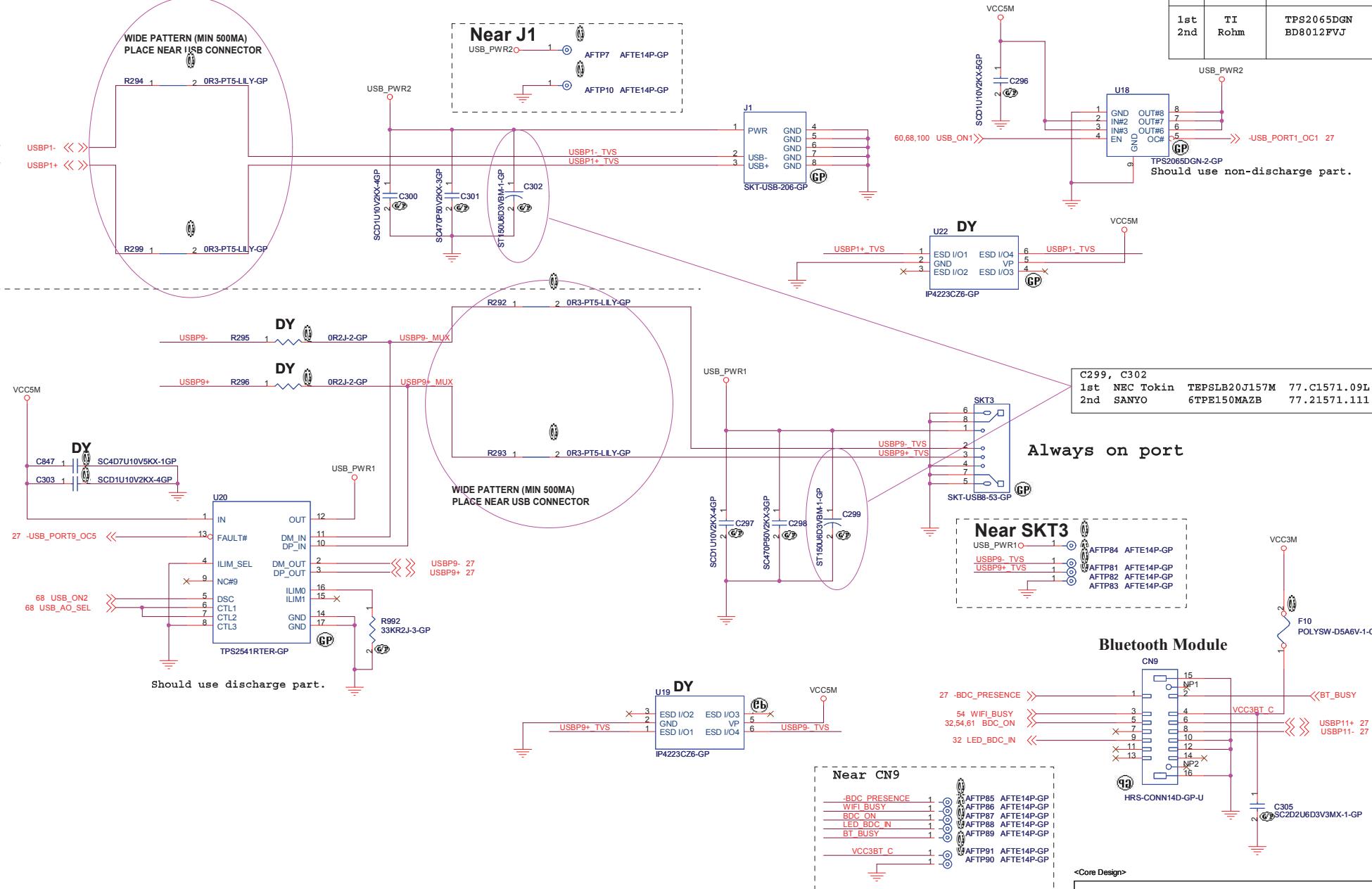
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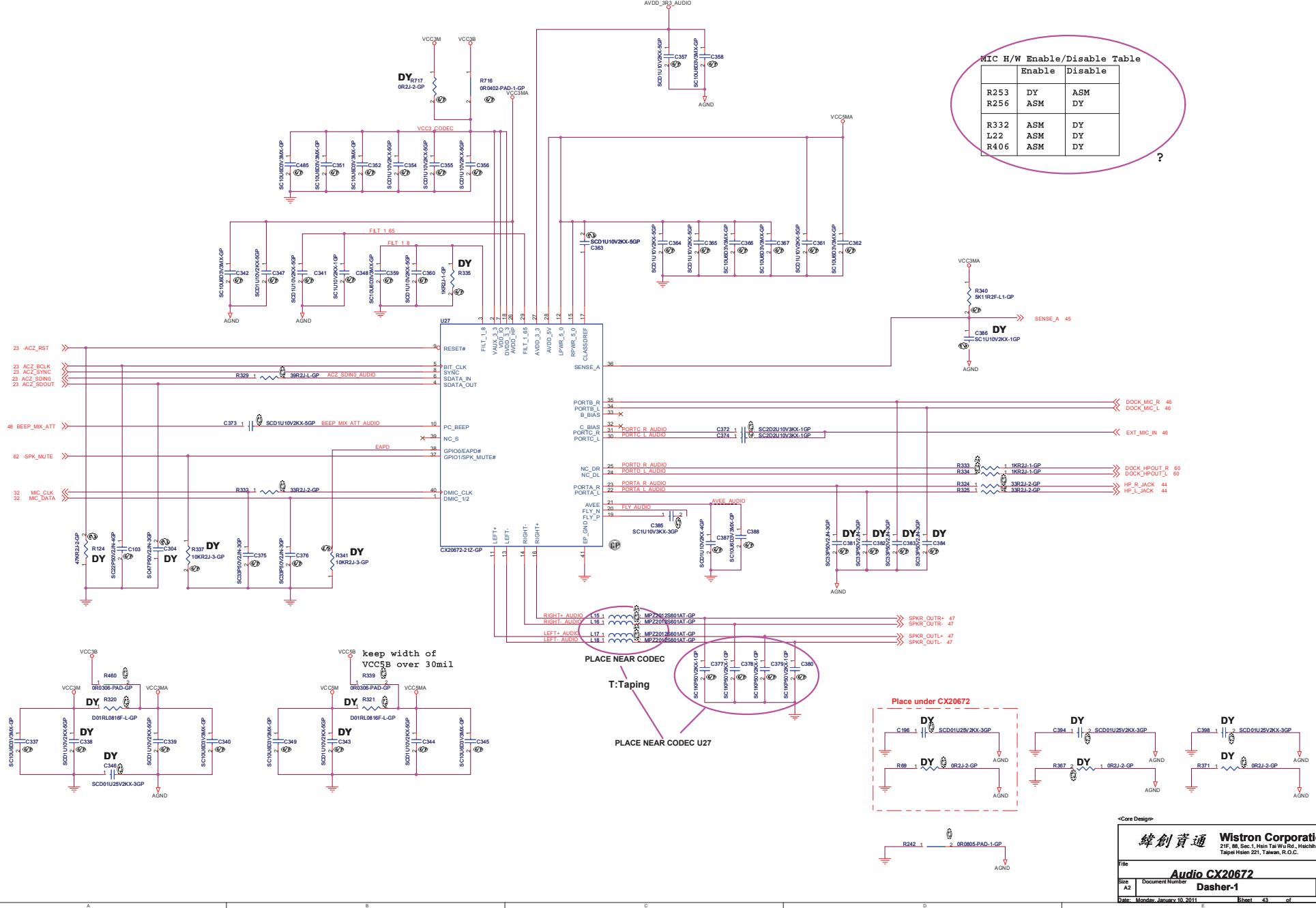
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Title	BLANK	
Size A3	Document Number	Rev SD
	Dasher-1	
Date: Monday, January 10, 2011	Sheet 41 of 101	1

U18	Vendor	Vendor P/N
1st	TI	TPS2065DGN
2nd	Rohm	BD8012FVJ



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

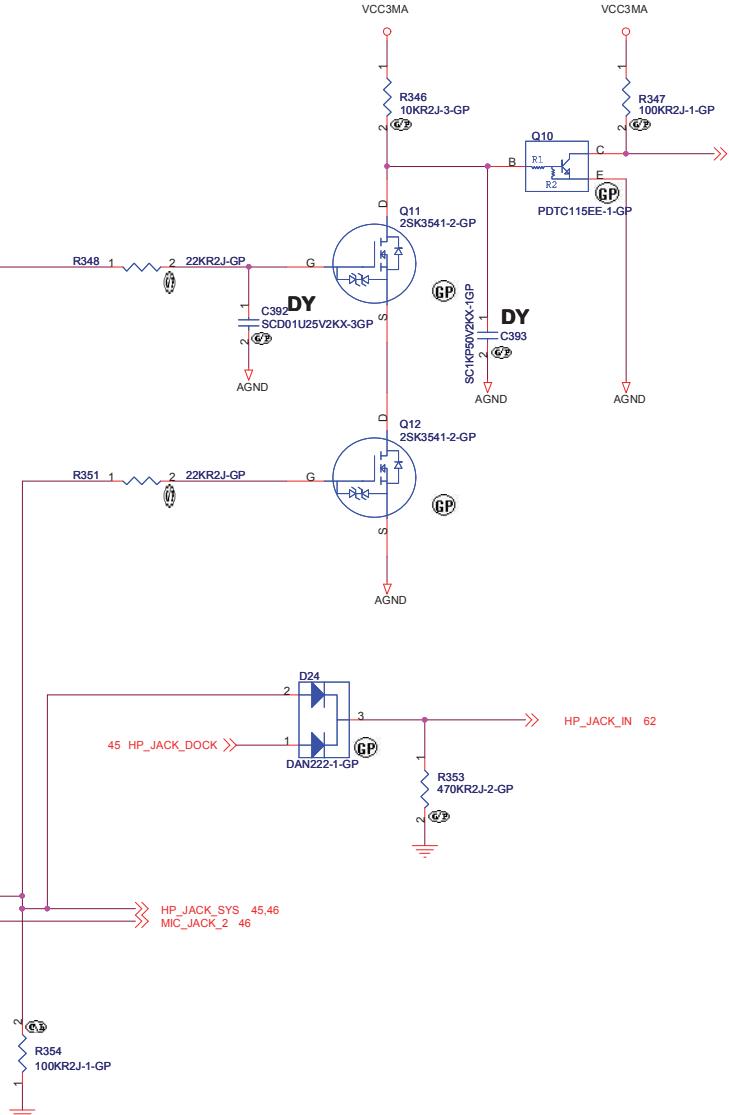
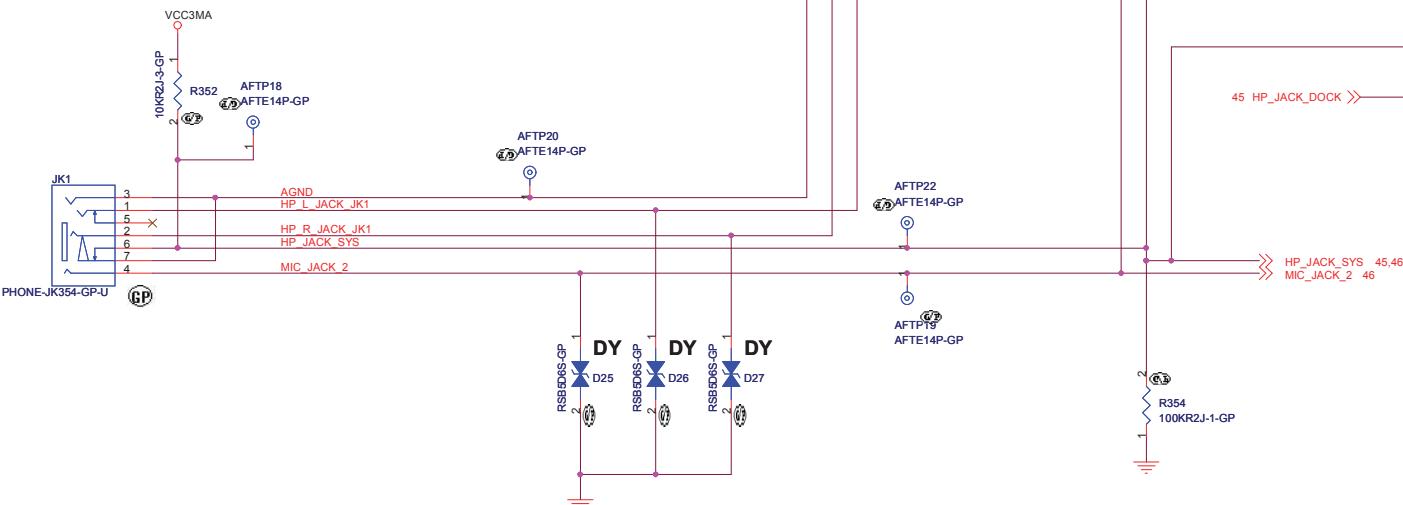
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NEAR HEADPHONE CONN

WIDE PATTERN

WIDE AND SHORT PATTERN

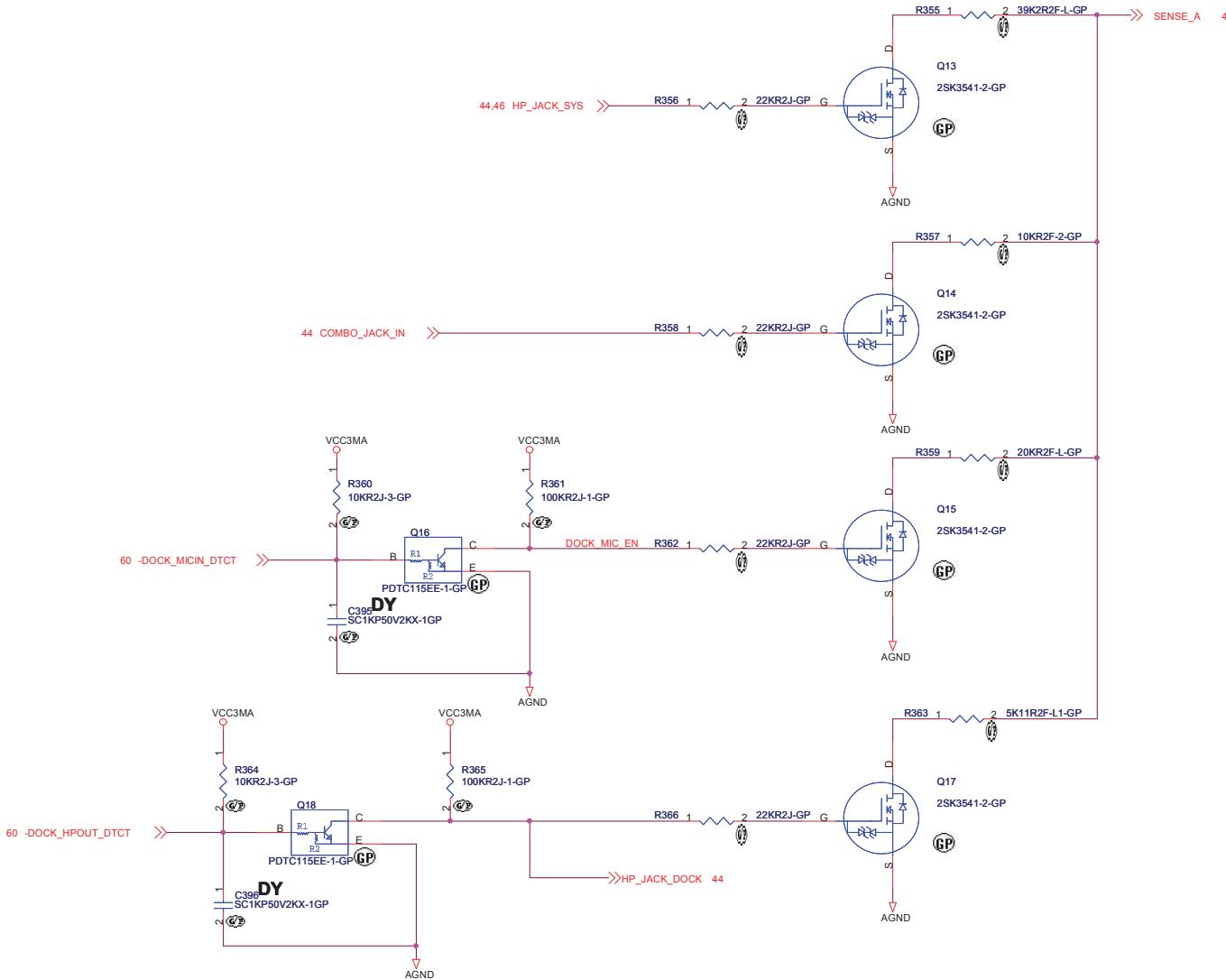


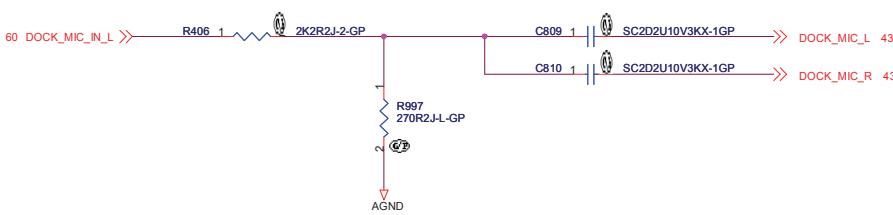
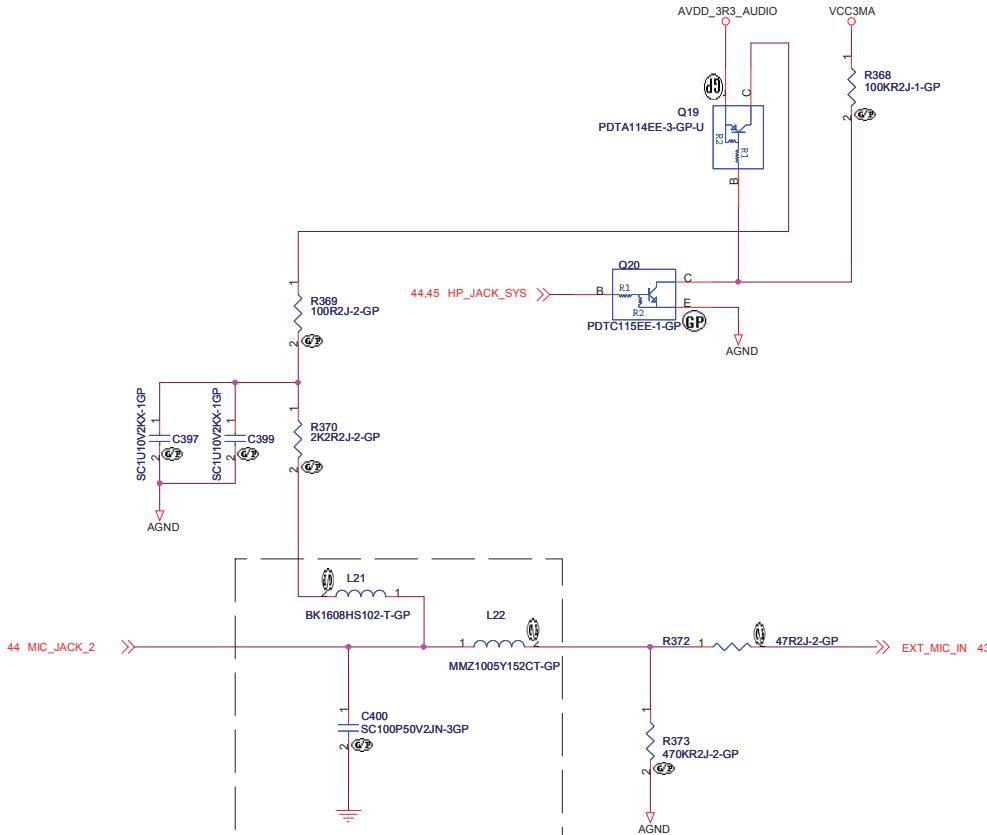
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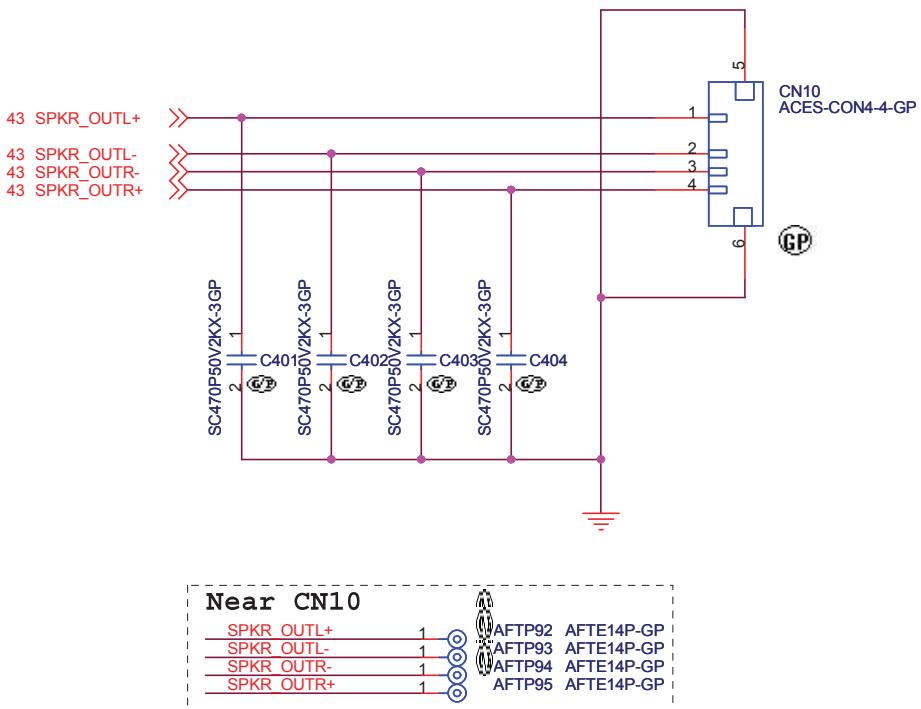
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21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
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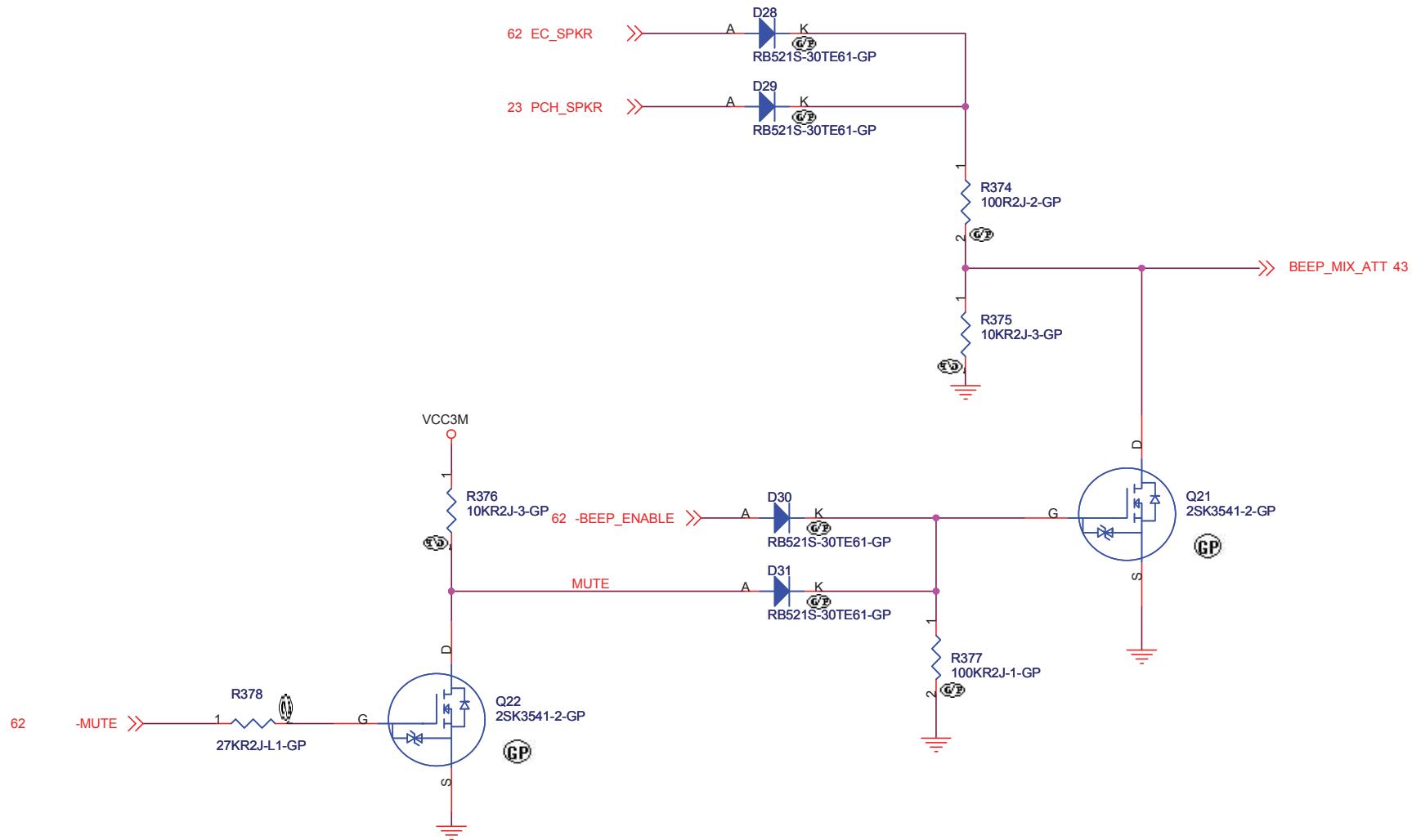






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Rev SD	Dasher-1
Date: Monday, January 10, 2011	Sheet 47 of 101

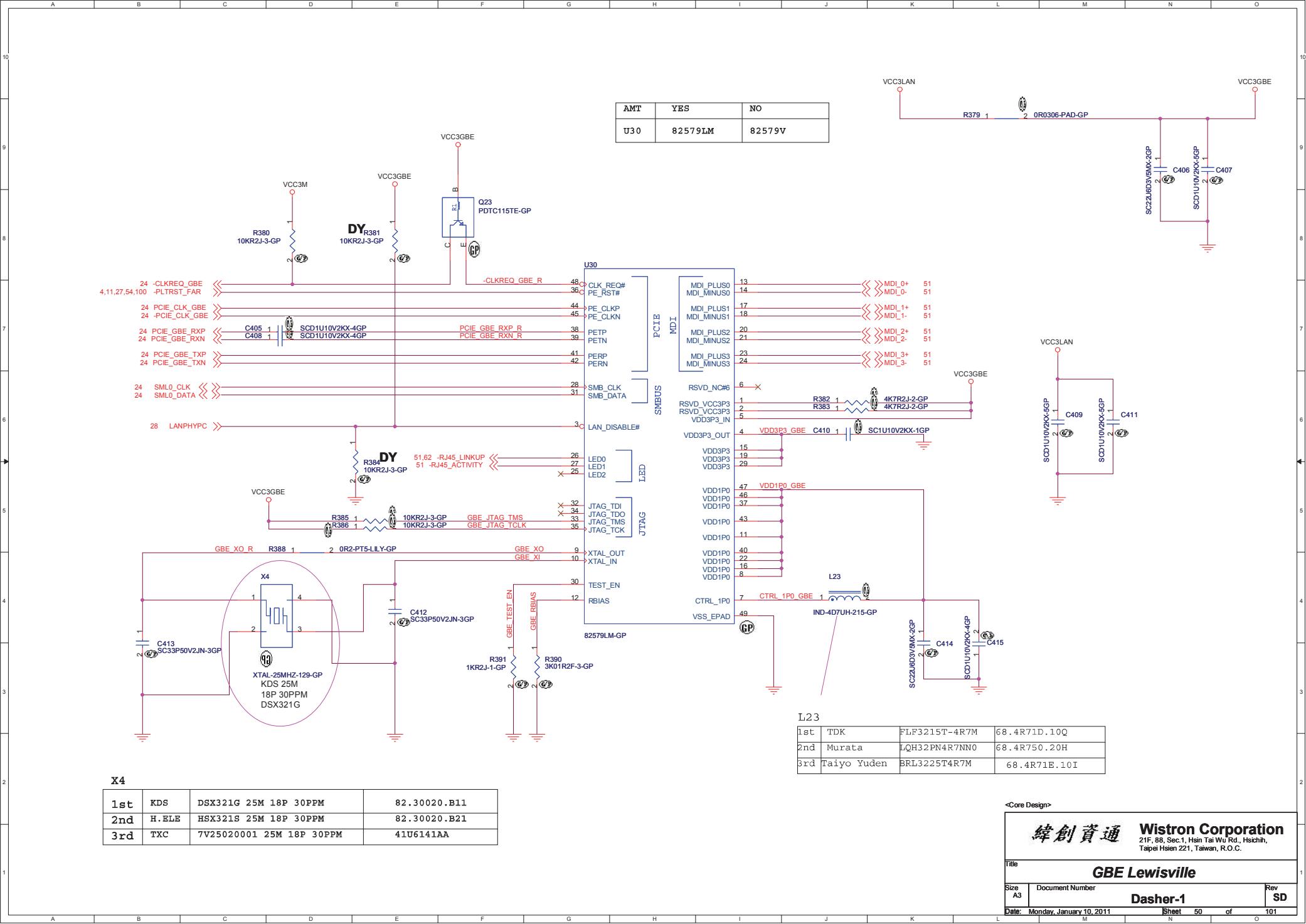


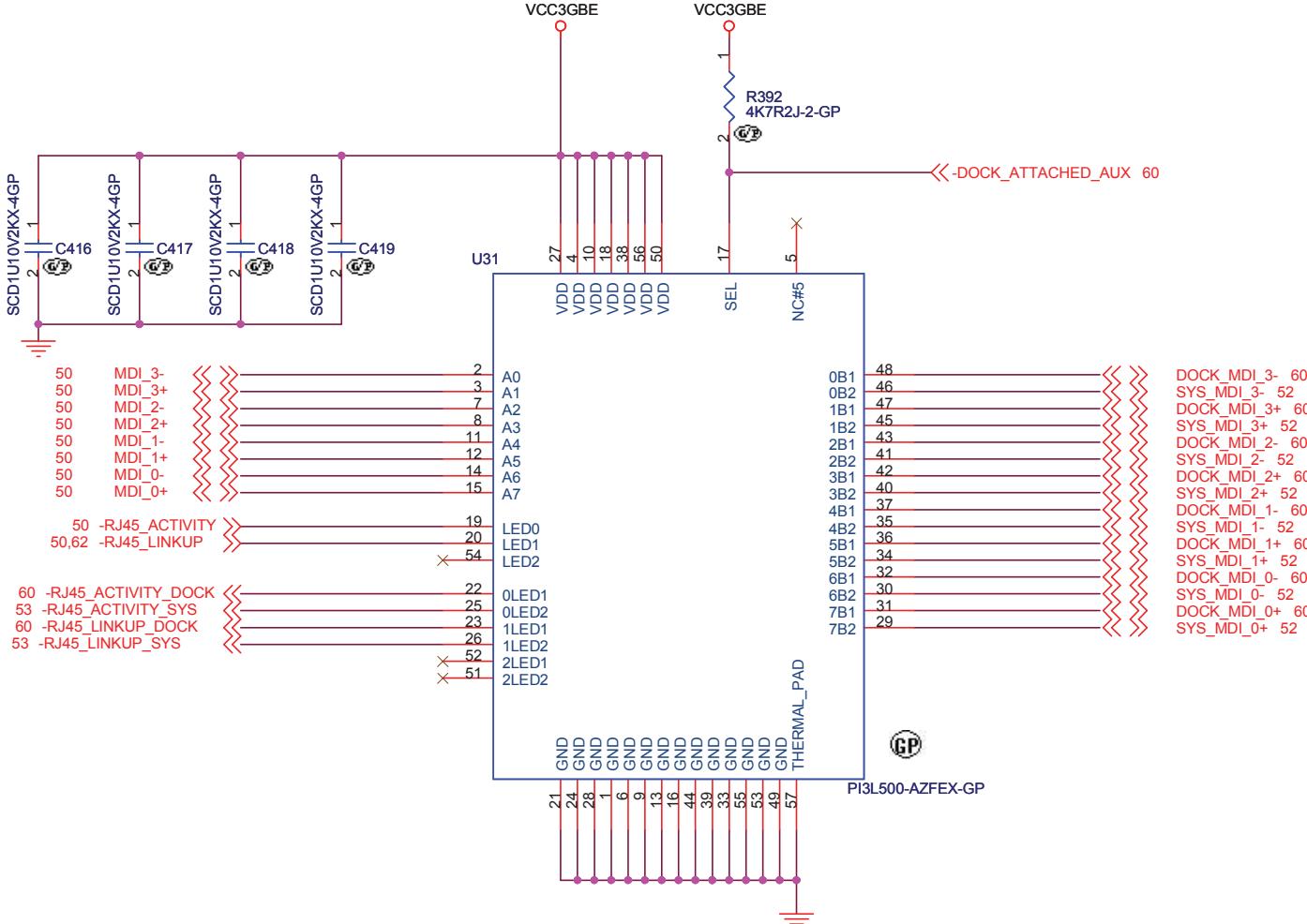
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 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title	
Audio BEEP	
Size A4	Document Number
	Dasher-1
Date: Monday, January 10, 2011	Rev SD
Sheet 48 of 101	

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<Core Design>		
Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Tapei Hsien 221, Taiwan, R.O.C.	緯創資通	
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Size A3	Document Number	Rev SD
	Dasher-1	
Date: Monday, January 10, 2011	Sheet 49	of 101

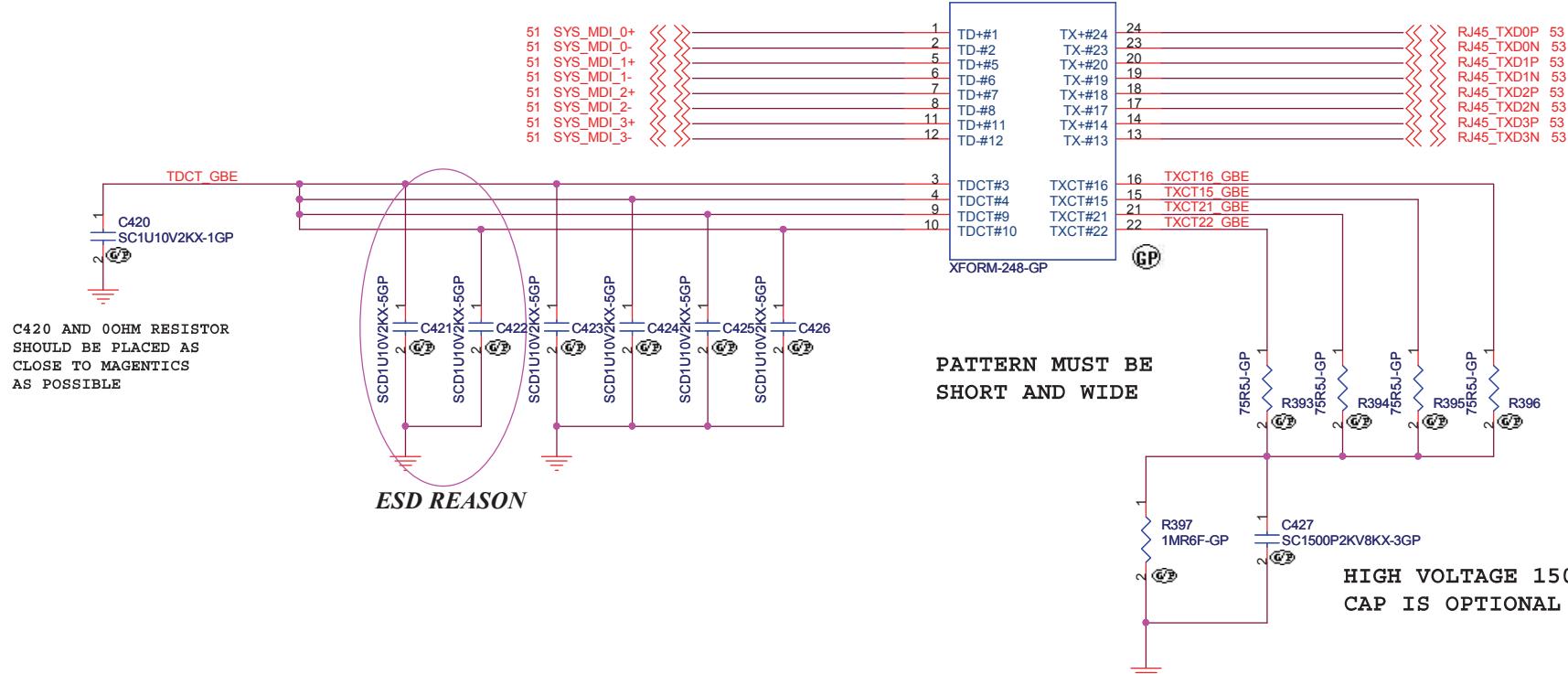




		Vendor P/N	Wistron P/N
1st	Pericom	PI3L500AZFEX	73.3L500.003
2nd	TI	TS3L500AERHUR	73.3L500.A0V
3rd	OnSemi	NS3L500	73.03500.003

<Core Design>

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Title		
GBE LAN Switch		
Size A4	Document Number Dasher-1	Rev SD
Date: Monday, January 10, 2011		Sheet 51 of 101



<Core Design>

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Title

GBE MAGNETICS

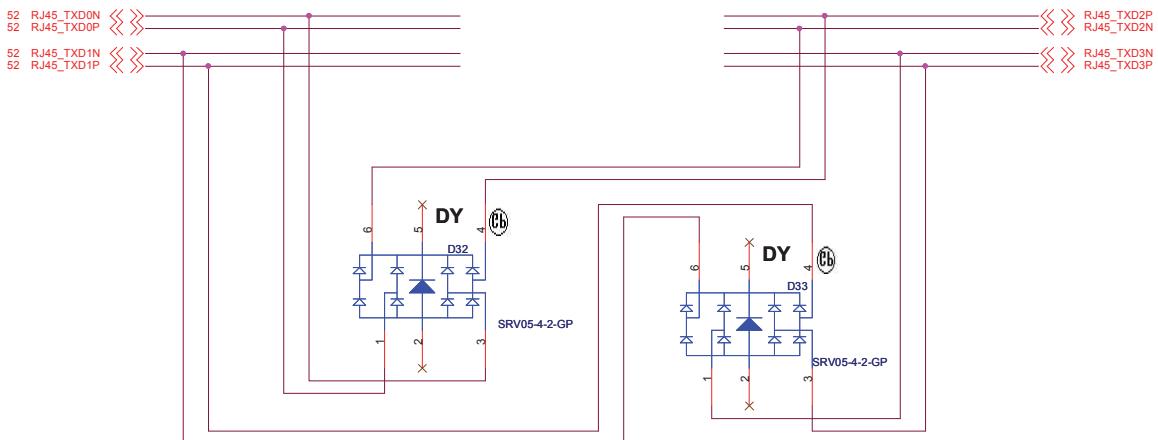
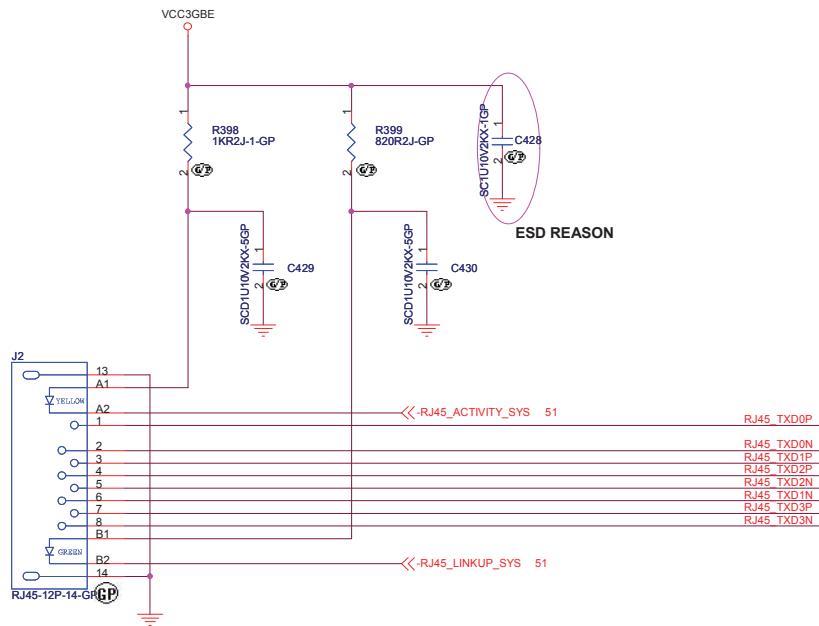
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Dasher-1

Rev
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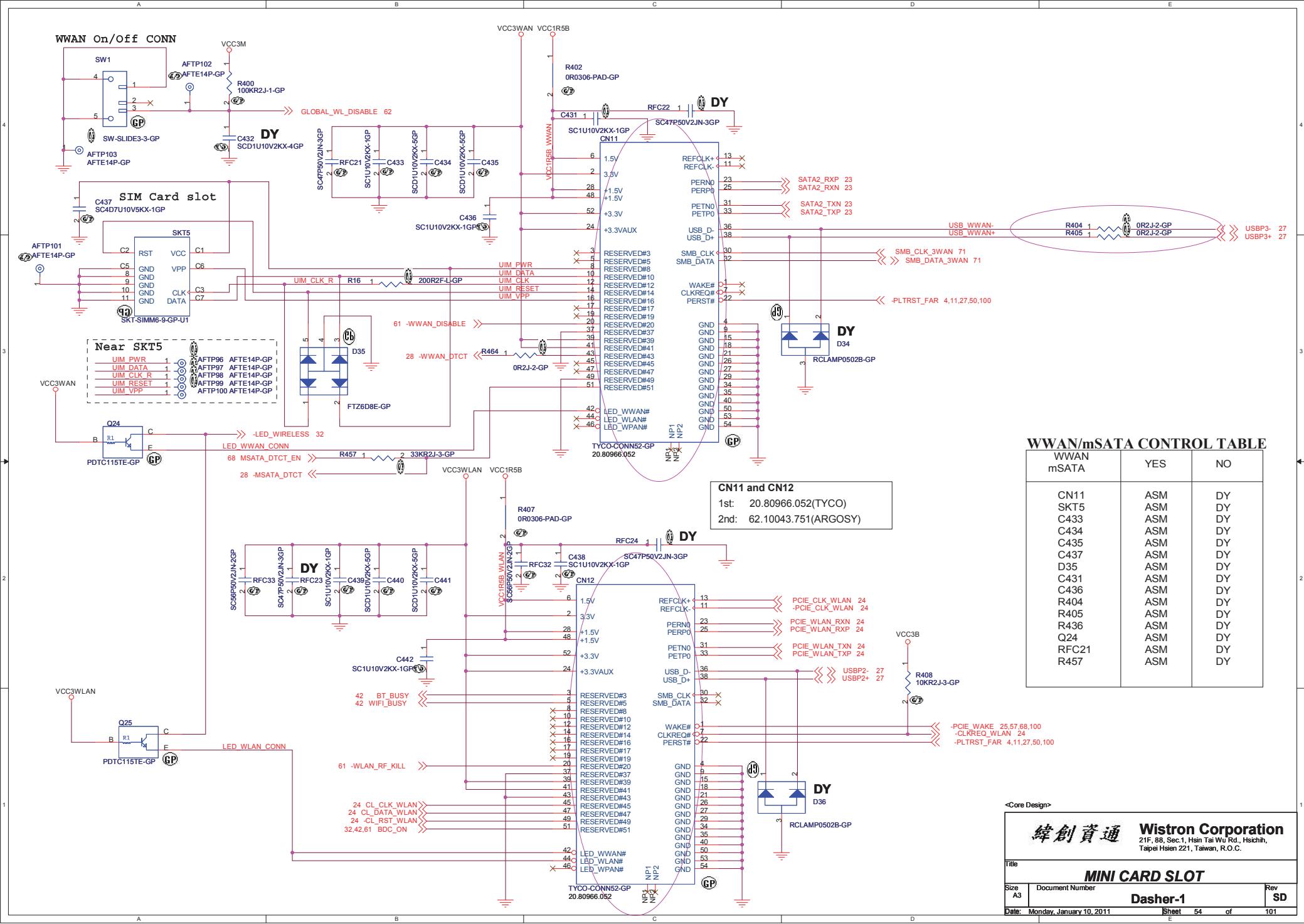
Date: Monday, January 10, 2011

Sheet 52 of 101

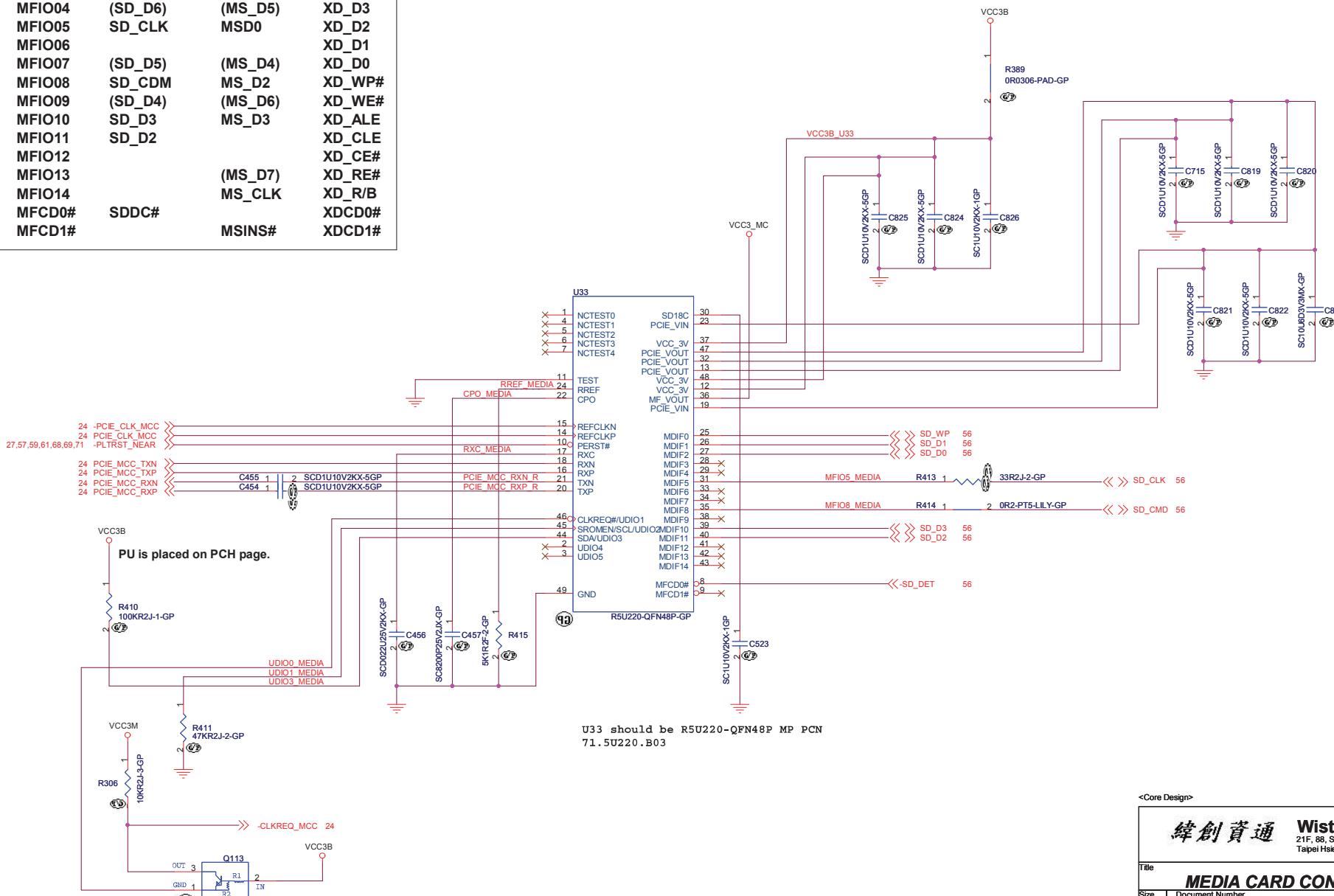


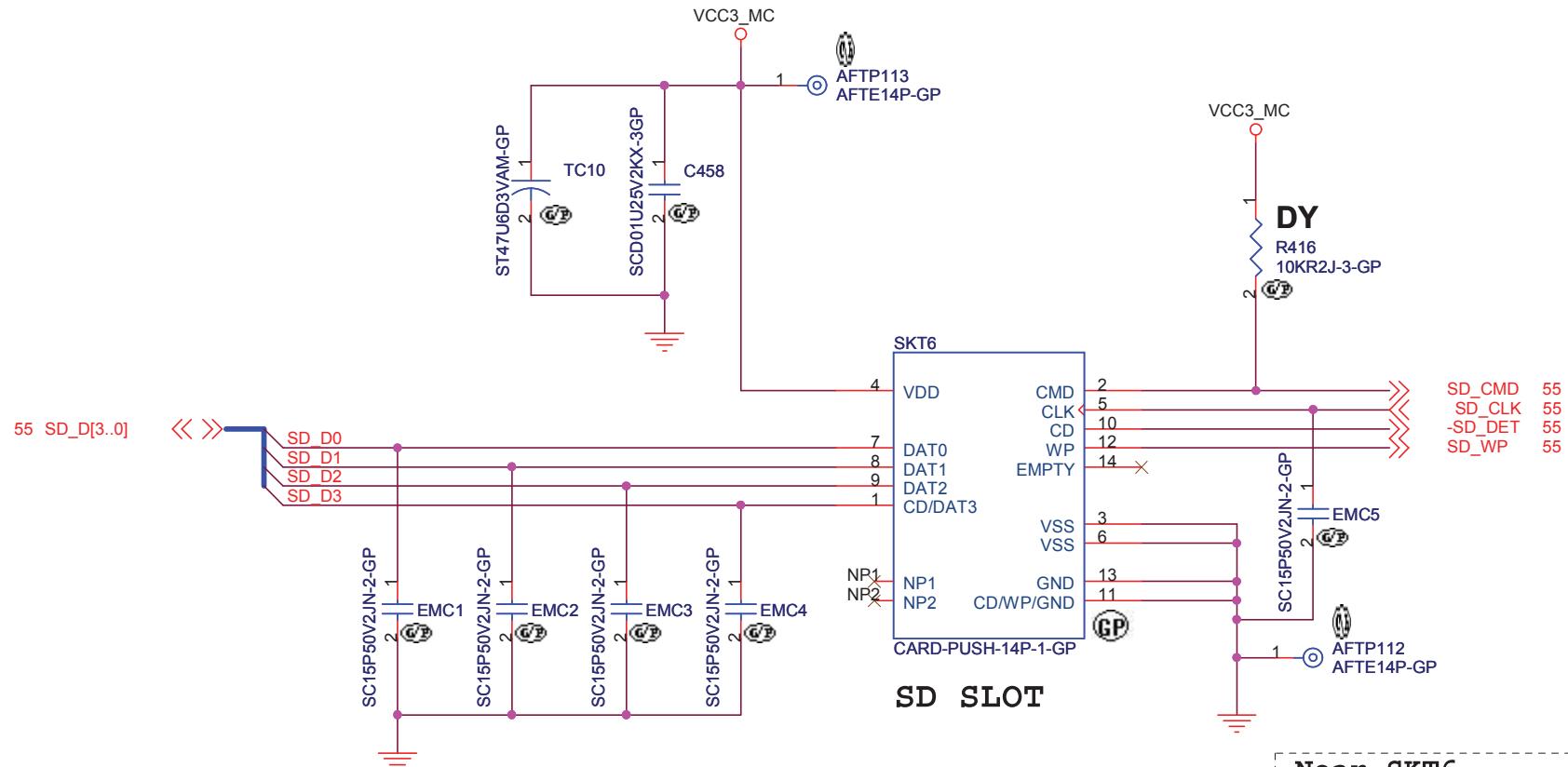
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Title	
Size A3	Document Number Dasher-1
Rev SD	
Date: Monday, January 10, 2011	
Sheet 53	of 101



MEDIA I/F	SD/MMC	MEMORYSTICK	XD
MFIO00	SDWP#	MSBS	XD_D7
MFIO01	SD_D1		XD_D6
MFIO02	SD_D0	MS_D1	XD_D5
MFIO03	(SD_D7)		XD_D4
MFIO04	(SD_D6)	(MS_D5)	XD_D3
MFIO05	SD_CLK	MSD0	XD_D2
MFIO06			XD_D1
MFIO07	(SD_D5)	(MS_D4)	XD_D0
MFIO08	SD_CDM	MS_D2	XD_WP#
MFIO09	(SD_D4)	(MS_D6)	XD_WE#
MFIO10	SD_D3	MS_D3	XD_ALE
MFIO11	SD_D2		XD_CLE
MFIO12			XD_CE#
MFIO13		(MS_D7)	XD_RE#
MFIO14		MS_CLK	XD_R/B
MFC0D#	SDDC#		XDCD0#
MFC01#		MSINS#	XDCD1#





Near SKT6

SD_D0	1	AFTP104 AFTE14P-GP
SD_D1	1	AFTP105 AFTE14P-GP
SD_D2	1	AFTP106 AFTE14P-GP
SD_D3	1	AFTP107 AFTE14P-GP
SD_CMD	1	AFTP108 AFTE14P-GP
SD_CLK	1	AFTP109 AFTE14P-GP
-SD_DET	1	AFTP110 AFTE14P-GP
SD_WP	1	AFTP111 AFTE14P-GP

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Title

Media Card Slot

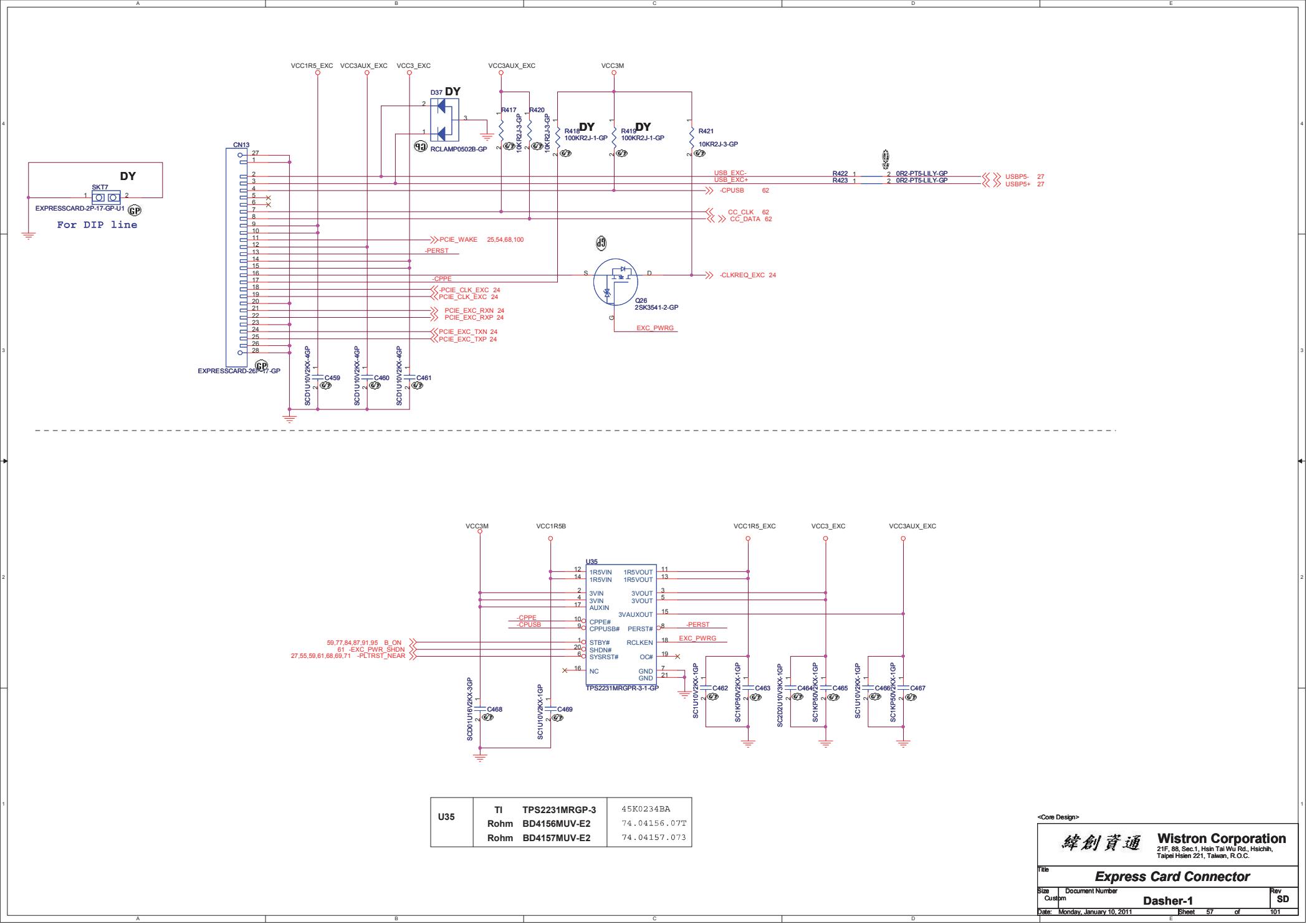
Size A Document Number

Rev SD

Dasher-1

Date: Monday, January 10, 2011

Sheet 56 of 101



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<Core Design>

緯創資通

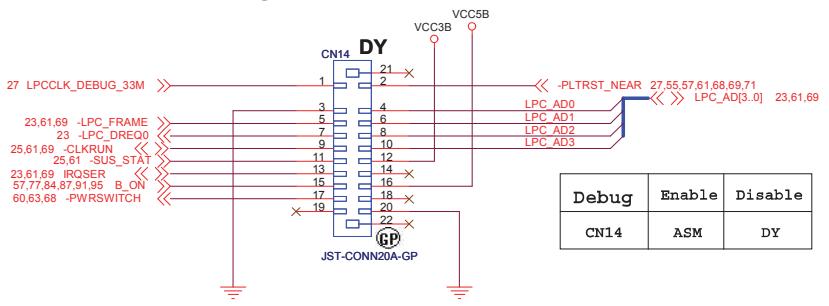
Wistron Corporation
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Title

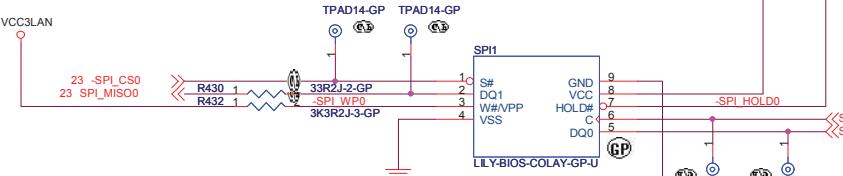
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Size	Document Number	Rev
A	Dasher-1	SD
Date:	Monday, January 10, 2011	Sheet 58 of 101

Debug card connector

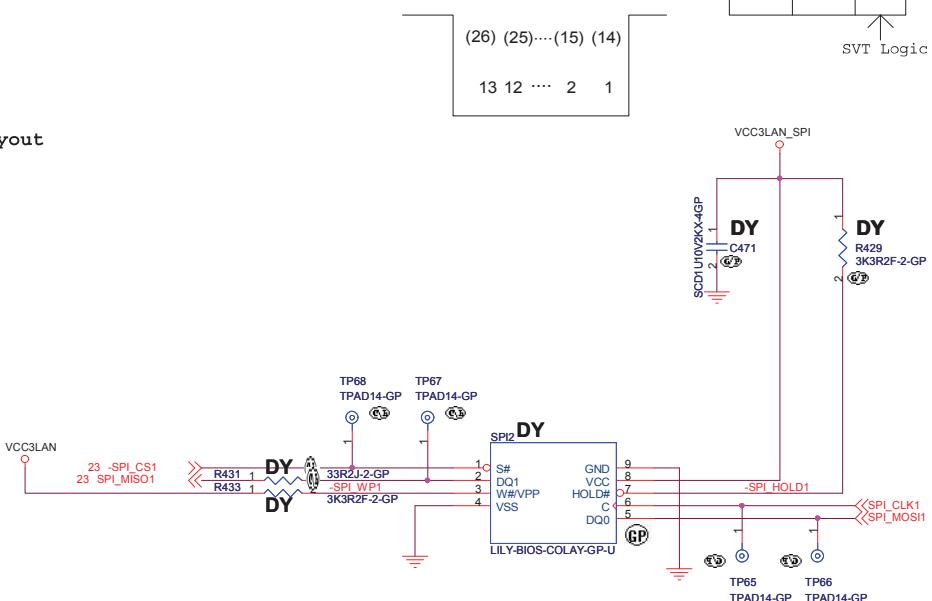
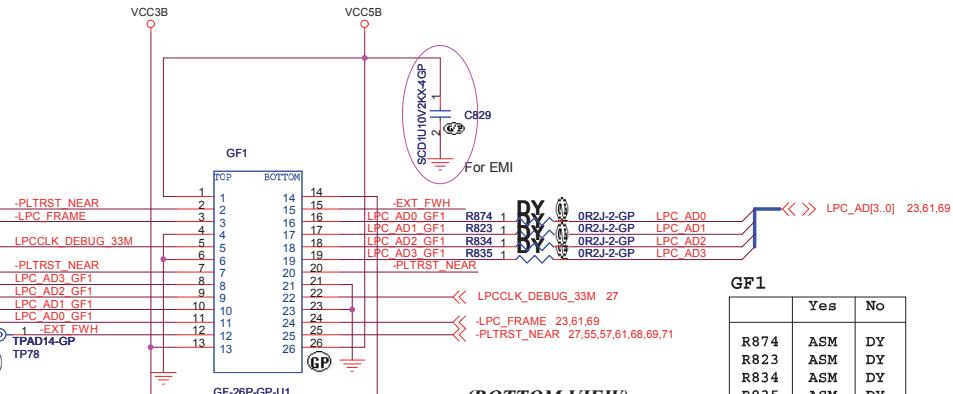


64Mbit SPI FLASH (for vPRO model)		
SO8		
Marcronix	MX25L6436EM2I-10G	72.25643.001
Marcronix	MX25L6406EM2I-10G	
Winbond	W25Q64CVSSIG	72.25Q64.B01
Atmel	AT25DF641 or 641A	72.25641.003
MLP8		
Nuvoton	M25PX64-VMD6TG	72.25P64.E01
Part Number wait confirm		



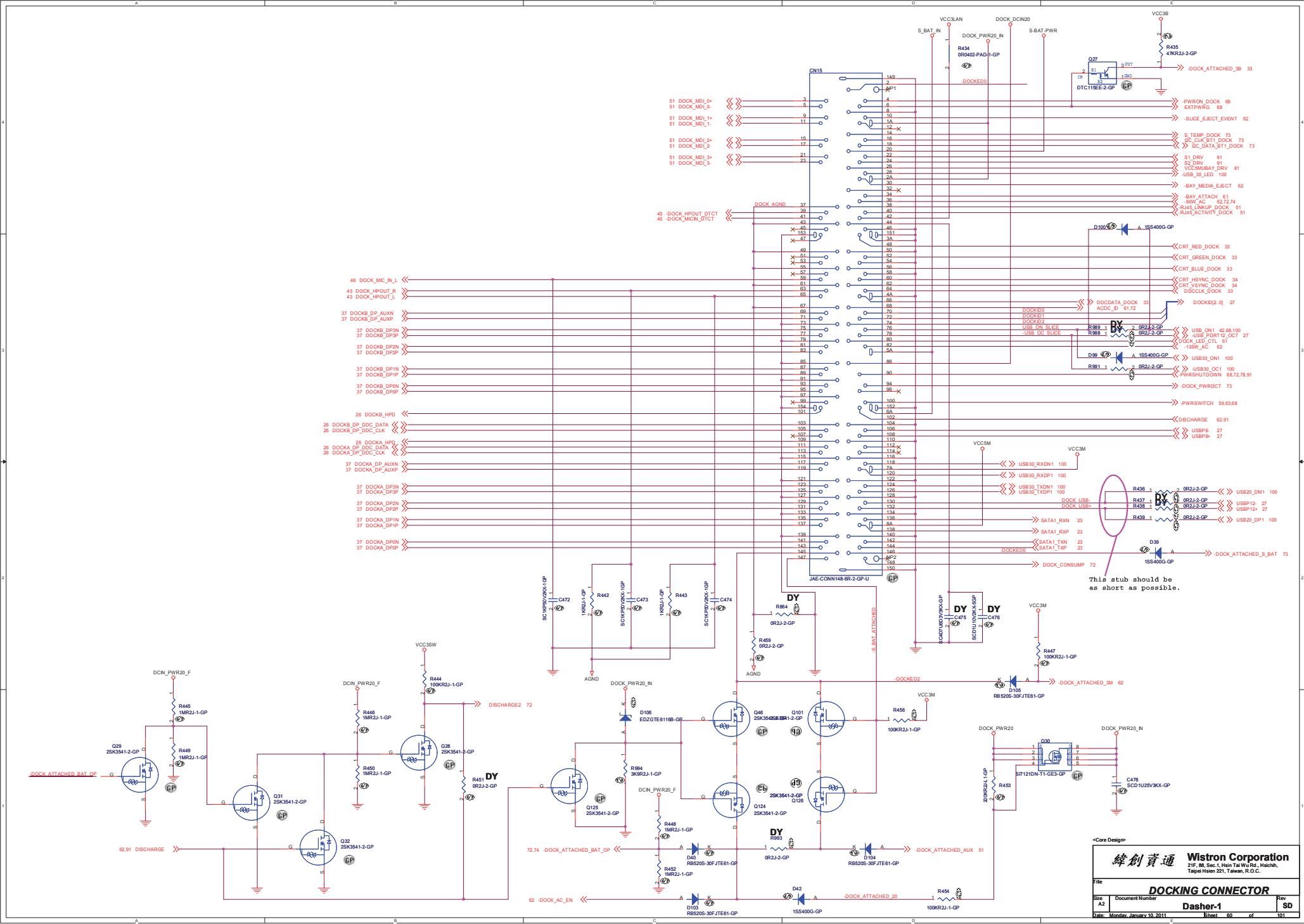
SO8 and WSON8 are both supported!

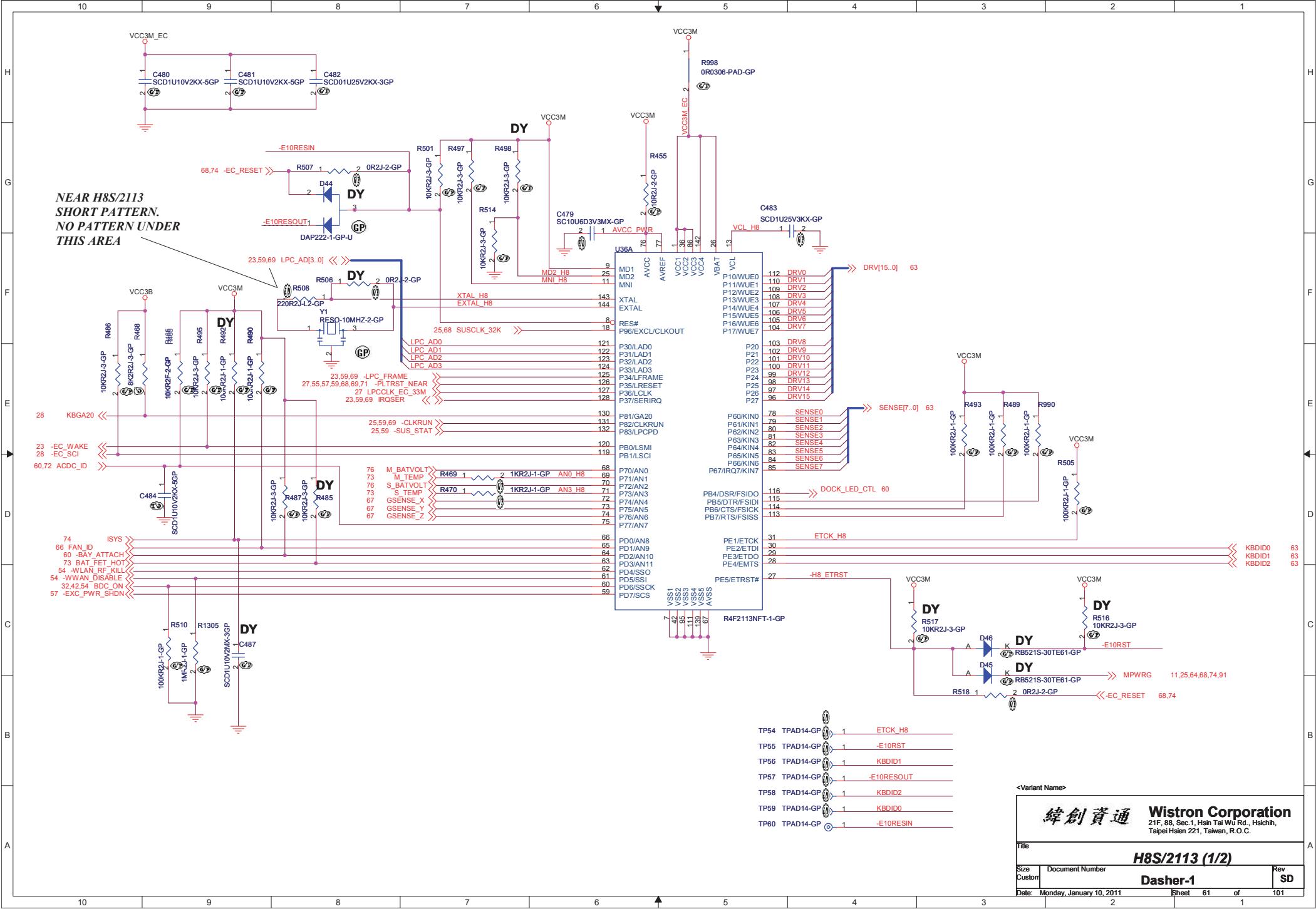
Golden Finger for Debug Board

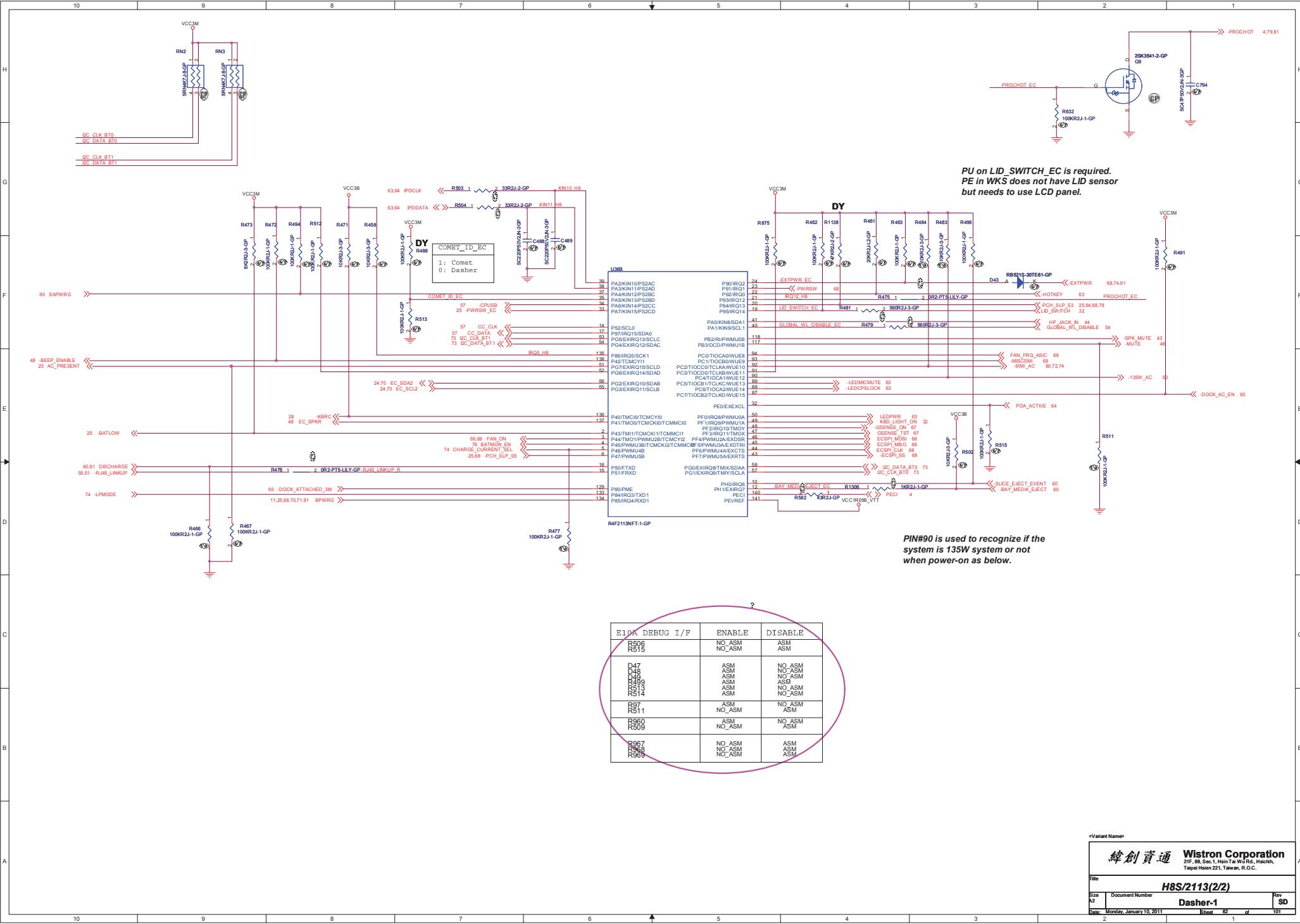


SF 100 PIN HEADER INTERFACE (Top View)

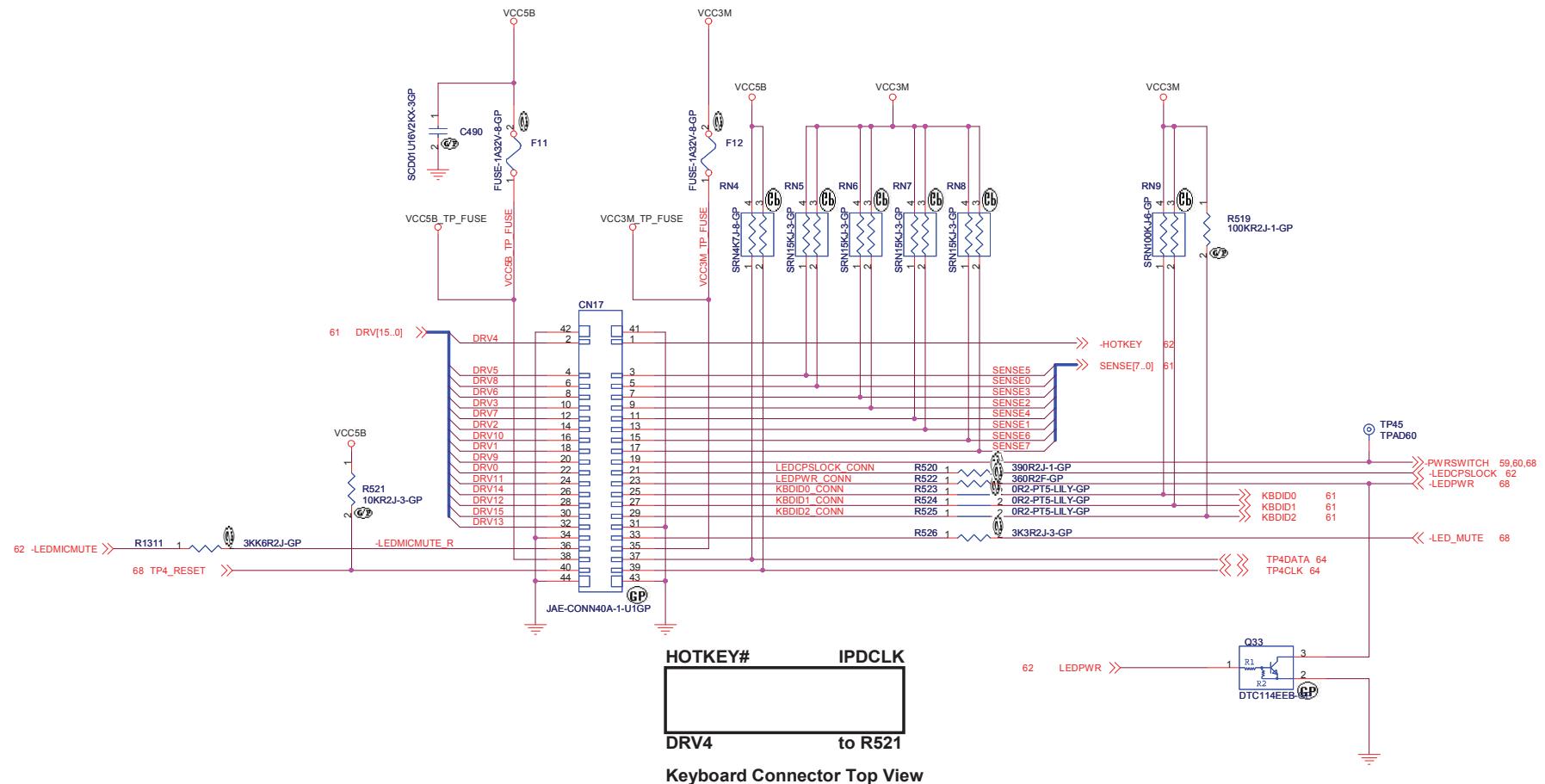
1	VCC	R427.2	GND	GND	2
3	CS#	R148.1	R145.1	CLK	4
5	MISO	R430.2	R151.1	MOSI	6
7	(KEY)	N/A	N/A	(RESET)	8







Keyboard Connector



Near CN17

Near CN17	
DRV4	1 AFT14P-GP AFTP23
DRV5	1 AFT14P-GP AFTP25
DRV8	1 AFT14P-GP AFTP27
DRV6	1 AFT14P-GP AFTP29
DRV3	1 AFT14P-GP AFTP31
DRV7	1 AFT14P-GP AFTP33
DRV2	1 AFT14P-GP AFTP35
DRV10	1 AFT14P-GP AFTP37
DRV1	1 AFT14P-GP AFTP39
DRV9	1 AFT14P-GP AFTP41
DRV11	1 AFT14P-GP AFTP43
DRV14	1 AFT14P-GP AFTP47
DRV12	1 AFT14P-GP AFTP49
DRV15	1 AFT14P-GP AFTP50
DRV13	1 AFT14P-GP AFTP51

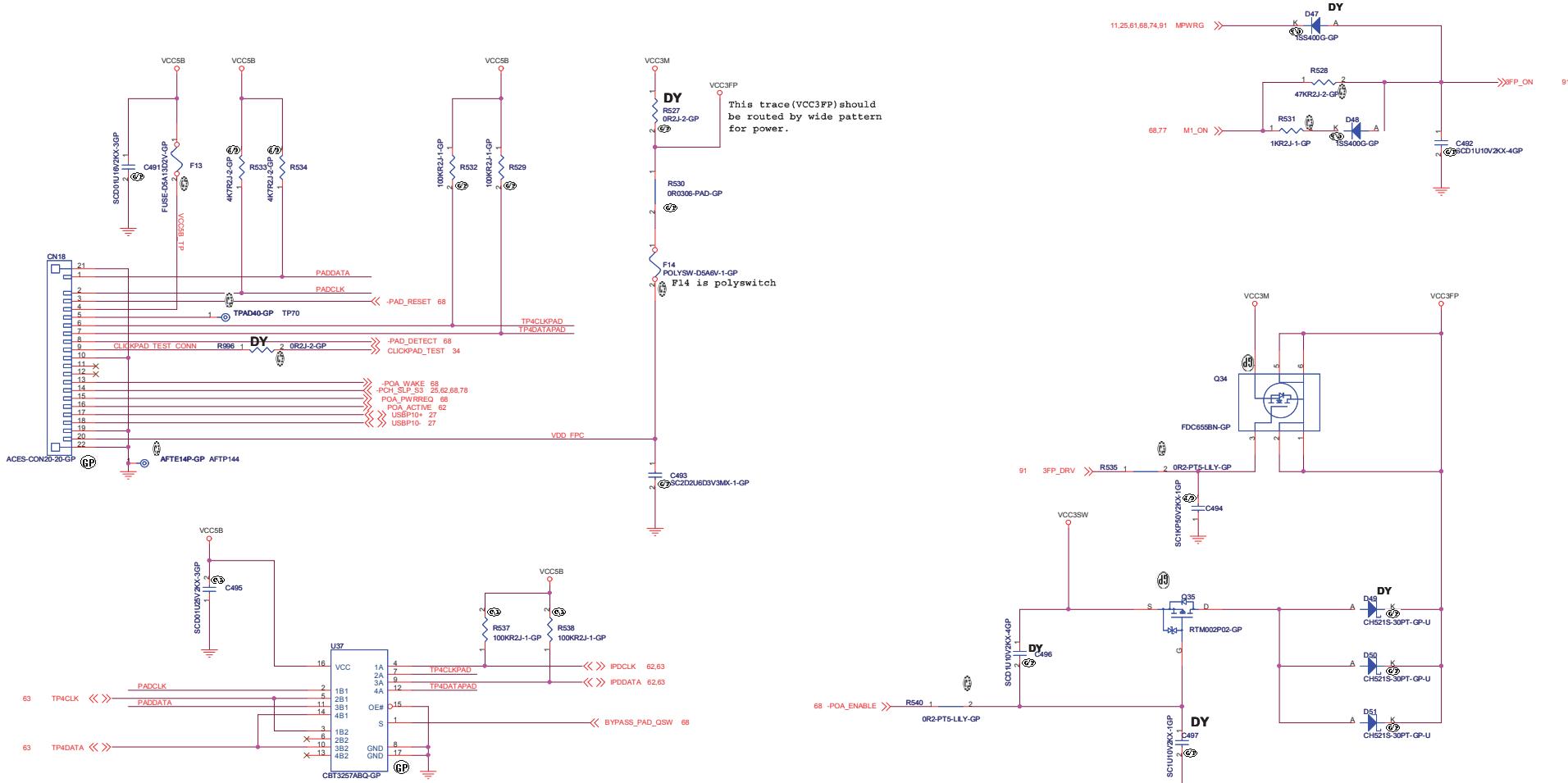
62,64 IPDDATA		62,64 IPDCLK	
SENSE5	1 AFT14P-GP AFTP24	-LEDIMCUTE_R	1 AFT14P-GP AFTP115
SENSE0	1 AFT14P-GP AFTP26	LEDPSLOCK_CONN	1 AFT14P-GP AFTP116
SENSE3	1 AFT14P-GP AFTP28	LED_PWR_CONN	1 AFT14P-GP AFTP117
SENSE2	1 AFT14P-GP AFTP30	LED_MUTE	1 AFT14P-GP AFTP118
SENSE4	1 AFT14P-GP AFTP32		1 AFT14P-GP AFTP119
SENSE1	1 AFT14P-GP AFTP34	KBDID0_CONN	1 AFT14P-GP AFTP120
SENSE6	1 AFT14P-GP AFTP36	KBDID1_CONN	1 AFT14P-GP AFTP121
SENSE7	1 AFT14P-GP AFTP38	KBDID2_CONN	1 AFT14P-GP AFTP122
	1 AFT14P-GP AFTP40	TP4DATA	1 AFT14P-GP AFTP123
	1 AFT14P-GP AFTP42	TP4CLK	1 AFT14P-GP AFTP123
TP4_RESET	1 AFT14P-GP AFTP44		
VCC5B_TP_FUSE	1 AFT14P-GP AFTP46		
HOTKEY	1 AFT14P-GP AFTP48		
VCC3M_TP_FUSE	1 AFT14P-GP AFTP114		

HOTKEY# IPDCLK
 DRV4 to R521

Keyboard Connector Top View

<Core Design>

Fingerprint Reader / Touch PAD



Near CN18	
PADDATA	AFTE14P-GP AFTP124
PADCLK	AFTE14P-GP AFTP125
PAD_RESET	AFTE14P-GP AFTP126
VCCSB 16	AFTE14P-GP AFTP127
TP4CLKPAD	AFTE14P-GP AFTP128
TP4DATA	AFTE14P-GP AFTP129
PAD_DETECT	AFTE14P-GP AFTP130
CLICKPAD TEST CONN	AFTE14P-GP AFTP131
-POA_WAKE	AFTE14P-GP AFTP132
-PCH_SLP_SS	AFTE14P-GP AFTP133
POA_FWREQ	AFTE14P-GP AFTP134
POA_ACTIVE	AFTE14P-GP AFTP135
VDD_FPC	AFTE14P-GP AFTP136

A	B	C	D	E
4				4

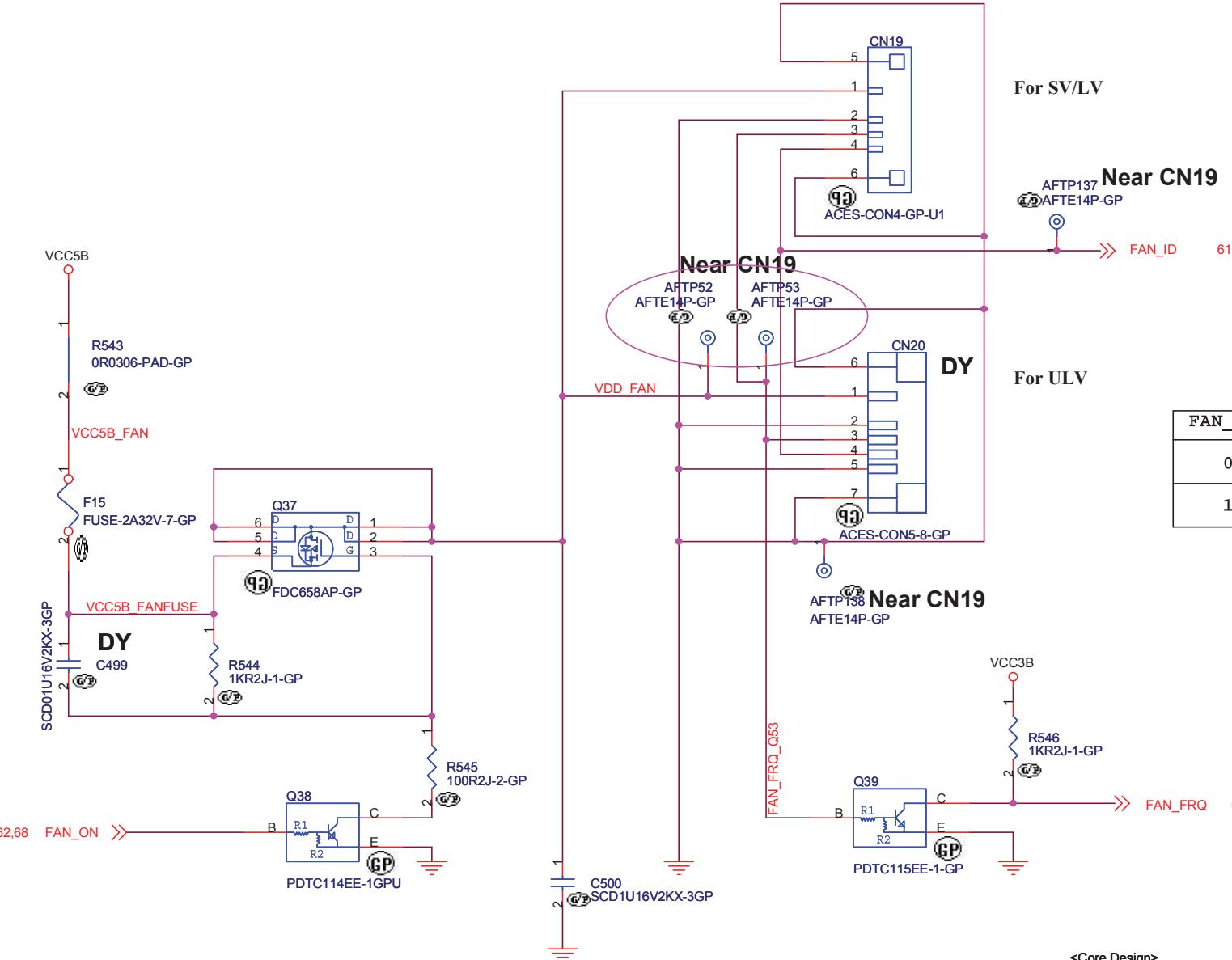
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Title		
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Size A	Document Number	Rev SD
Dasher-1		
Date: Monday, January 10, 2011		Sheet 65 of 101

A	B	C	D	E
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For SV/LV

Near CN19

AFTP137
AFTE14P-GP

>> FAN_ID 61

For ULV

FAN_ID	Thermal module
0	THT
1	AVC or DELTA



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Title

FAN Control

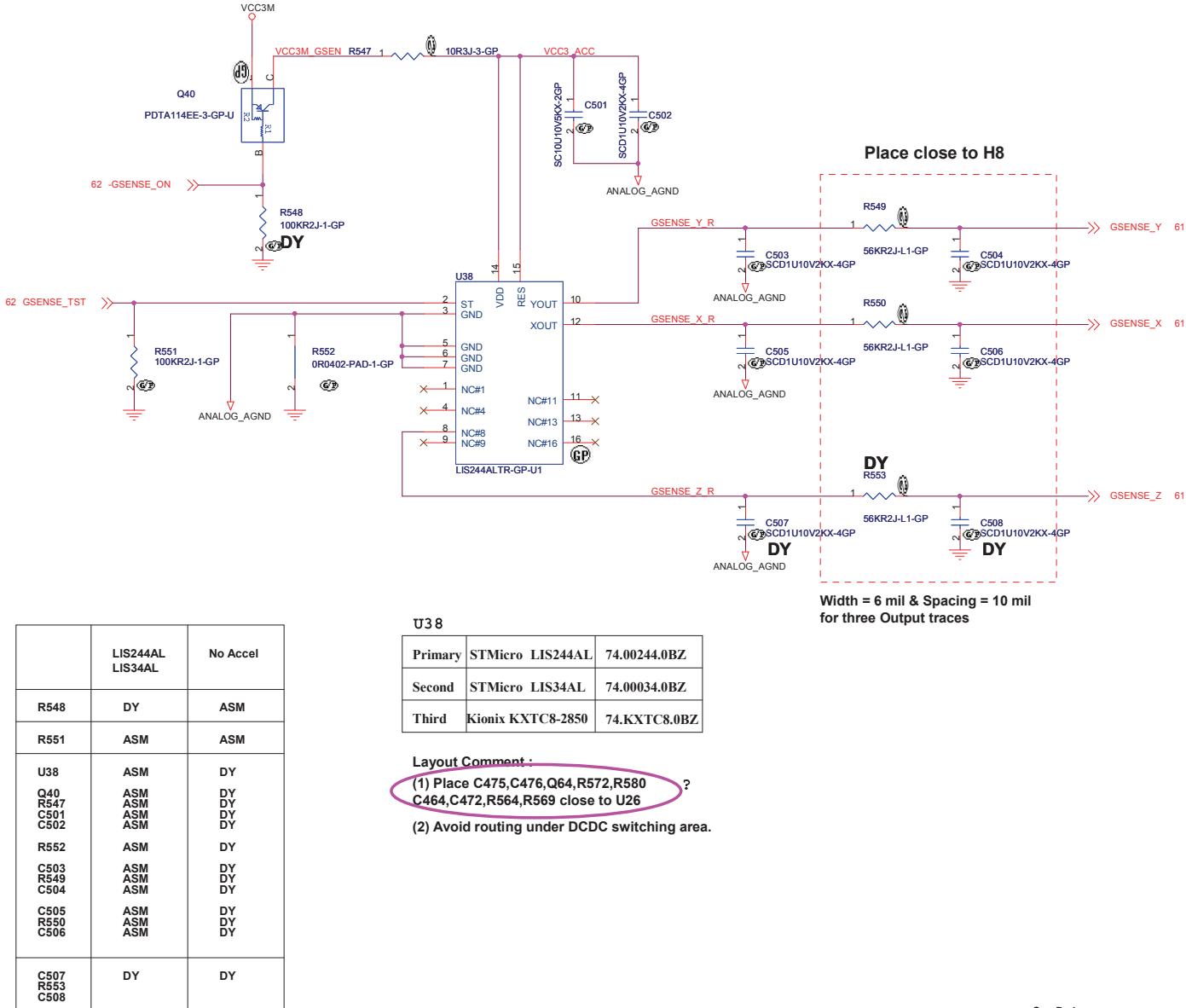
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Rev SD

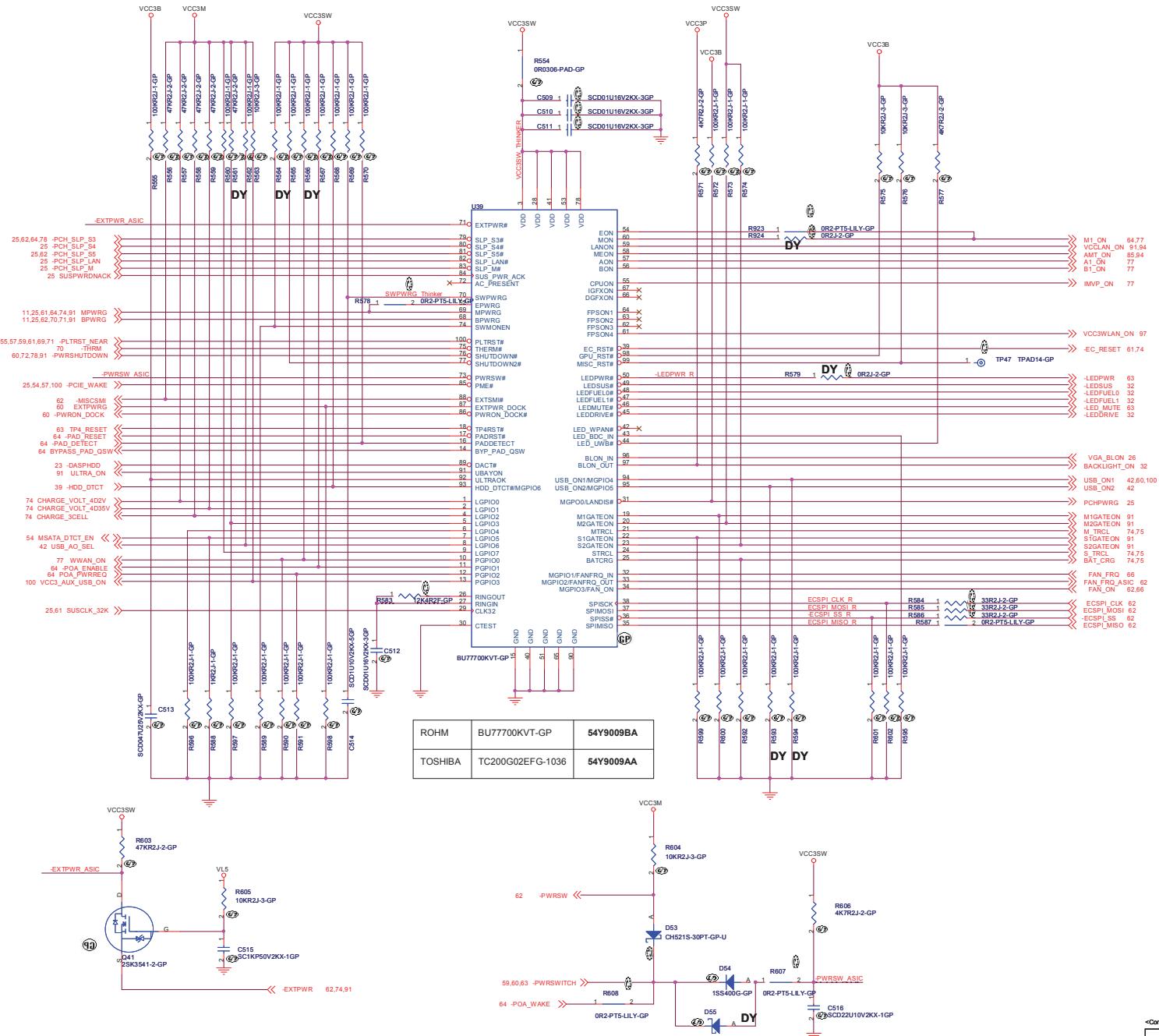
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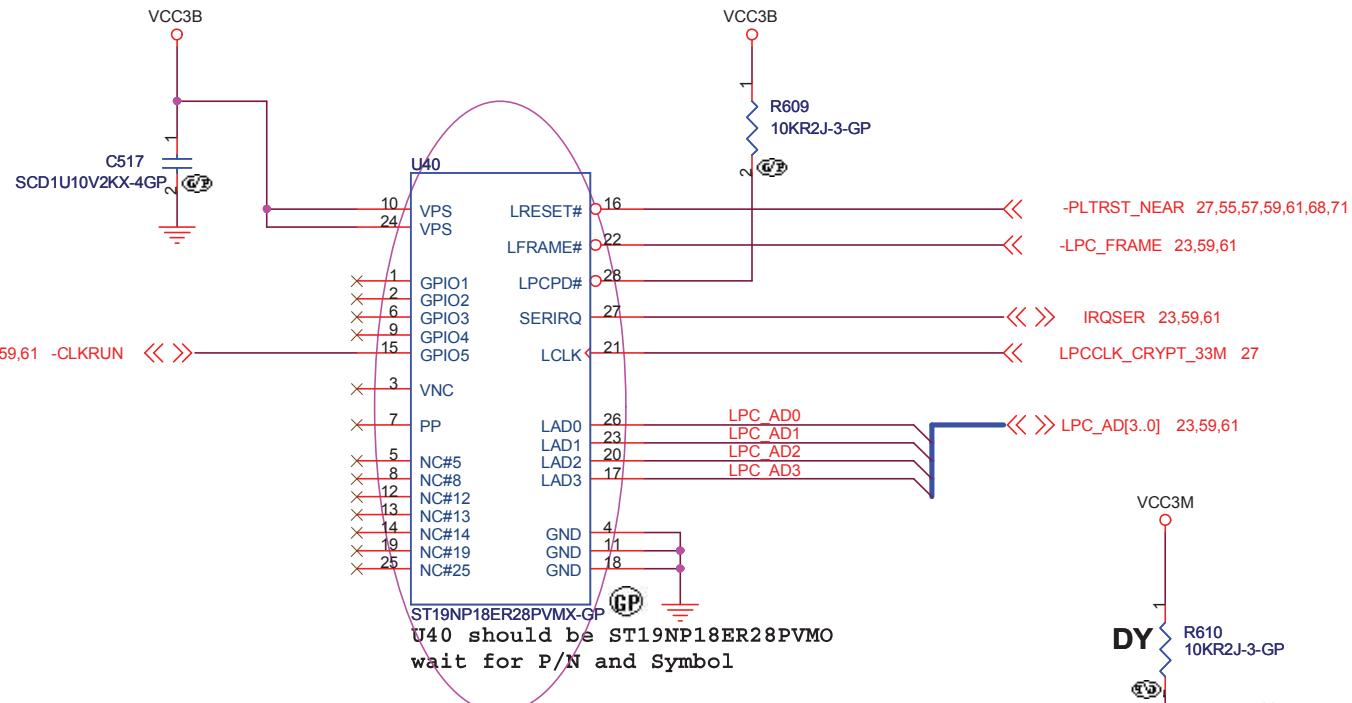
Date: Monday, January 10, 2011

Sheet 66 of 101

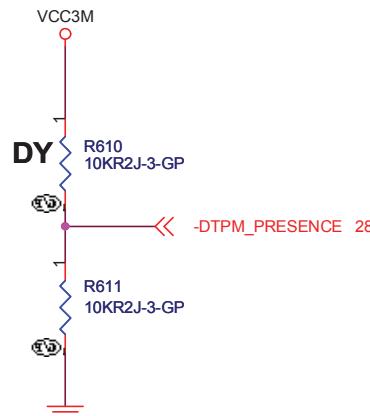


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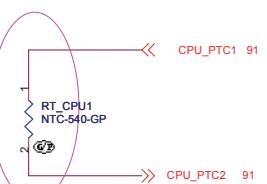


	NO TPM	ST Micro ST19NP18ER28PVMO
U40	DY	ASM
C517	DY	ASM
R609	DY	ASM
R610	ASM	DY
R611	DY	ASM



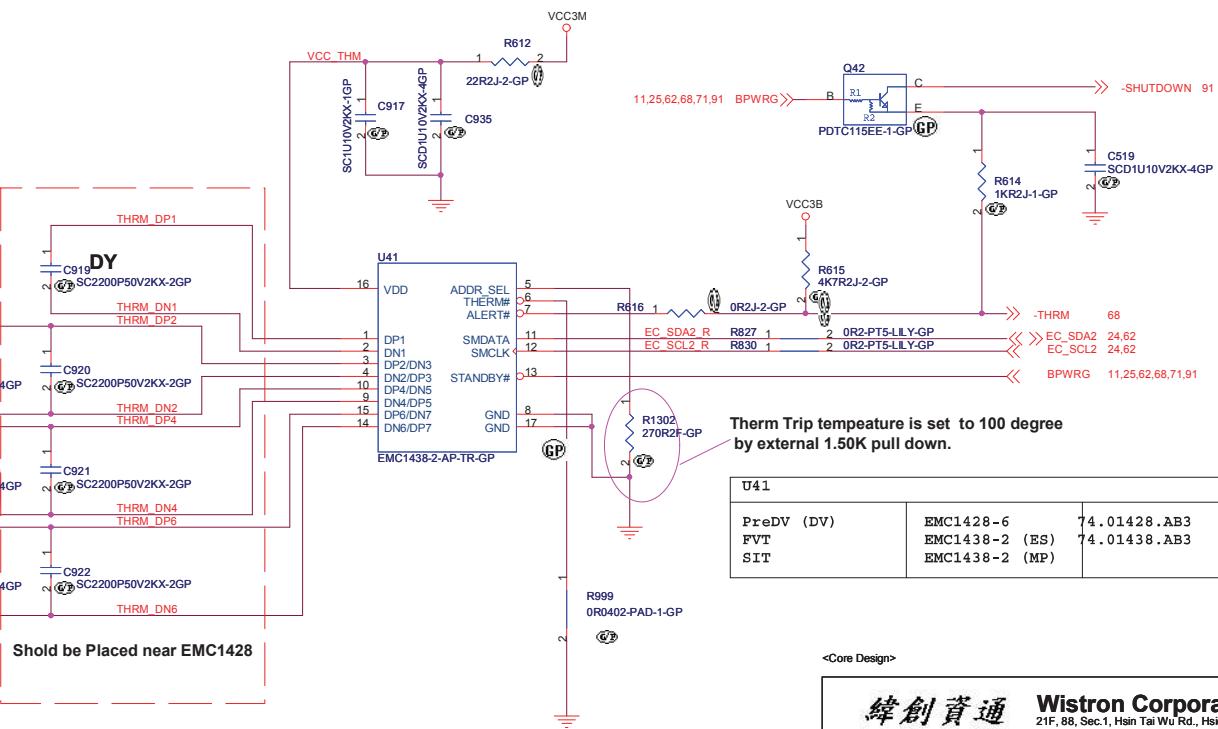
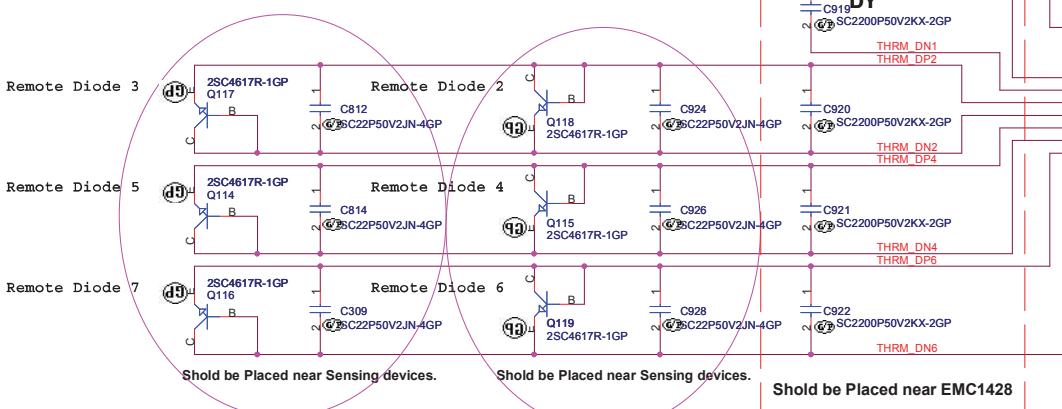
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Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
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Size	Document Number
A4	Dasher-1
Rev	SD
Date:	Monday, January 10, 2011
Sheet	69
of	101



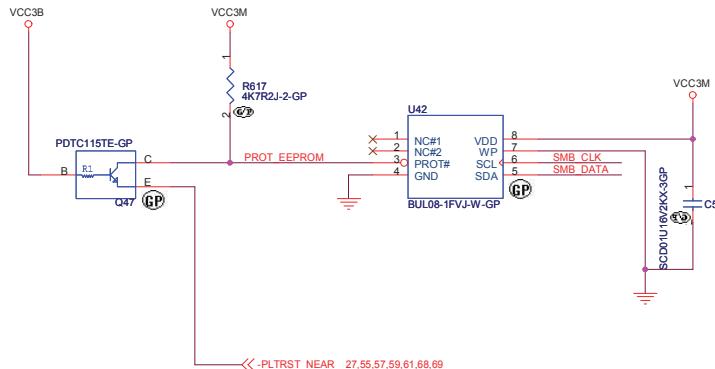
It should be arranged near CPU instead of CPU thermal sensor

Channel	Location
Local	MEMORY
Remote Diode 2	CPU CORE DC/DC
Remote Diode 3	Rear Cover (1R05B_VTT DC/DC)
Remote Diode 4	Base Cover (1R5A DC/DC)
Remote Diode 5	GFXCORE
Remote Diode 6	WWAN
Remote Diode 7	WLAN



<Core Design>

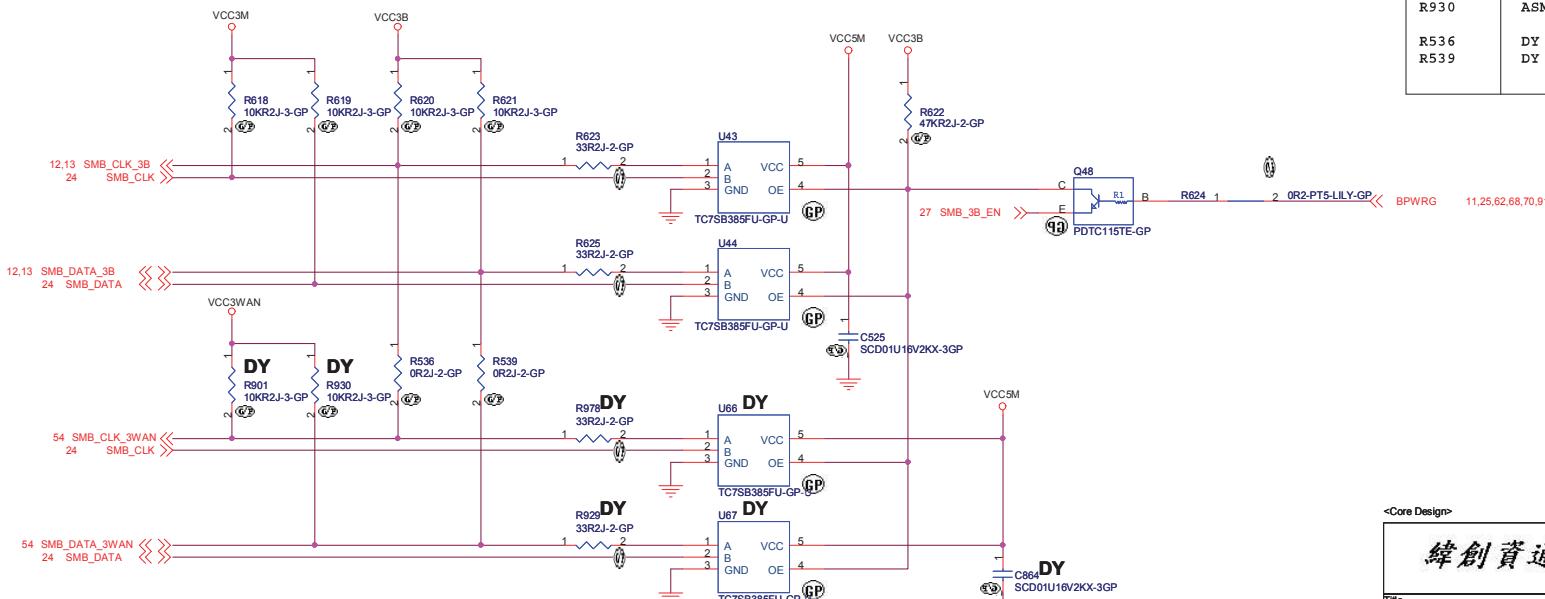
EEPROM



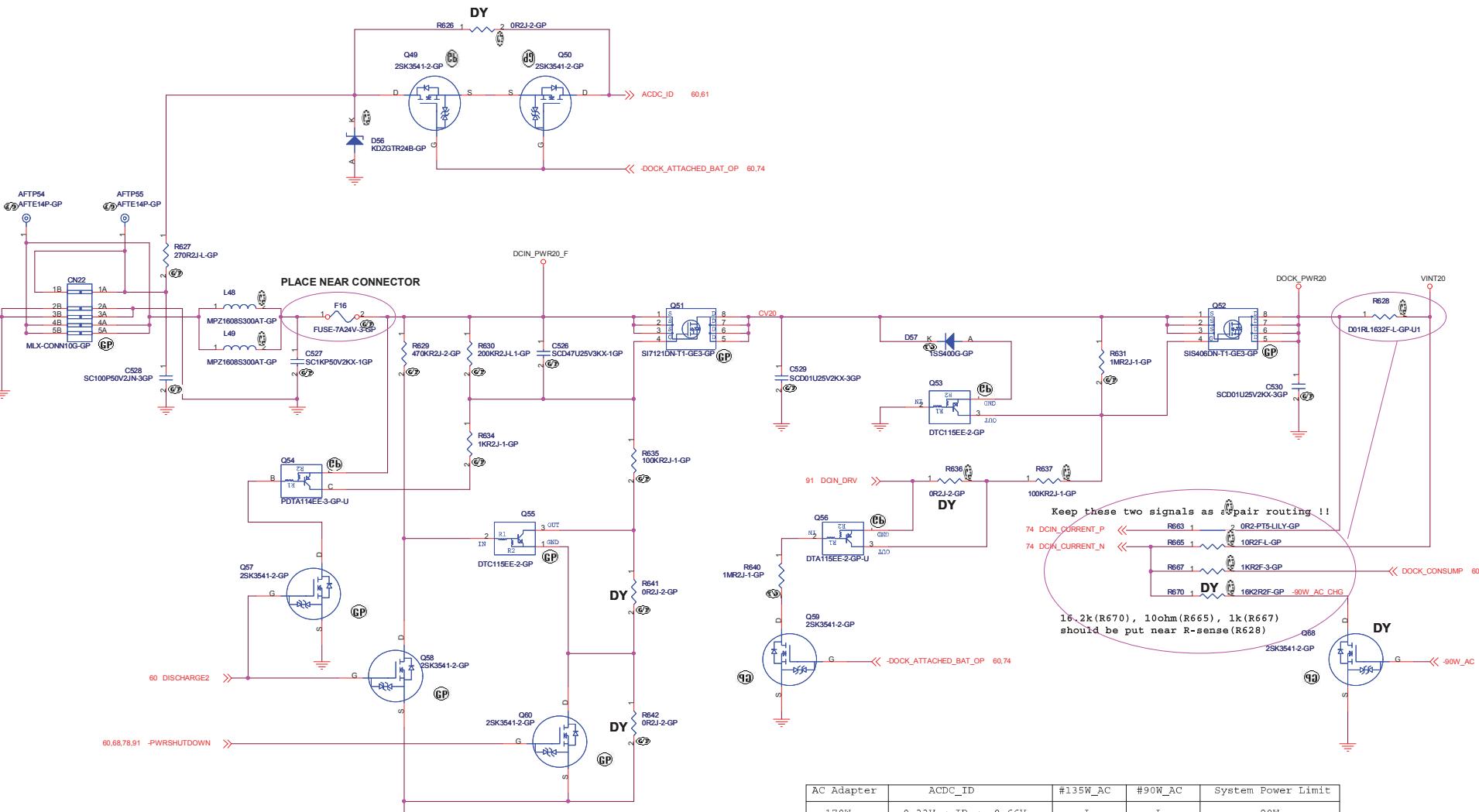
	Vendor	U42	Part Number
1st	ROHM	BUL08-1FVJ-W	72.BUL08.00Q
2nd	PHILIPS	PCA24S08ADP	72.24S08.A0Q
3rd	Sanyo	LE26CAP08TT	72.26C08.00R

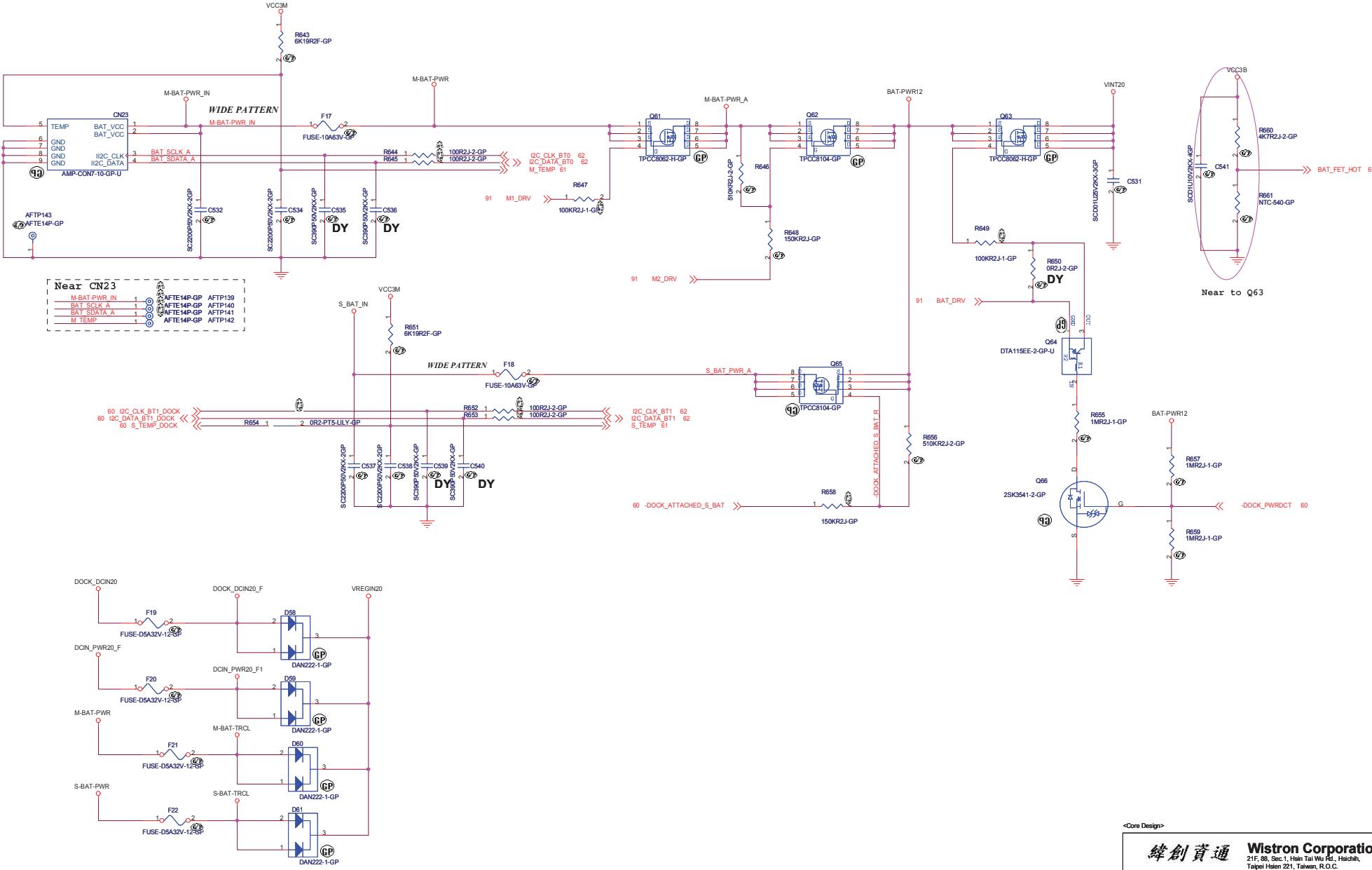
CONSTANT SECURE	YES	NO
U66	ASM	DY
U67	ASM	DY
C864	ASM	DY
R978	ASM	DY
R929	ASM	DY
R901	ASM	DY
R930	ASM	DY
R536	DY	ASM
R539	DY	ASM

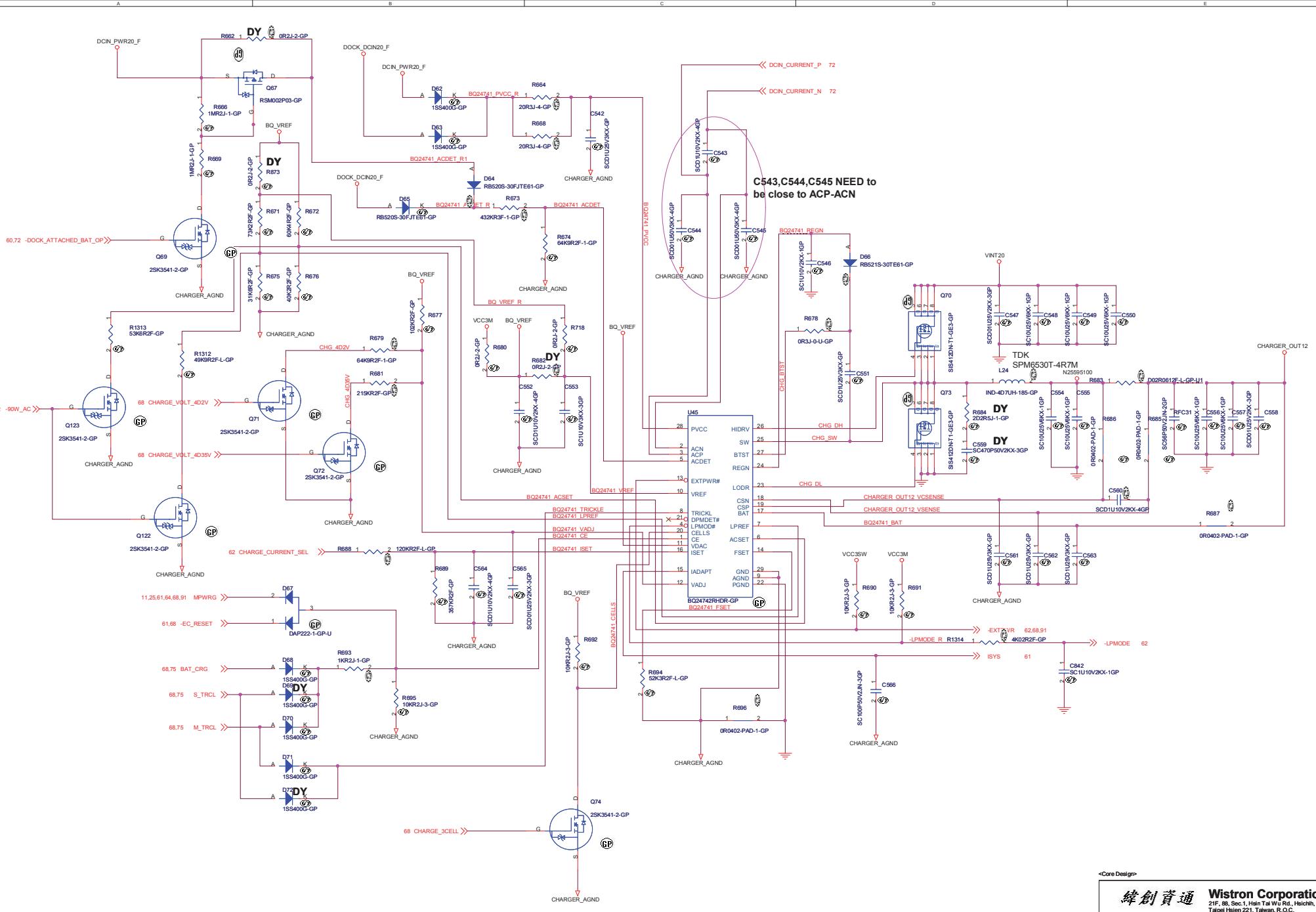
Logic

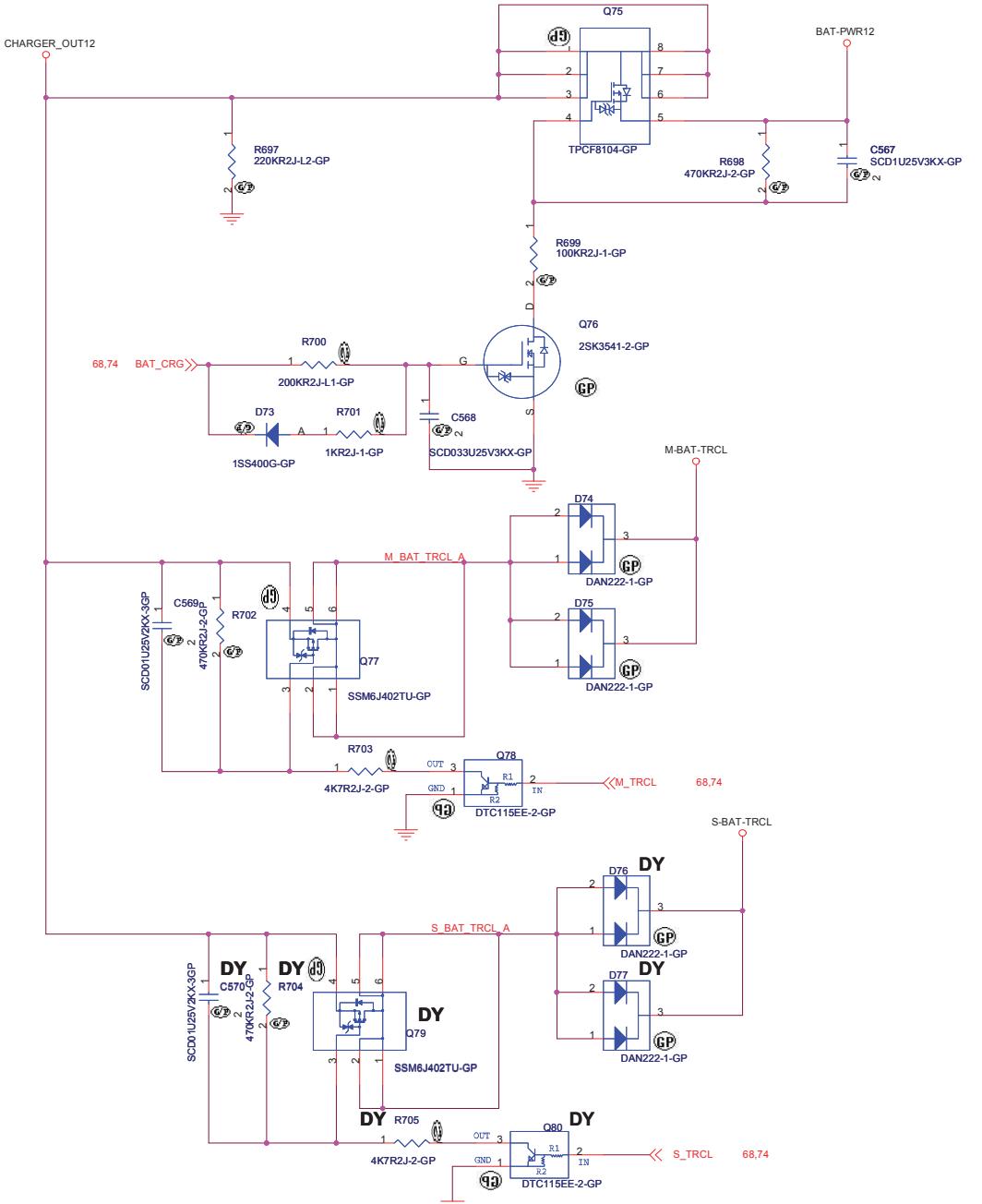


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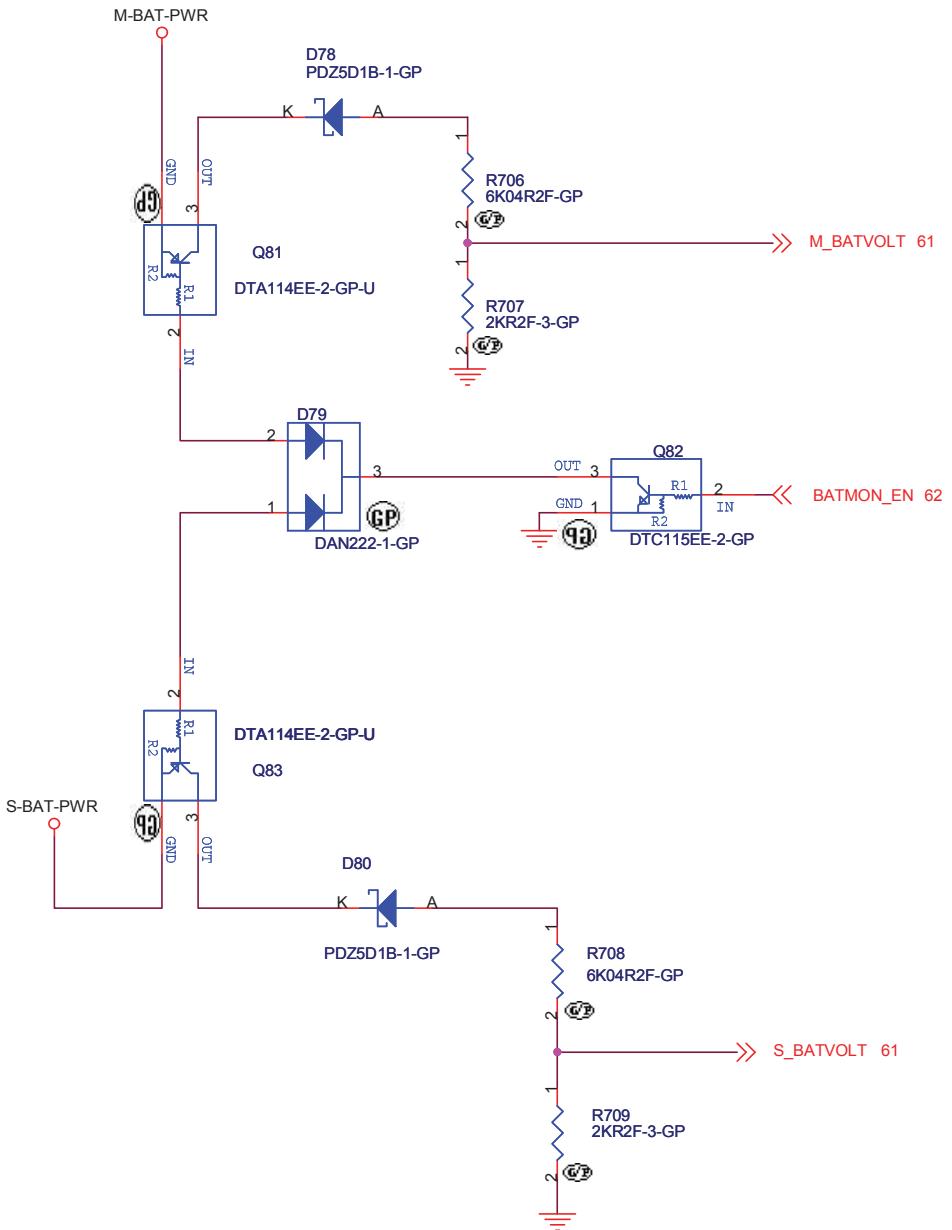




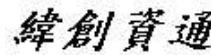
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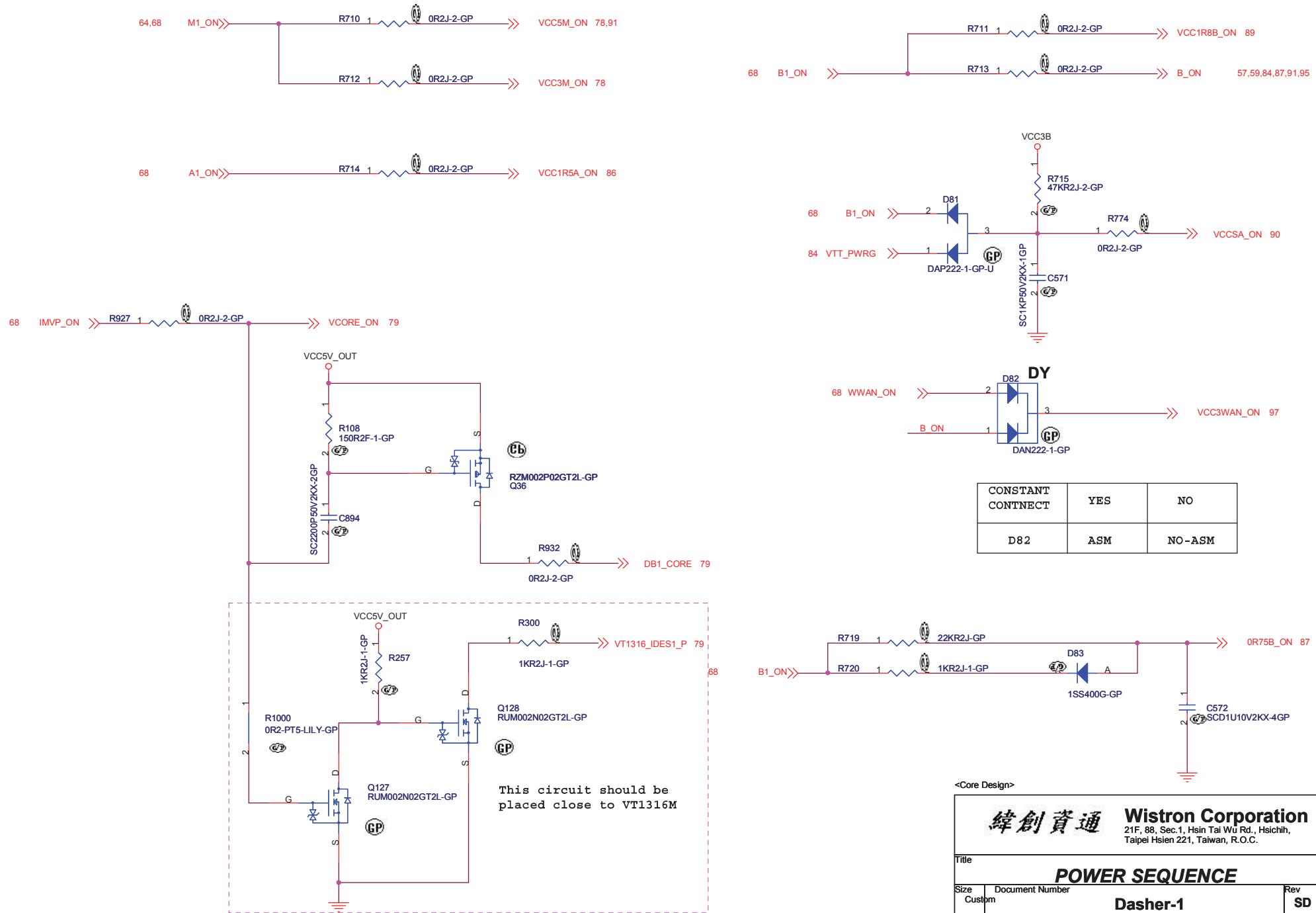
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Title	Document Number	Rev
CHARGER SELECT	Dasher-1	SD
Date: Monday, January 10, 2011	Sheet 1	75 of 101

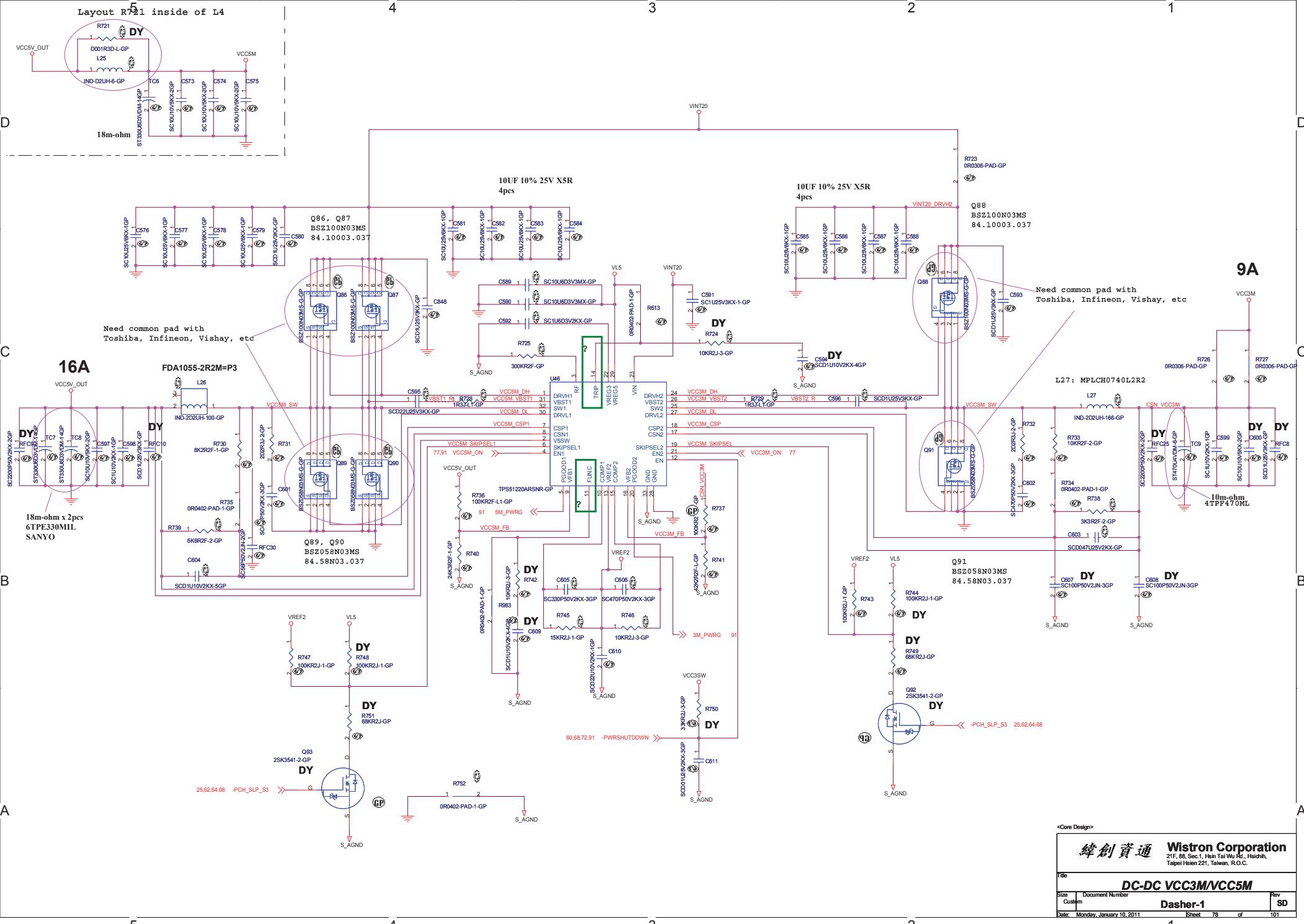
$$V_{OUT} = 0.249 (V_{BAT} - 5)$$

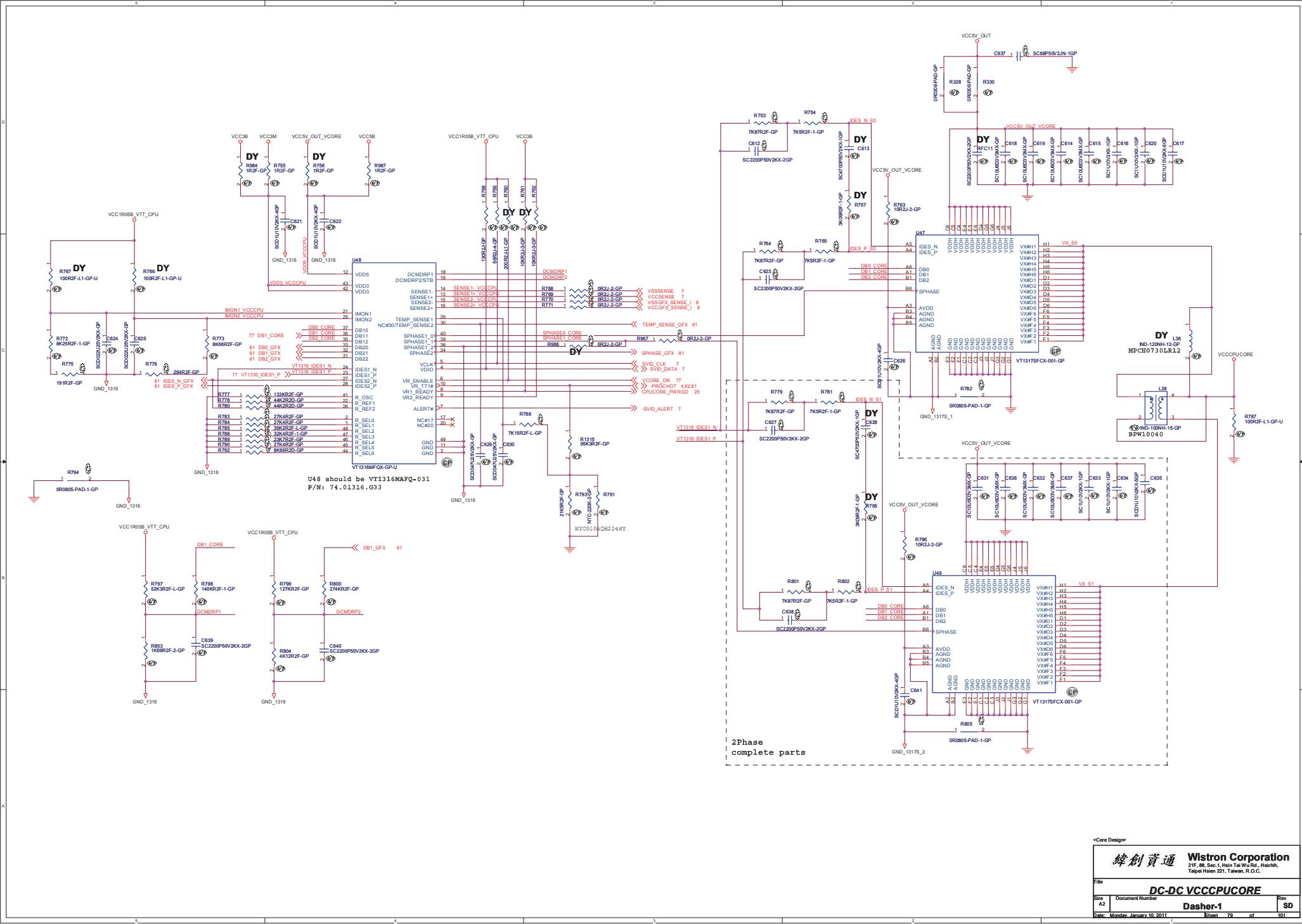


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Title	
Size A4	Document Number
Rev SD	Dasher-1
Date: Monday, January 10, 2011	Sheet 76 of 101





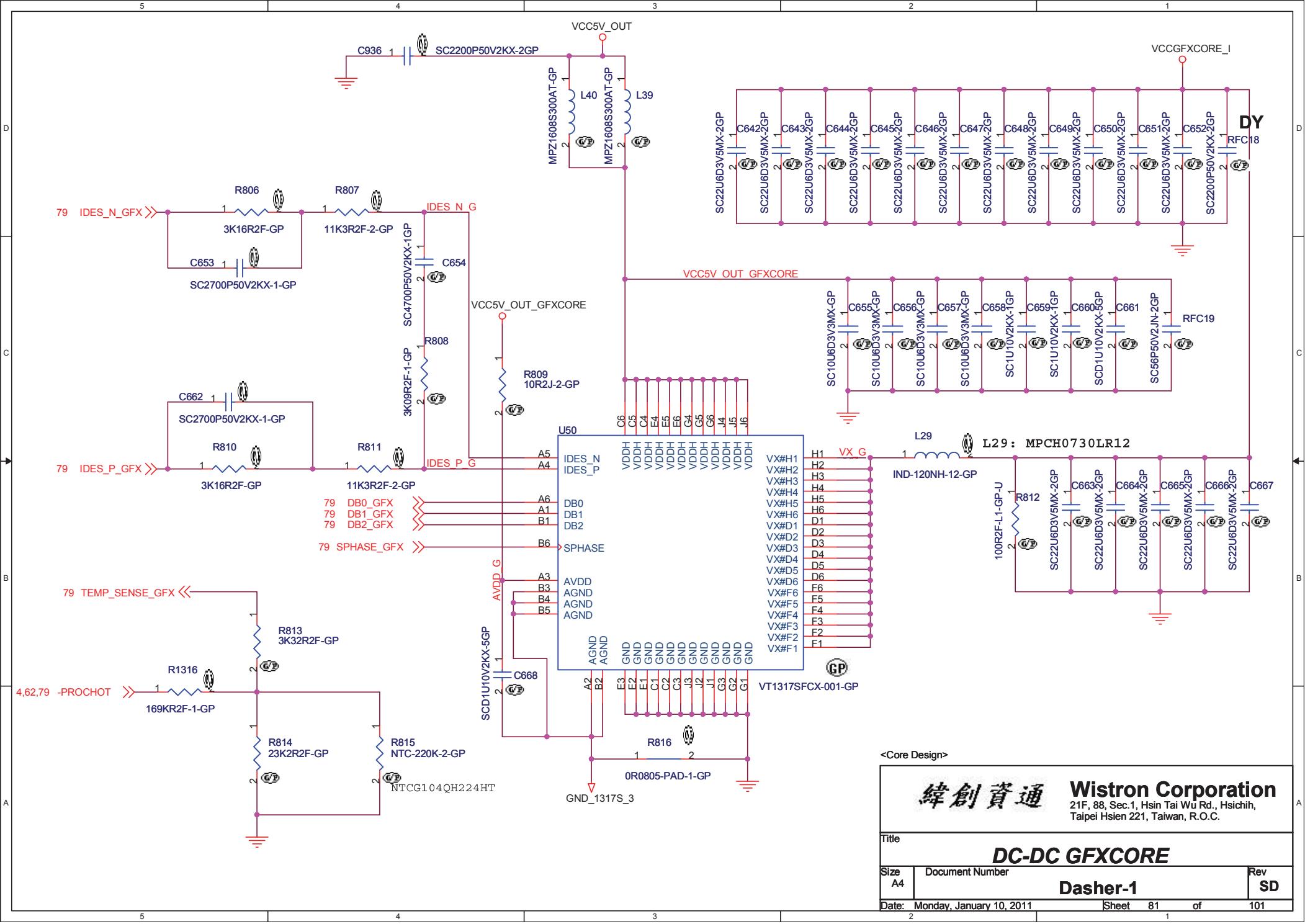


CPU/GFXCORE Table

CPU	SV 2Phase(53A)	LV 2Phase(43A)	ULV 1Phase(33A)	Remark
GFX	GTF1(24A)	GTF2 (33A)	GTF2 (33A) □	
U47	VT1317S	VT1317S	VT1314S	Slave IC
U49	VT1317S	VT1317S	VT1314S	NO_ASM□
R966	NO_ASM	NO_ASM	NO_ASM	NO_ASM
R967	0	0	0	Phase
L36	NO_ASM	NO_ASM	NO_ASM	Inductor
L28	ASM	ASM	ASM	ASM
R783	27.4k	27.4k	39.2k	20.8k R_SEL0
R784	27.4k	27.4k	6.57k	27.4k R_SEL1
R785	39.2k	39.2k	39.2k	39.2k R_SEL2
R786	27.4k	32.4k	32.4k	32.4k R_SEL3
R789	11.4k(0.5%)	23.7k(1%)	23.7k(1%)	23.7k(1%) R_SEL4
R790	27.4k	27.4k	27.4k	27.4k R_SEL5
R792	8.66k(0.5%)	8.66k(0.5%)	8.66k(0.5%)	8.66k(0.5%) R_SEL6
R779	7.87k	7.87k	7.87k	NO_ASM RDES #2
C627	1000pF	1000pF	1000pF	NO_ASM
C628	7.87k	7.87k	7.87k	NO_ASM
R802	7.87k	7.87k	7.87k	NO_ASM
C638	1900pF	1900pF	1900pF	NO_ASM
R802	7.68k	7.68k	7.68k	NO_ASM
C628	4700pF	4700pF	4700pF	NO_ASM
R795	3.09k	3.09k	3.09k	NO_ASM
R772	8.25k	8.25k	10.5k	8.06k TMON1
R775	191	191	165	383□
R773	8.87k	8.66k	8.66k	8.06k TMON2
R776	178	294	294	294□
R798	140k	140k	253k	221k DCMR1
R803	1.69k	1.69k	3.57k	3.16k□
R797	52.3k	52.3k	110k	97.6k□
R800	316k	274k	274k	274k DCMR1(prs)
R804	4.99k	4.12k	4.12k	(drp)
R799	154k	127k	127k	(ofs)
C631	16uF	16uF	16uF	NO_ASM CIN
C636	10uF	10uF	10uF	NO_ASM
C633	1uF	1uF	1uF	NO_ASM
C634	1uF	1uF	1uF	NO_ASM
C635	0.1uF	0.1uF	0.1uF	NO_ASM
C632	10uF	10uF	10uF	NO_ASM
C637	10uF	10uF	10uF	NO_ASM
R786	10	10	10	NO_ASM
C641	0.1uF	0.1uF	0.1uF	NO_ASM
R805	0	0	0	NO_ASM
C684	2.2uF	2.2uF	10uF	10uF Output (1603)
C685	22uF	22uF	10uF	22uF□
C686	22uF	22uF	NO_ASM	22uF□
C687	22uF	22uF	NO_ASM	22uF□
C688	2.2uF	2.2uF	10uF	10uF□
C689	22uF	22uF	NO_ASM	22uF□
C690	22uF	22uF	10uF	22uF□
C691	22uF	22uF	NO_ASM	22uF□
C692	2.2uF	2.2uF	10uF	10uF□
C693	22uF	22uF	10uF	10uF□
C694	22uF	22uF	10uF	22uF□
C695	22uF	22uF	NO_ASM	22uF□
C696	22uF	22uF	10uF	22uF□
C697	22uF	22uF	10uF	22uF□
C698	2.2uF	2.2uF	10uF	10uF□
U50	VT1314S	VT1317S	VT1317S	Slave IC
R806	3.4k	3.16k	3.16k	3.16k RDES G
C653	2700pF	2700pF	2700pF	2700pF
R807	12.4k	11.5k	11.5k	11.5k□
R810	3.4k	3.16k	3.16k	3.16k□
C650	2700pF	2700pF	2700pF	2700pF
R811	12.4k	11.5k	11.5k	11.5k□
C654	4700pF	4700pF	4700pF	4700pF
R808	3.09k	3.09k	3.09k	3.09k□
C642	22uF	22uF	22uF	Output
C643	22uF	22uF	22uF	22uF
C644	22uF	22uF	22uF	22uF
C645	22uF	22uF	22uF	22uF
C646	22uF	22uF	22uF	22uF
C647	22uF	22uF	22uF	22uF
C648	22uF	22uF	22uF	22uF
C649	22uF	22uF	22uF	22uF
C650	22uF	22uF	22uF	22uF
C651	22uF	22uF	22uF	22uF
C652	22uF	22uF	22uF	22uF
C663	22uF	22uF	22uF	22uF
C664	22uF	22uF	22uF	22uF
C665	22uF	22uF	22uF	22uF
C666	22uF	22uF	22uF	22uF
C667	22uF	22uF	22uF	22uF
C20	10uF	22uF	22uF	22uF
C21	10uF	10uF	10uF	10uF
C22	10uF	22uF	22uF	22uF
C23	10uF	22uF	22uF	22uF
C933	10uF	22uF	22uF	22uF
C934	10uF	10uF	10uF	10uF

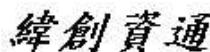
CPU	SV 2Phase(53A)	LV 2Phase(43A)	ULV 1Phase(33A)	Remark
R754	7.5k	7.5k	7.5k	6.98k□ IDES (CPU)
R765	7.5k	7.5k	7.5k	6.98k□
R781	7.5k	7.5k	7.5k	NO_ASM□
R802	7.5k	7.5k	7.5k	NO_ASM□
R803	3.16k	3.16k	3.16k	3.16k□
R810	3.16k	3.16k	3.16k	3.16k□
R807	11.3k	11.3k	11.3k	8.06k□
R811	11.3k	11.3k	11.3k	8.06k□
C654	4700pF	4700pF	4700pF	NO_ASM□
R808	3.09k	3.09k	3.09k	NO_ASM□

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Title	
Size	Document Number
A4	Dasher-1
Rev	SD
Date:	Monday, January 10, 2011
Sheet	82
of	101

B
L
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<Core Design>

緯創資通

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Dasher-1

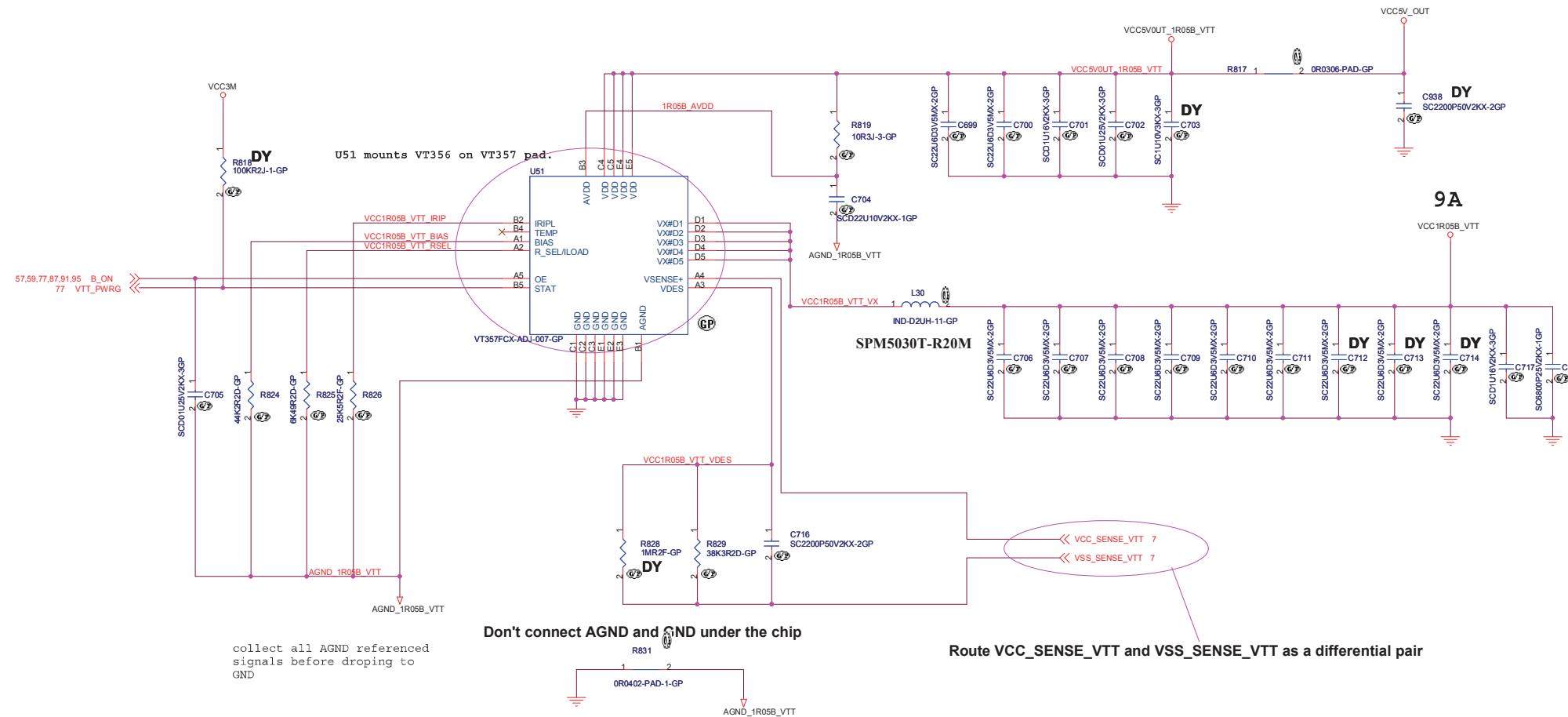
Rev

SD

Date: Monday, January 10, 2011

Sheet 83 of 101

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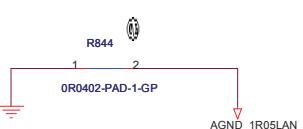
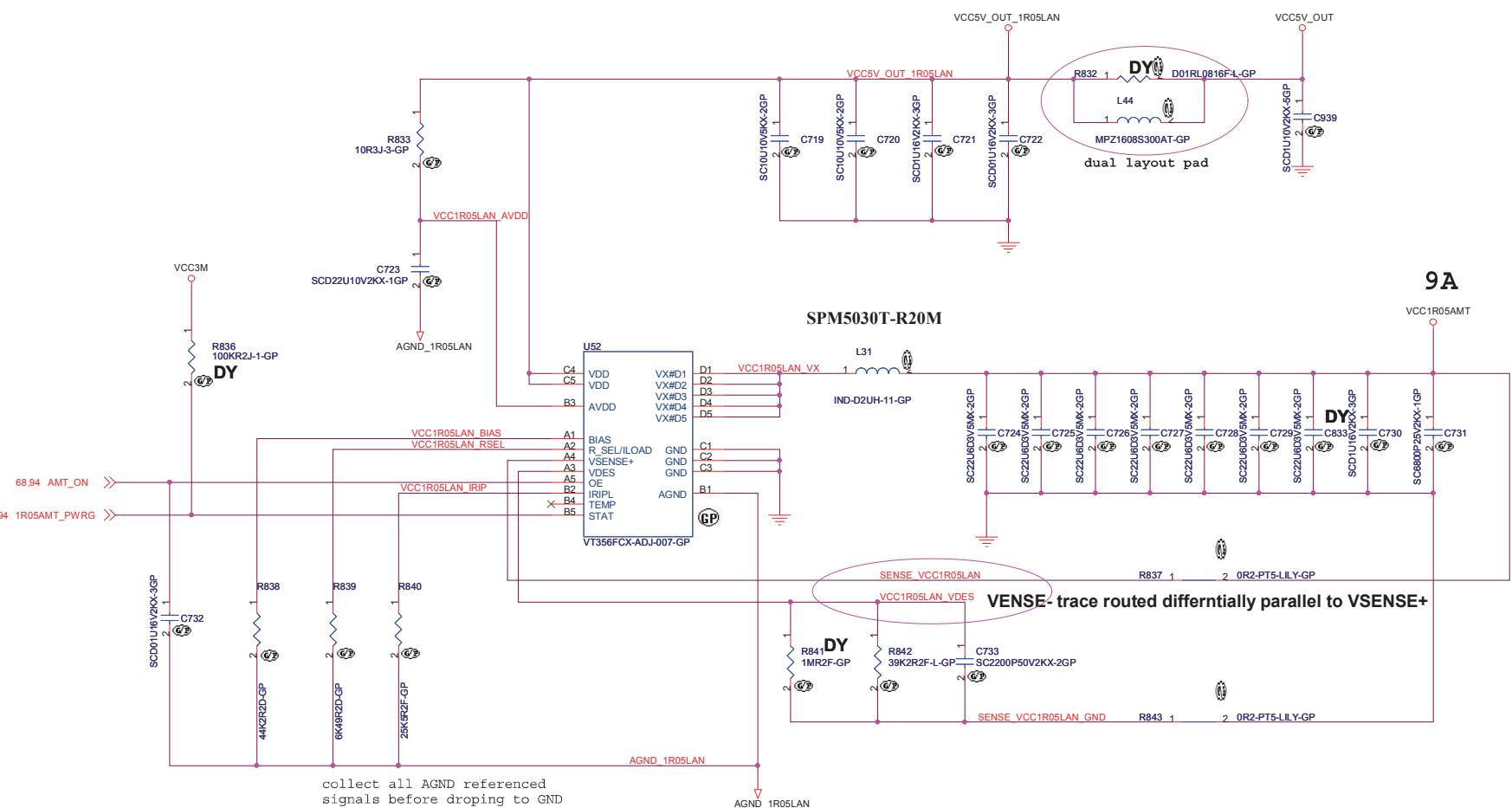
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Size A3	Document Number	Rev SD
Dasher-1		

Date: Monday, January 10, 2011

5

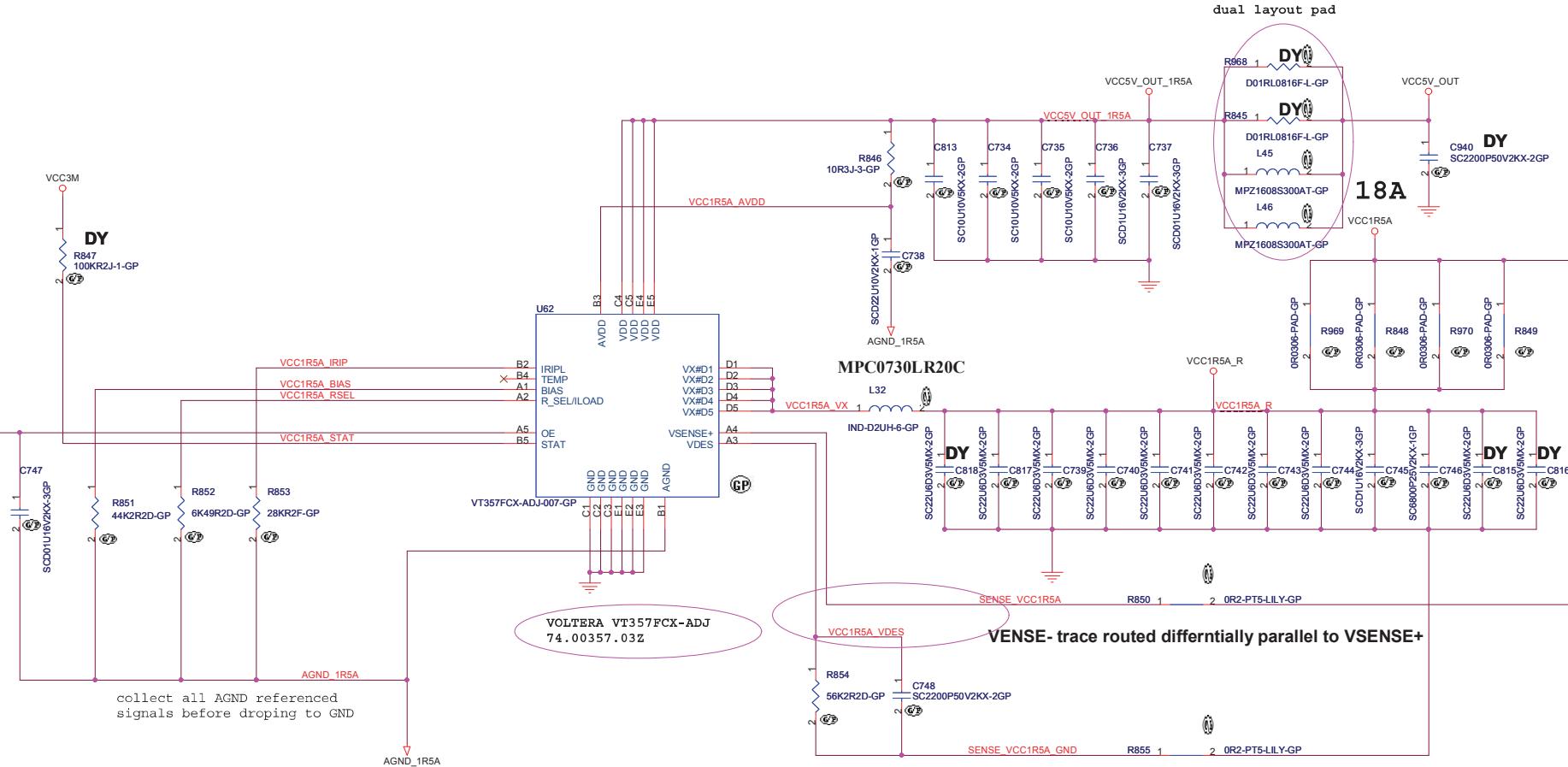
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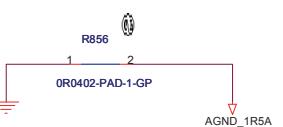
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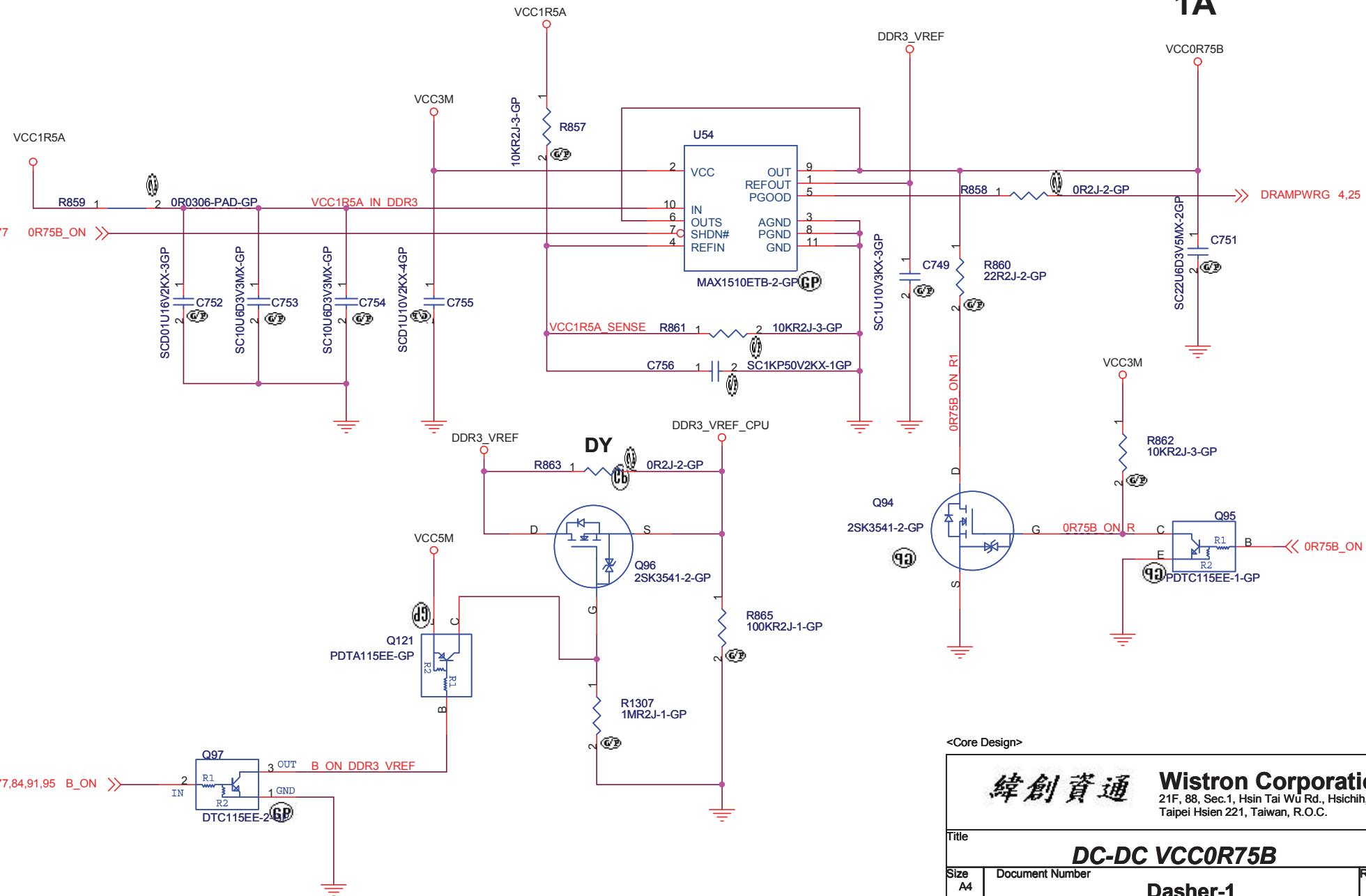
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Don't connect AGND and GND under the chip



1A



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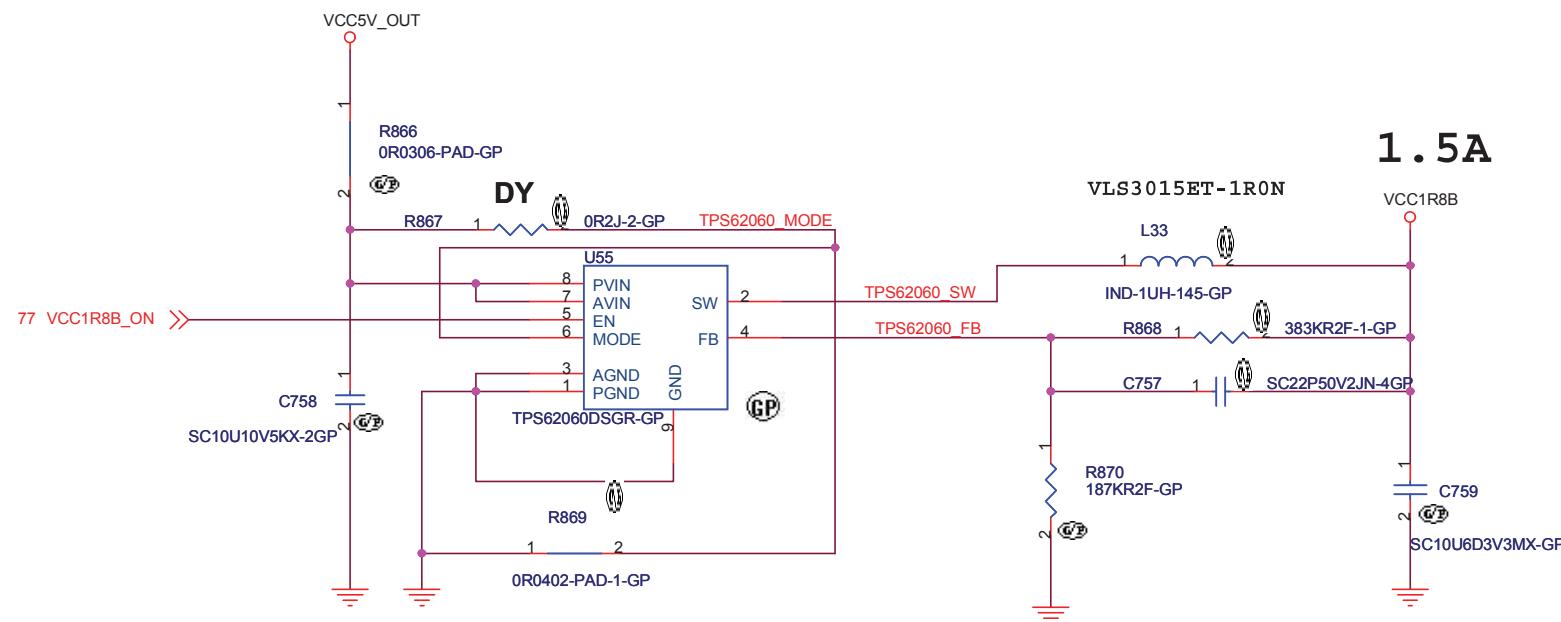
Document Number

Dasher-1

Rev
SD

Date: Monday, January 10, 2011

Sheet 88 of 101



<Core Design>

緯創資通

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

Title

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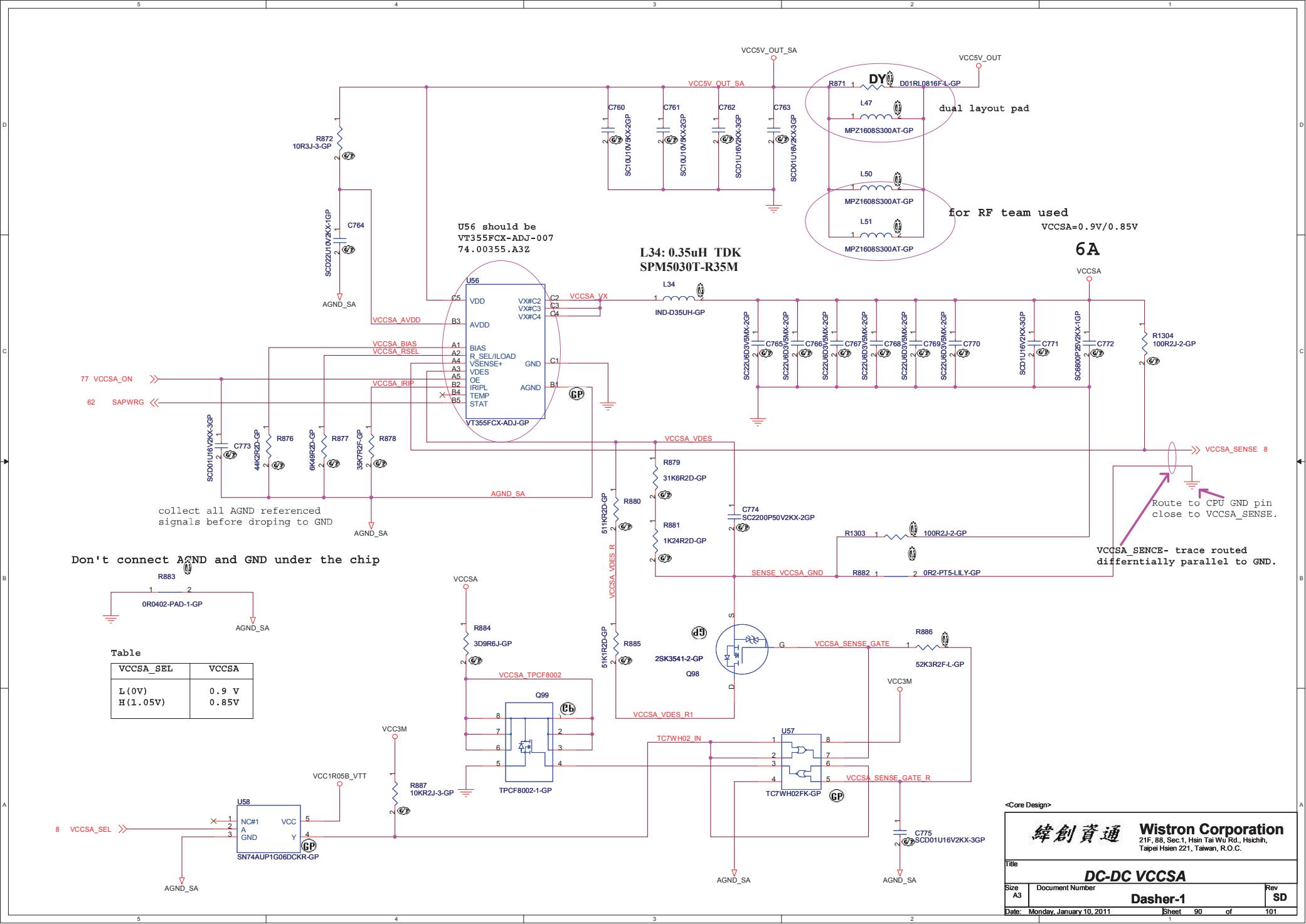
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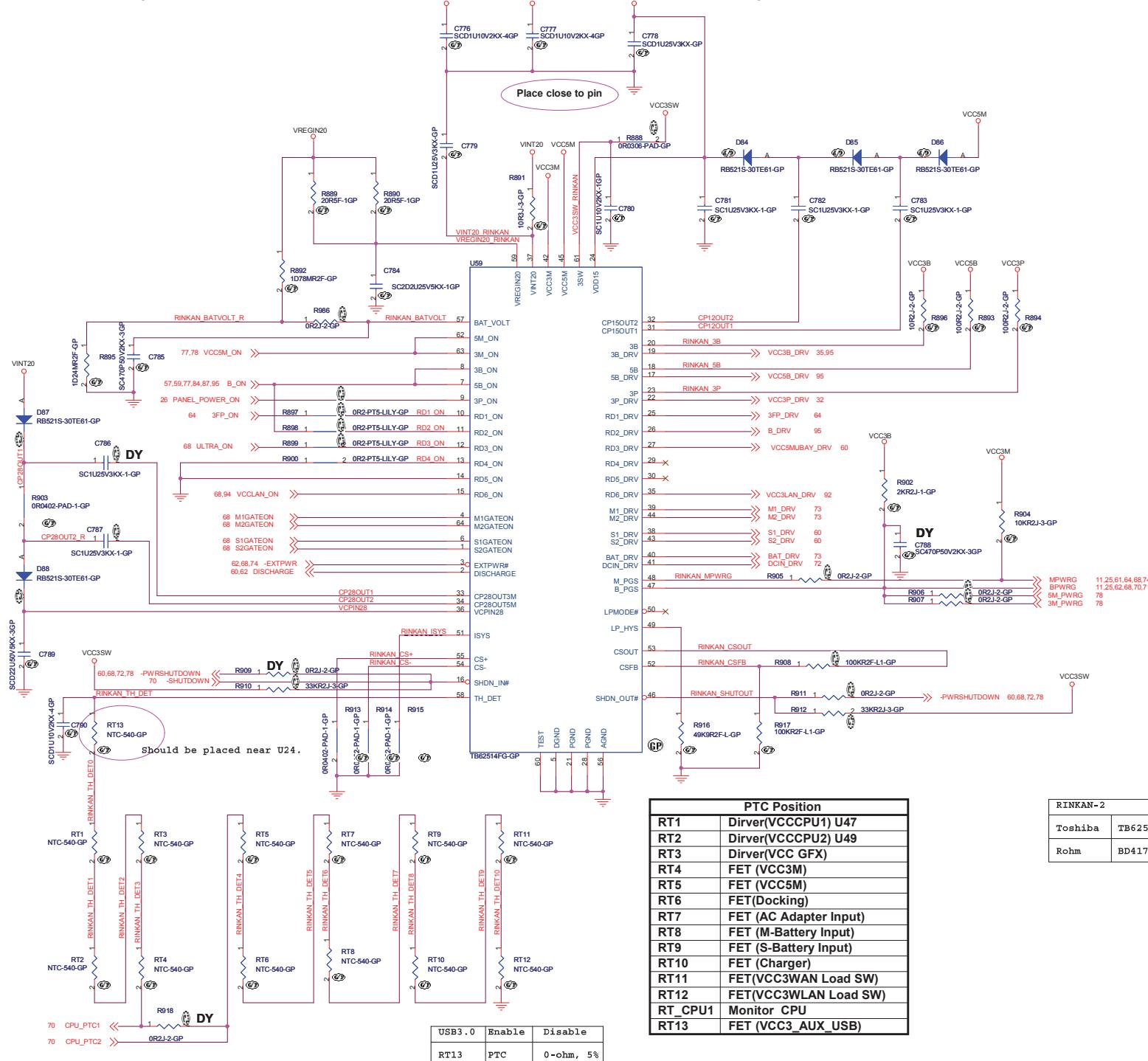
Dasher-1

Rev SD

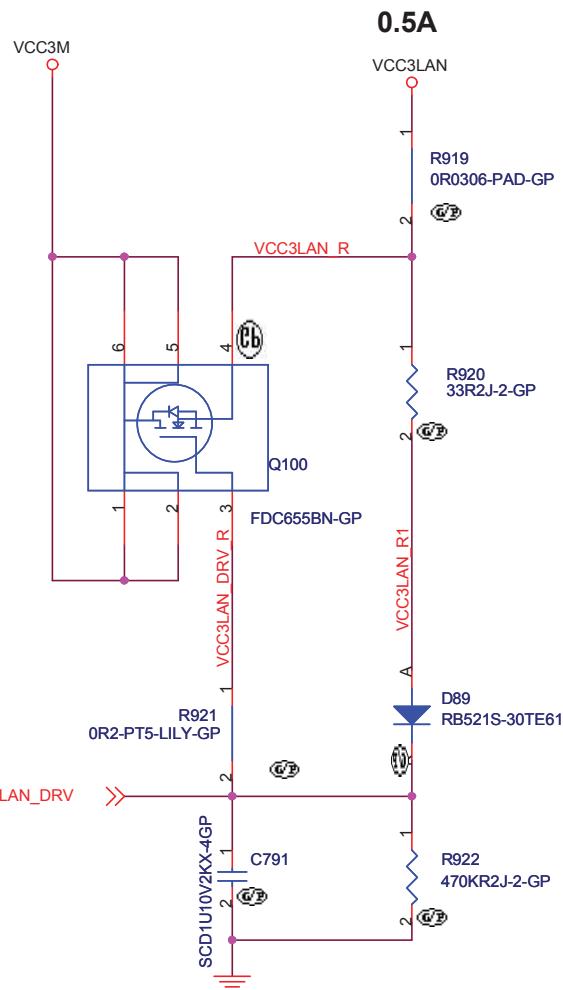
Date: Monday, January 10, 2011

Sheet 89 of 101





<Core Design>



<Core Design>

緯創資通		Wistron Corporation
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Title		
LOAD SW 1		
Size A4	Document Number Dasher-1	Rev SD
Date: Monday, January 10, 2011	Sheet 92	of 101

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<Core Design>

緯創資通

Wistron Corporation
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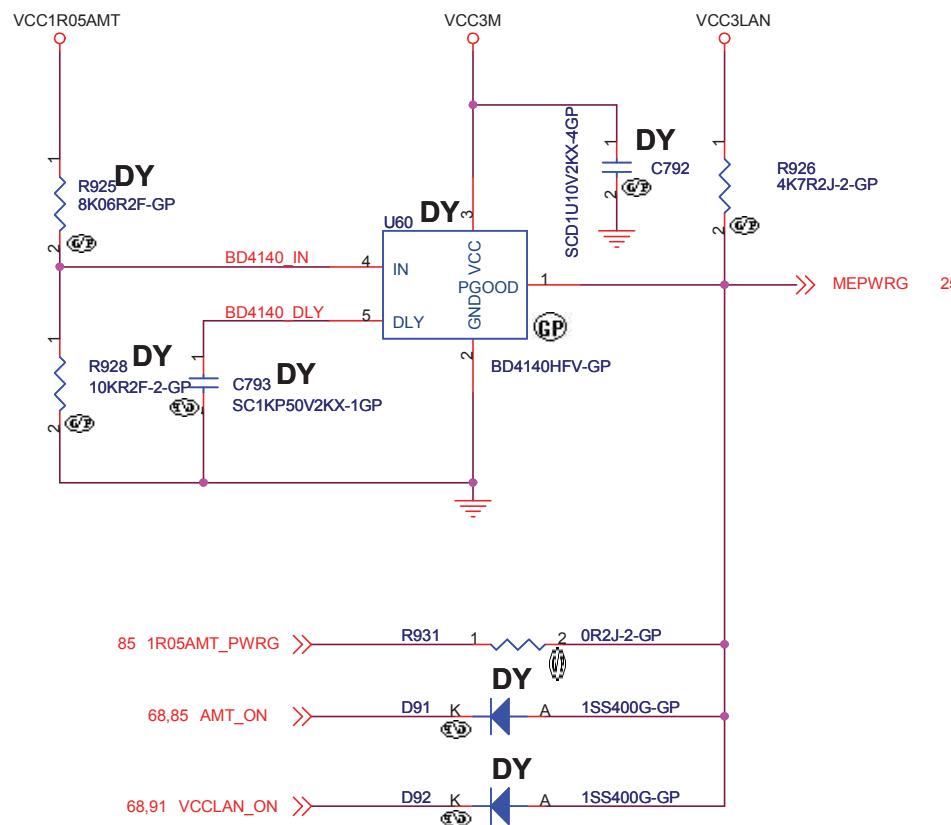
A4 Document Number

Rev
SD

Dasher-1

Date: Monday, January 10, 2011

Sheet 93 of 101



<Core Design>

緯創資通
Wistron Corporation

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

Title

POWER GOOD

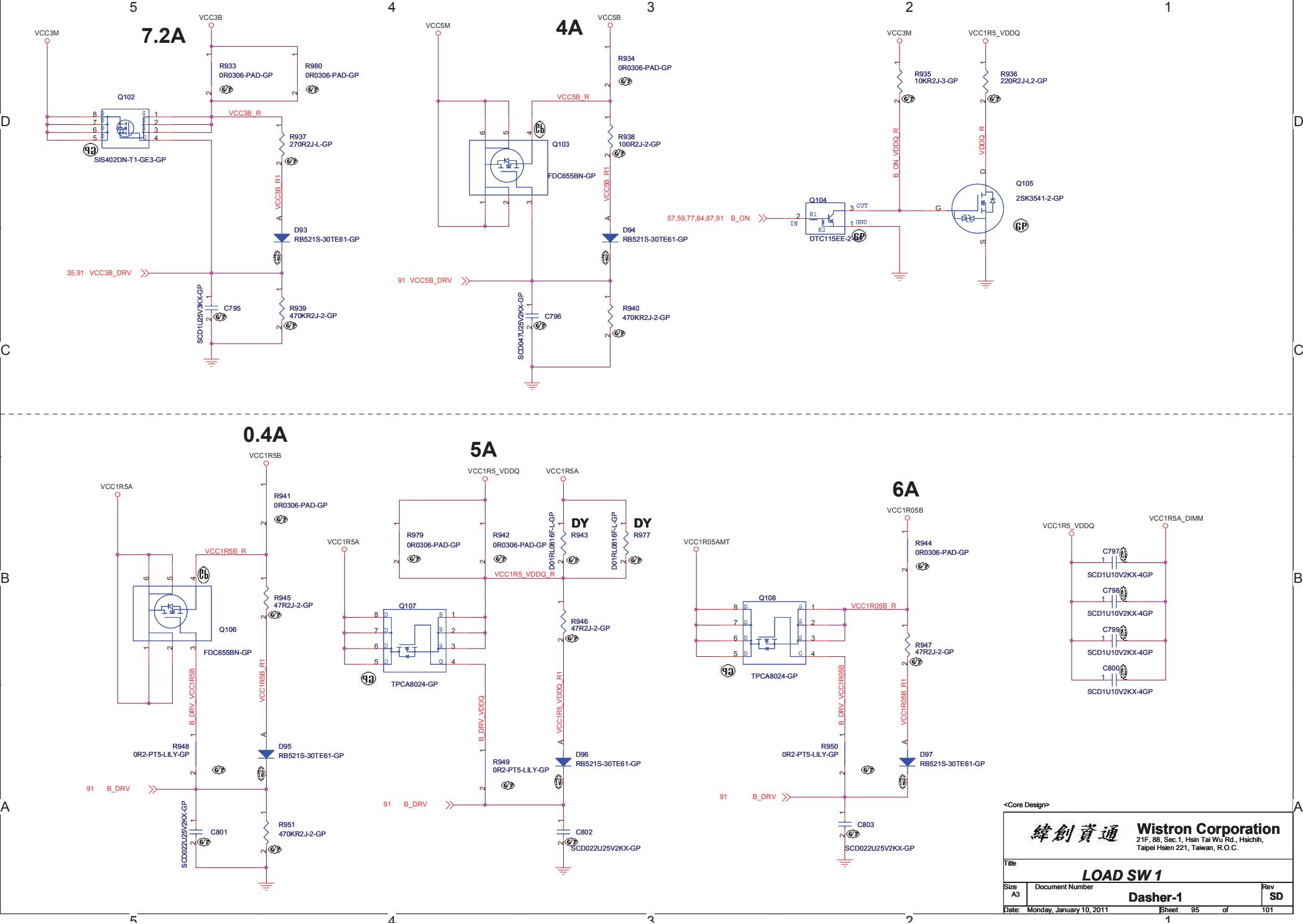
Size A4 Document Number

Dasher-1

Rev SD

Date: Monday, January 10, 2011

Sheet 94 of 101



B
L
A
N
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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

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Size

A4

Document Number

Dasher-1

Rev

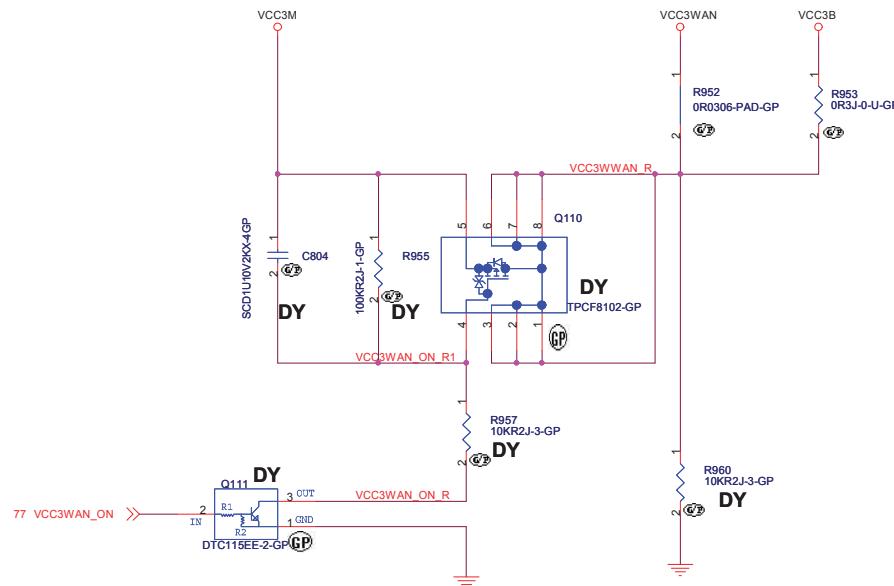
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Date: Monday, January 10, 2011

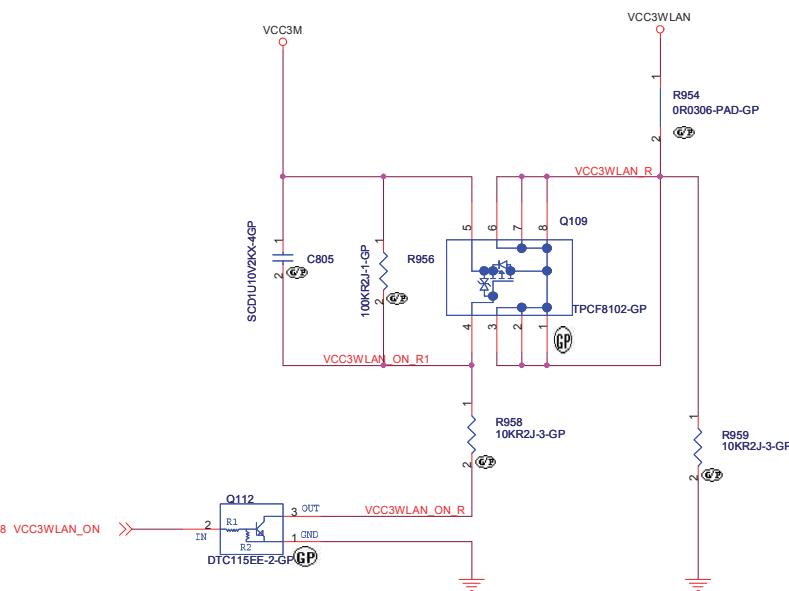
Sheet 96 of 101

2.7A

2.7A

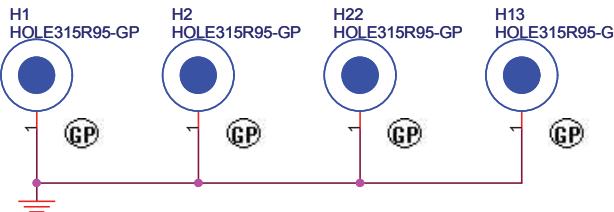


Constant Secure	YES	NO
R953	DY	ASM
C804 R955 Q110 R957 Q111 R960	ASM	DY
R952	ASM	ASM

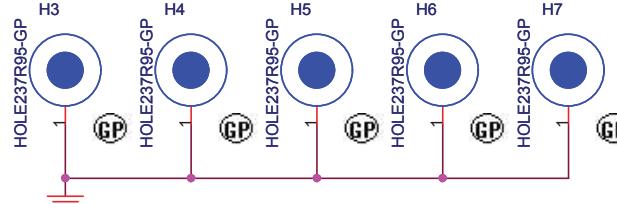


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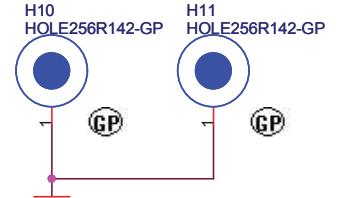
ZZ.00PAD.911



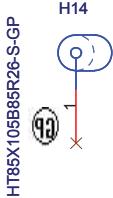
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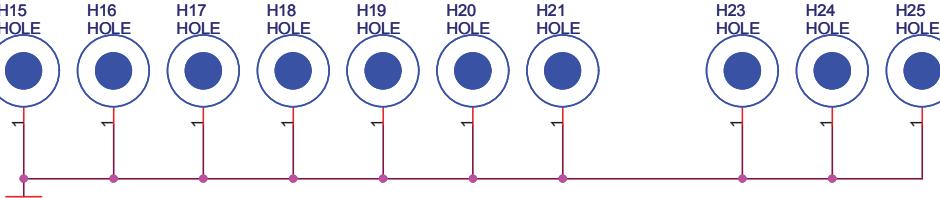
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ZZ.SCREW.191

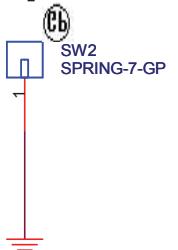


ZZ.0HOLE.XXX



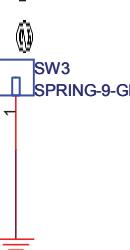
34.49U26.001

GND pad for docking connector



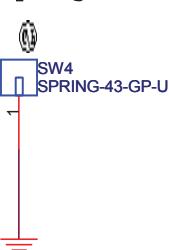
34.49U23.001

GND pad for docking connector



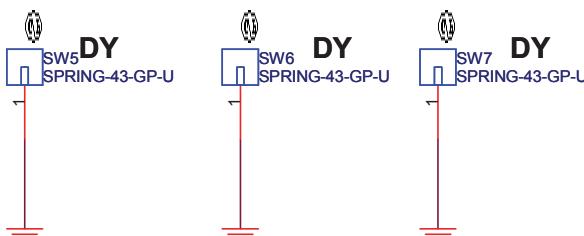
34.15J03.001

spring for EMI



34.15J03.001

spring for RF (SW5~SW7)



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HOLES/GND/PADS

Size A4 Document Number

Dasher-1

Rev SD

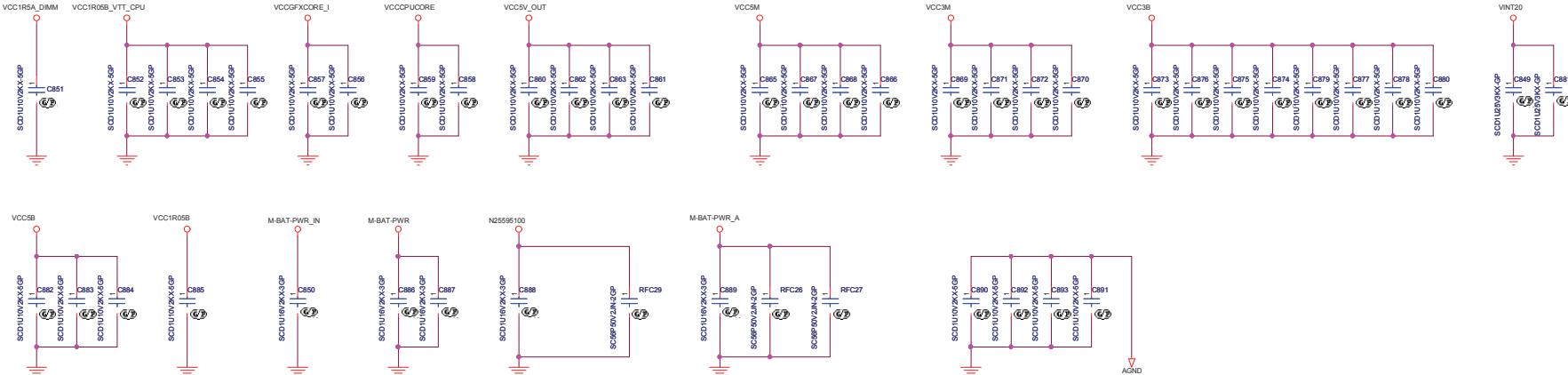
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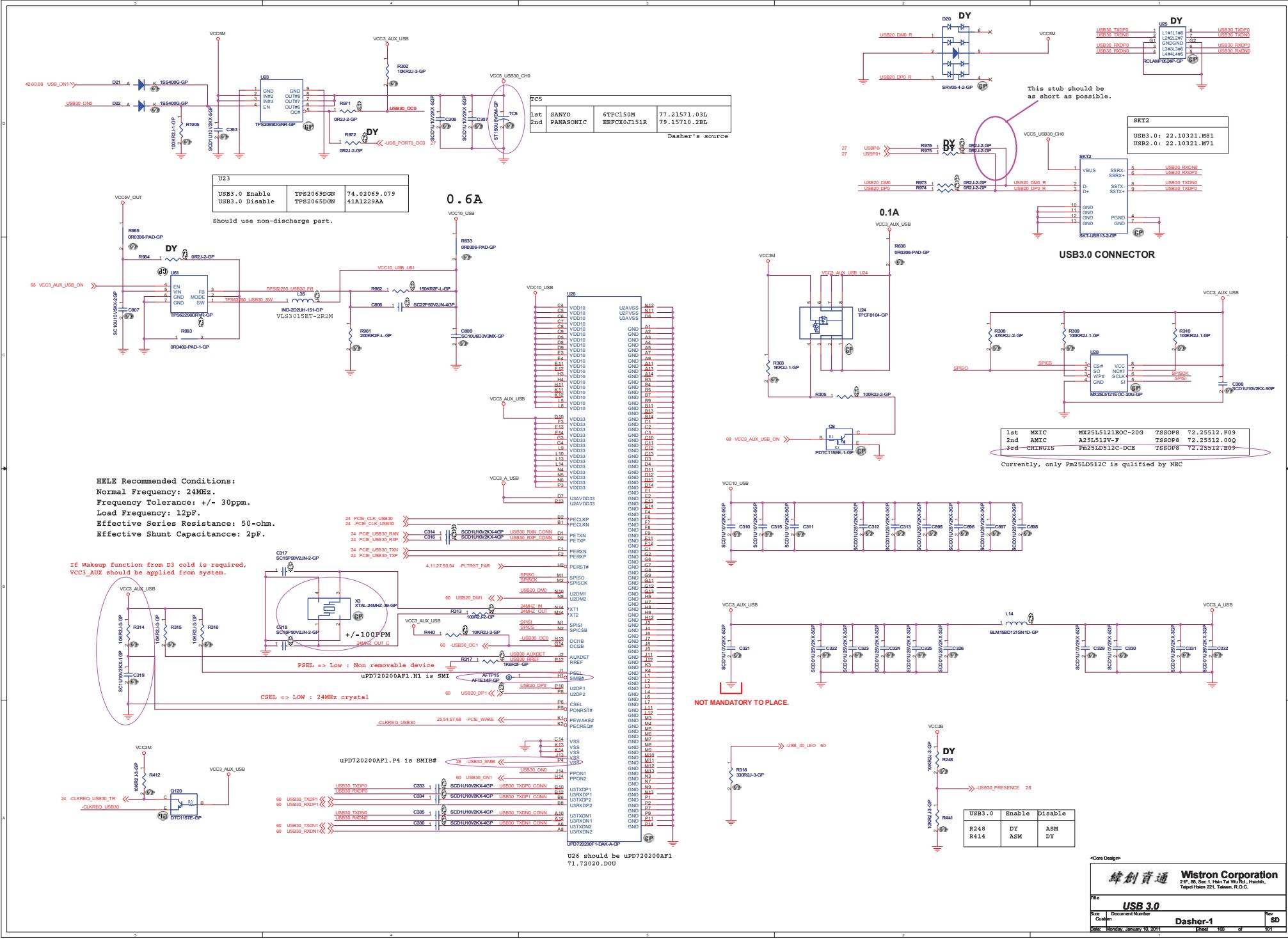
Sheet 98 of 101

RF decoupling caps

named as RFCxxx

Long power trace EMI decoupling caps





	USB3.0 Enable	USB3.0 Disable
U23	TPS2069DGN	TPS2065DGN
D21	ASM	ASM
D22	ASM	DY
C353	ASM	ASM
R302	ASM	DY
R971	ASM	DY
R972	DY	ASM
C306	ASM	ASM
C307	ASM	ASM
TC5	ASM	ASM
□		
U61	ASM	DY
R965	ASM	DY
R964	DY	DY
R963	ASM	DY
C807	ASM	DY
L35	ASM	DY
R961	ASM	DY
R962	ASM	DY
R966	ASM	DY
C908	ASM	DY
R633	ASM	DY
□		
U26	ASM	DY
C314	ASM	DY
C316	ASM	DY
R313	ASM	DY
X3	ASM	DY
C317	ASM	DY
C318	ASM	DY
C319	ASM	DY
R440	ASM	DY
R314	ASM	DY
R315	ASM	DY
R316	ASM	DY
R317	ASM	DY
C310	ASM	DY
R412	ASM	ASM
Q120	ASM	DY
C333	ASM	DY
C334	ASM	DY
C335	ASM	DY
C336	ASM	DY
□		
U28	ASM	DY
R308	ASM	DY
R309	ASM	DY
R310	ASM	DY
C308	ASM	DY
□		
U94	ASM	DY
R638	ASM	DY
R303	ASM	DY
R305	ASM	DY
Q8	ASM	DY
□		
SKT2	USB3.0 Conn.	USB2.0 Conn.
R973	ASM	DY
R974	ASM	DY
R975	DY	ASM
R976	DY	ASM
□		
D20	DY	DY
D25	DY	DY
□		
C310	ASM	DY
C311	ASM	DY
C312	ASM	DY
C313	ASM	DY
C315	ASM	DY
□		
C320	ASM	DY
C321	ASM	DY
C322	ASM	DY
C323	ASM	DY
C324	ASM	DY
C325	ASM	DY
C326	ASM	DY
C327	ASM	DY
C328	ASM	DY
C329	ASM	DY
C330	ASM	DY
C331	ASM	DY
C332	ASM	DY
□		
R318	ASM	DY
□		
R248	DY	ASM
R441	ASM	DY
□		

	USB3.0 Enable	USB3.0 Disable
R437	DY	ASM
R438	DY	ASM
R436	ASM	DY
R439	ASM	DY
D99	ASM	DY
D100	ASM	DY
R989	DY	ASM
R991	ASM	DY
R988	DY	ASM

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