

Wistron Confidential

PV

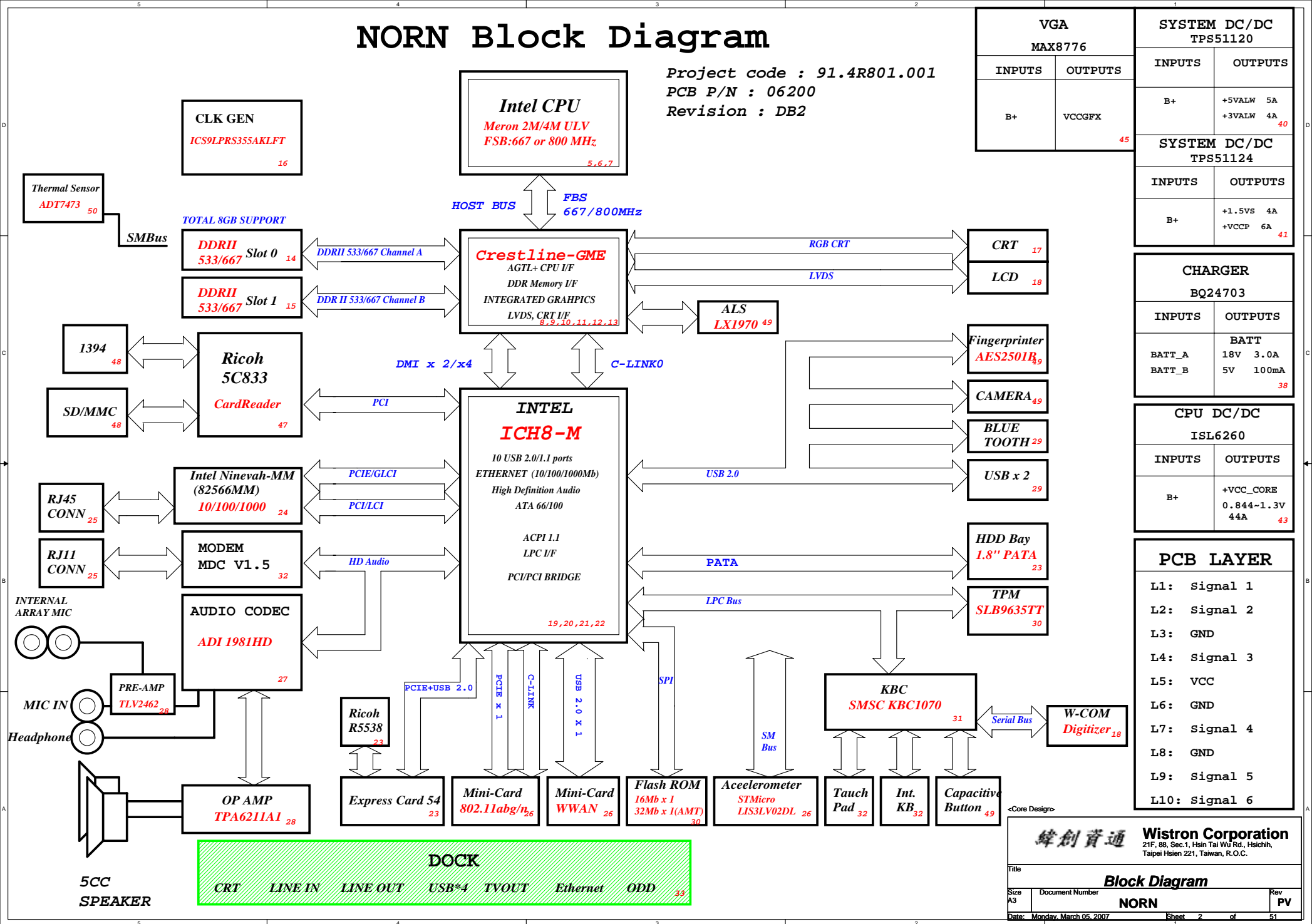
2007/03/30

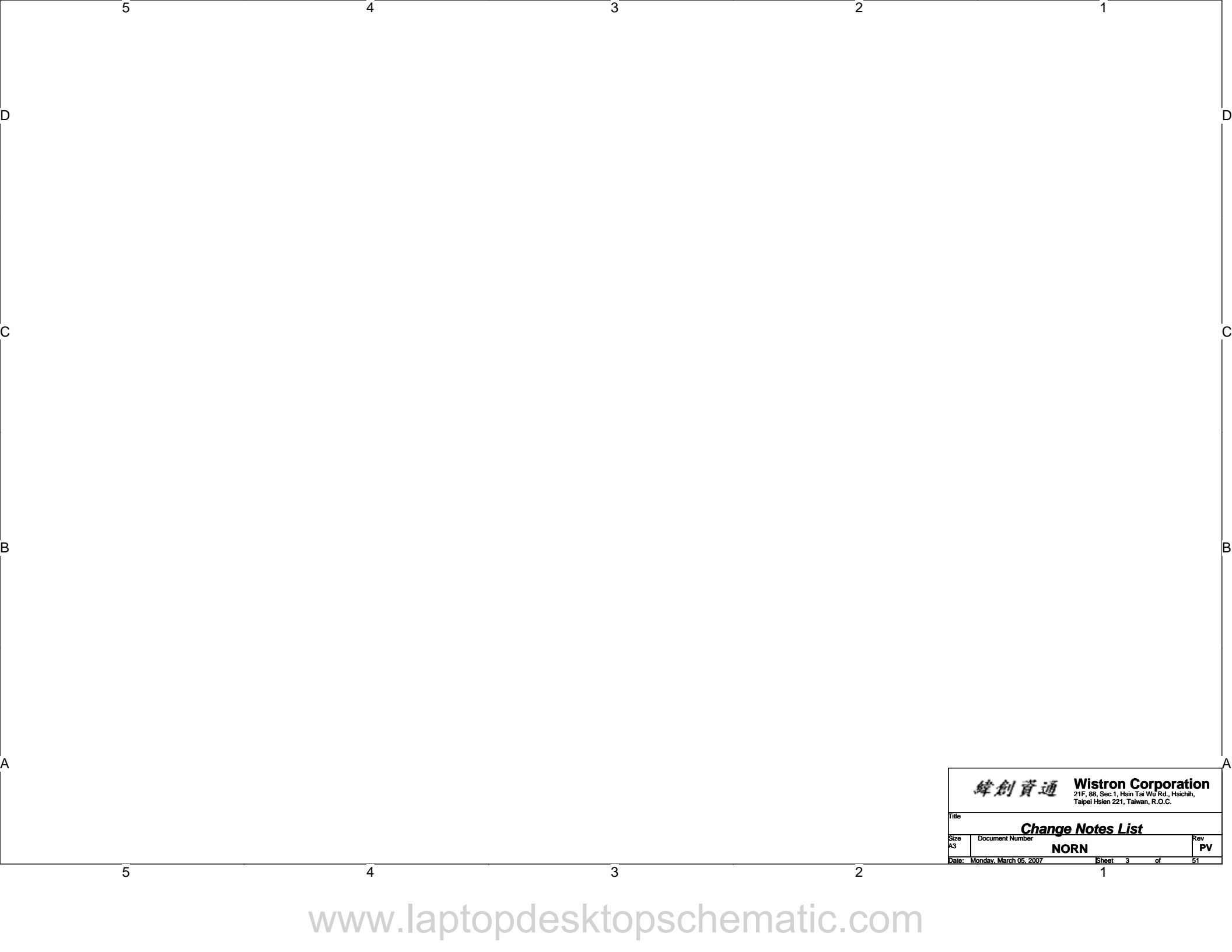
REV : PV-04

<Variant Name>			
		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichin, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
NORN			
Size A3	Document Number NORN		Rev PV
Date: Friday, March 30, 2007		Sheet 1 of 51	

NORN Block Diagram

Project code : 91.4R801.001
PCB P/N : 06200
Revision : DB2





<div><div>緯創資通</div><div>Wistron Corporation</div><div>21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichin, Taipei Hsien 221, Taiwan, R.O.C.</div></div>		
Title		
Change Notes List		
Size	Document Number	Rev
A3	NORN	PV
Date: Monday, March 05, 2007	Sheet 3 of 51	1

Voltage Rails

o MEANS ON x MEANS OFF

power plane State	+BB LDO3 LDO5	+5VALW +5VALW	+1.8V +0.9V	+5VS +3VS +1.8VS +1.5VS +1.25VS +VGA_CORE +CPU_CORE +VCCP	+3VM +1.05VM +1.25VM	CLOCK
S0	O	O	O	O	O	O
S3/M1	O	O	O	X	O	O
S3	O	O	O	X	O	O
S5 S4/AC	O	O	X	X	O	O
S5 S4/Battery only	O	X	X	X	X	X
S5 S4/AC & Battery don't exist	X	X	X	X	X	X

PCI Devices

EETERNAL	IDSEL#	REQ/GNT#	PIRQ
Cardreader & 1394	AD22	2	G, E

DMA Channel	Device
DMA0	Modem/LAN
DMA1	ECP
DMA2	Floppy Disk
DMA3	Audio
DMA4	(Cascade)
DMA5	Unused
DMA6	Unused
DMA7	Unused

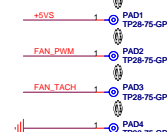
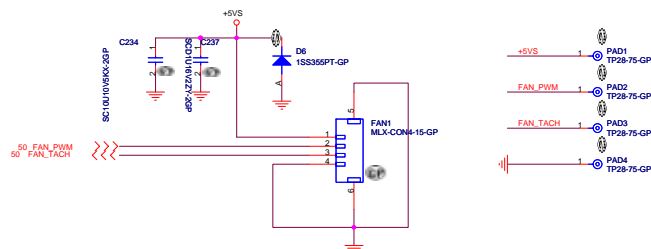
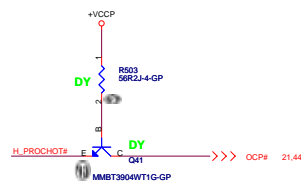
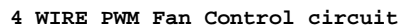
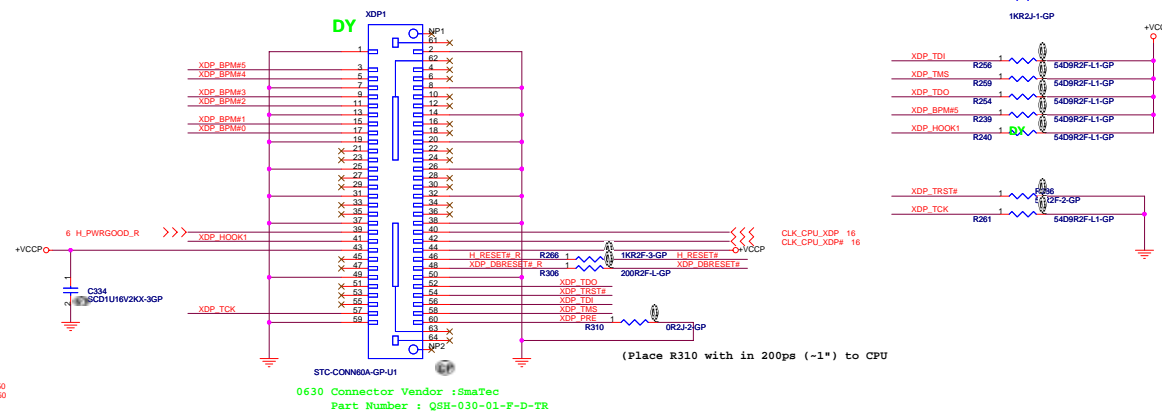
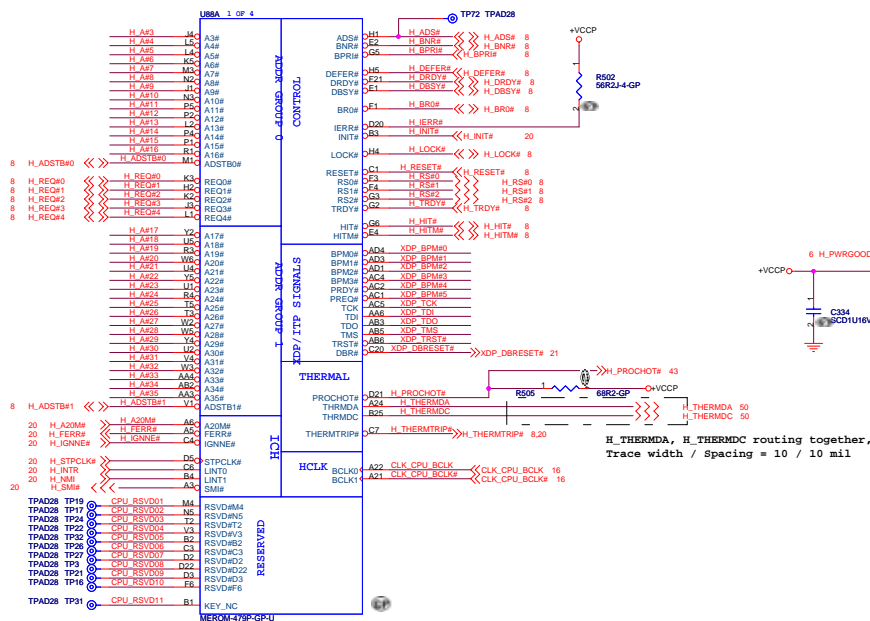
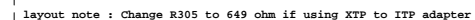
USB PORT#	Destination
0	FREE
1	Fingerprint
2	EXPRESS SLOT
3	Camera
4	Walk-up1 (Right Side)
5	Walk-up2 (Left Side)
6	Bluetooth
7	Dock 1
8	WWAN
9	Dock 2

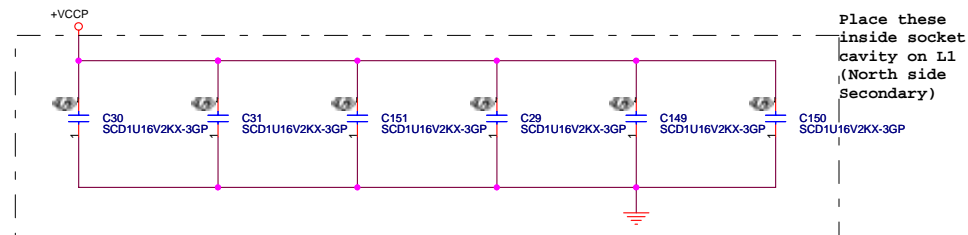
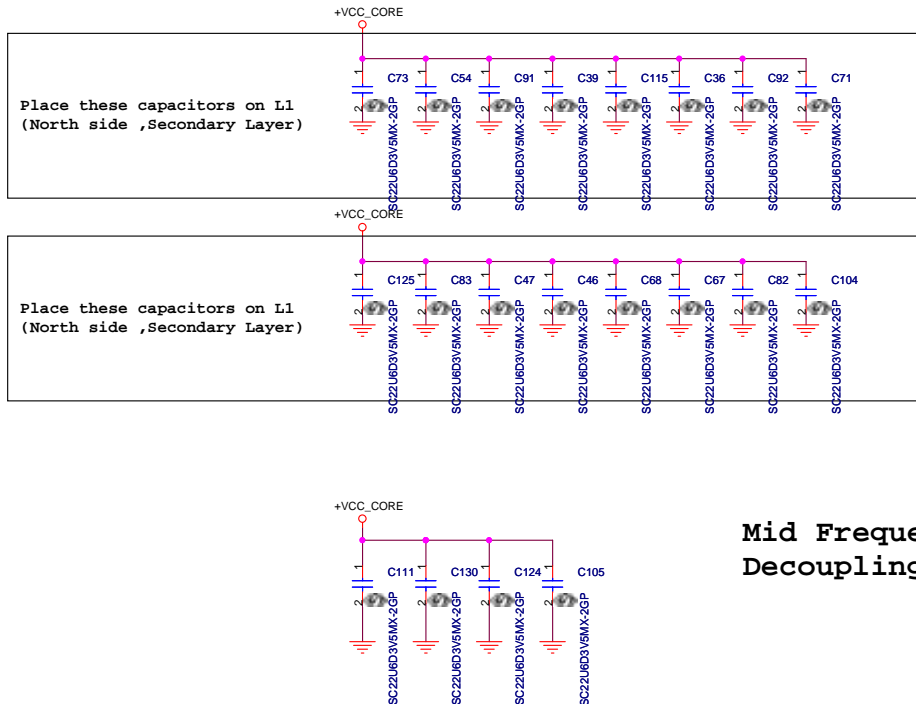
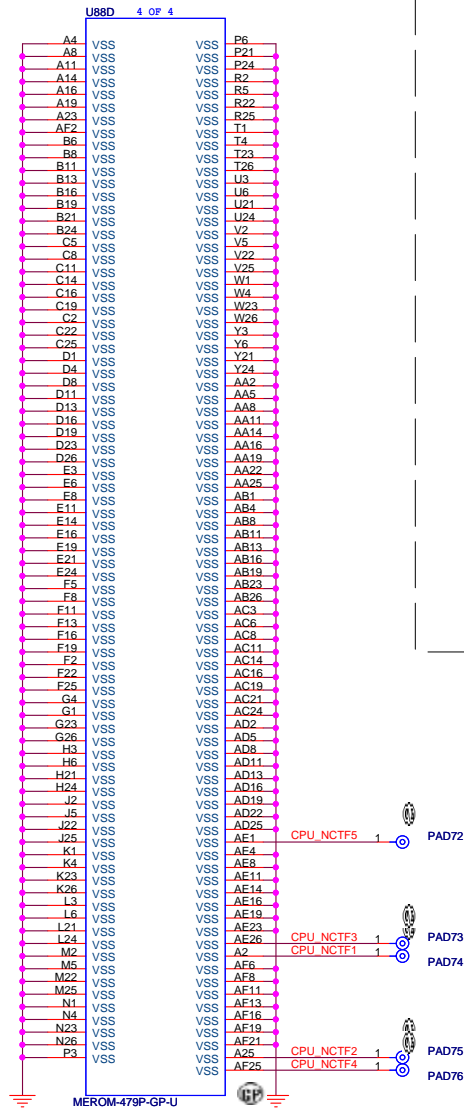
Symbols	Description
DY/DUMMY	No install
1KR2J	Resistor 1K ohm ,Size 0402 ,5%
1KR3F	Resistor 1K ohm ,Size 0603 ,1%
GP	ROHS parts
NC	Pin no connect to anything

IRQ	Device
0	System Timer
1	Keyboard
2	N/A
3	Serial port (COM2) ,LAN/Modem
4	Serial port (COM1)
5	Audio/VGA
6	Floppy
7	Parallel port
8	System CMOS/Real-time clock
9	Microsoft ACPI
10	N/A,Modem,LAN
11	Mass storage control/PCI simple communication control
12	synactic PS2 port GlidePAD
13	Numeric Data Process
14	Primary IDE interface ,HDD
15	Secondary IDE interface ,CD-ROM
16	Mobile Intel Crestline Express Chipset Family Microsoft UAA Bus Drive for High Definition Audio Intel 82801H (ICH8 Family) PCI Express Root Port -27D0 Broadcom NetXtreme Gigabit Ethernet
17	Intel 82801H (ICH8 Family) PCI Express Root Port -27D2 Broadcom 802.11b/g WLAN Intel 82801H (ICH8 Family) USB Universal Host Control
18	Intel 82801H (ICH8 Family) USB Universal Host Control Richo R5C853 Integrates FlashMedia Control Richo R5C853 Gemcore based SmartCard Control
19	Intel 82801H (ICH8 Family) PCI Express Root Port -27D6 Intel 82801H (ICH8 Family) USB Universal Host Control
20	Intel 82801H (ICH8 Family) USB Universal Host Control Intel 82801H (ICH8 Family) USB2 Enhanced Host Control
21	Intel 82801H (ICH8 Family) USB Universal Host Control
22	SDA Standard Compliant SD Host Control
23	HP Mobile Data Protection Sensor

<Variant Name>

緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.		
Title		
Notes List		
Size A3	Document Number	Rev PV
NORN		
Date: Friday, March 23, 2007	Sheet 4	of 51

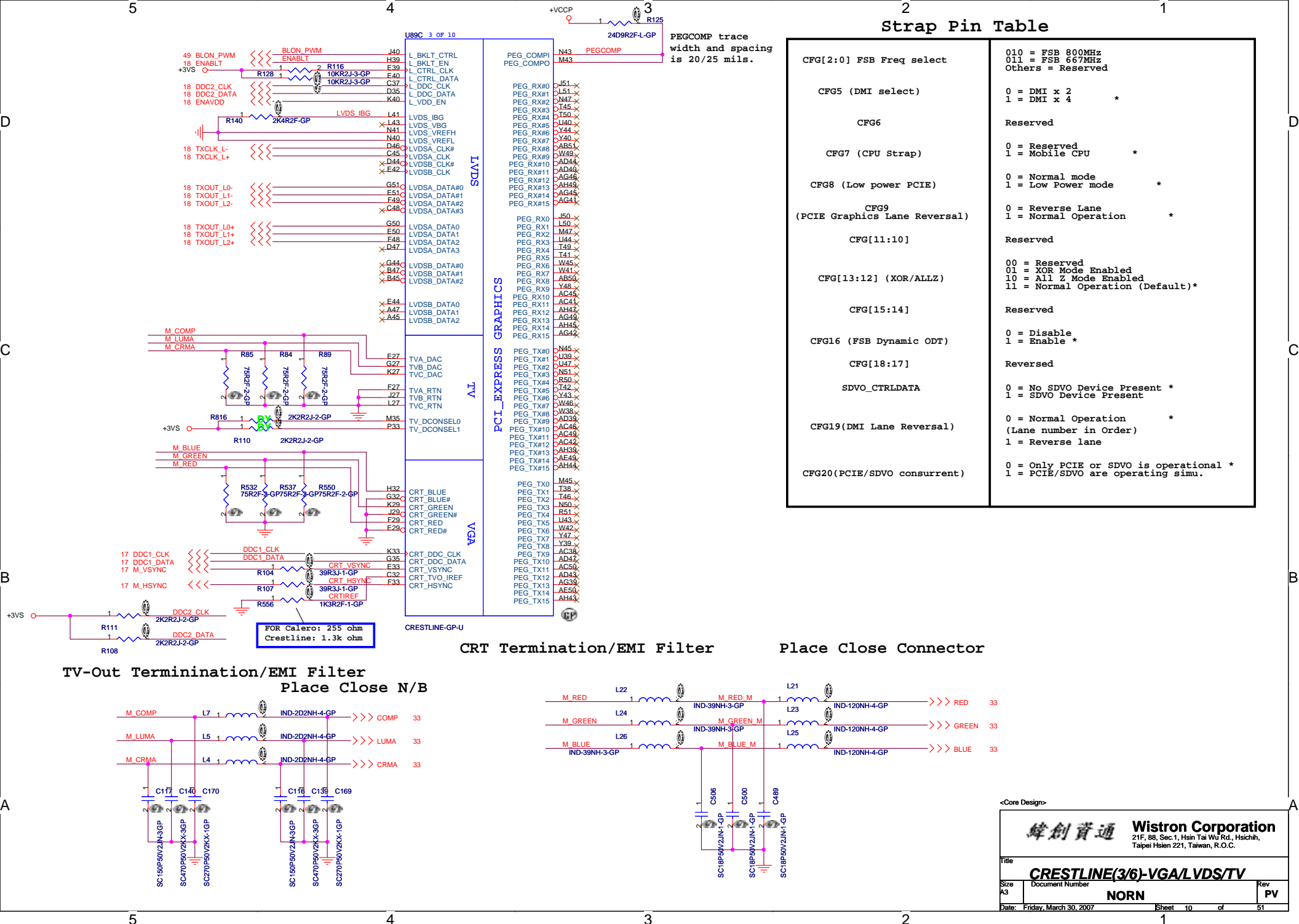


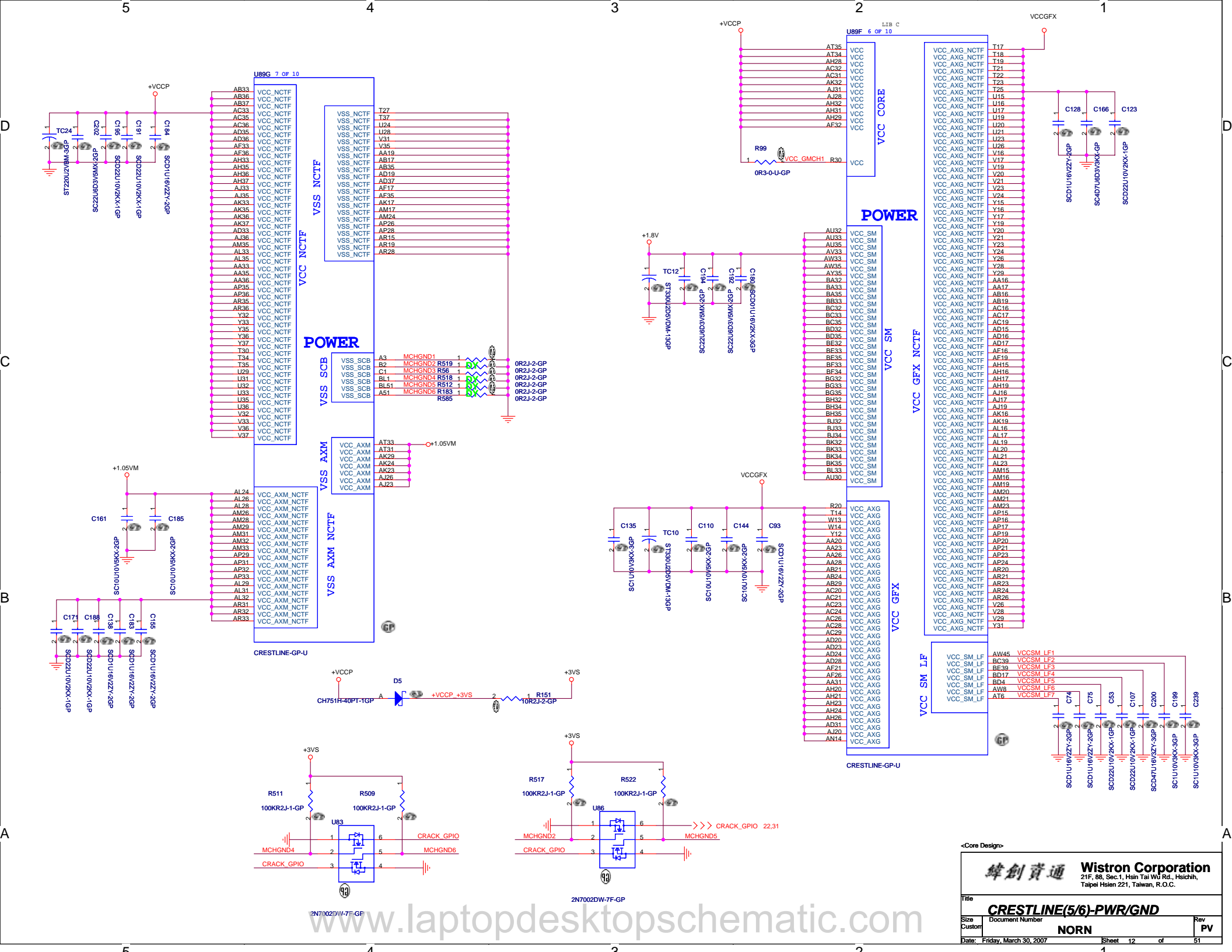


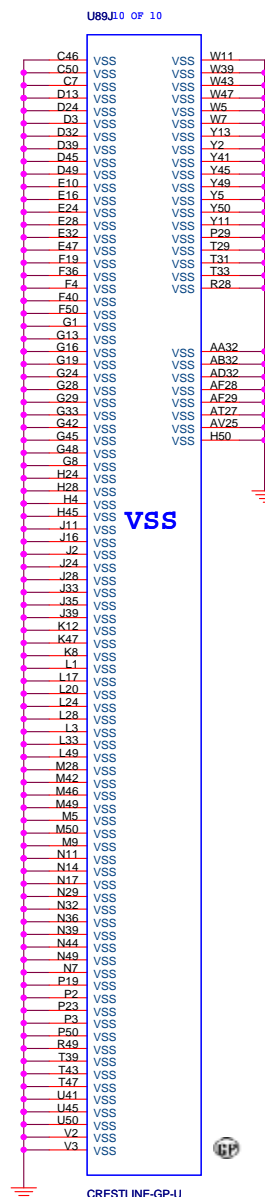
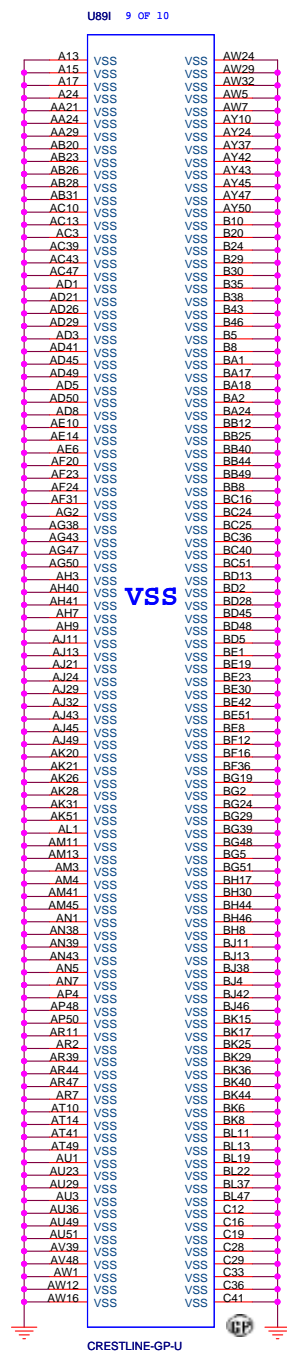
<Core Design>

緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichin, Taipei Hsien 221, Taiwan, R.O.C.	
Title	
Meron(3/3)-GND&Bypass	
Size A3	Document Number NORN
Date: Tuesday, March 27, 2007	Sheet 7 of 51
Rev PV	









<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	Author	Year	Journal	Volume	Page
...

CRESTLINE(6/6)-PWR/GND

Size

Document Number

NORN

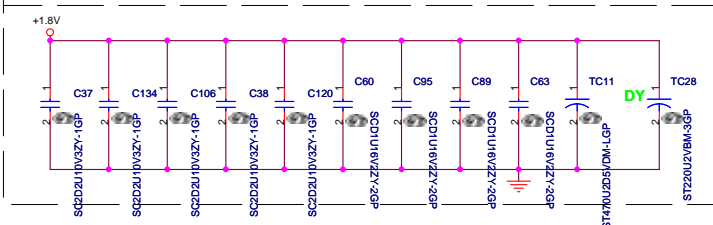
Rev	PV
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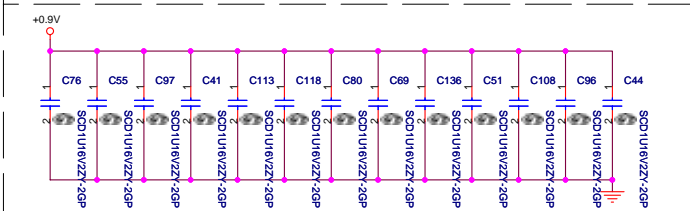
Sheet 13 of 51

9 DDR_A_DQS#[0..7] << >>
 9 DDR_A_DQ[0..63] << >>
 9 DDR_A_DM[0..7] << >>
 9 DDR_A_DQS#[0..7] << >>
 9 DDR_A_MA[0..13] << >>
 9 DDR_A_BS[0..2] << >>

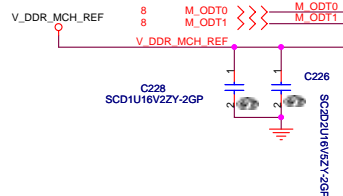
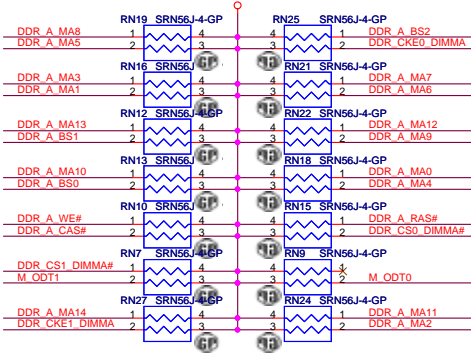
Layout Note:
Place near DM1



Layout Note:
Place one cap close to every 2 pullup resistors terminated to +0.9VS

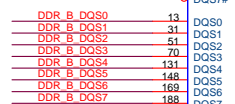
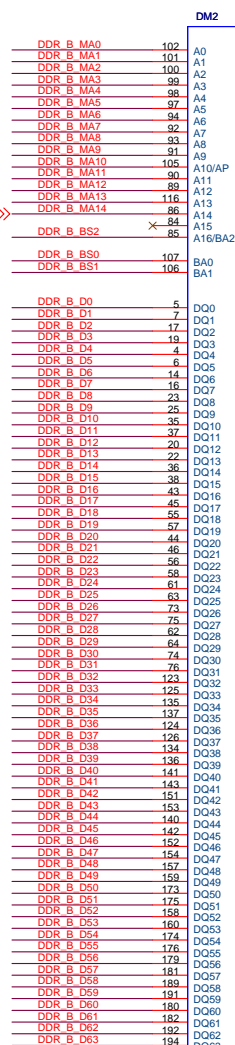
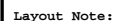
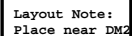


Layout Note:
Place these resistors
closely DM1, all
trace length Max=1.5"



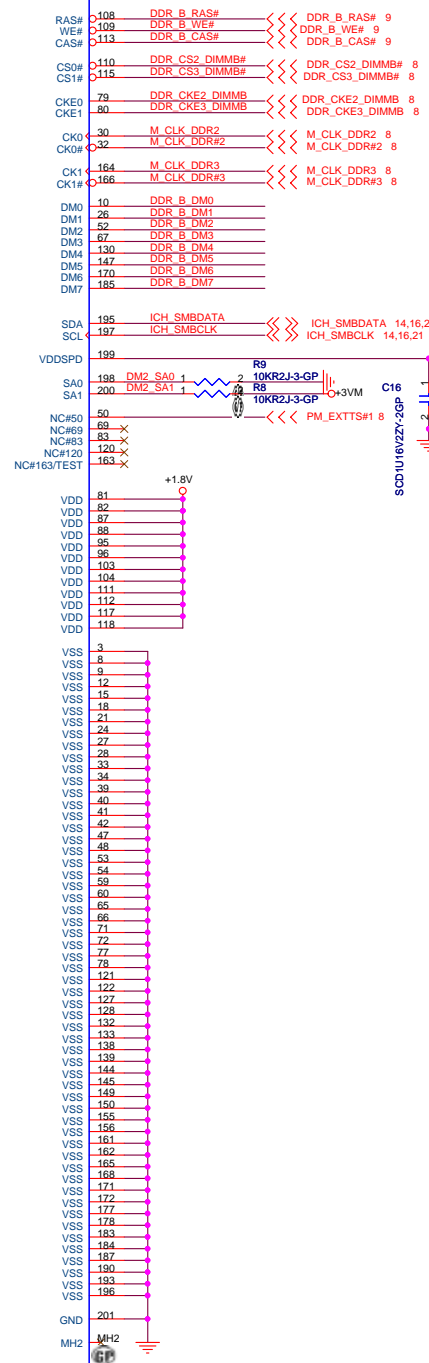
9 DDR_A_MA14 << >>

DM1
 DDR_A_MA0 102 A0
 DDR_A_MA1 101 A1
 DDR_A_MA2 100 A2
 DDR_A_MA3 99 A3
 DDR_A_MA4 98 A4
 DDR_A_MA5 97 A5
 DDR_A_MA6 96 A6
 DDR_A_MA7 95 A7
 DDR_A_MA8 94 A8
 DDR_A_MA9 93 A9
 DDR_A_MA10 92 A10/AP
 DDR_A_MA11 91 A11
 DDR_A_MA12 90 A12
 DDR_A_MA13 89 A13
 DDR_A_MA14 88 A14
 DDR_A_MA15 87 A15
 DDR_A_MA16 86 A16/BA2
 DDR_A_MA17 85 A17
 DDR_A_MA18 84 A18
 DDR_A_MA19 83 A19
 DDR_A_MA20 82 A20
 DDR_A_MA21 81 A21
 DDR_A_MA22 80 A22
 DDR_A_MA23 79 A23
 DDR_A_MA24 78 A24
 DDR_A_MA25 77 A25
 DDR_A_MA26 76 A26
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 DDR_A_MA30 72 A30
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 DDR_A_MA41 61 A41
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 DDR_A_MA409 0 A409
 DDR_A_MA410 0 A410
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 DDR_A_MA717 0 A717
 DDR_A_MA718 0 A718
 DDR_A_MA719 0 A719
 DDR



Pinout diagram of the AD9288 8-channel 12-bit SAR ADC. The diagram shows a top view of the chip with pins numbered 1 to 40. It includes connections for VDD, VSS, and various control and data pins. The chip is labeled 'AD9288' and 'MAXIM'. The pinout is as follows:

Pin	Signal	Pin	Signal
1	DDR_B MA0	21	DDR_CS3 DIMMB#
2	DDR_B BS1	22	DDR_B MA14
3	DDR_B MA9	23	DDR_B MA11
4	DDR_B MA12	24	DDR_B CAS#
5	M_ODT3	25	DDR_B BS0
6	DDR_CS3 DIMMB#	26	DDR_B MA4
7	DDR_B MA14	27	DDR_B MA2
8	DDR_B MA11	28	DDR_B MA5
9	DDR_B CAS#	29	DDR_B BS2
10	DDR_B BS0	30	DDR_CS2 DIMMB#
11	DDR_B MA4	31	DDR_B MA0
12	DDR_B MA2	32	DDR_B BS1
13	DDR_B MA5	33	DDR_B MA9
14	DDR_B BS2	34	DDR_B MA12
15	DDR_CS2 DIMMB#	35	M_ODT3
16	DDR_B MA0	36	DDR_CS3 DIMMB#
17	DDR_B BS1	37	DDR_B MA14
18	DDR_B MA9	38	DDR_B MA11
19	DDR_B MA12	39	DDR_B CAS#
20	M_ODT3	40	DDR_B BS0



<Variant Name>

緯創資通

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

Title **DDRII-SODIMM SLOT2**

Size

Document Number

Rev

Cust

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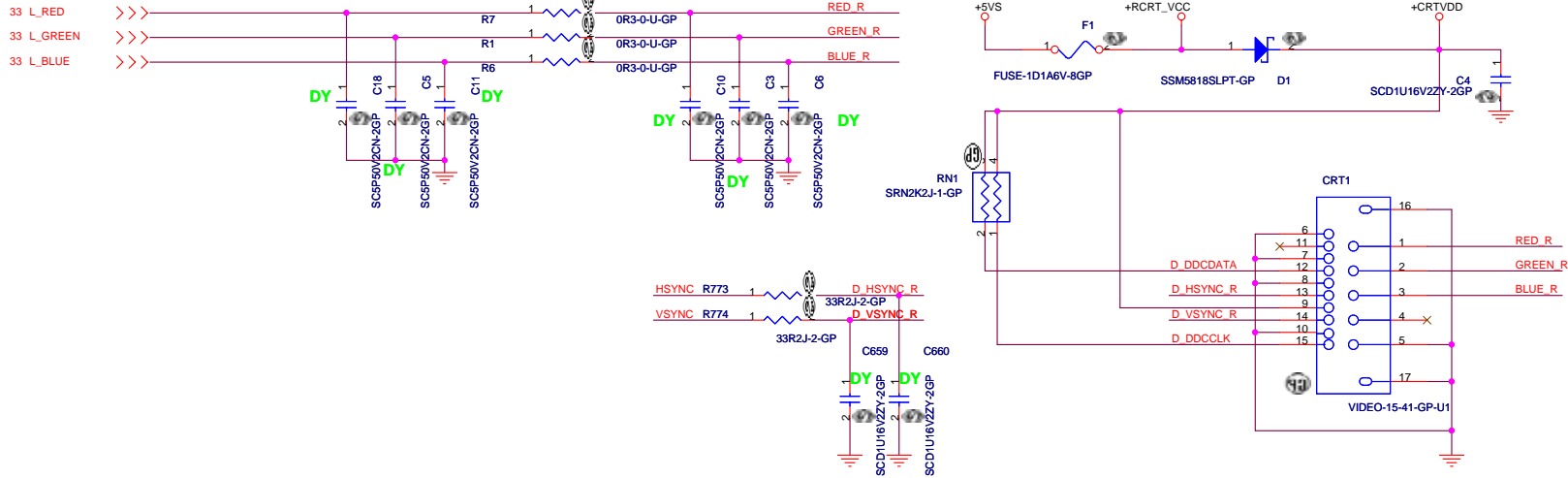
Norn

PV

Date:

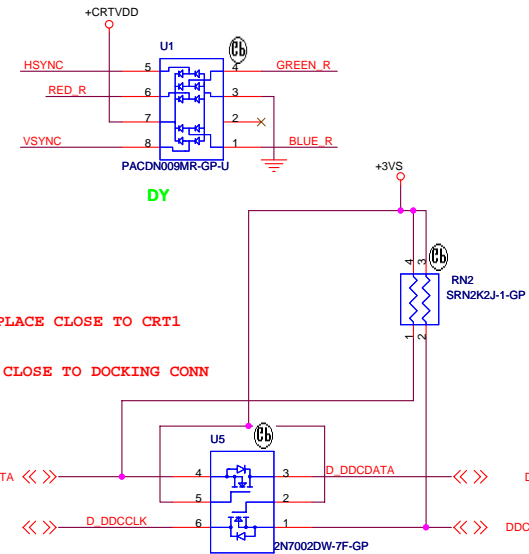
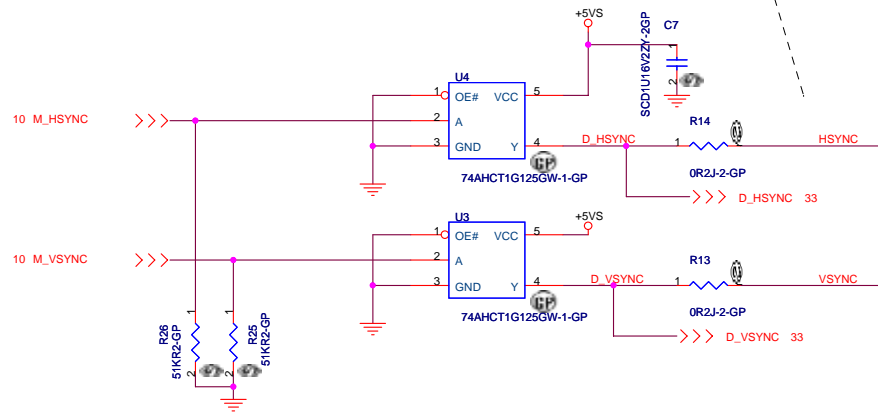
Friday, March 30, 200

51



CRT

Layout Note : HSYNC & VSYNC SHOULD BE ROUTED TO DOCK CRT CONN. ,THEN TO SYSTEM CRT CONN.

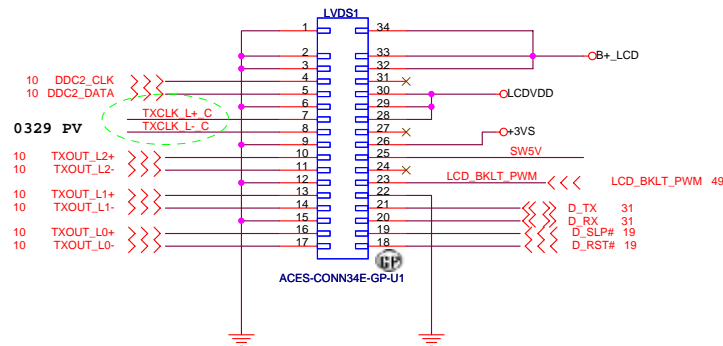


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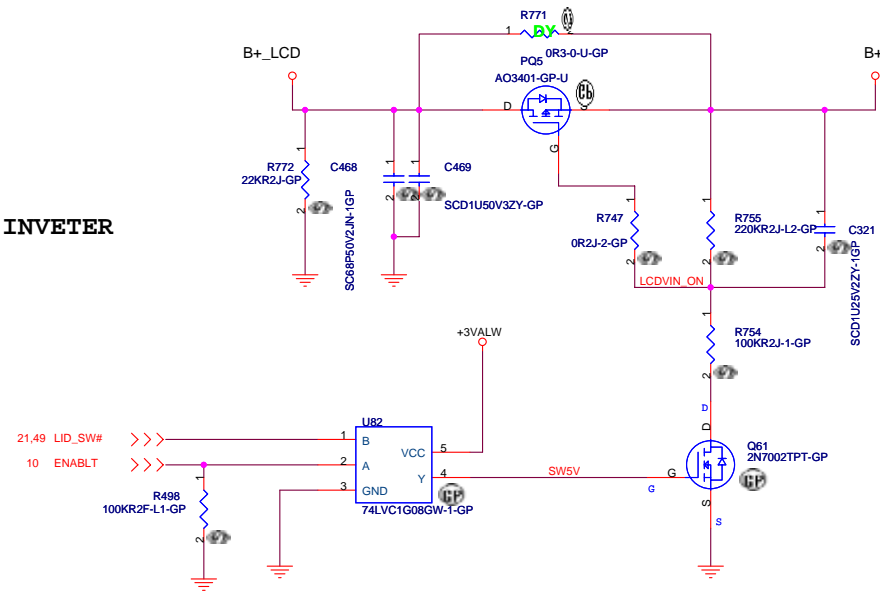
緯創資通 Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title		
CRT/TV CONNECTOR		
Size A3	Document Number NORN	Rev PV
Date: Friday, March 30, 2007	Sheet 17	of 51

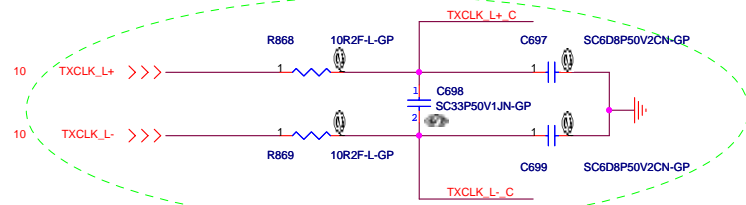
LVDS CONN



SUPPORT LED INVETER

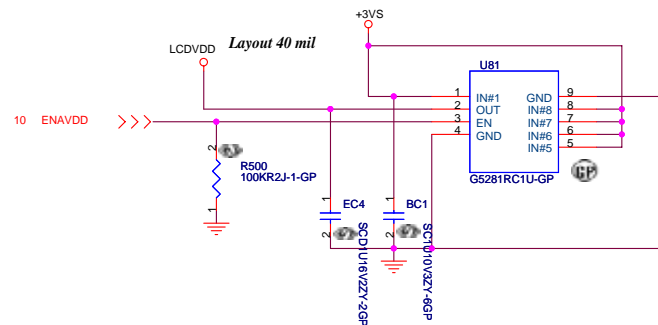
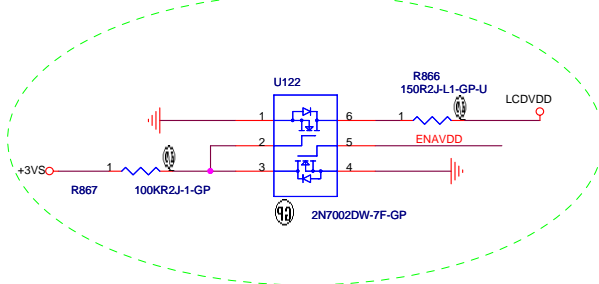


0329 PV Near the LVDS1 connector



LCD POWER CIRCUIT

0319 PV

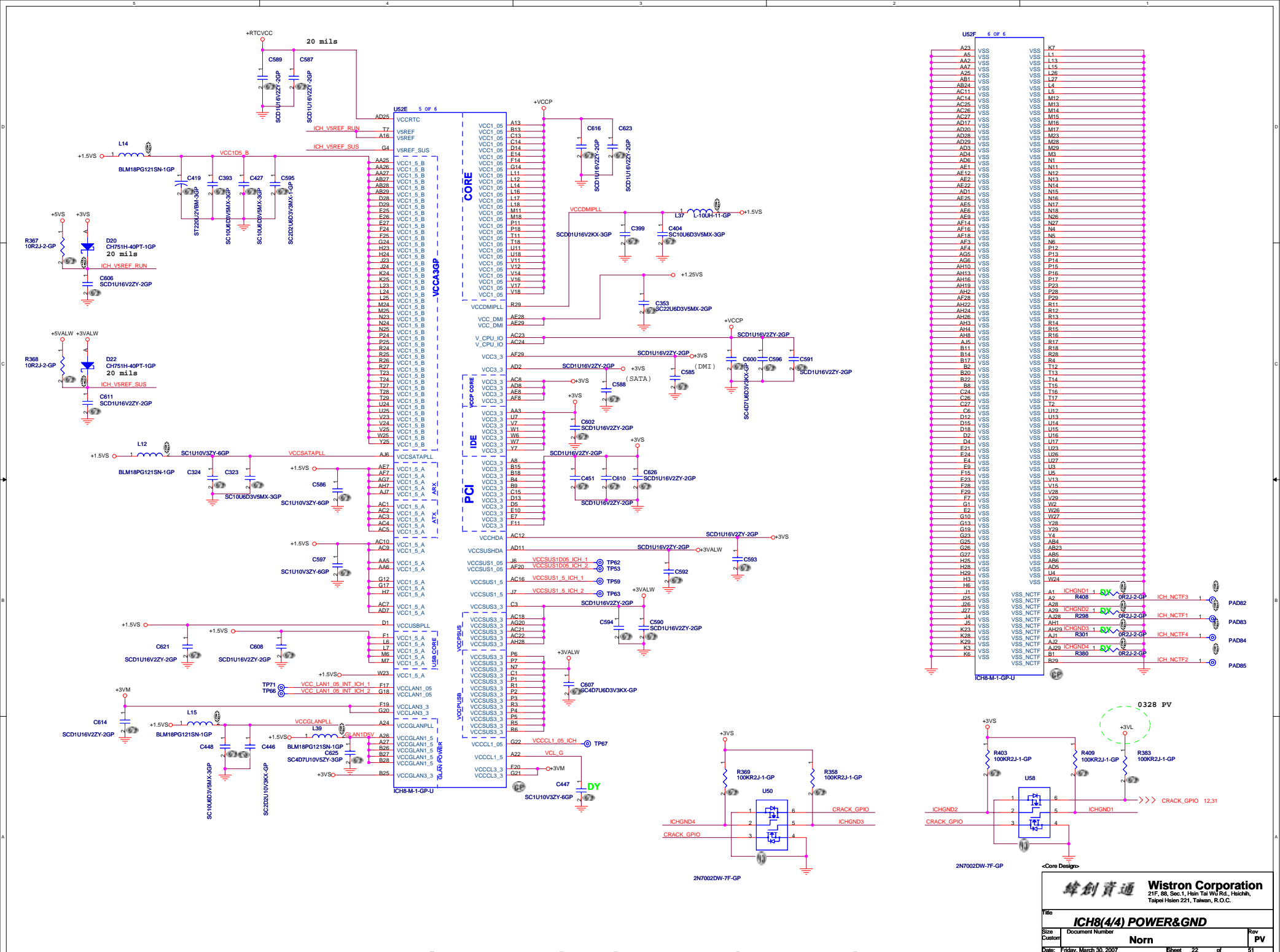


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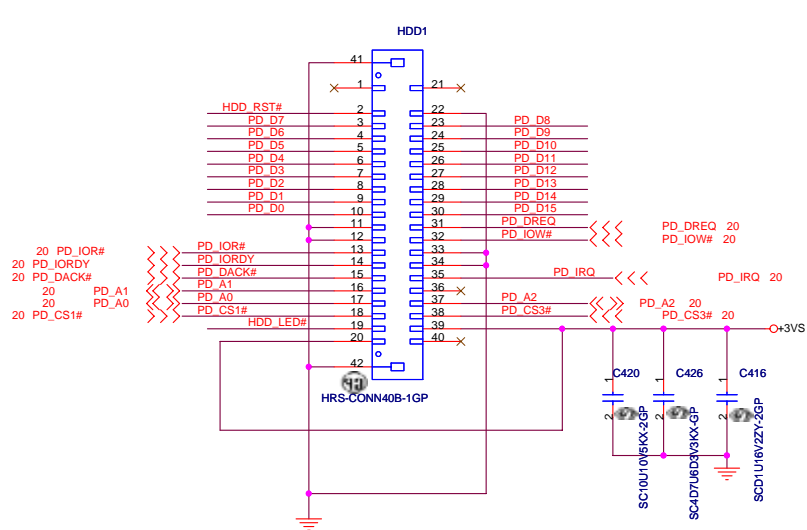
緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.		
Title		
LCD CONN.		
Size	Document Number	Rev
A3	NORN	PV
Date: Friday, March 30, 2007		
Sheet 18 of 51		







BTB PATA HDD



20 PD_D[0..15]

<<<>>>

8,19,26,30,49 PLT_RST# >>> R384 1 2 HDD_RST# 0R0402-PAD

21 HDD_HALTED# >>>

0328 PV

R870 100K R2J-1-GP

HDD_HALTED#
Q40 2N7002TPT-GP

0305 PV

R481 100R2J-2-GP

LED-AMBER-16-GP

PIN1 Aqua White

PIN4 Amber

HDD_PWR0 1 HDD_PWL#

LED5

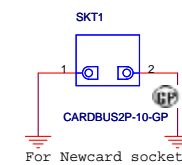
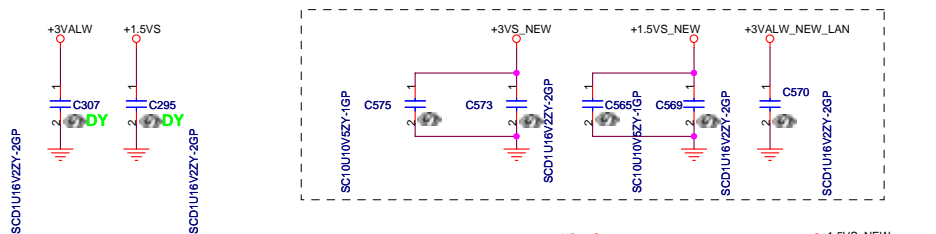
HDD_HALTED#

R496 200R2J-1-L-GP

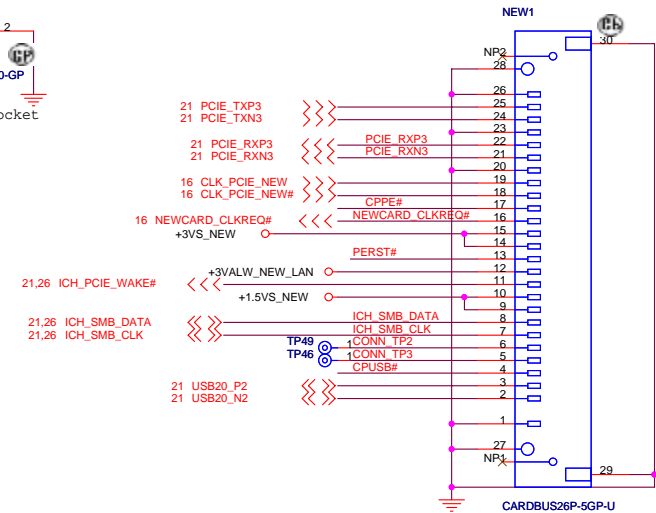
HDD_HALTED#_R

Place them Near to Chip

Place them Near to Connector



NEWCARD Connector



<Core Design>

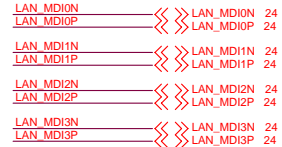
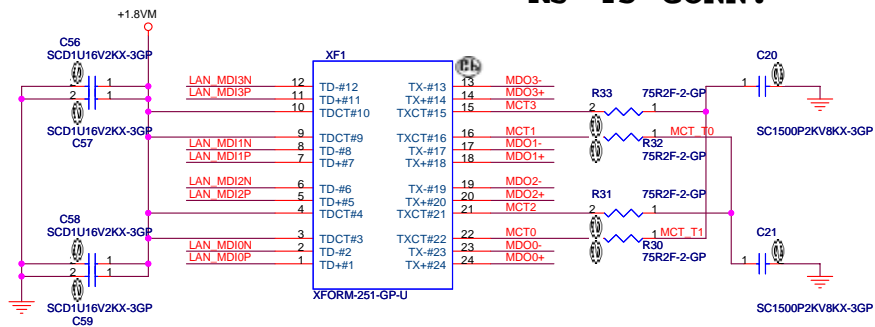
緯創資通

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

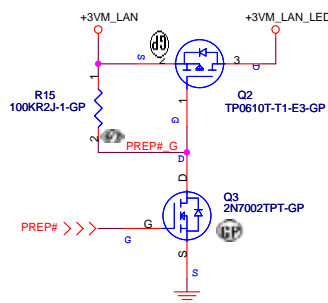
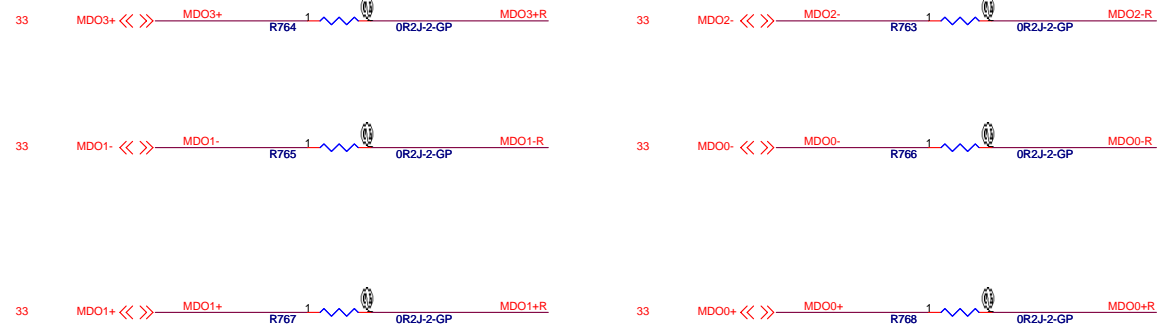
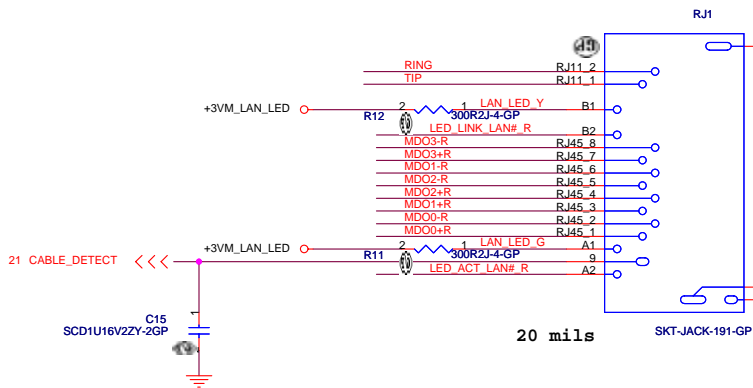
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HDD /NEW CARD CONN.			
Size	Document Number	Rev	
A3	NORN	PV	
Date:	Friday, March 30, 2007	Sheet	23 of 51



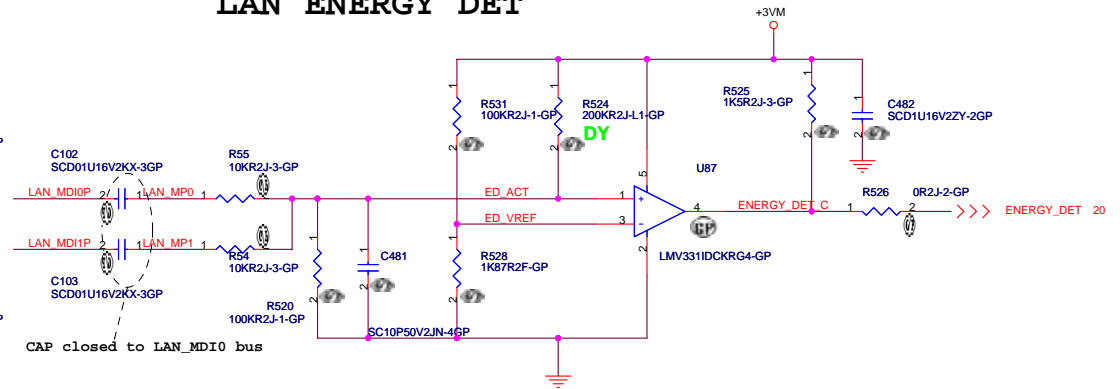
RJ-45 CONN.



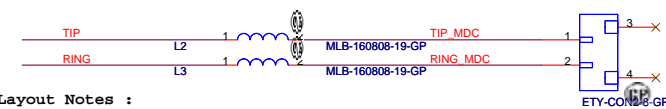
Note : MDO[3..0]++ signals should route to RJ45 first then to DOCK CONN .



LAN ENERGY DET

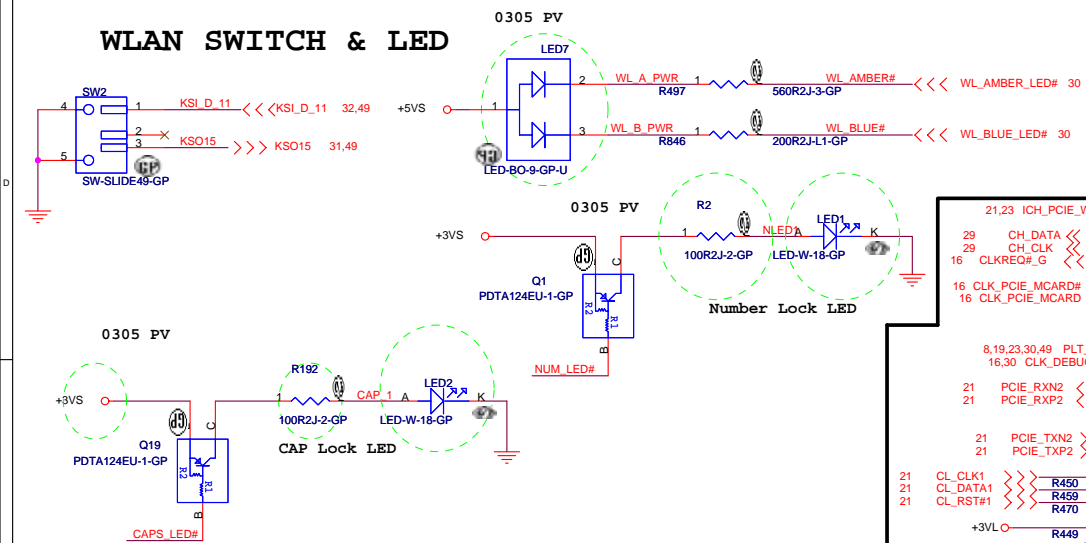


Layout Notes :
Place MODEM1 & BEAD near RJ11 connector

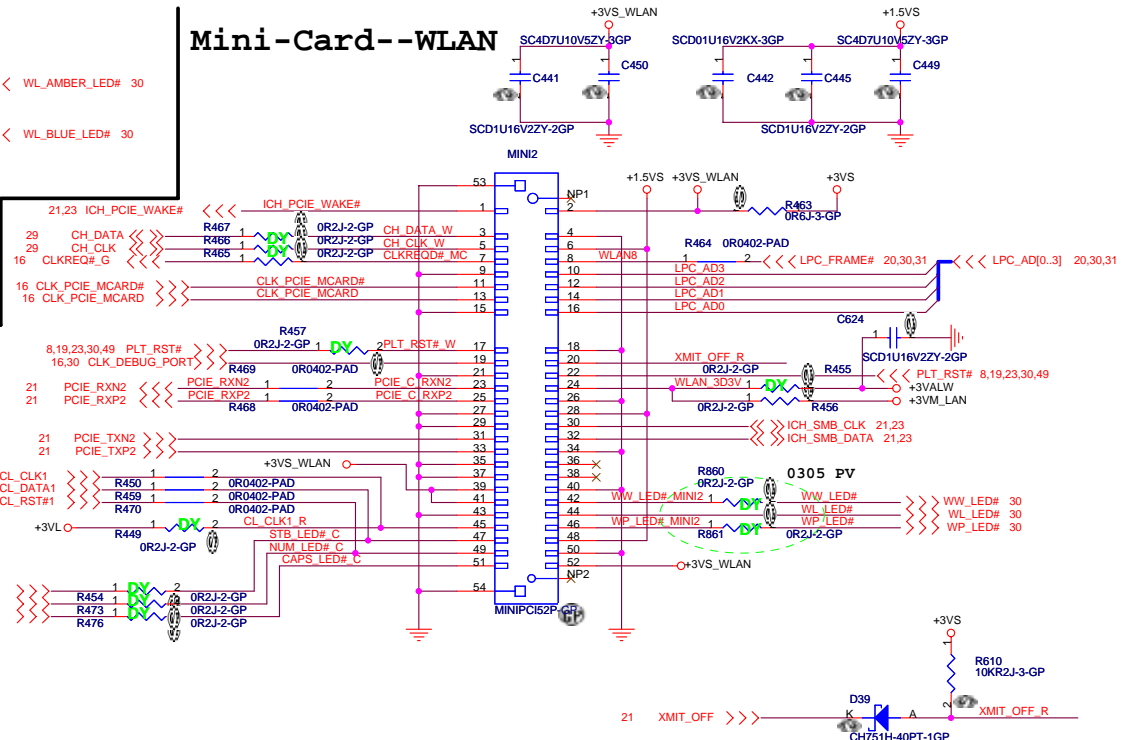


緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title	Magnetic & RJ45/RJ11		
Size A3	Document Number	Rev PV	
Date: Friday, March 30, 2007		Sheet 25 of 51	

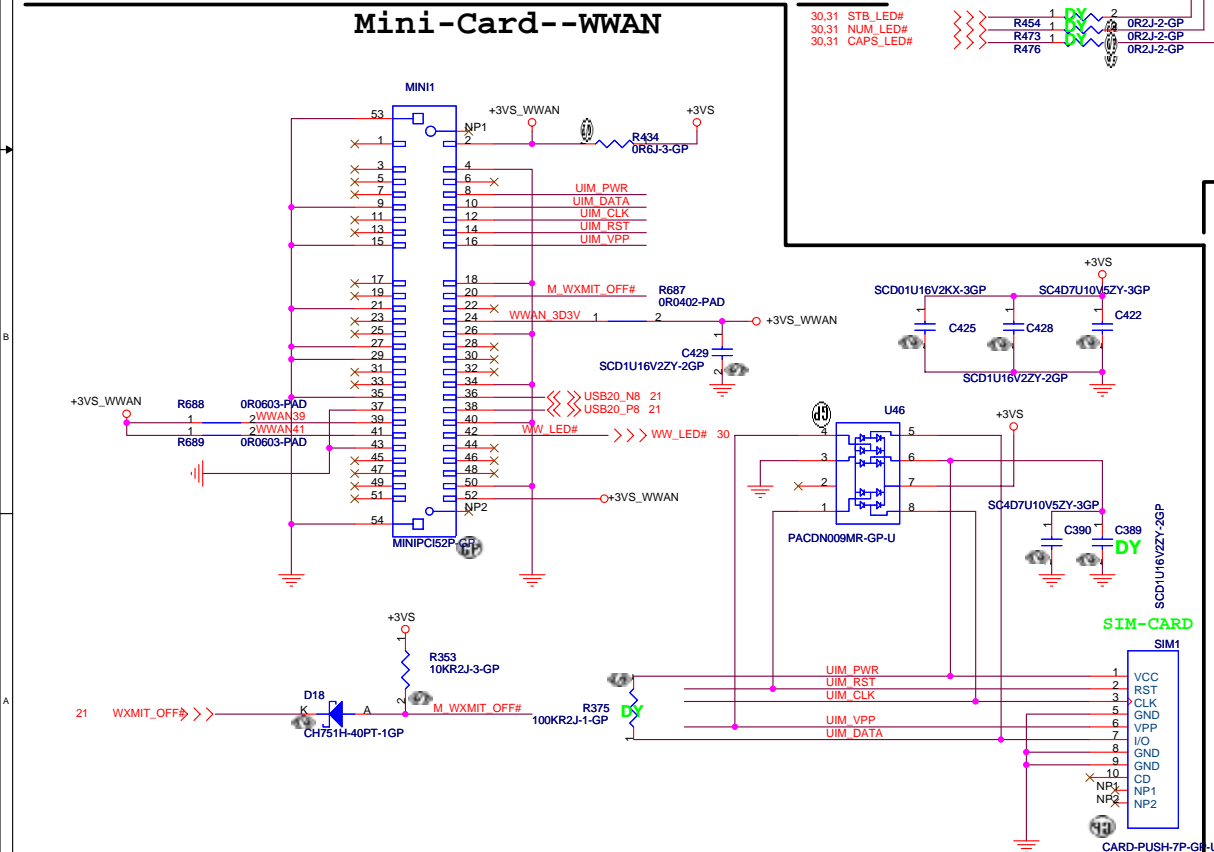
WLAN SWITCH & LED



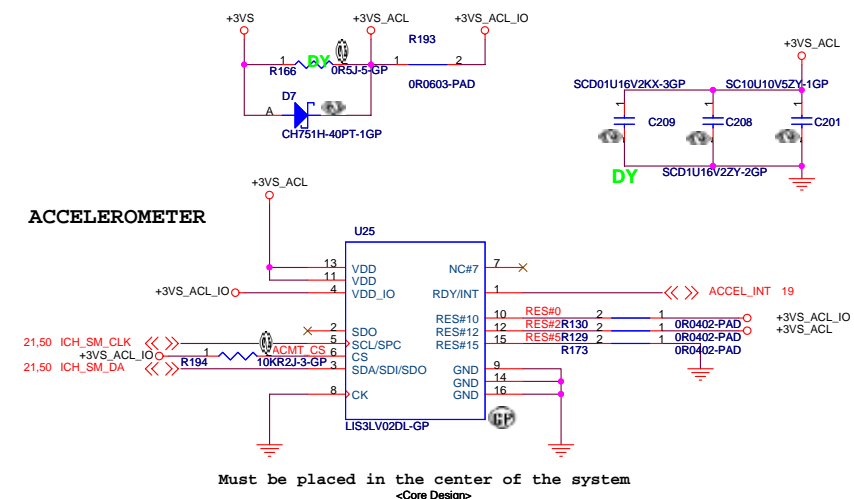
Mini-Card--WLAN



Mini-Card--WWAN

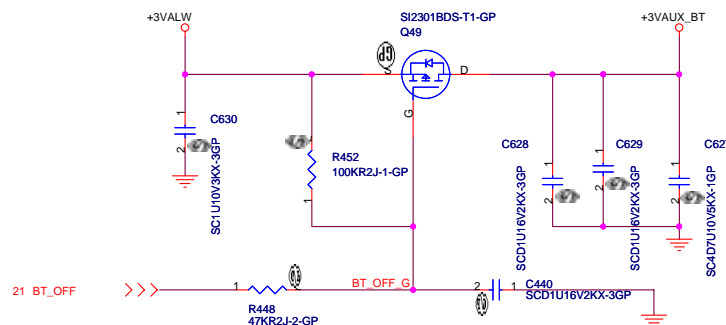
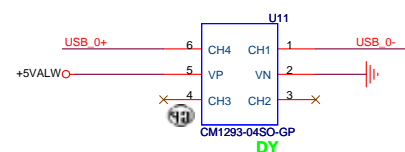
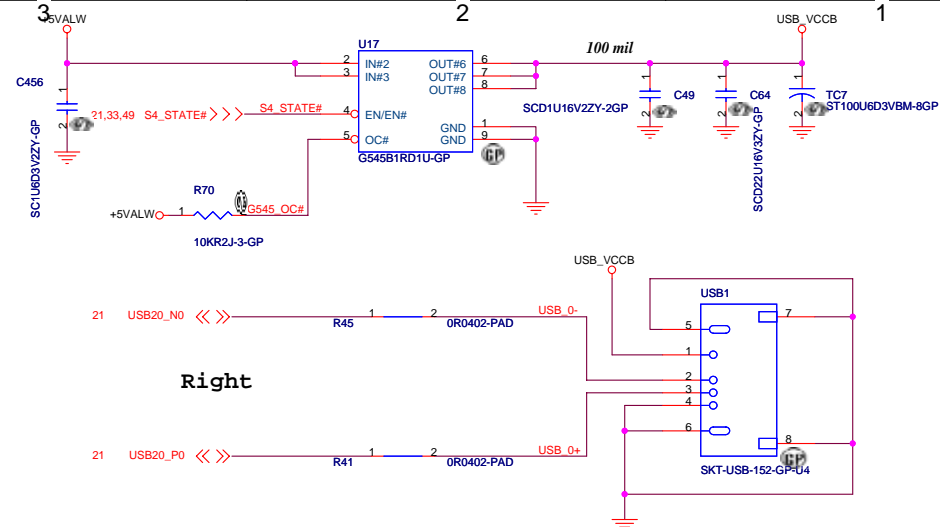


ACCELEROMETER

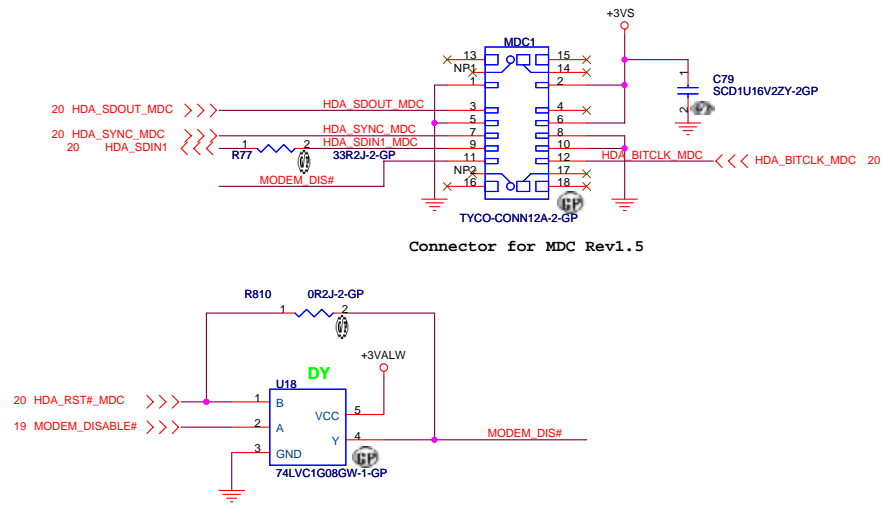


Must be placed in the center of the system
<Core Design>

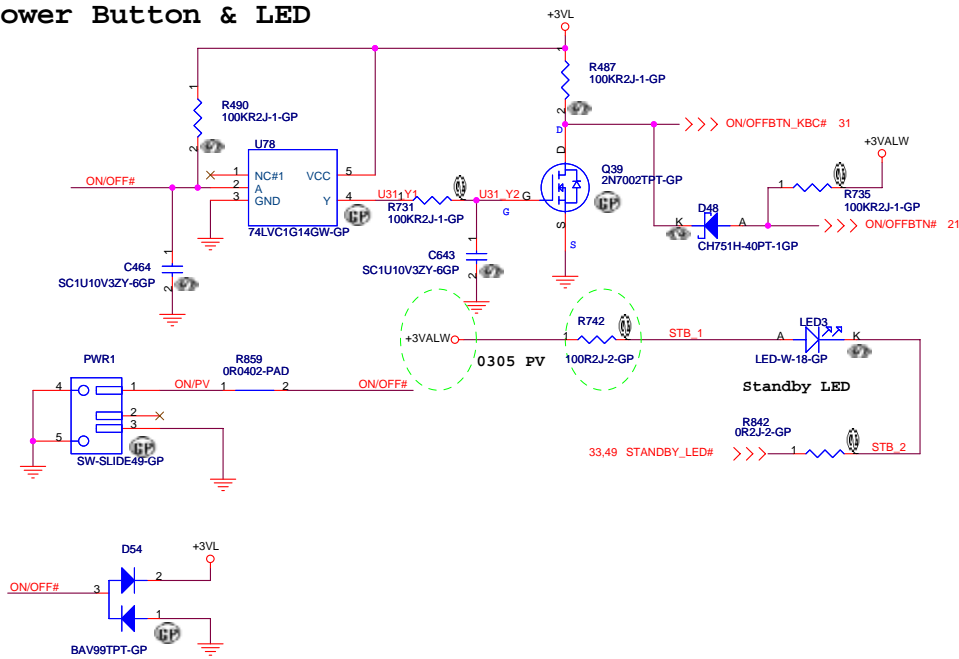
緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title	Mini-Card/Accelerometer
Size A3	Document Number
Date: Friday, March 30, 2007	Sheet 26 of 51



MDC 1.5 Conn.

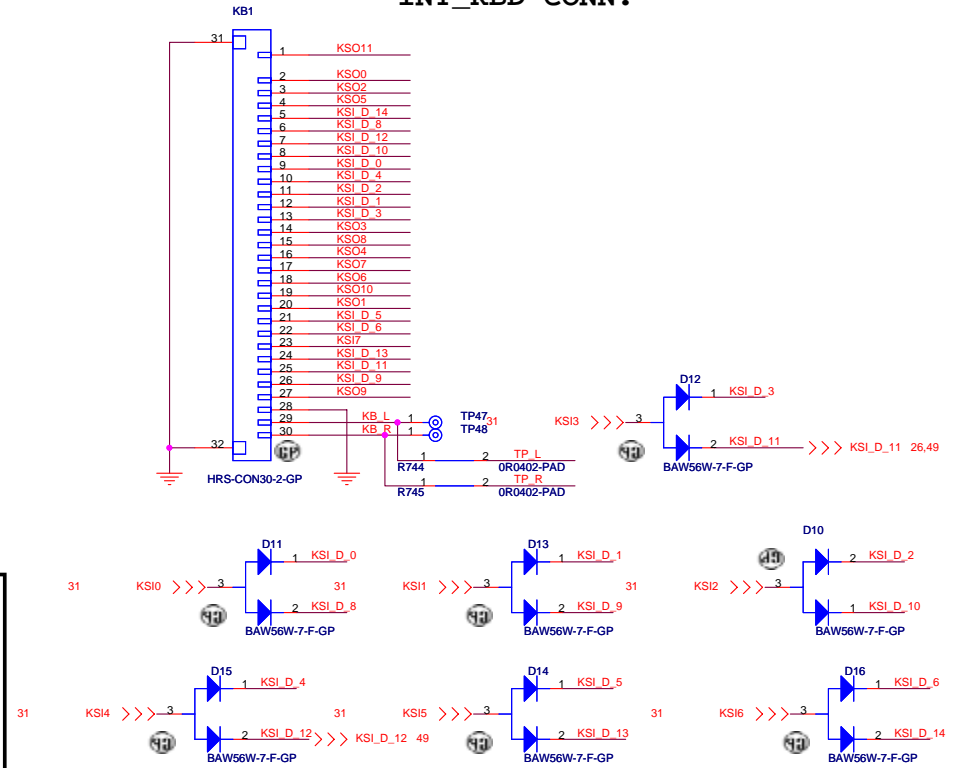


Power Button & LED

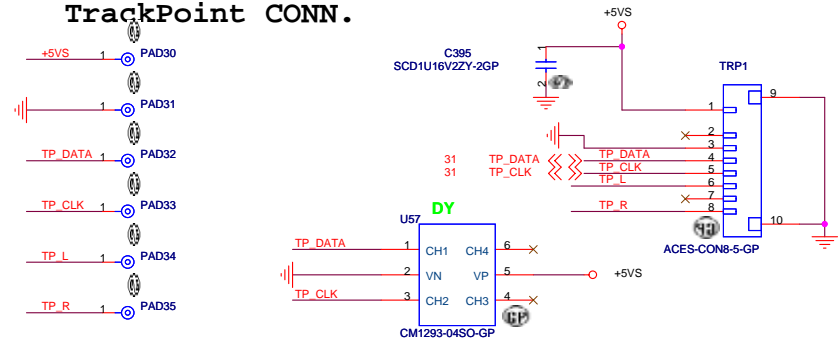


31 KSO[0..11] <<< KSO[0..11]
31 KSI[0..7] <<< KSI[0..7]

INT_KBD CONN.



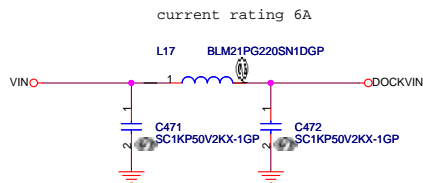
TrackPoint CONN.



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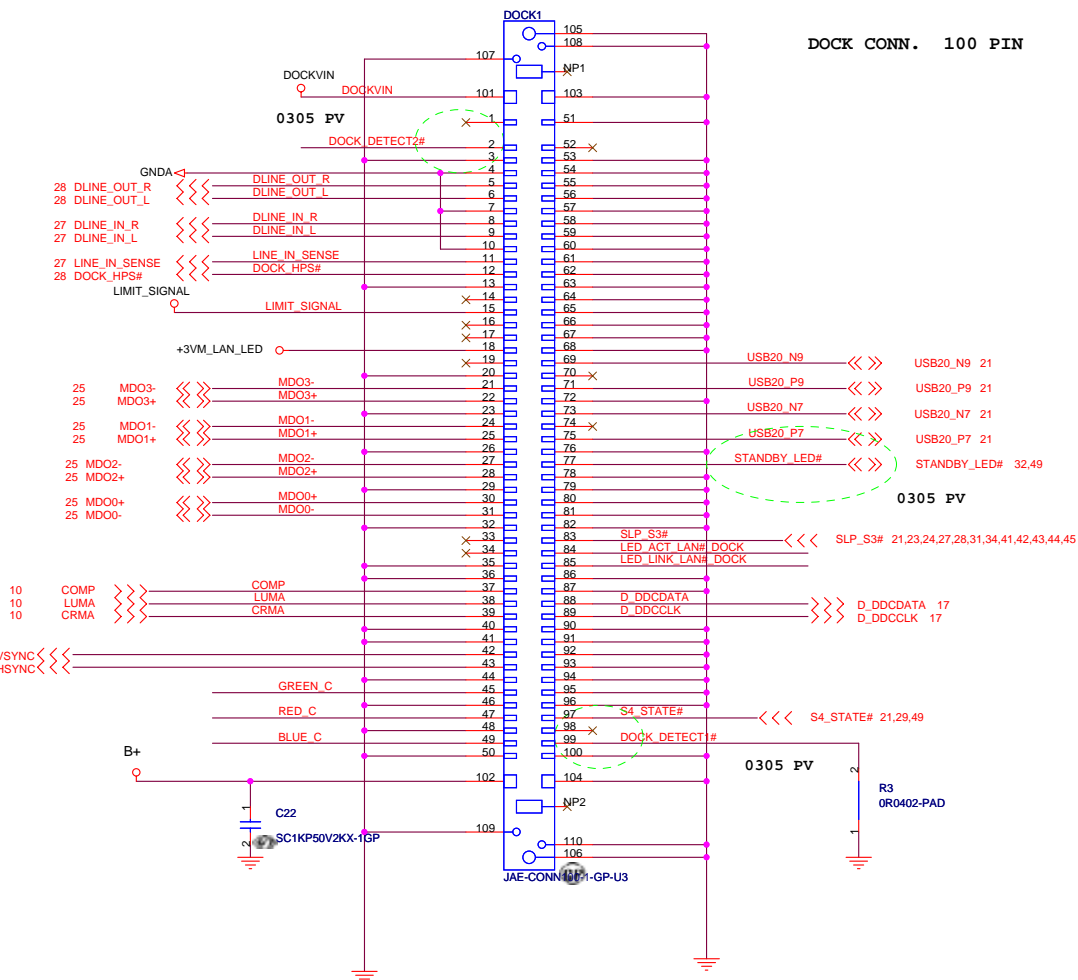
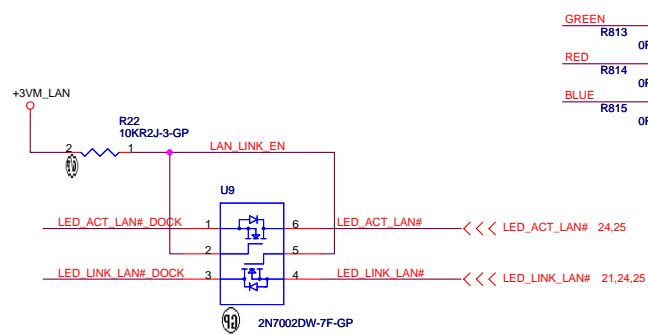
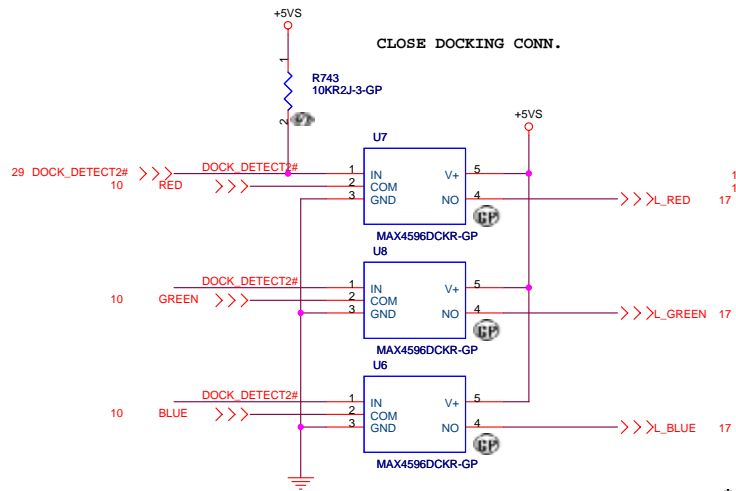
緯創資通 Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title	MDC/KBD/ON OFF/T.P.		
Size	Document Number	Rev	
A3	Norm	PV	
Date: Friday, March 30, 2007	Sheet 32 of 51		

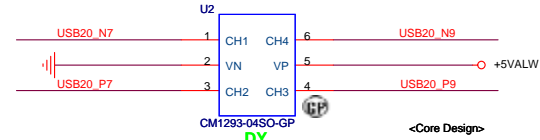


MAX4596

IN	NO TO COM COM TO NO
L	OFF
H	ON



Power Pins
 2 sets
 Set 1 = 18.5V @ 4A per contact
 Set 2 = VBATR @ 3A per contact



<Core Design>

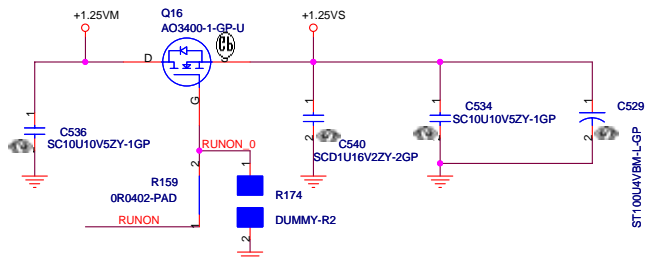
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 Taipei Hsien 221, Taiwan, R.O.C.

Title: **Docking CONN**

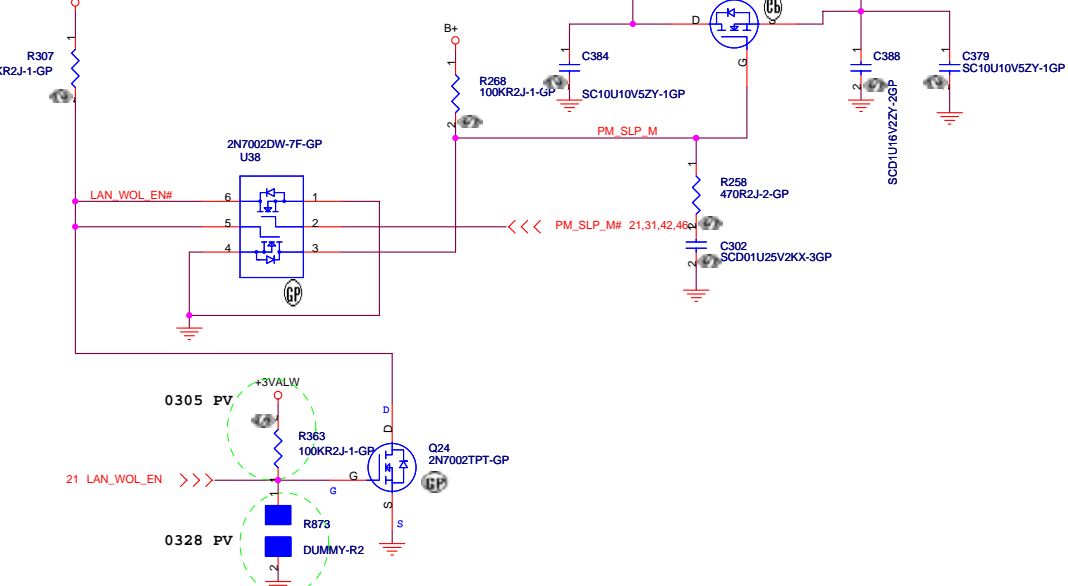
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Date: Friday, March 30, 2007 Sheet: 33 of 51

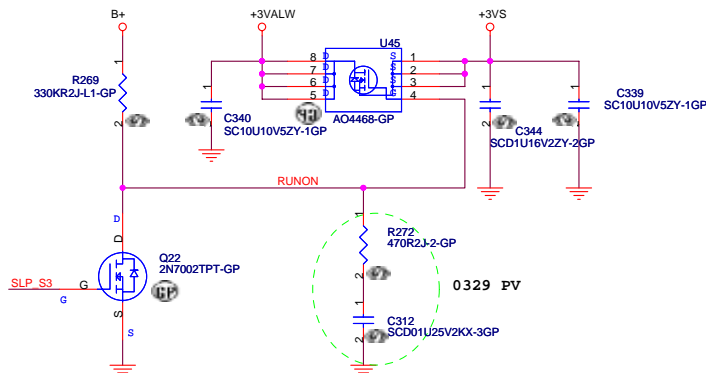
+1.25VM to +1.25VS Transfer



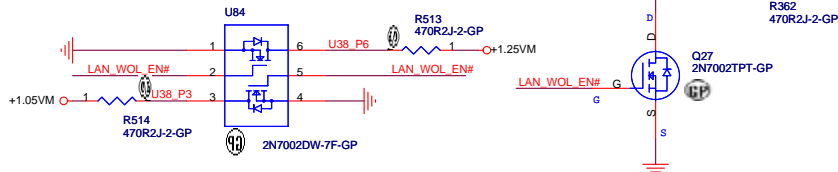
+3VALW to +3VM Transfer



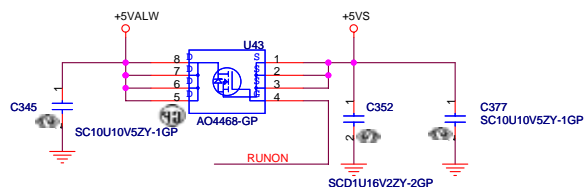
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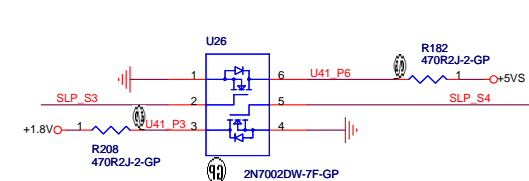
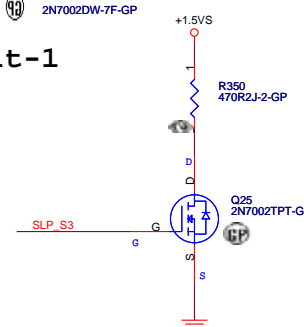
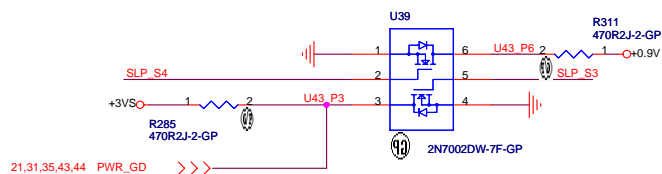
Discharge circuit-2 for V-M



+5VALW to +5VS Transfer



Discharge circuit-1

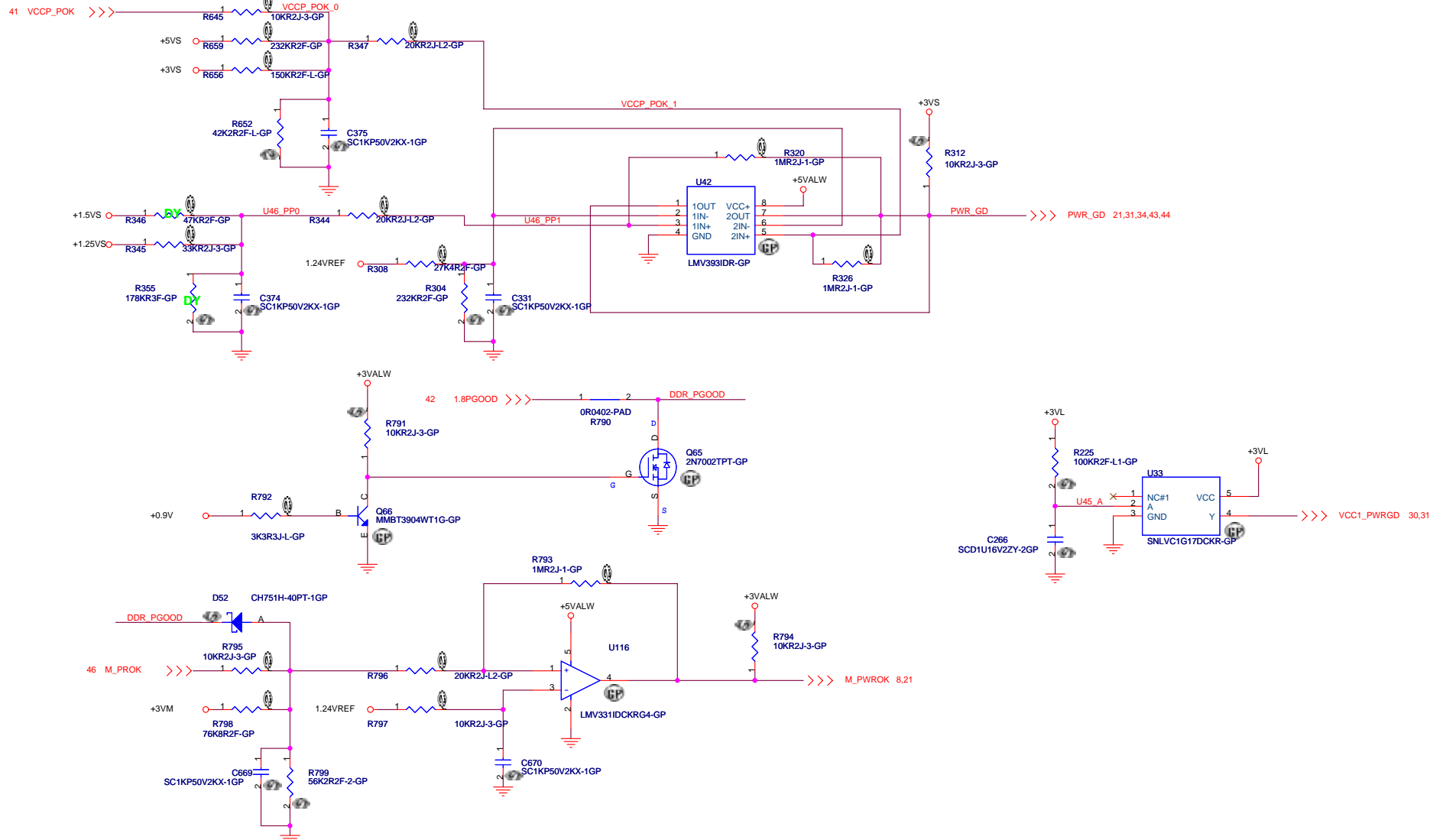


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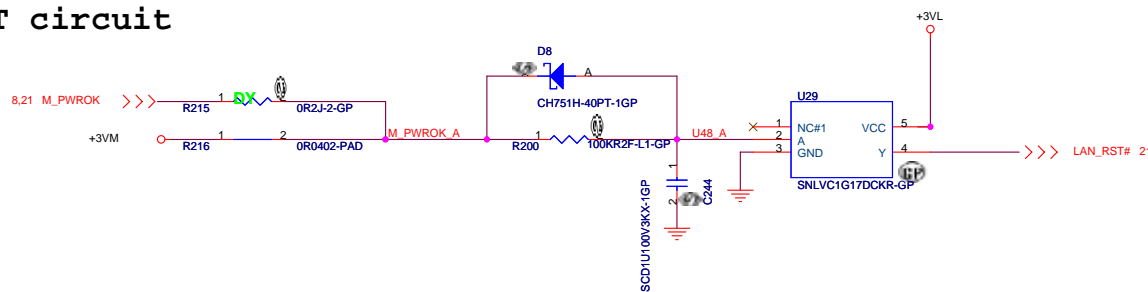
DC/DC Circuit

Size A3 Document Number **NORN** Rev **PV**

Date: Friday, March 30, 2007 Sheet 34 of 51



LAN_RST circuit



<Core Design>

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Title

POK CKT

Size

Document Number

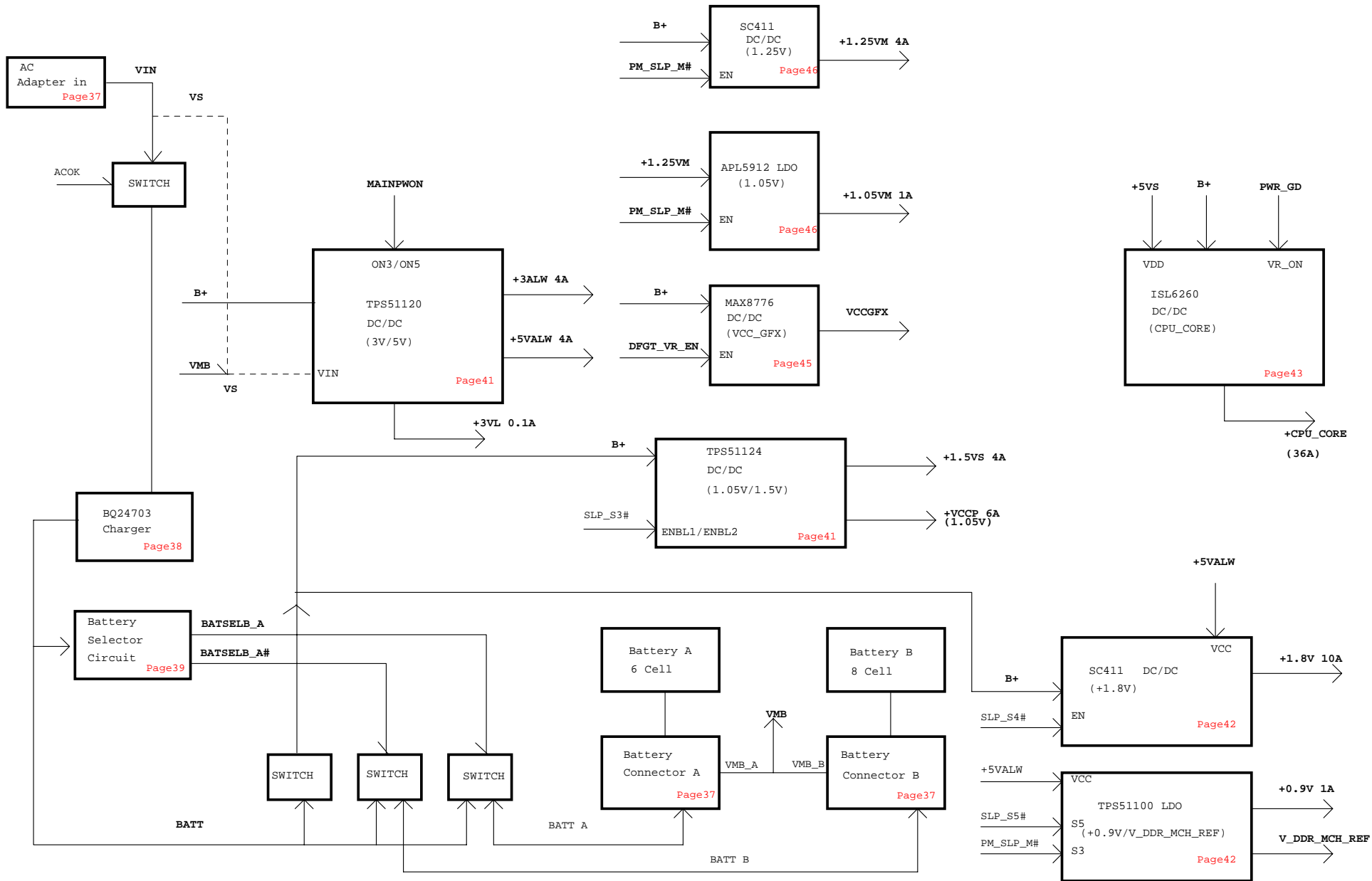
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Rev

PV

Date: Friday, March 30, 2007

Sheet 35 of 51



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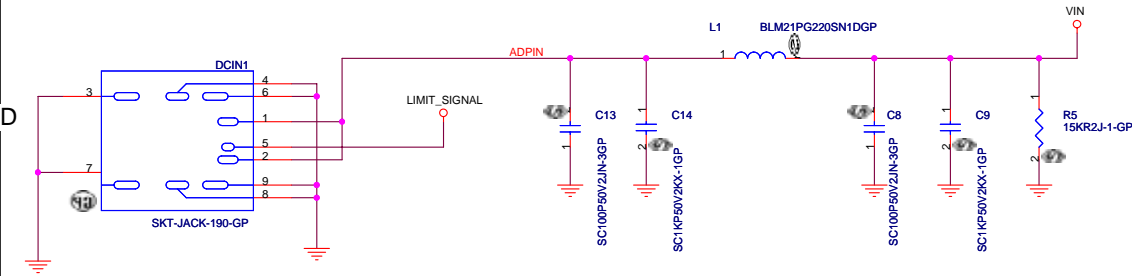
Title
Power Block Diagram

Size A3	Document Number NORN	Rev PV
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Date: Friday, March 23, 2007 Sheet 36 of 51

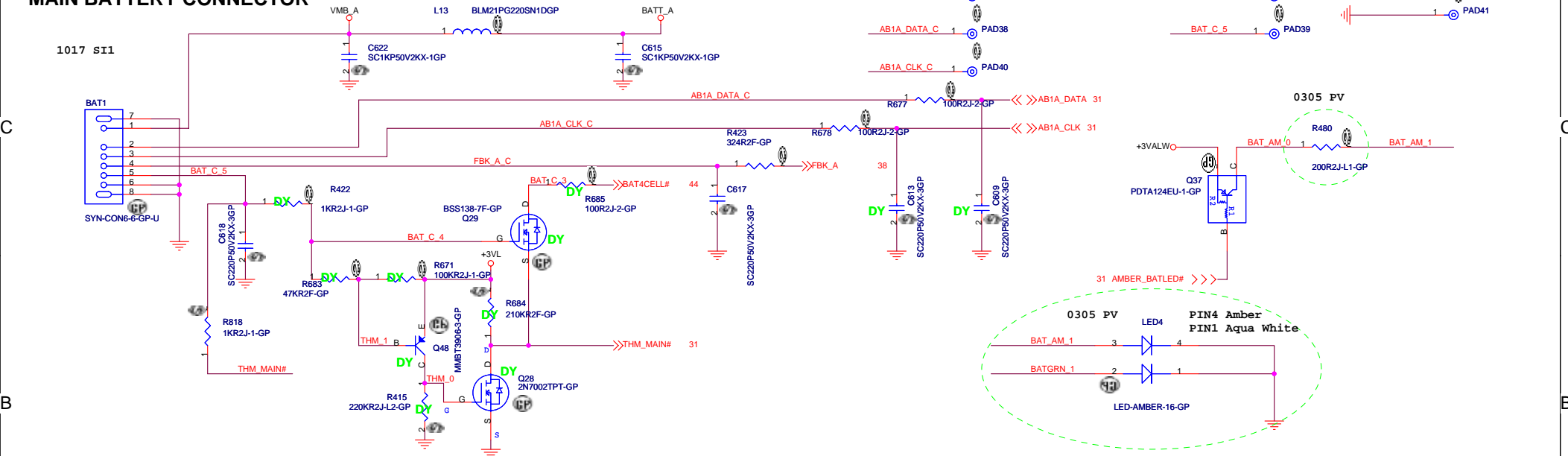
Adaptor in to generate DCBATOUT

Current Rating 6 A



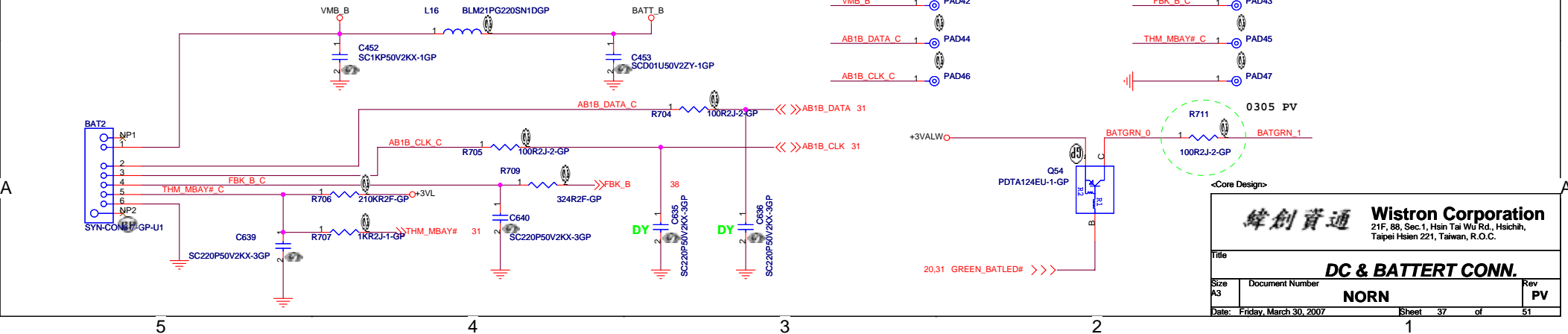
MAIN BATTERY CONNECTOR

Current Rating 6 A

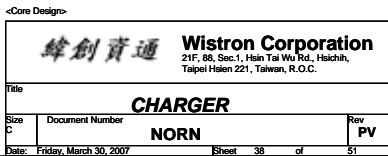


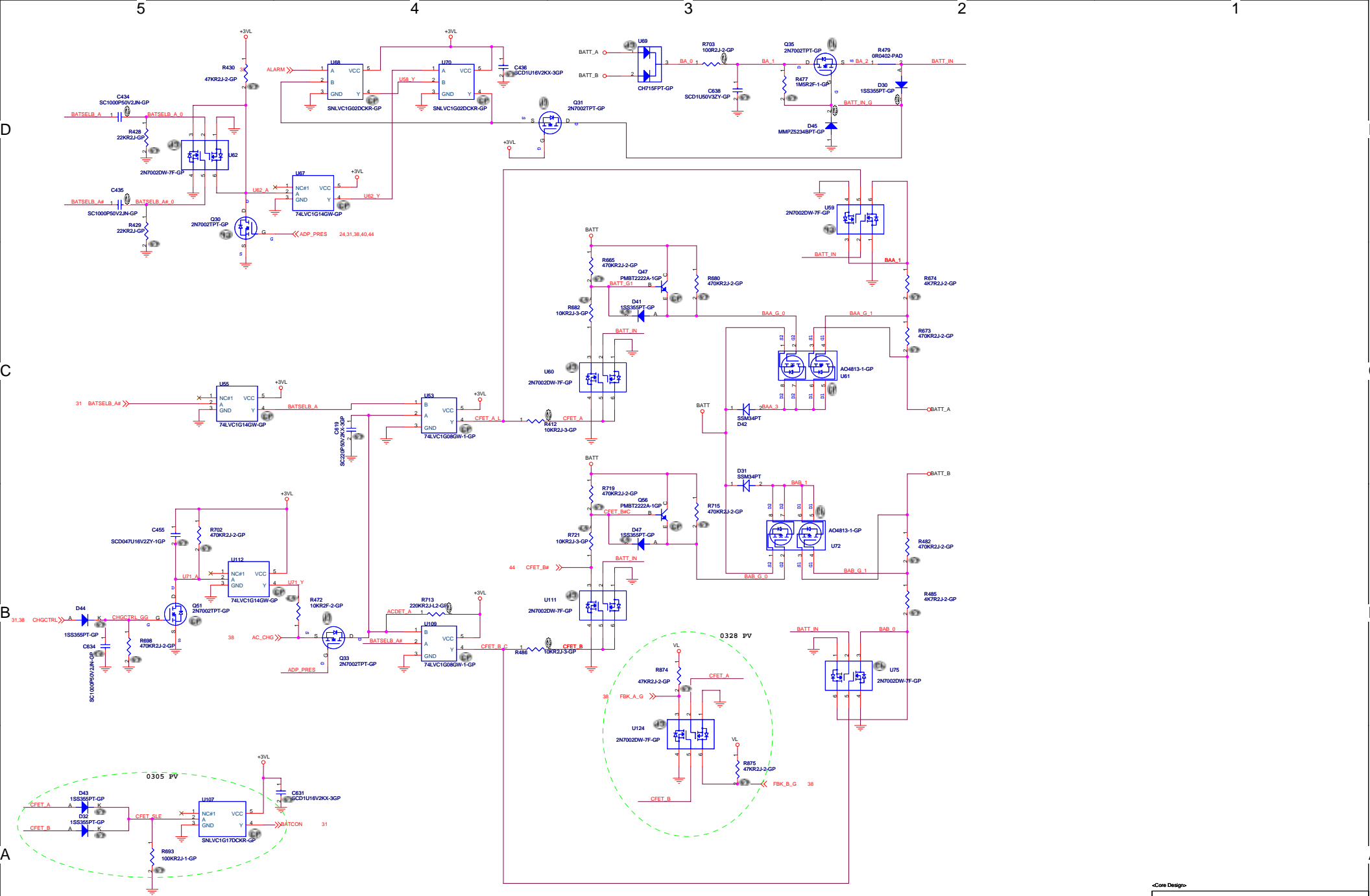
BAY BATTERY CONNECTOR

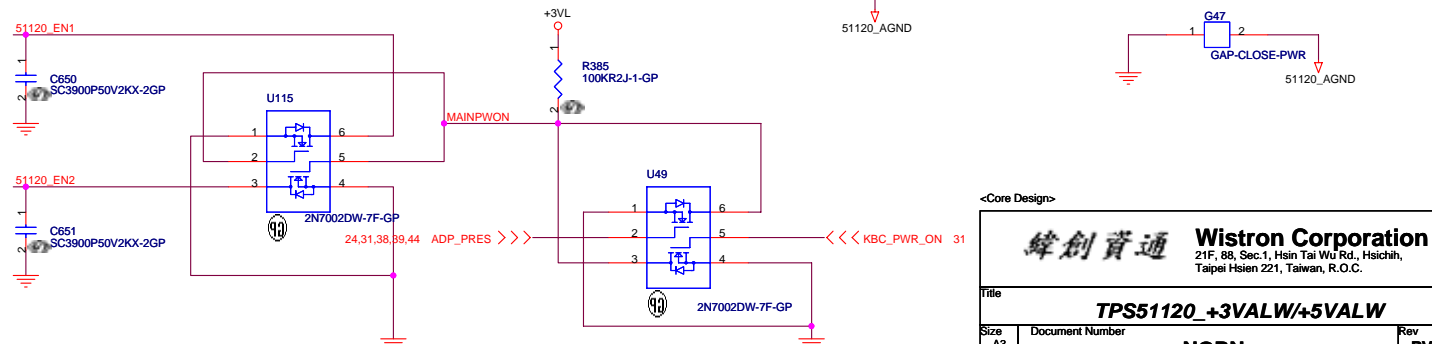
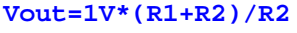
Current Rating 6 A



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DC & BATTERY CONN.			
Size	Document Number	Rev	
A3	NORN	PV	
Date:	Friday, March 30, 2007	Sheet	37 of 51

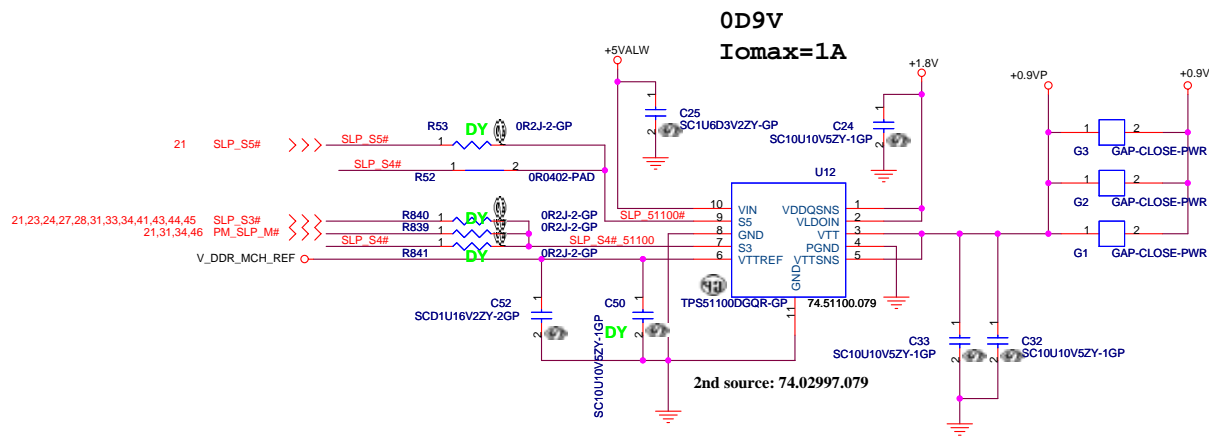
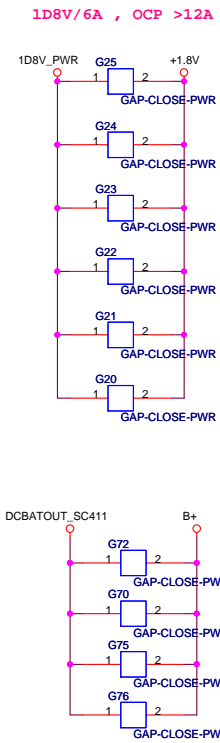
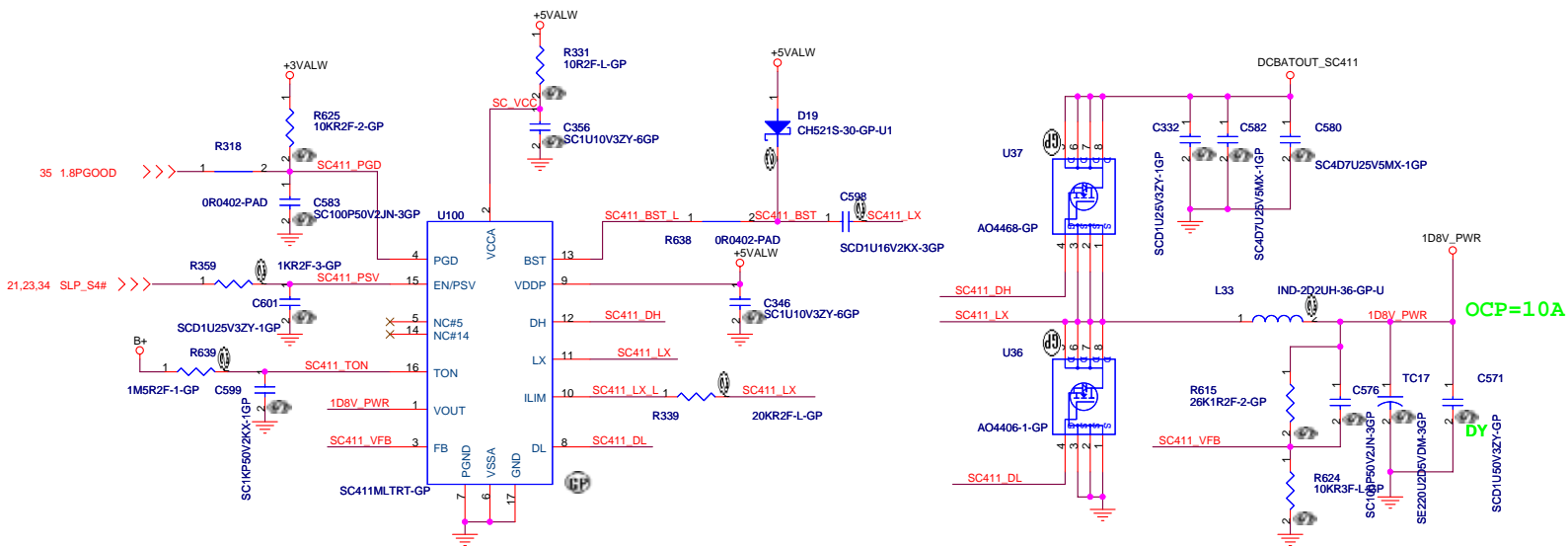


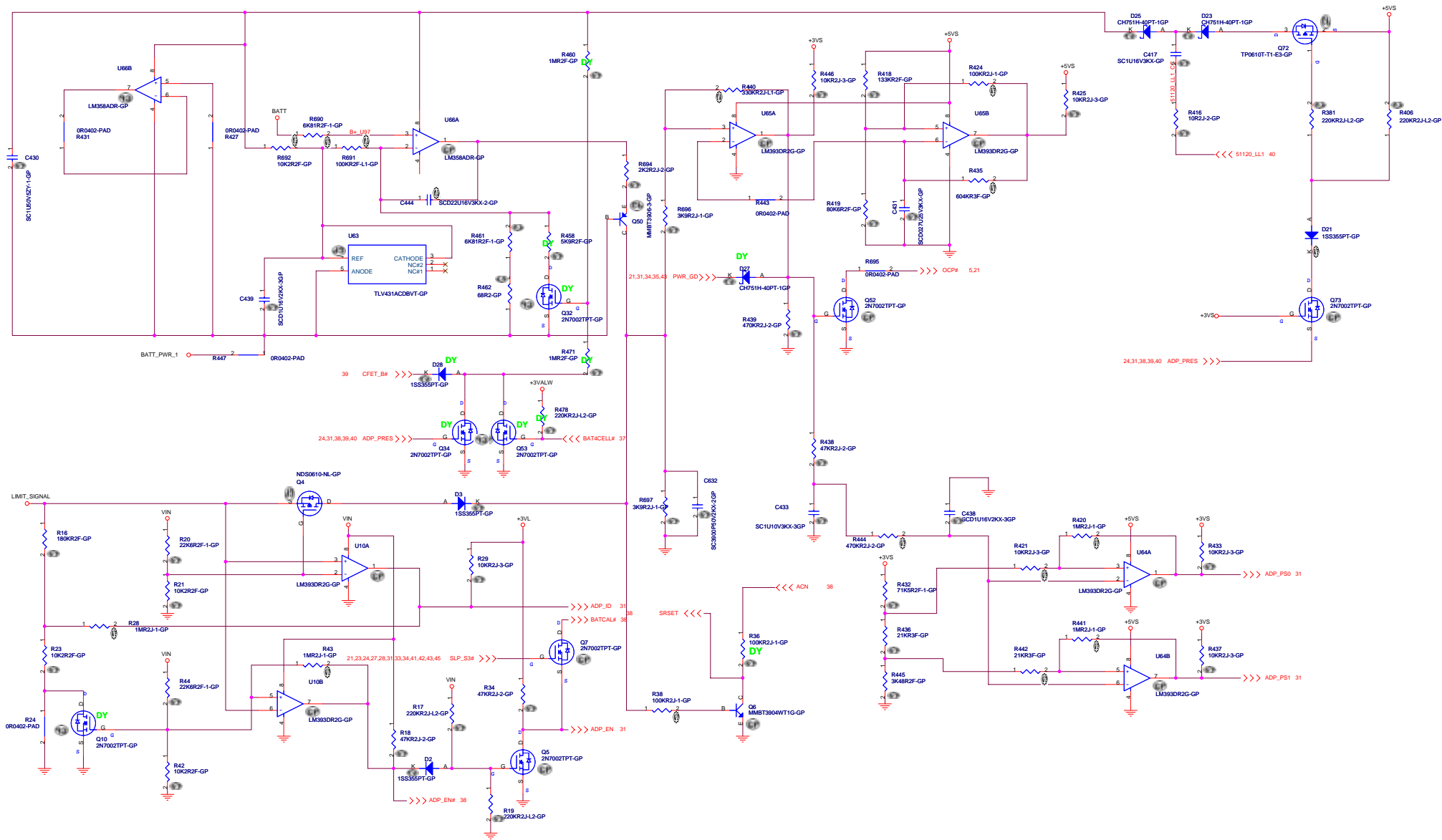




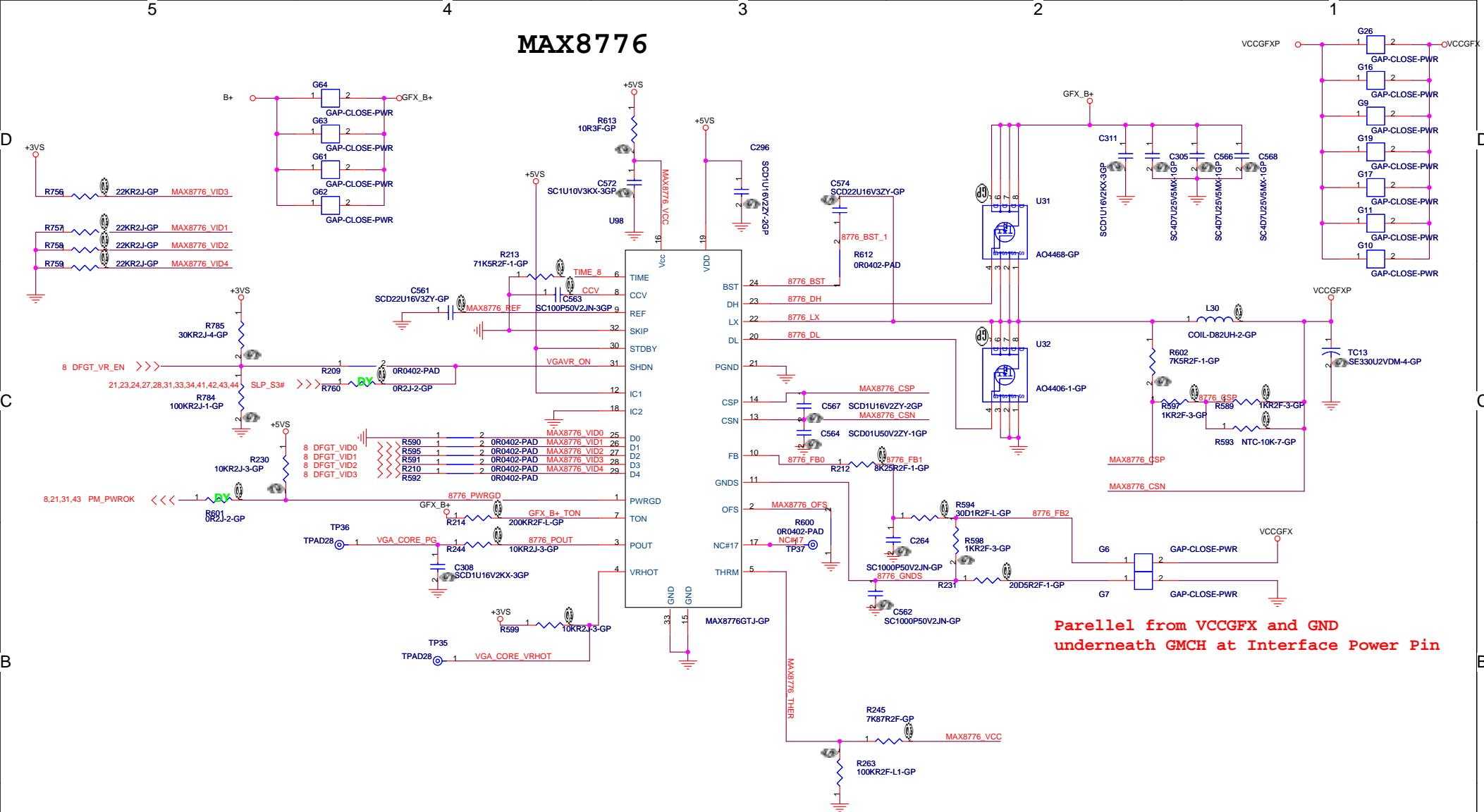
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Title			
TPS51120_+3VALW/+5VALW			
Size	Document Number		Rev
A3	NORN		PV
Date:	Friday, March 30, 2007	Sheet 40 of	51

SC411 for 1D8V /TPS51110_0D9V





MAX8776



Parallel from VCCGFX and GND
underneath GMCH at Interface Power Pin

<Core Design>

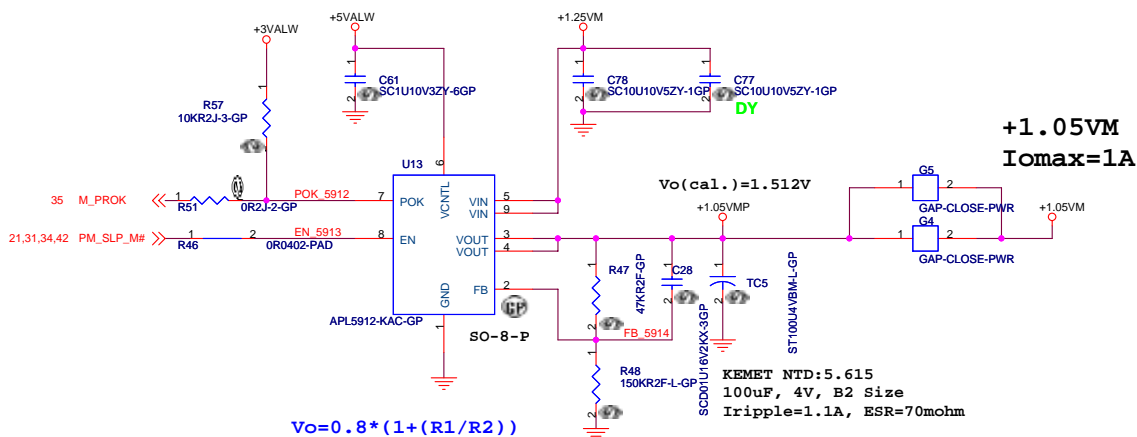
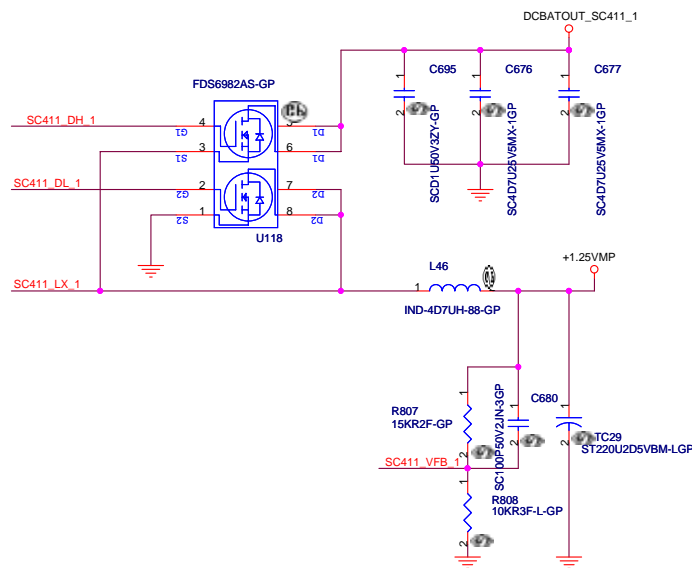
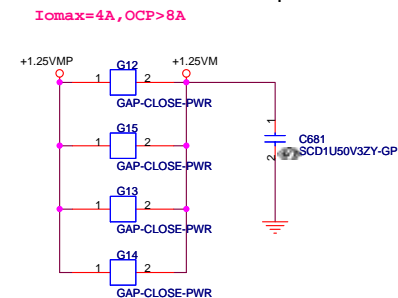
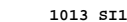
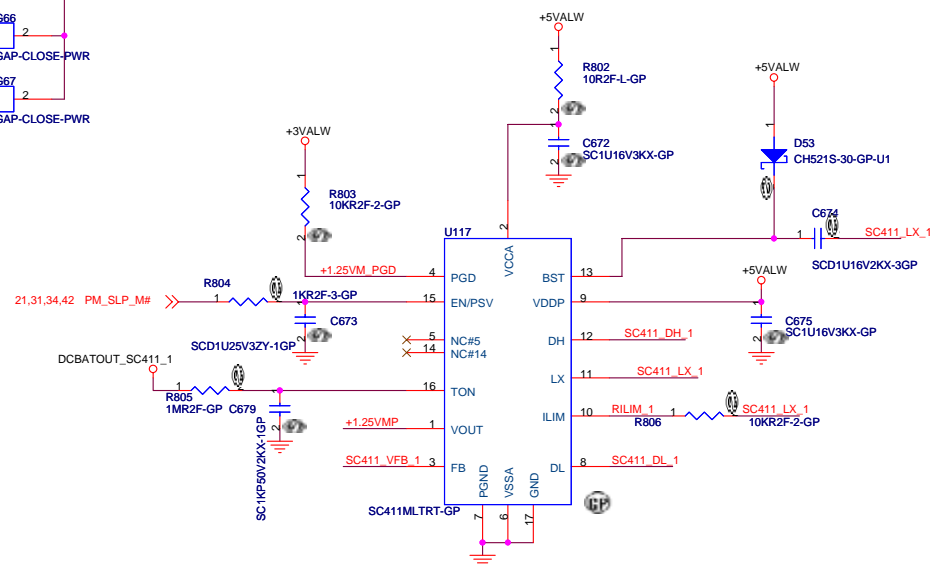
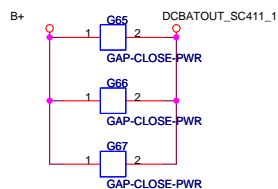
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Title **MAX8776 VCCGFX**

Size A3	Document Number NORN	Rev PV
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Date: Friday, March 30, 2007 Sheet 45 of 51


$$V_o = 0.8 * (1 + (R_1/R_2))$$

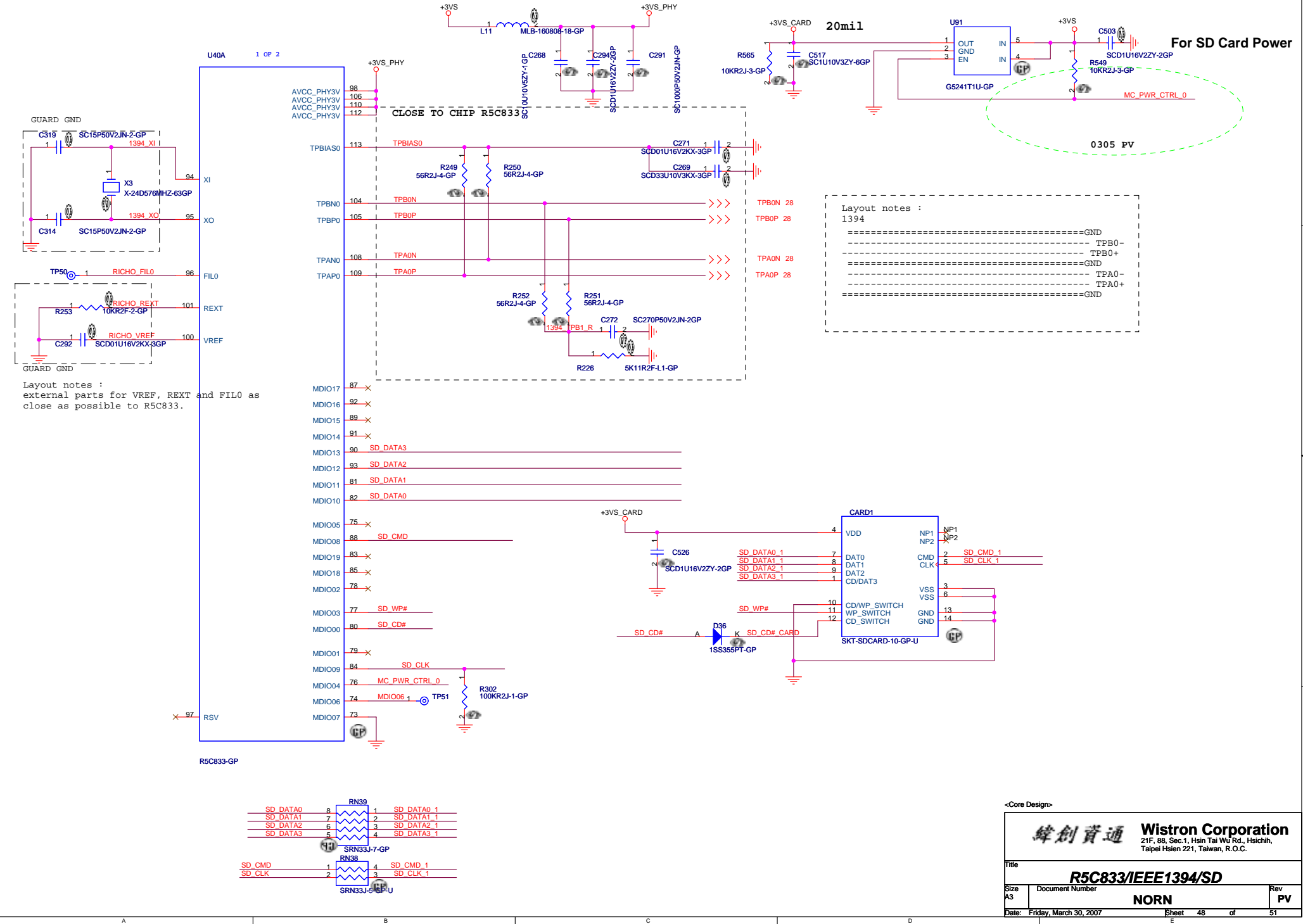
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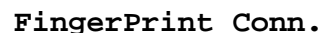
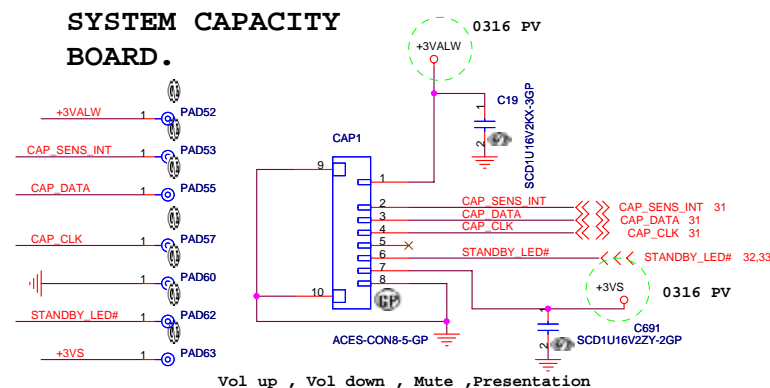
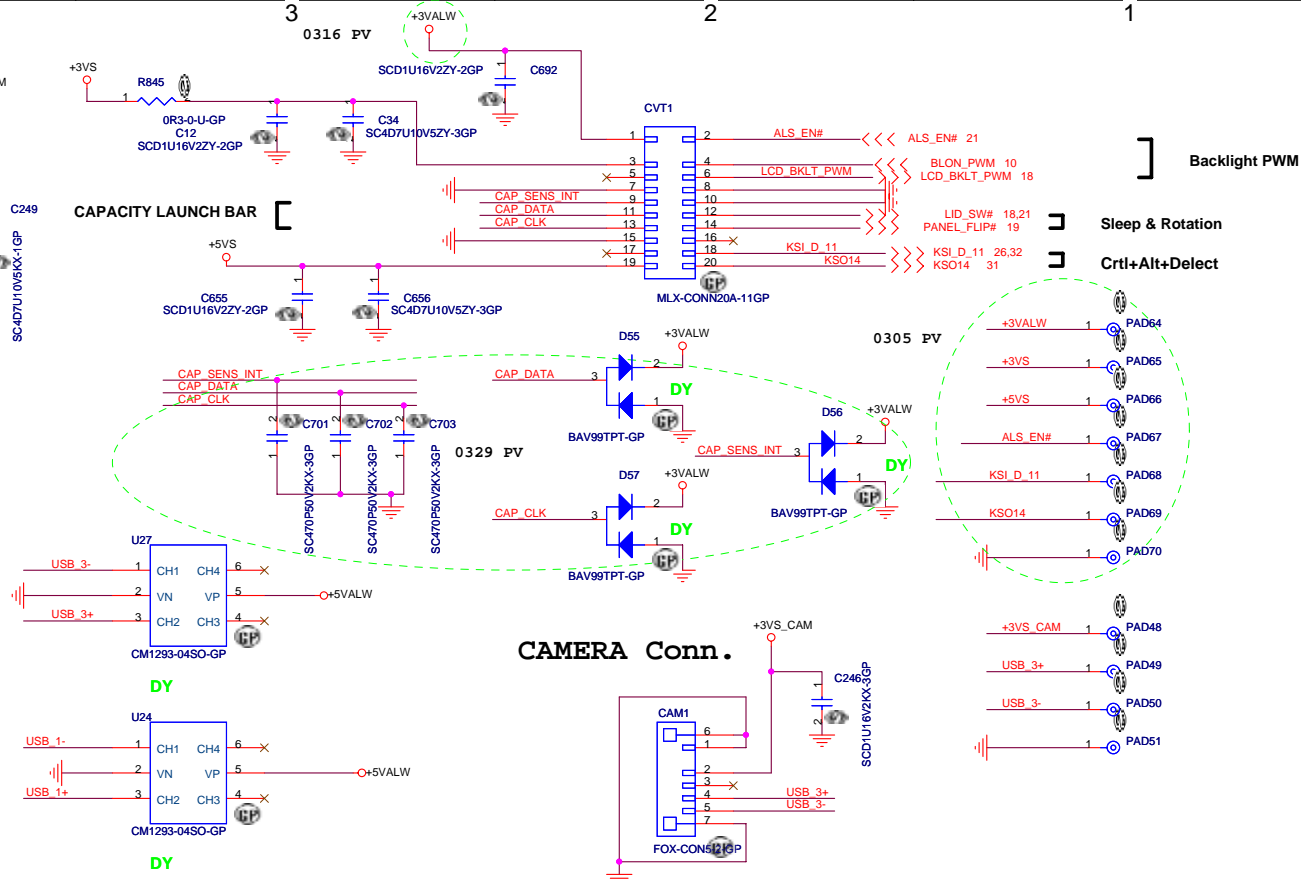
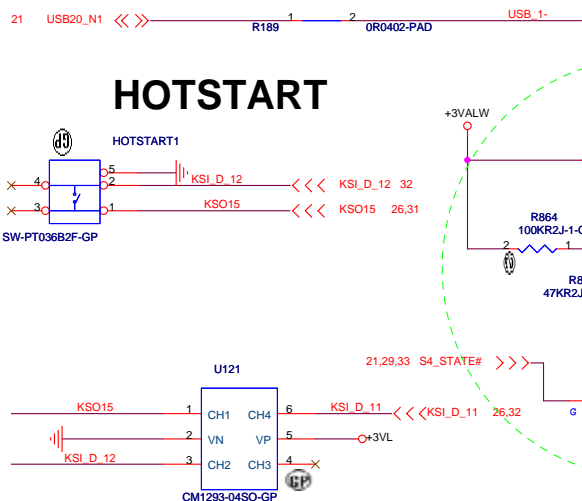
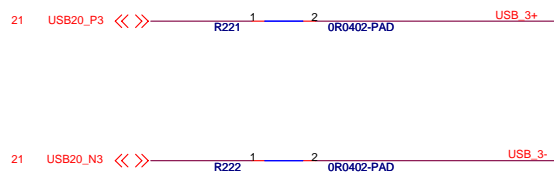
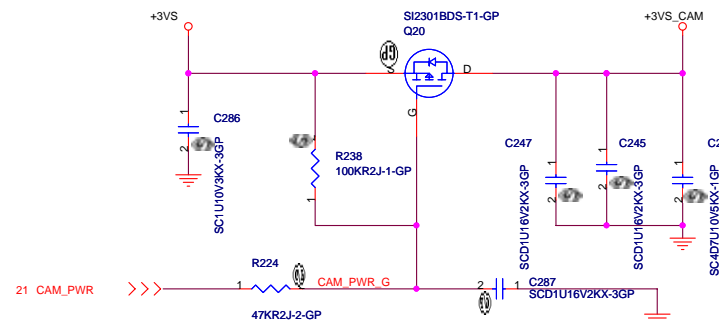
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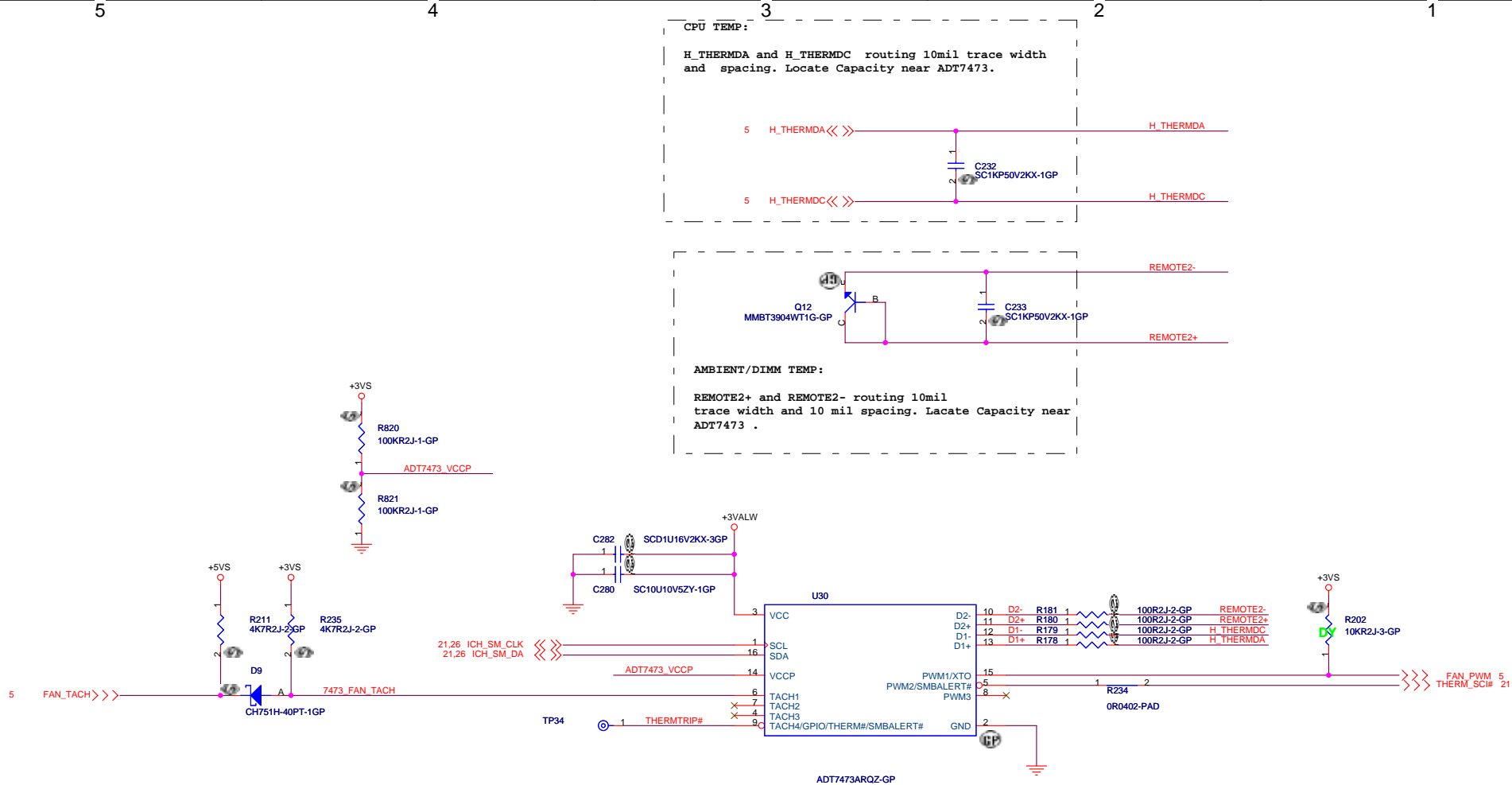
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Title			
SC411 +1.25VM/+1.05VM			
Size A3	Document Number		Rev
	NORN		PV
Date:	Friday, March 30, 2007	Sheet 46 of	51

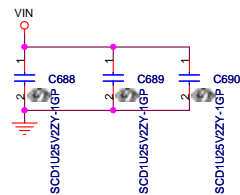
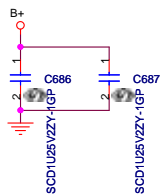




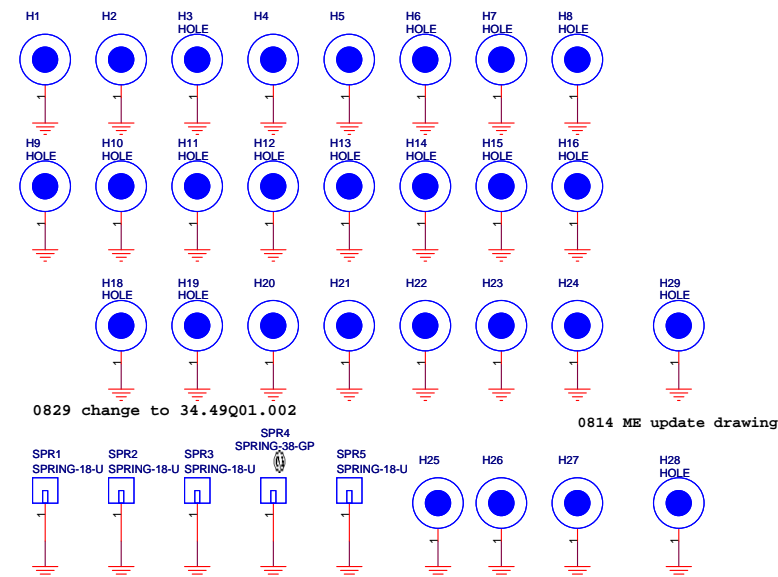


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Title			
ADT7473 Thermal Sensor			
Size A3	Document Number NORN	Rev PV	
Date: Friday, March 30, 2007	Sheet 50 of 51	1	



1101 HOLE H1,H2 change part to 34.4R836.001
 1101 HOLE H4,H5 change part to 34.4R837.001
 1101 HOLE H17 change part to 34.4R838.001
 1101 HOLE H20,H21 change part to 34.4R841.001
 1101 HOLE H22,H23,H24,H25 change part to 34.4R840.001
 1101 HOLE H26,H27 change part to 34.4R839.001



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Title	
Size	
A3	
Date: Tuesday, March 27, 2007	
Sheet 51 of 51	
1	
Document Number Norn Rev PV	