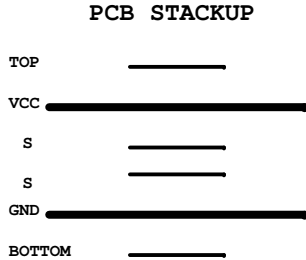
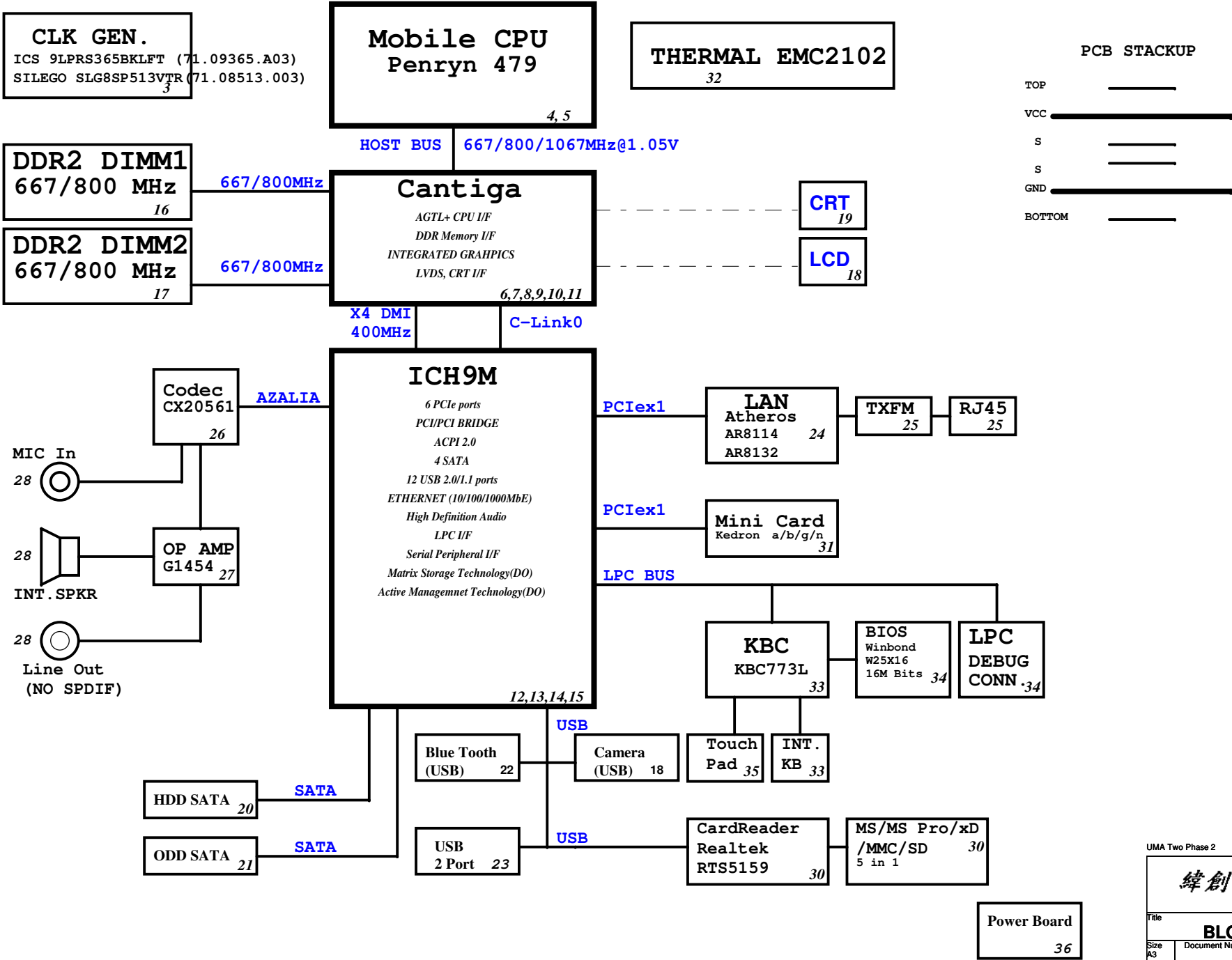


HM40-MV Block Diagram

Project code: 91.4BW01.001
PCB P/N : 48.4BW01.0SB
REVISION : 08242-SB



SYSTEM DC/DC TPS51125 42	
INPUTS	OUTPUTS
DCBATOUT	5V_S5 3D3V_S5

SYSTEM DC/DC TPS51124 44	
INPUTS	OUTPUTS
DCBATOUT	1D05V_S0 1D8V_S3

RT9026 43	
1D8V_S3	DDR_VREF_S0 DDR_VREF_S3

RT9018A 43	
1D8V_S3	1D5V_S0

CPU DC/DC ISL6266A 41	
INPUTS	OUTPUTS
DCBATOUT	VCC_CORE_S0 0.35~1.5V

CHARGER BQ24745 46	
INPUTS	OUTPUTS
DCBATOUT	BT+ DCBATOUT

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BLOCK DIAGRAM		
Size A3	Document Number	Rev SB
HM40-MV		
Date: Monday, November 24, 2008	Sheet 1	of 51

ICH9M Functional Strap Definitions

ICH9 EDS 642879 Rev.1.5 page 92

Signal	Usage/When Sampled	Comment
HDA_SDOUT	XOR Chain Entrance/ PCIE Port Config1 bit1, Rising Edge of PWROK	Allows entrance to XOR Chain testing when TP3 pulled low.When TP3 not pulled low at rising edge of PWROK,sets bit1 of RPC.PC(Config Registers: offset 224h). This signal has weak internal pull-down
HDA_SYNC	PCIE config1 bit0, Rising Edge of PWROK.	This signal has a weak internal pull-down. Sets bit0 of RPC.PC(Config Registers:Offset 224h)
GNT2#/GPIO53	PCIE config2 bit2, Rising Edge of PWROK.	This signal has a weak internal pull-up. Sets bit2 of RPC.PC2(Config Registers:Offset 0224h)
GPIO20	Reserved	This signal should not be pulled high.
GNT1#/GPIO51	ESI Strap (Server Only) Rising Edge of PWROK	ESI compatible mode is for server platforms only. This signal should not be pulled low for desktop and mobile.
GNT3#/GPIO55	Top-Block Swap Override. Rising Edge of PWROK.	Sampled low:Top-Block Swap mode(inverts A16 for all cycles targeting FWH BIOS space). Note: Software will not be able to clear the Top-Swap bit until the system is rebooted without GNT3# being pulled down.
GNT0#: SPI_CS1#/GPIO58	Boot BIOS Destination Selection 0:1. Rising Edge of PWROK.	Controllable via Boot BIOS Destination bit (Config Registers:Offset 3410h:bit 11:10). GNT0# is MSB, 01-SPI, 10-PCI, 11-LPC.
SPI_MOSI	Integrated TPM Enable, Rising Edge of CLPWROK	Sample low: the Integrated TPM will be disabled. Sample high: the MCH TPM enable strap is sampled low and the TPM Disable bit is clear, the Integrated TPM will be enable.
GPIO49	DMI Termination Voltage, Rising Edge of PWROK.	The signal is required to be low for desktop applications and required to be high for mobile applications.
SATALED#	PCI Express Lane Reversal. Rising Edge of PWROK.	Signal has weak internal pull-up. Sets bit 27 of MPC.LR(Device 28:Function 0:Offset D8)
SPKR	No Reboot. Rising Edge of PWROK.	If sampled high, the system is strapped to the "No Reboot" mode(ICH9 will disable the TCO Timer system reboot feature). The status is readable via the NO REBOOT bit.
TP3	XOR Chain Entrance. Rising Edge of PWROK.	This signal should not be pull low unless using XOR Chain testing.
GPIO33/ HDA_DOCK_EN#	Flash Descriptor Security Override Strap Rising Edge of PWROK	Sampled low:the Flash Descriptor Security will be overridden. If high,the security measures will be in effect.This should only be enabled in manufacturing environments using an external pull-up resistor.

ICH9M Integrated Pull-up and Pull-down Resistors

ICH9 EDS 642879 Rev.1.5

SIGNAL	Resistor Type/Value
CL_CLK[1:0]	PULL-UP 20K
CL_DATA[1:0]	PULL-UP 20K
CL_RST0#	PULL-UP 20K
DPRS1PVR/GPIO16	PULL-DOWN 20K
ENERGY_DETECT	PULL-UP 20K
HDA_BIT_CLK	PULL-DOWN 20K
HDA_DOCK_EN#/GPIO33	PULL-UP 20K
HDA_RST#	PULL-DOWN 20K
HDA_SDIN[3:0]	PULL-DOWN 20K
HDA_SDOUT	PULL-DOWN 20K
HDA_SYNC	PULL-DOWN 20K
GLAN_DOCK#	The pull-up or pull-down active when configured for native GLAN_DOCK# functionality and determined by LAN controller
GNT[3:0]#/GPIO[55, 53, 51]	PULL-UP 20K
GPIO[20]	PULL-DOWN 20K
GPIO[49]	PULL-UP 20K
LDA[3:0]#/FWH[3:0]#	PULL-UP 20K
LAN_RXD[2:0]	PULL-UP 20K
LDRQ[0]	PULL-UP 20K
LDRQ[1]/GPIO23	PULL-UP 20K
PME#	PULL-UP 20K
PWRBTN#	PULL-UP 20K
SATALED#	PULL-UP 15K
SPI_CS1#/GPIO58/CLGPIO6	PULL-UP 20K
SPI_MOSI	PULL-DOWN 20K
SPI_MISO	PULL-UP 20K
SPKR	PULL-DOWN 20K
TACH_[3:0]	PULL-UP 20K
TP[3]	PULL-UP 20K
USB[11:0][P,N]	PULL-DOWN 15K

Cantiga chipset and ICH9M I/O controller Hub strapping configuration

Montevina Platform Design guide 22339 0.5 page 218

Pin Name	Strap Description	Configuration
CFG[2:0]	FSB Frequency Select	000 = FSB1067 011 = FSB667 010 = FSB800 others = Reserved
CFG[4:3] CFG8 CFG[15:14] CFG[18:17]	Reserved	
CFG5	DMI x2 Select	0 = DMI x2 1 = DMI x4 (Default)
CFG6	iTPM Host Interface	0= The iTPM Host Interface is enabled(Note2) 1=The iTPM Host Interface is disalbed(default)
CFG7	Intel Management engine Crypto strap	0 = Transport Layer Security (TLS) cipher suite with no confidentiality 1 = TLS cipher suite with confidentiality (default)
CFG9	PCIE Graphics Lane	0 = Reverse Lanes,15->0,14->1 ect.. 1= Normal operation(Default):Lane Numbered in order
CFG10	PCIE Loopback enable	0 = Enable (Note 3) 1= Disabled (default)
CFG[13:12]	XOR/ALL	00 = Reserve 10 = XOR mode Enabled 01 = ALLZ mode Enabled (Note 3) 11 = Disabled (default)
CFG16	FSB Dynamic ODT	0 = Dynamic ODT Disabled 1 = Dynamic ODT Enabled (Default)
CFG19	DMI Lane Reversal	0 = Normal operation(Default): Lane Numbered in Order 1 = Reverse Lanes x4 mode[MCH -> ICH]: (3->0,2->1,1->2and0->3) DMI x2 mode[MCH -> ICH]: (3->0,2->1)
CFG20	Digital Display Port (SDVO/DP/iHDMI) Concurrent with PCIE	0 = Only Digital Display Port or PCIE is operational (Default) 1 = Digital display Port and PCie are operating simulataneously via the PEG port
SDVO_CTRLDATA	SDVO Present	0 =No SDVO Card Present (Default) 1 = SDVO Card Present
L_DDC_DATA	Local Flat Panel (LFP) Present	0 = LFP Disabled (Default) 1= LFP Card Present; PCIE disabled

NOTE:

1. All strap signals are sampled with respect to the leading edge of the (G)MCH Power OK (PWROK) signal.
2. iTPM can be disabled by a 'Soft-Strap' option in the Flash-decriptor section of the Firmware. This 'Soft-Strap' is activated only after enabling iTPM via CFG6.
- Only one of the CFG10/CFG12/CFG13 straps can be enabled at any time.

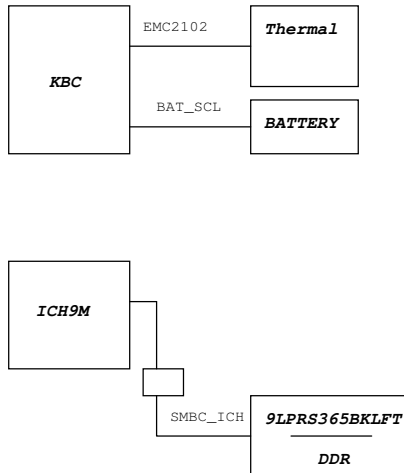
USB Table

USB	
Pair	Device
0	USB1
1	NC
2	NC
3	MINIC1
4	WEBCAM
5	NC
6	NC
7	Bluetooth
8	NC
9	USB2 (High speed)
10	NC
11	CardReader

PCIE Routing

LANE1	LAN Atheros AR8114A
LANE2	MiniCard WLAN
LANE3	NC
LANE4	NC
LANE5	NC
LANE6	NC

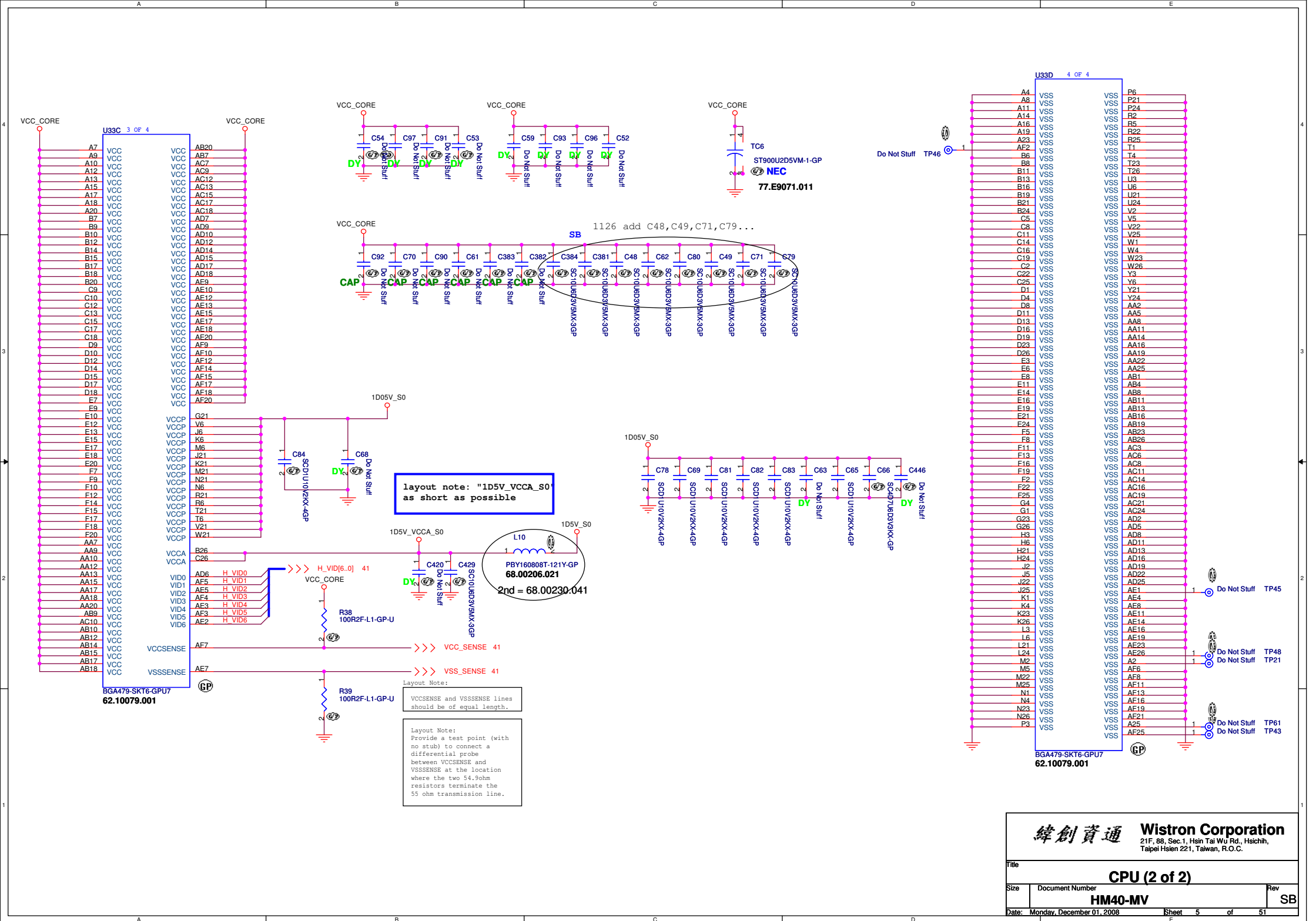
SMBus

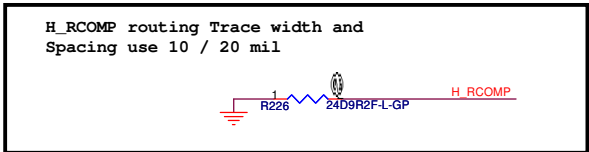
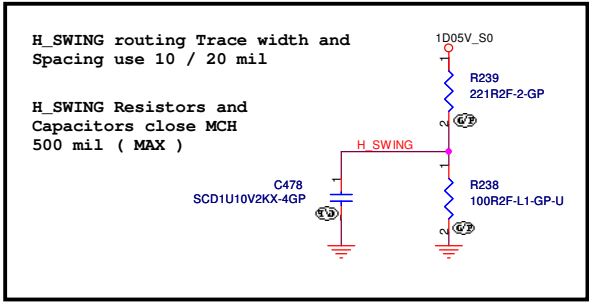


UMA Two Phase 2

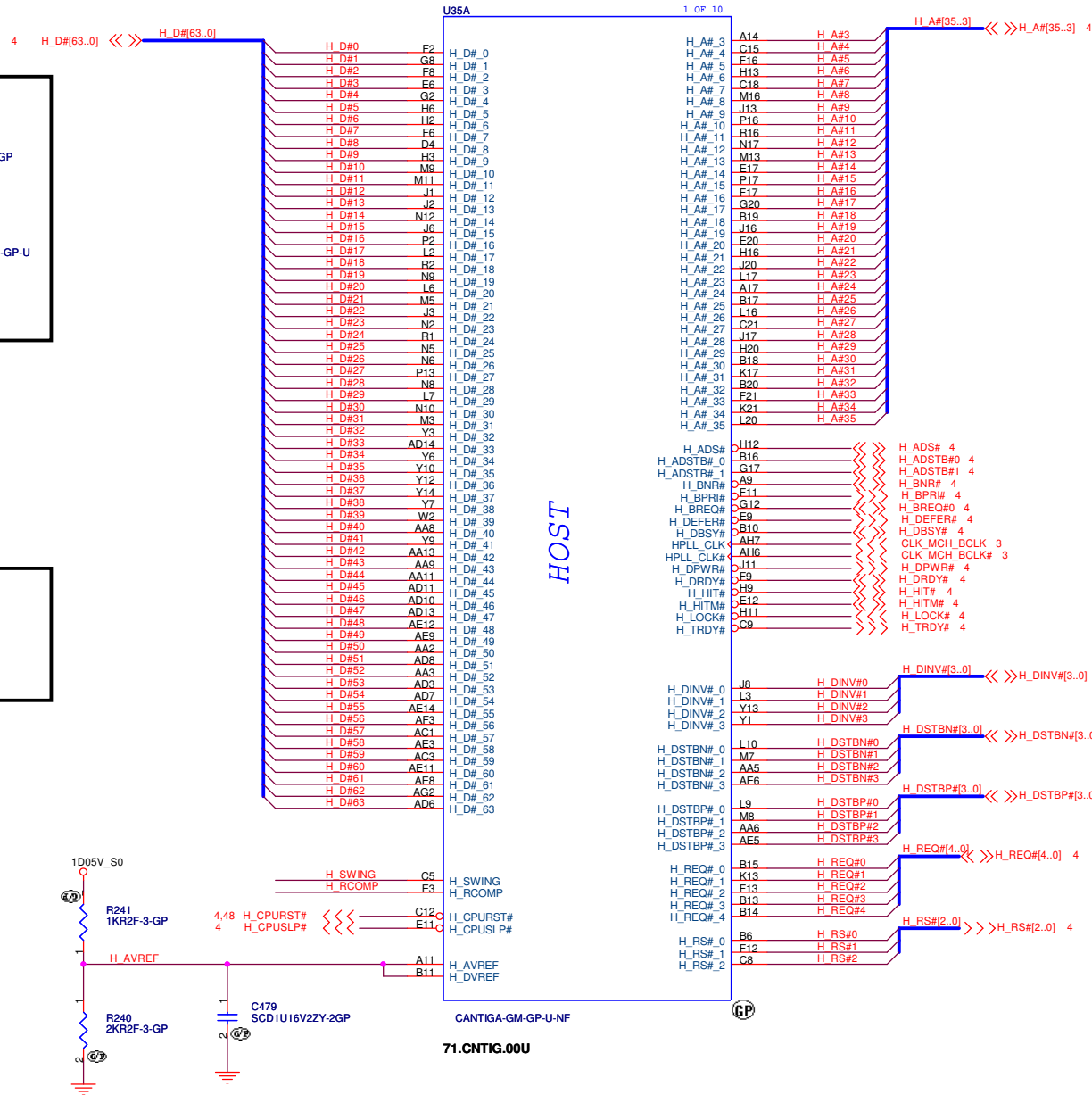
緯創資通		Wistron Corporation	
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title			
Reference			
Size A3	Document Number	Rev	SB
HM40-MV			
Date: Monday, November 24, 2008	Sheet 2	of	51







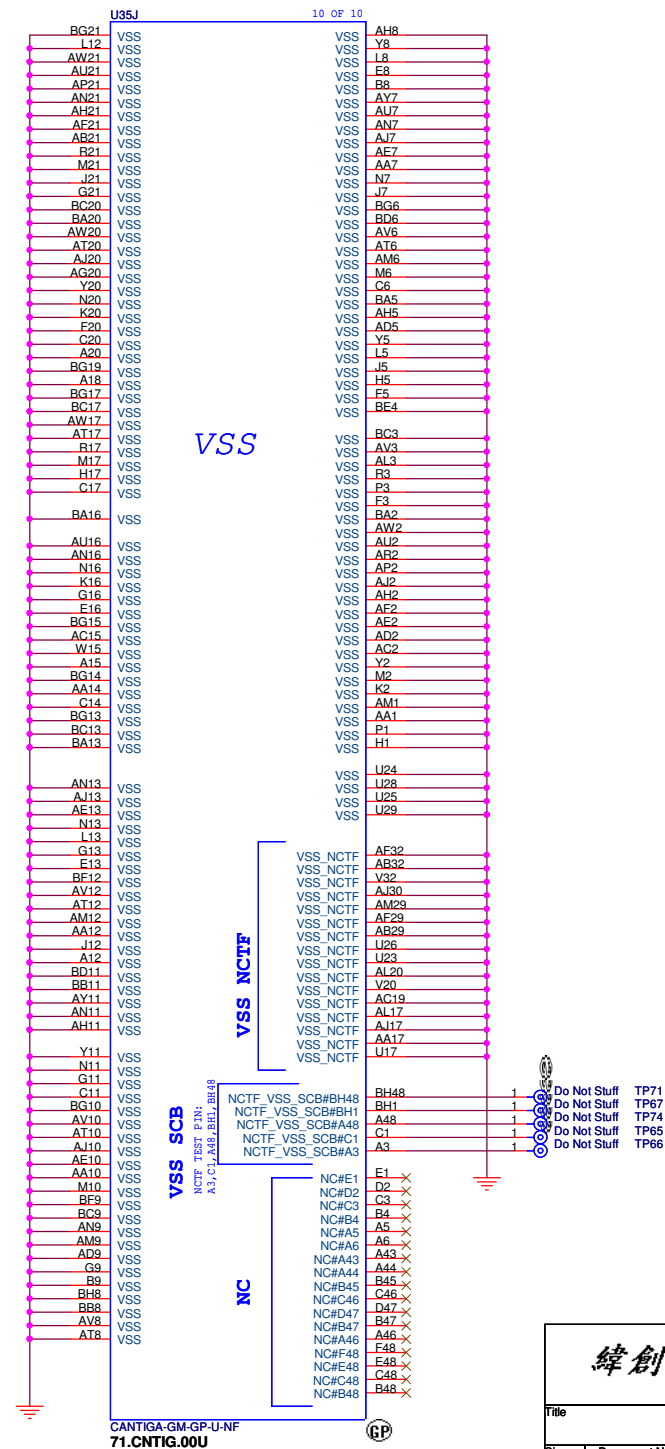
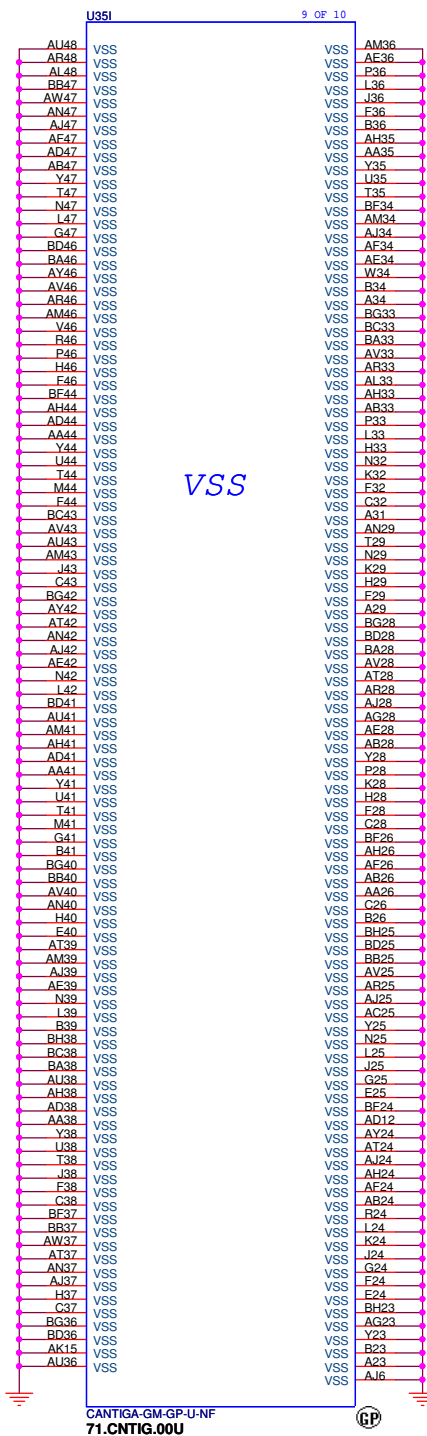
Place them near to the chip (< 0.5"

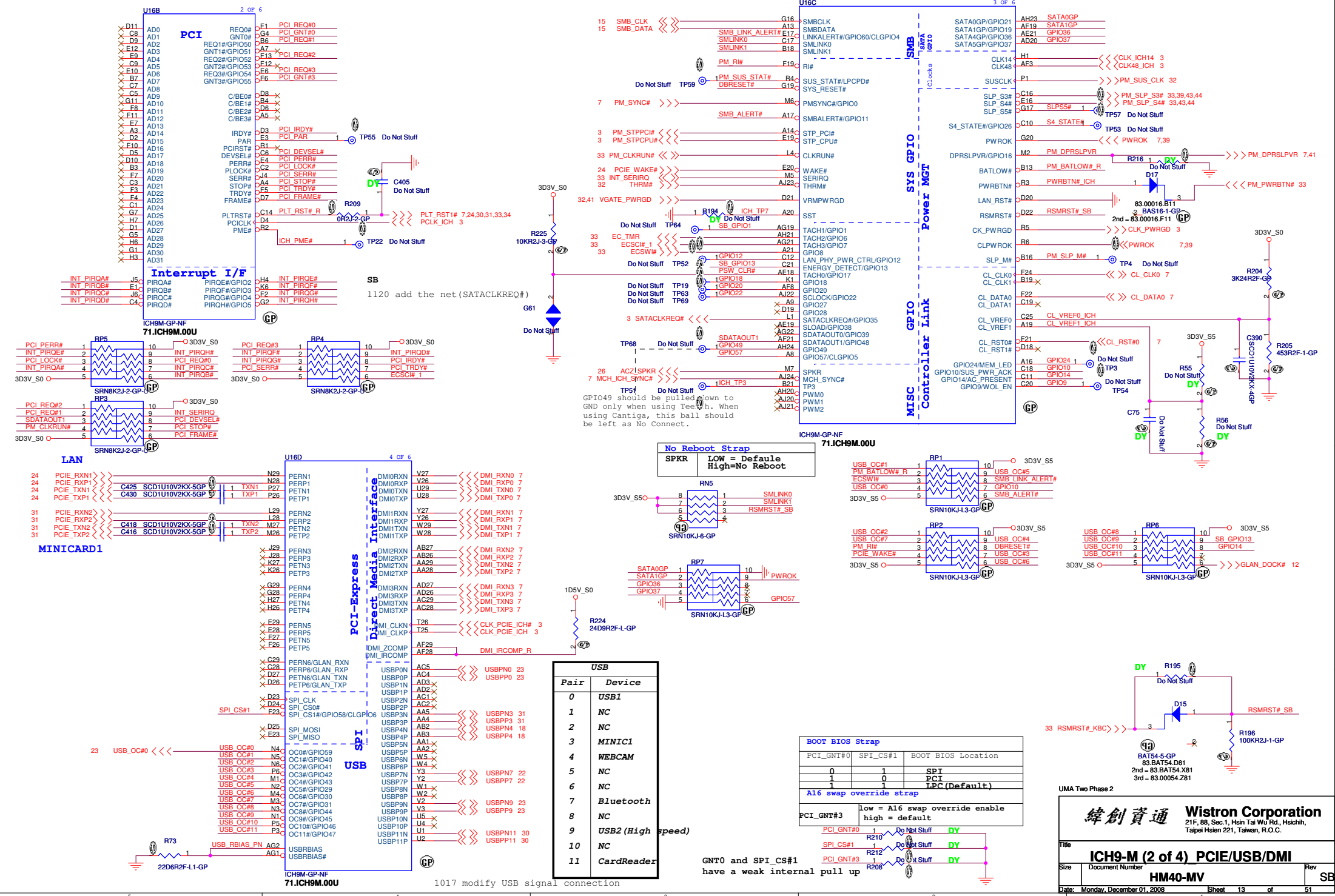


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Title		Cantiga (1 of 6)_HOST	
Size	Document Number	HM40-MV	Rev
Date: Wednesday, November 26, 2008	Sheet 6 of 51		SB





USB	
Pair	Device
0	USB1
1	NC
2	NC
3	MINIC1
4	WEBCAM
5	NC
6	NC
7	Bluetooth
8	NC
9	USB2 (High speed)
10	NC
11	CardReader

BOOT BIOS Strap		
PCI_GNT#0	SPI_CS#1	BOOT BIOS Location
0	1	SPI
1	0	PCI
1	1	LPC (Default)

Al6 swap override strap

low = Al6 swap override enable	high = default
--------------------------------	----------------

PCI_GNT#0 R210 Do Not Stuff DY

SPI_CS#1 R212 Do Not Stuff DY

PCI_GNT#3 R208 Do Not Stuff DY

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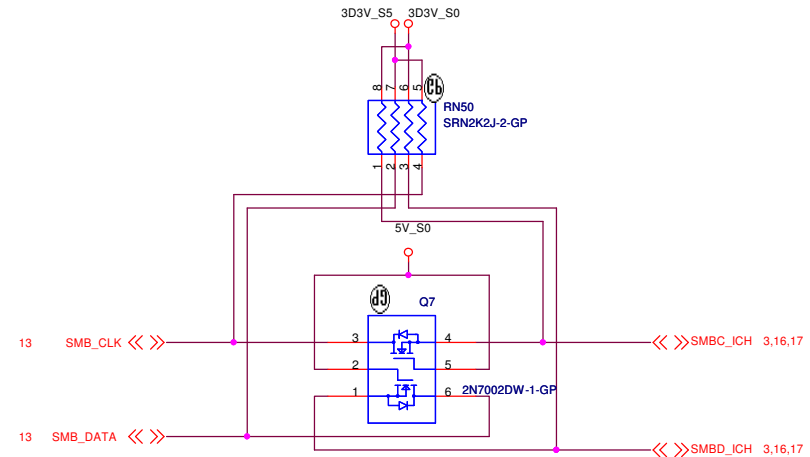
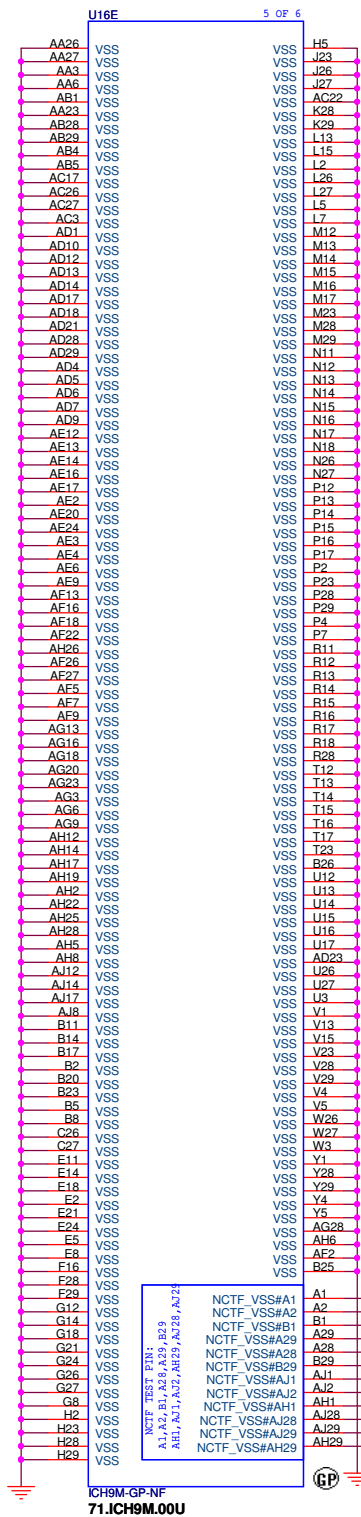
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Size Document Number HM40-MV

Rev SB

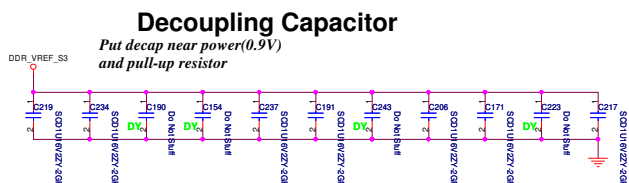
Date: Monday, December 01, 2008

Sheet 13 of 51

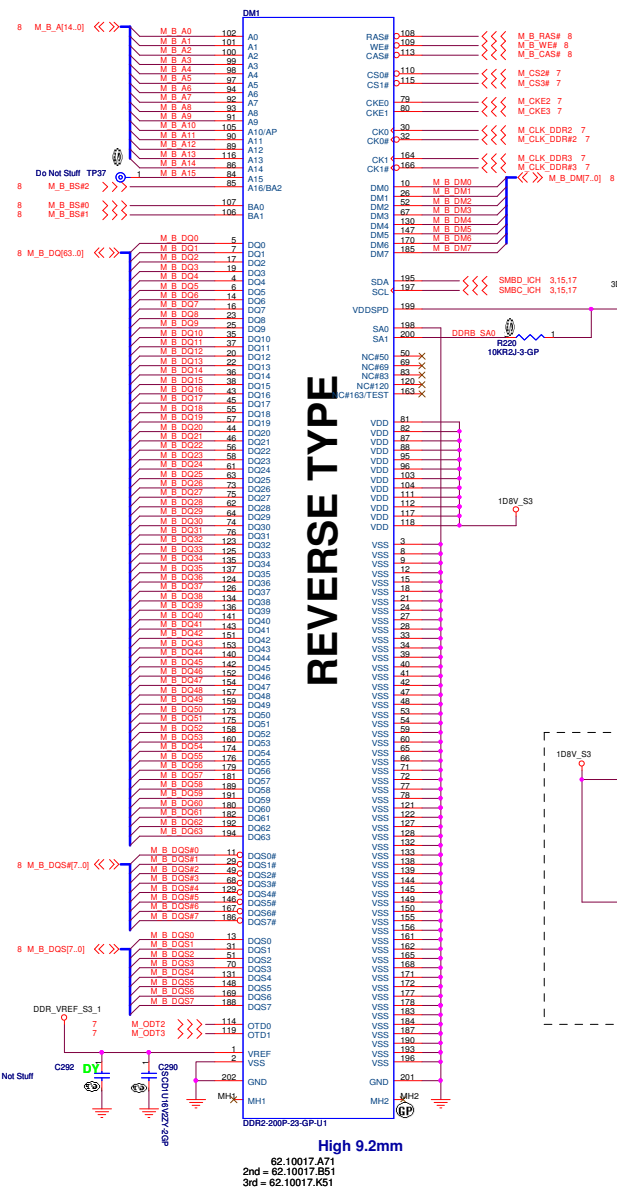


SMBUS

Put decap near power(0.9V) and pull-up resistor

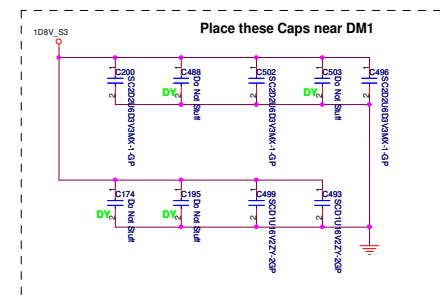


*Put decap near power(0.9V)
and pull-up resistor*



REVERSE TYPE

High 9.2mm

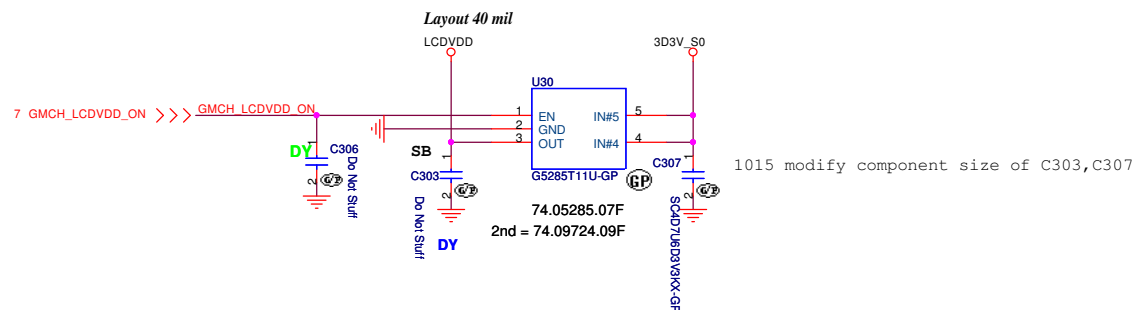
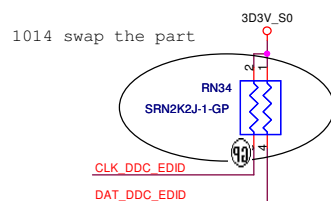
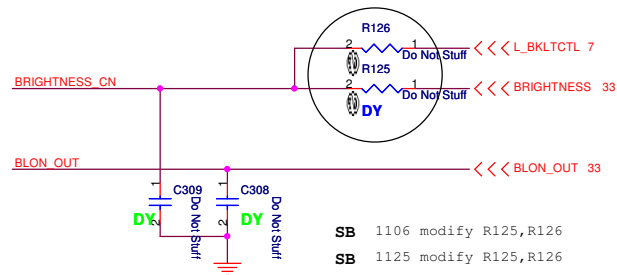
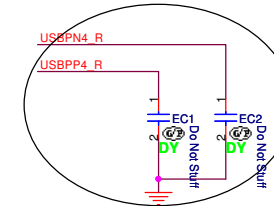
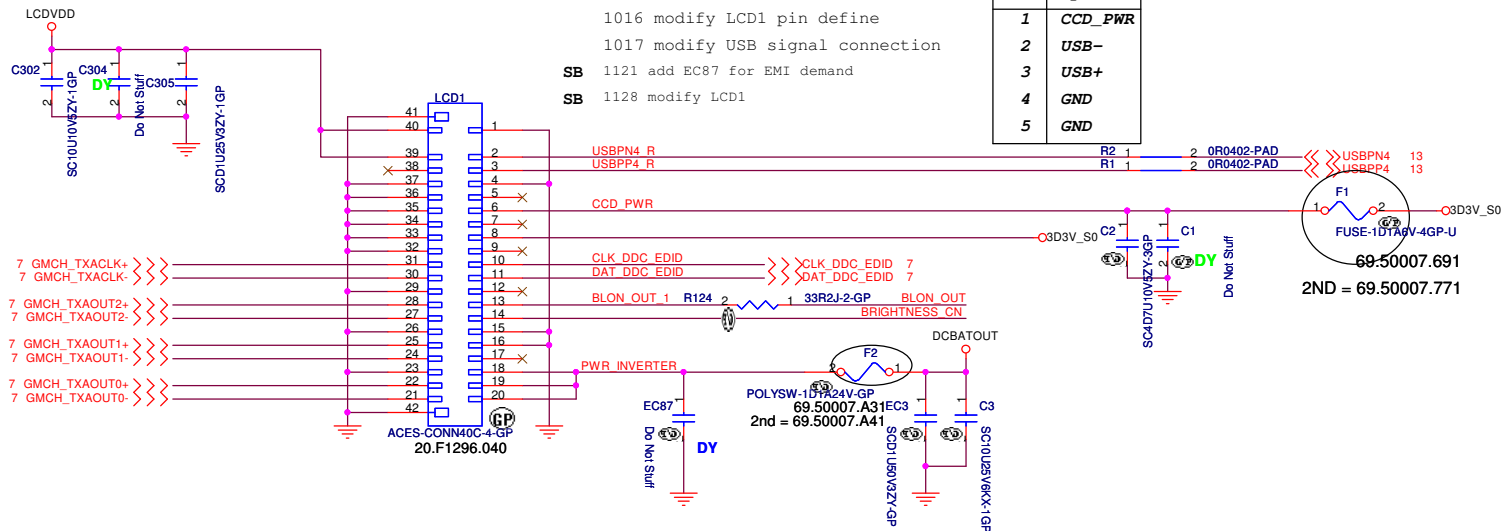


Put decap near power(0.9V) and pull-up resistor



Title			
DDR2 Socket 1 (DM2)			
Size	Document Number	Rev	
	HM40-MV	SB	
Date: Monday, December 01, 2008	Sheet 17 of	51	

LCD/CCD CONN

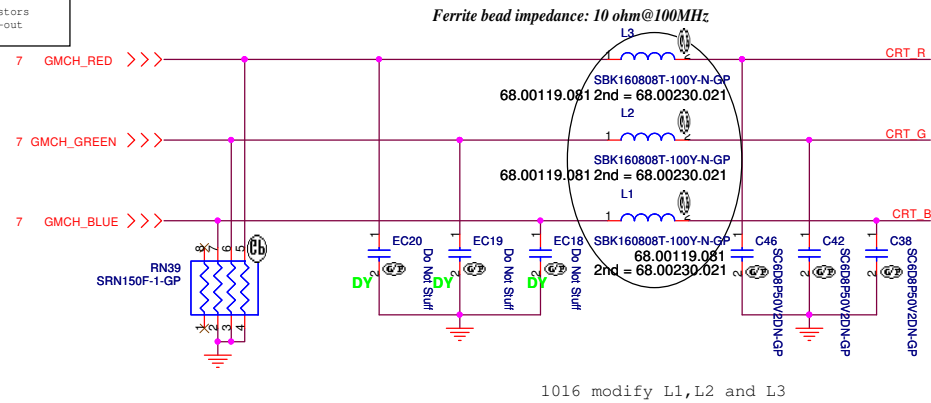


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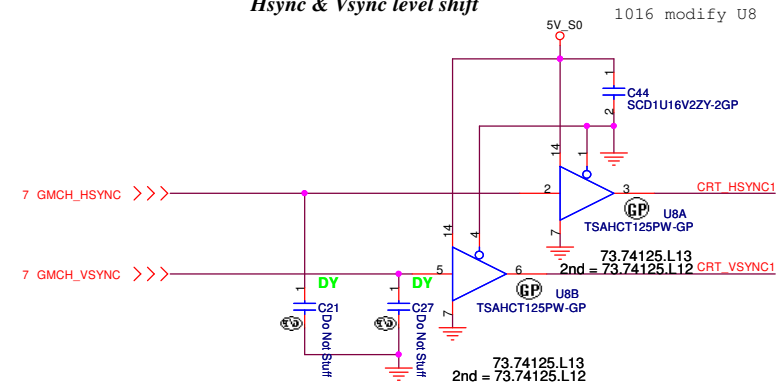
Title			Rev
LCD CONN			SB
Size	Document Number	HM40-MV	
Date:	Friday, November 28, 2008	Sheet	18 of 51

Layout Note:
Place these resistors
close to the CRT-out
connector

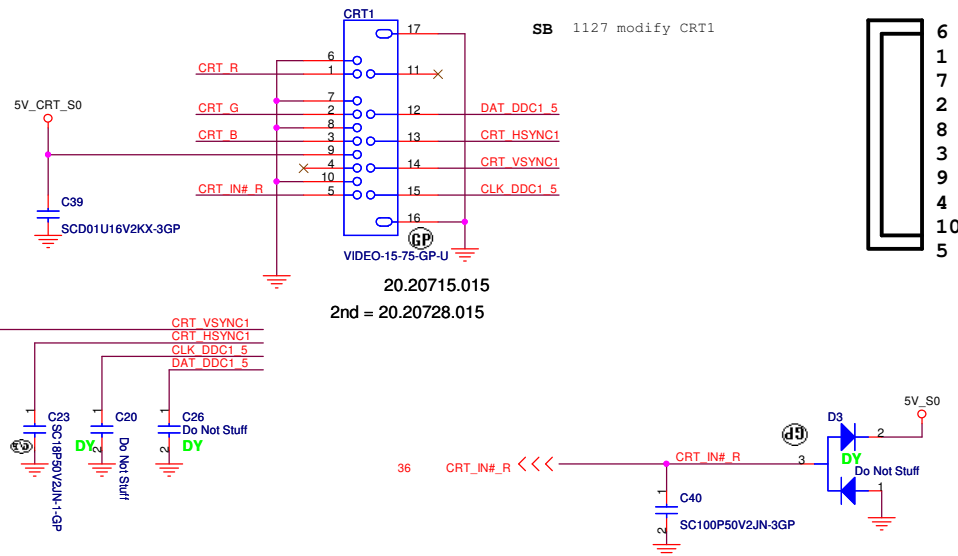


Layout Note:
* Must be a ground return path between this ground and the ground on the VGA connector.
Pi-filter & 150 Ohm pull-down resistors should be as close as to CRT CONN. RGB will hit 75 Ohm first, pi-filter, then CRT CONN.

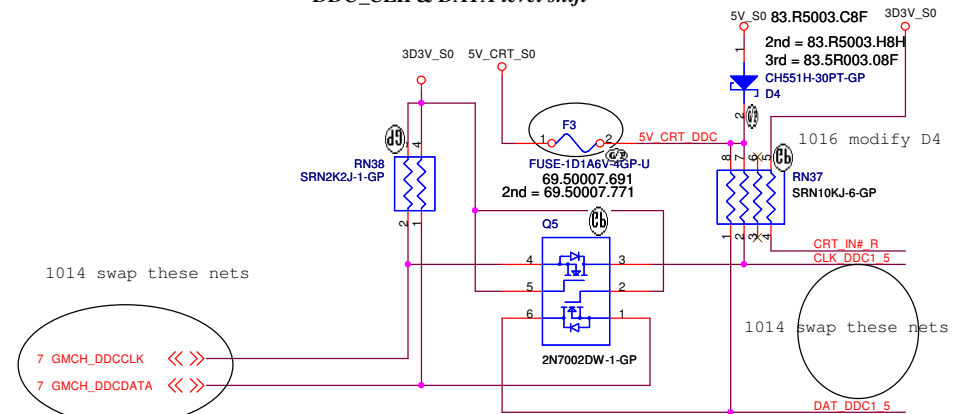
Hsync & Vsync level shift



CRT I/F & CONNECTOR



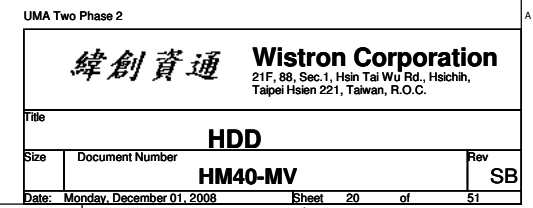
DDC_CLK & DATA level shift



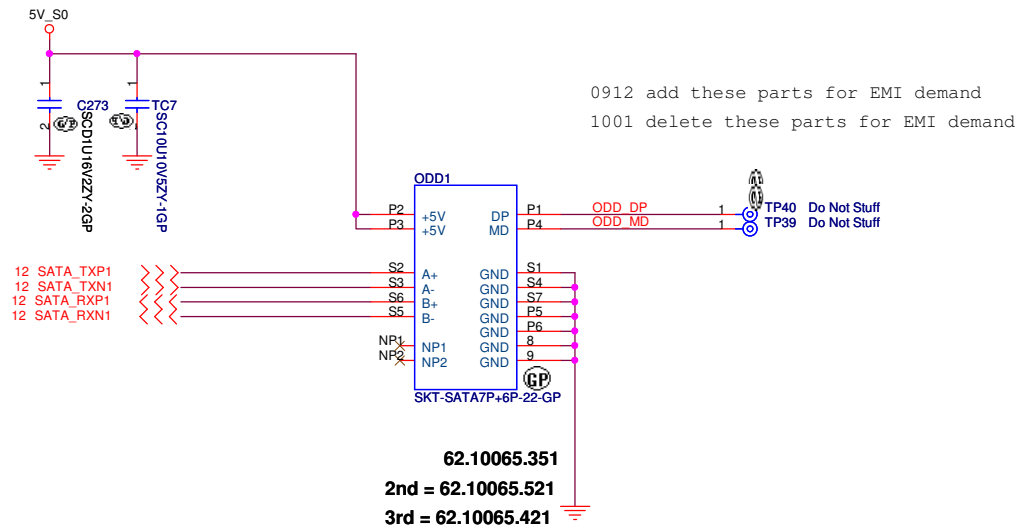
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```
0912 add these parts for EMI demand
1001 delete these parts for EMI demand
1021 modify SATA1
```



SATA ODD Connector



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Title

ODD

Size

Document Number

HM40-MV

lev

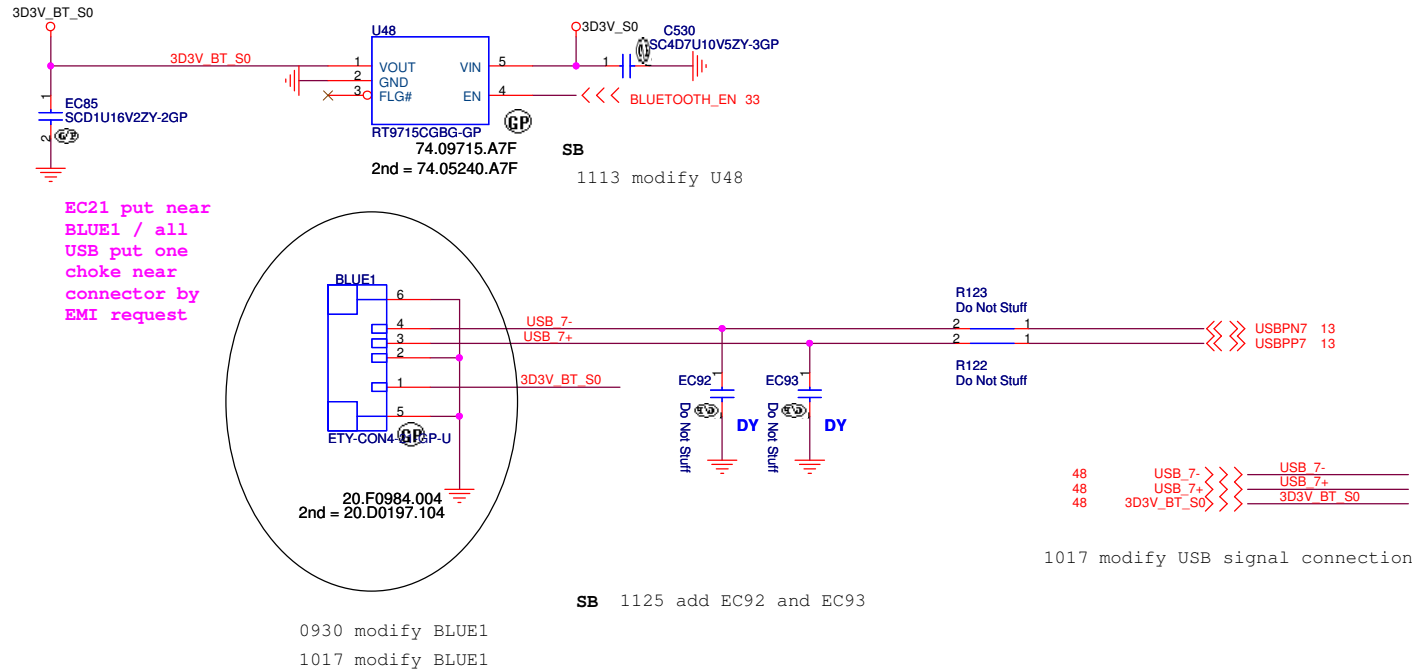
Date: Monday, December 01, 2008

Sheet 21

1

BLUETOOTH MODULE

1.5A / High Active Voltage 2V



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Title

Bluetooth

Size

Document Number

HM40-MV

Rev

SB

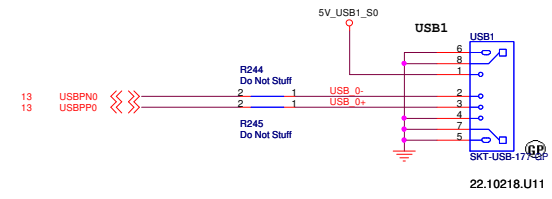
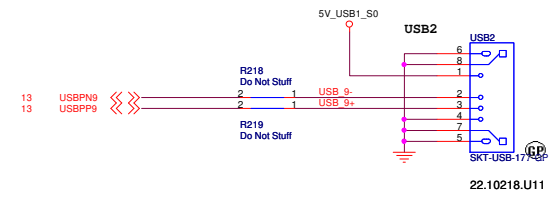
Date: Wednesday, November 26, 2008

Sheet 22

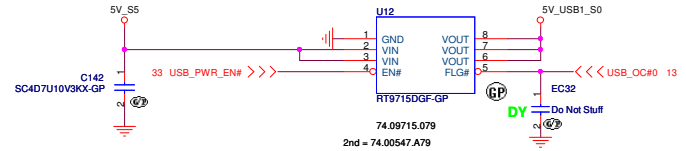
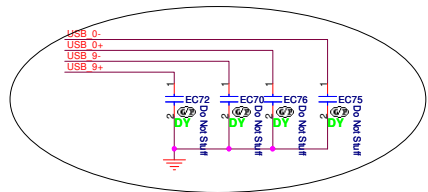
of

51

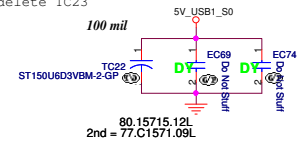
1017 modify USB signal connection
1021 modify and swap these parts(USB1 and USB2)



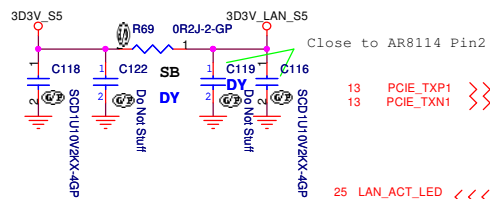
0912 add these parts for EMI demand



1021 delete TC23

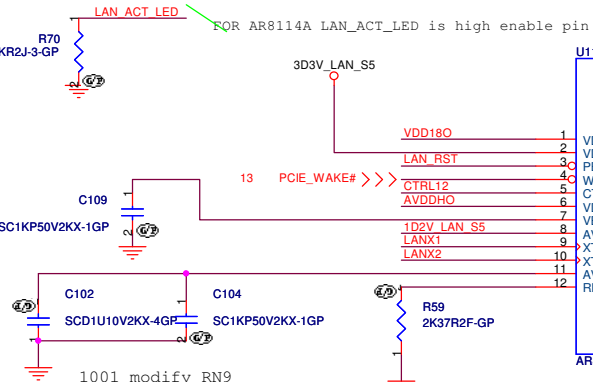


1015 modify component size of R69

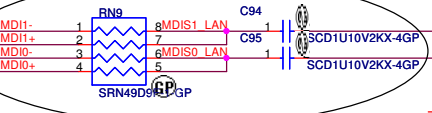


Close to AR8114 Pin2

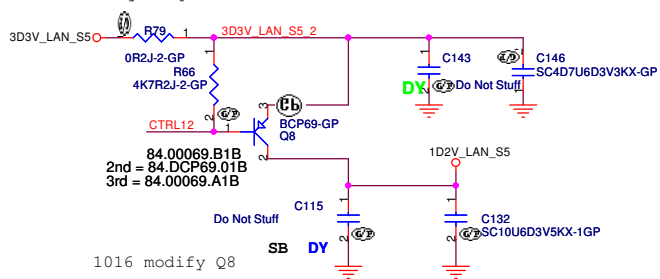
13 PCIE_TXP1
13 PCIE_TXN1



1001 modify RN9
1014 swap these nets

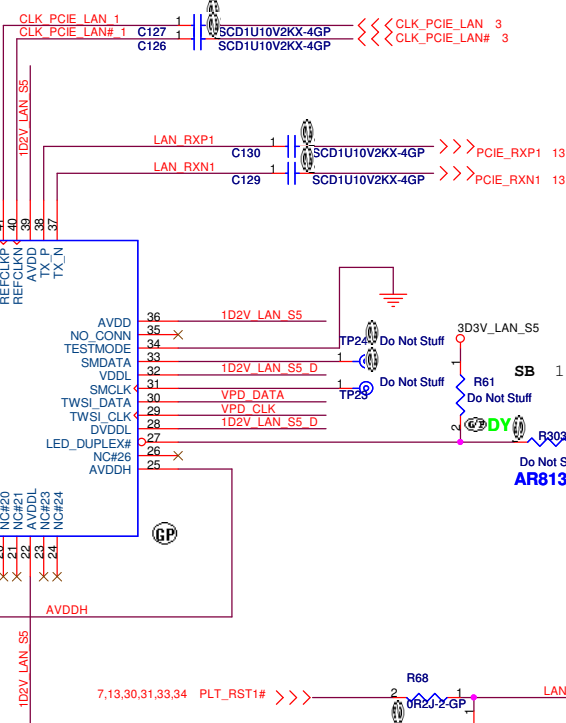


1015 modify component size of R79

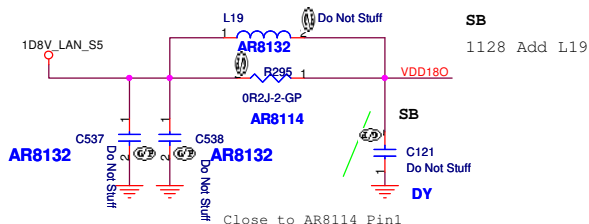


1016 modify Q8

Atheros suggestion change to Bead
60 ohms/100Mhz 500mA (68.60090.0D1)



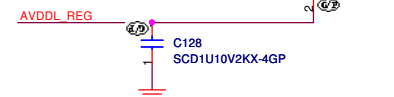
AR8114 use 0ohm resister
AR8132 Atheros suggest to change 4.7uH choke



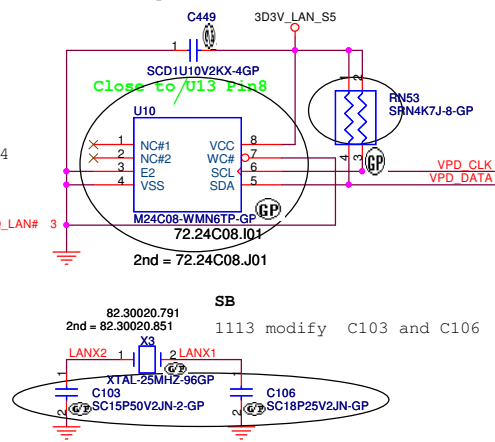
Close to AR8114 Pin6

AR8132 use 0 ohm resister

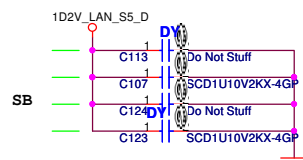
AR8114A Atheros suggestion change to Bead
60 ohms/100Mhz 500mA (68.60090.0D1)



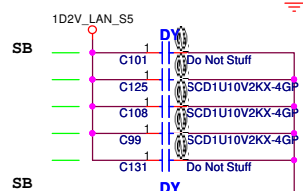
1016 modify RN53 and U10



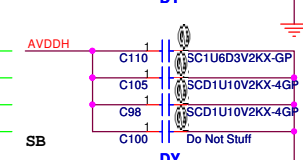
Close to AR8114 Pin28
Close to AR8114 Pin32
Close to AR8114 Pin45
Close to AR8114 Pin46



Close to AR8114 Pin8
Close to AR8114 Pin16
Close to AR8114 Pin22
Close to AR8114 Pin36
Close to AR8114 Pin39



Close to AR8114 Pin6
Close to AR8114 Pin15
Close to AR8114 Pin19
Close to AR8114 Pin25

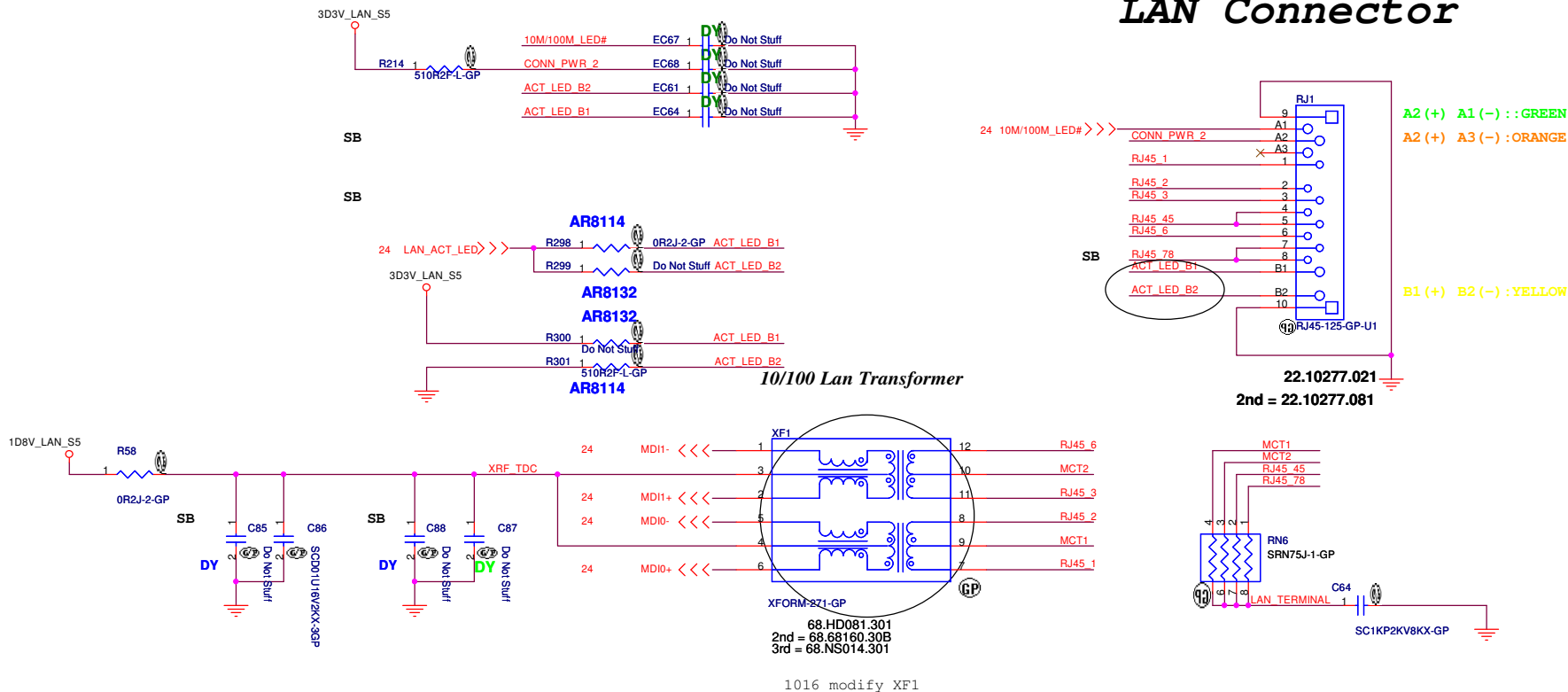


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Atheros AR8114/8132		
Size A3	Document Number	Rev
	HM40-MV	SB
Date: Friday, November 28, 2008	Sheet 24	of 51

LAN Connector



- 1.route on bottom as differential pairs.
- 2.Tx+/Tx- are pairs. Rx+/Rx- are pairs.
- 3.No vias, No 90 degree bends.
- 4.pairs must be equal lengths.
- 5.6mil trace width,12mil separation.
- 6.36mil between pairs and any other trace.
- 7.Must not cross ground moat,except RJ-45 moat.

RJ11 signal must leave the other signal or power plane 100mil.

DOC_TIP,DOC_RING,TIP,RING:
W/S : 10/100 @ Surface layers
10/20 @ Inner layers

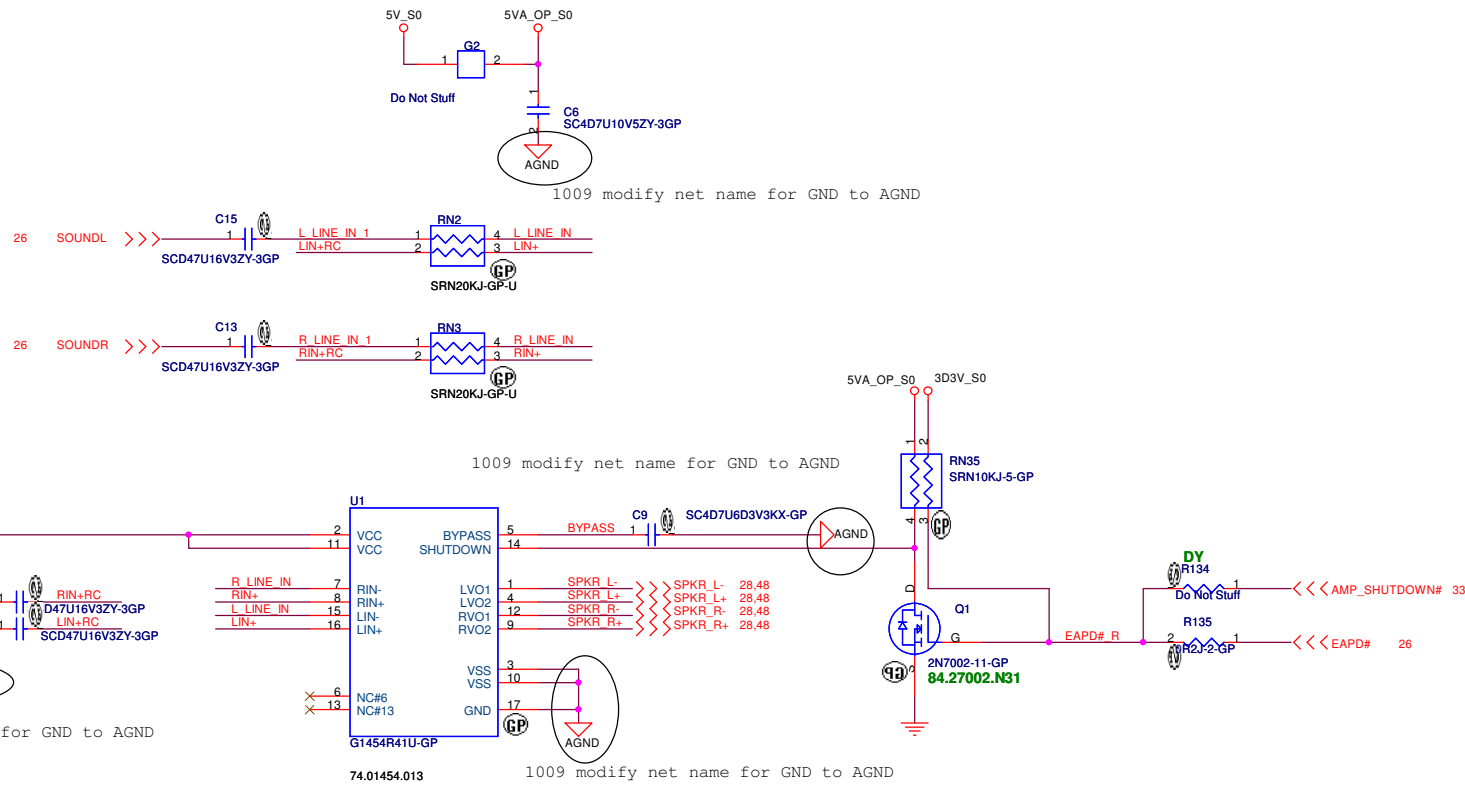
10/100 LAN Transformer	RJ45 PIN
TD+ --> TX+	RJ45-1
TD- --> TX-	RJ45-2
RD+ --> RX+	RJ45-3
RD- --> RX-	RJ45-6

UMA Two Phase 2

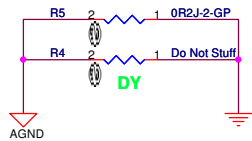
緯創資通 Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.

Title: **LAN Connector**
Size A3 Document Number: **HM40-MV** Rev: **SB**
Date: Monday, December 01, 2008 Sheet 25 of 51

AUDIO OP AMPLIFIER



AC decoupling

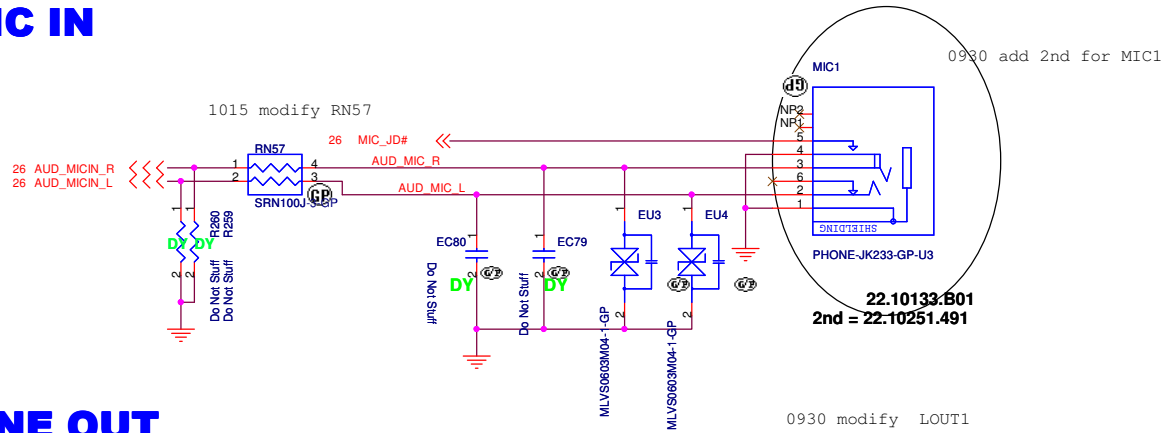


UMA Two Phase 2

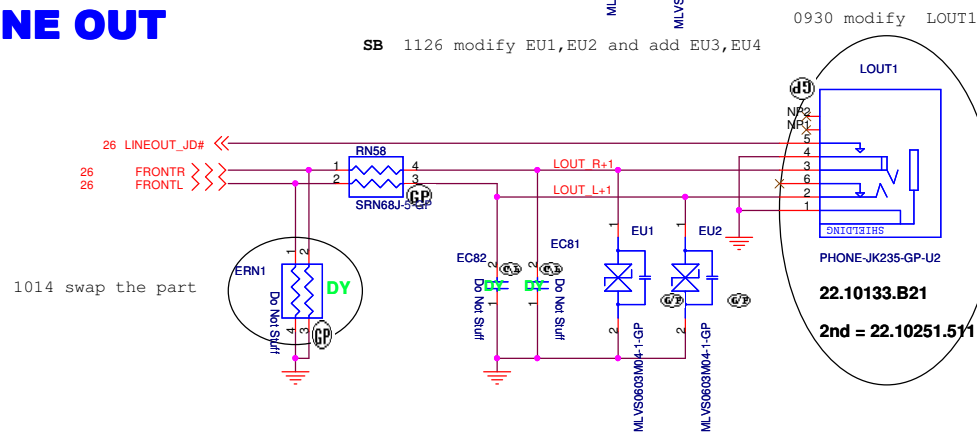
緯創資通 Wistron Corporation
21F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title				
AUDIO AMP				
Size	Document Number			Rev
	HM40-MV			SB
Date:	Monday, December 01, 2008		Sheet 27 of	51

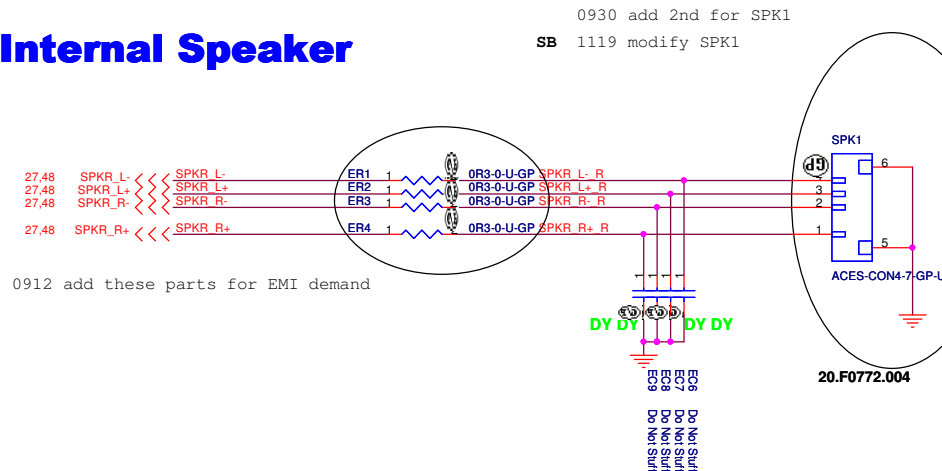
MIC IN



LINE OUT



Internal Speaker



UMA Two Phase 2

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

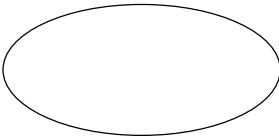
Title		
AUDIO JACK		
Size	Document Number	Rev
	HM40-MV	SB
Date: Monday, December 01, 2008	Sheet 28 of 51	

MDC 1.5 CONN

0912 add the part for EMI demand

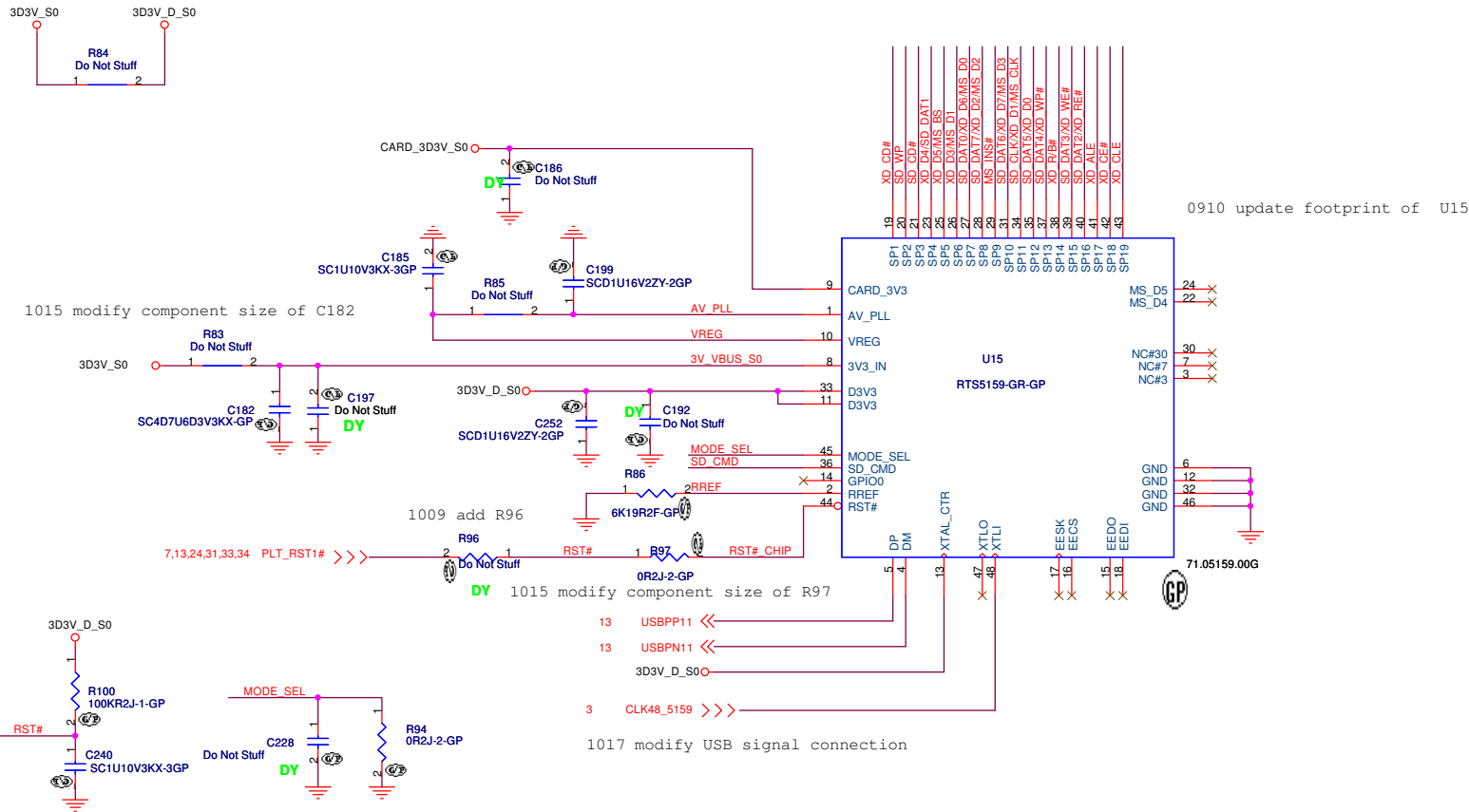
1002 modify MDC1

SB
1112 delete MDC function

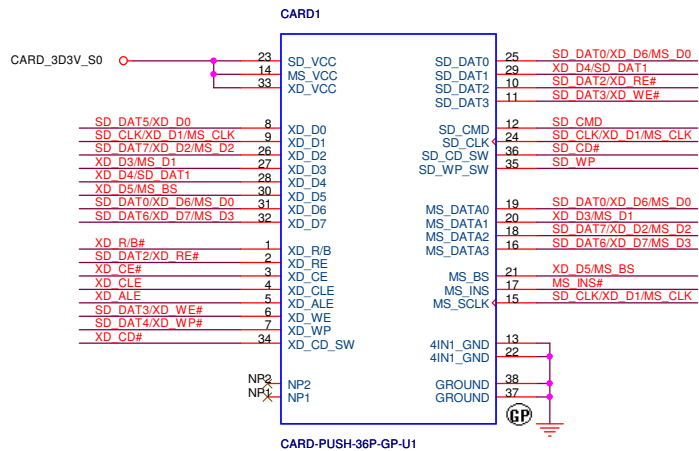


UMA Two Phase 2

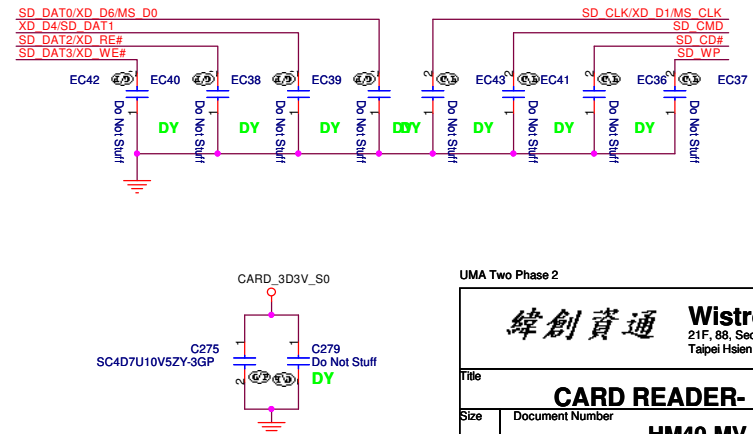
緯創資通		Wistron Corporation	
		21F, 88, Sec.1, Hsin Tai Wuj Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
MDC			
Size	Document Number		Rev
	HM40-MV		SB
Date:	Monday, November 24, 2008	Sheet	29 of 51



5 IN1 CARD-READER (SD/MMC/MS/MS PRO/XD)



1009 modify this net
1013 modify card1



UMA Two Phase 2

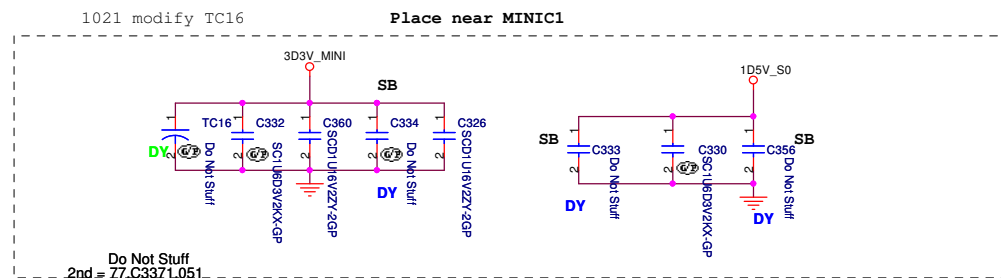
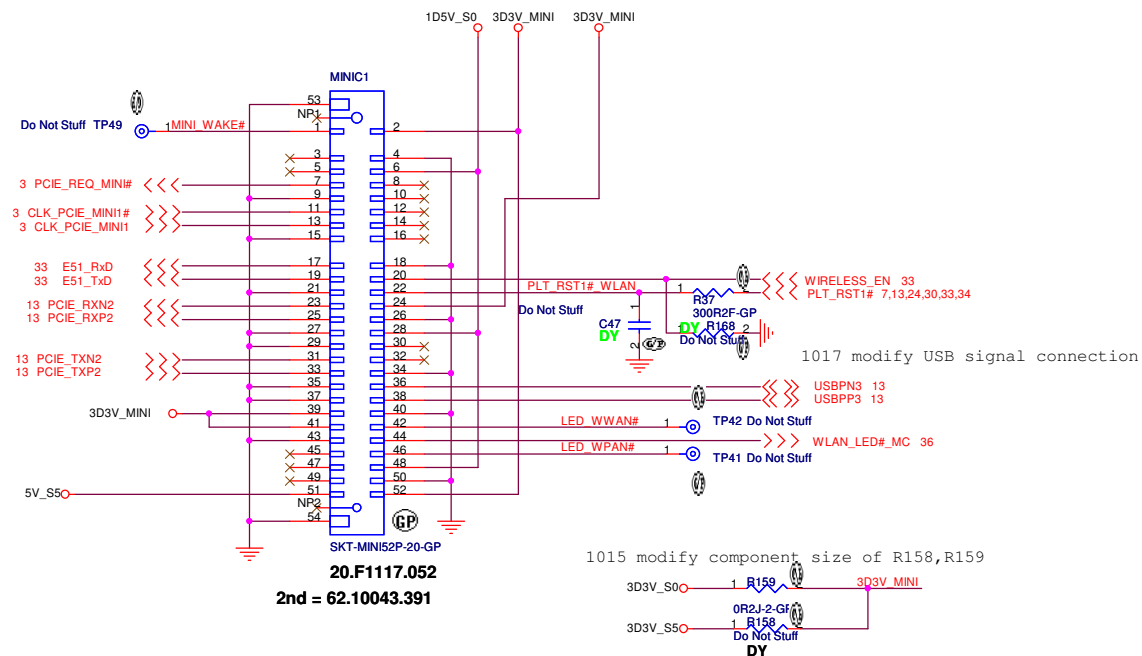
緯創資通 Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title: **CARD READER- RTS5159**

Size: Document Number: **HM40-MV** Rev: **SB**

Date: Monday, December 01, 2008 Sheet: 30 of 51

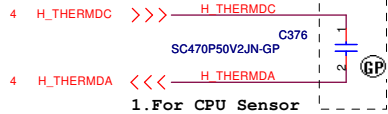
Mini Card Connector(WLAN)



UMA Two Phase 2

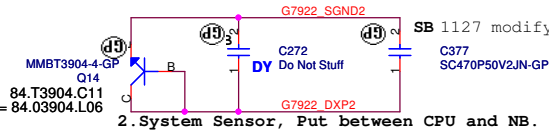
緯創資通		Wistron Corporation	
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.			
Title MINI CARD			
Size	Document Number	Rev	
	HM40-MV	SB	
Date: Monday, December 01, 2008	Sheet	31 of	51

Layout notice :
Both H_THERMDA and THERMDC routing
10 mil trace width and 10 mil spacing

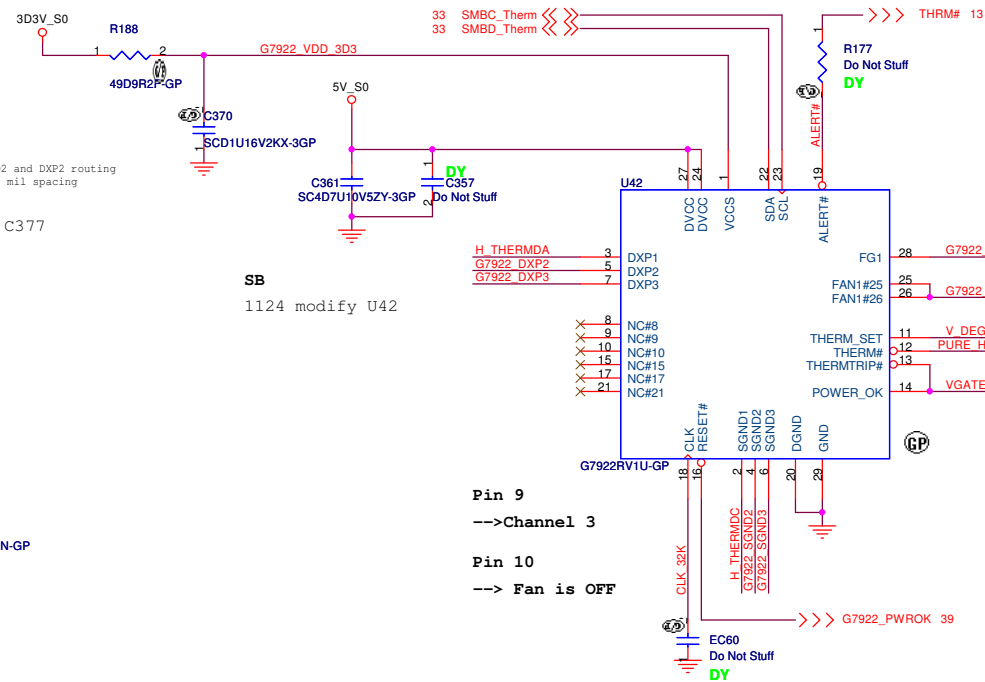
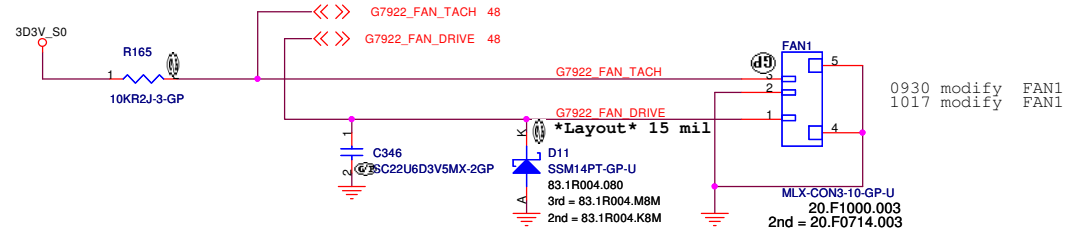
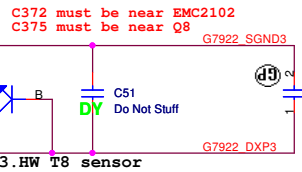


C374 must be near Q7
C373 must be near EMC2102

Layout notice : Both SGND2 and DXP2 routing
10 mil trace width and 10 mil spacing



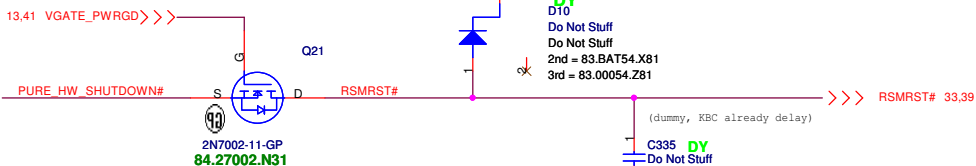
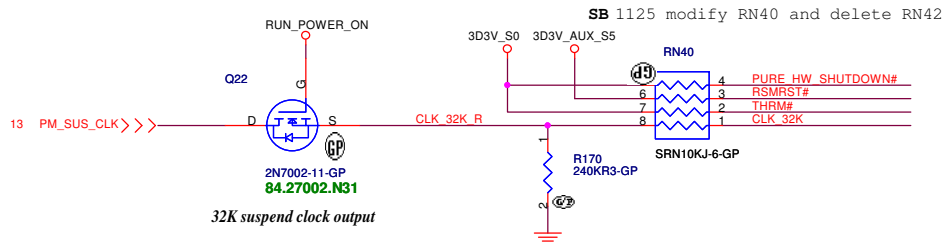
Layout notice : Both SGND3 and DXP3 routing
10 mil trace width and 10 mil spacing



Pin 9
-->Channel 3

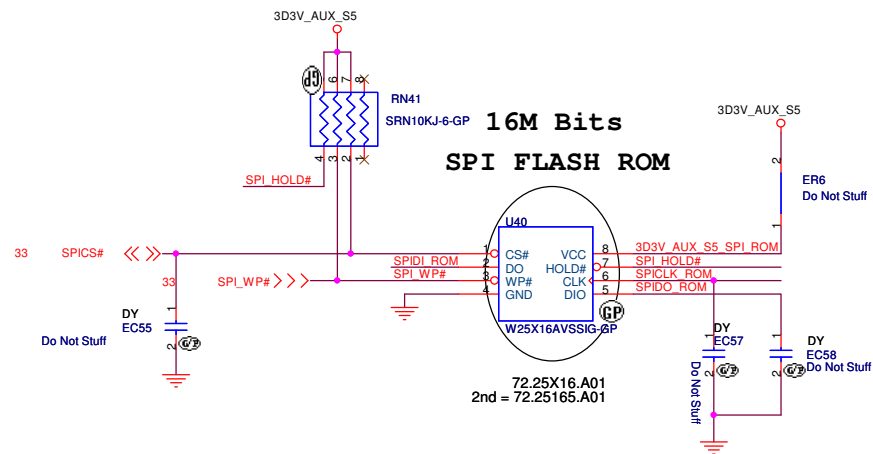
Pin 10
--> Fan is OFF

THERM_SET
= (Test-75) * (1/32) * (15/33) VCCS

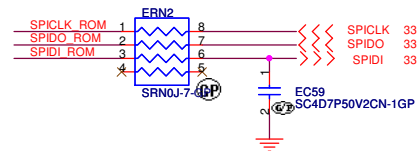
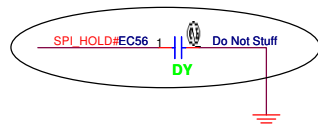


UMA Two Phase 2

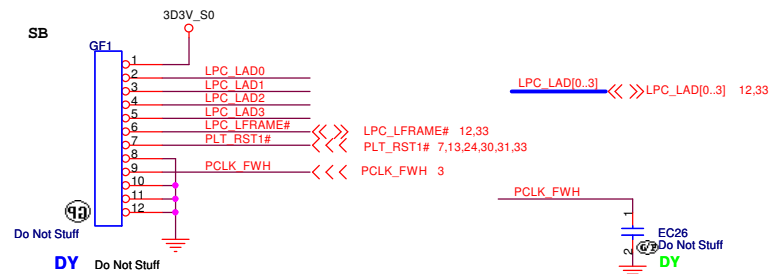
緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Thermal/Fan Controller	
Size	Document Number
HM40-MV	
Date: Monday, December 01, 2008	Sheet 32 of 51



1013 modify U40 from 72.25X16.001 to 72.25X16.A01
0912 add the part for EMI demand



GOLDEN FINGER FOR DEBUG BOARD



UMA Two Phase 2

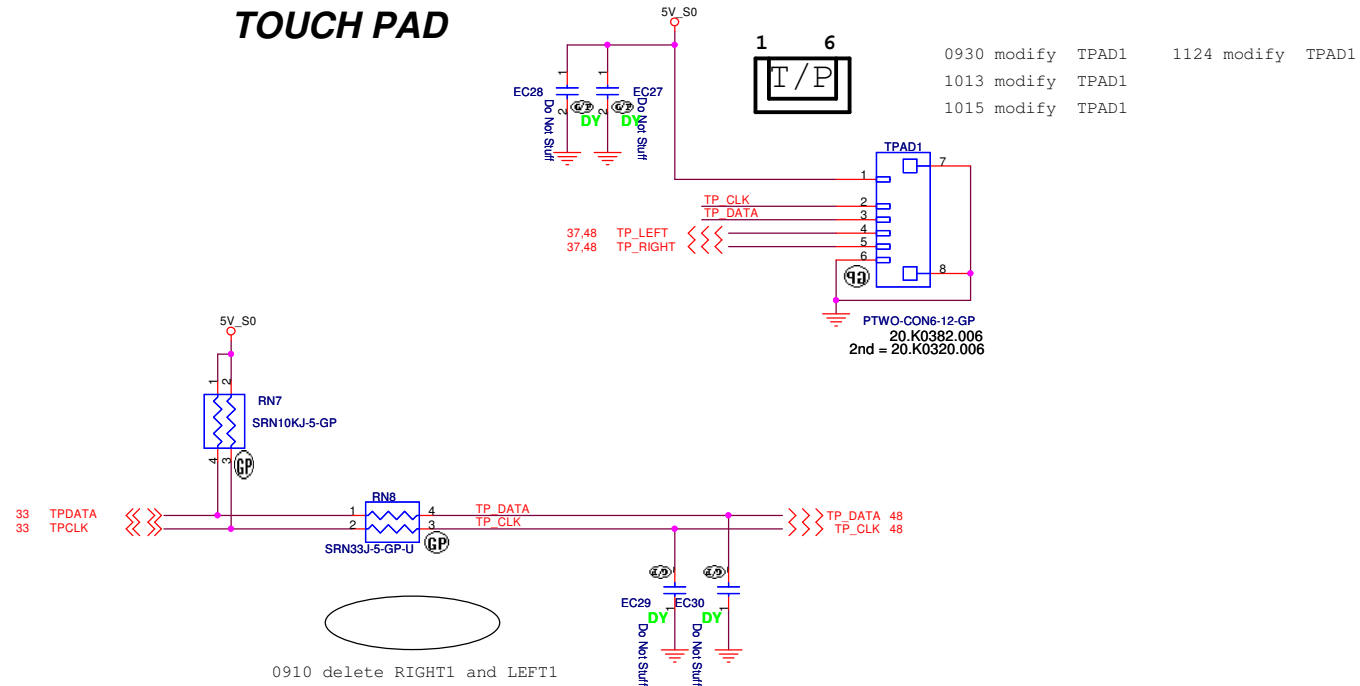
緯創資通 Wistron Corporation
21F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221, Taiwan, R.O.C.

Title **BIOS/GOLDEN FINGER**

Size Document Number **HM40-MV** Rev **SB**

Date: Monday, December 01, 2008 Sheet 34 of 51

TOUCH PAD

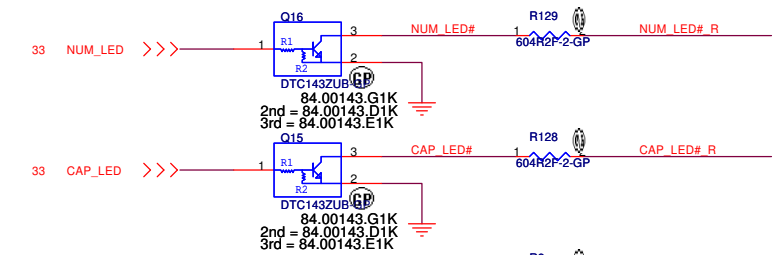
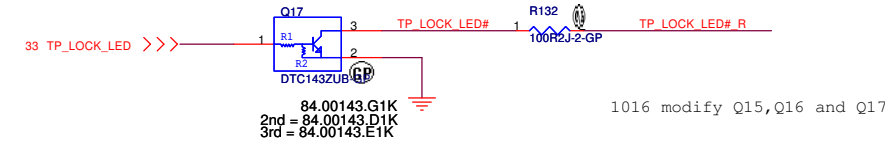
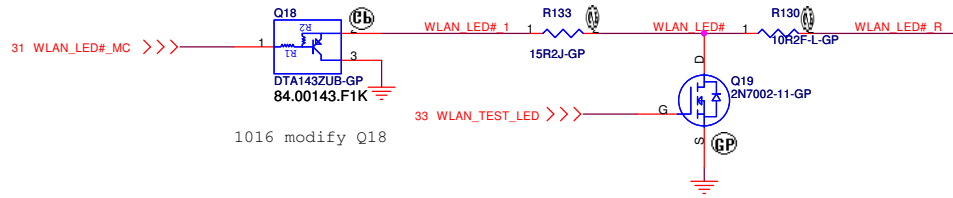


UMA Two Phase 2

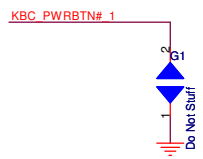
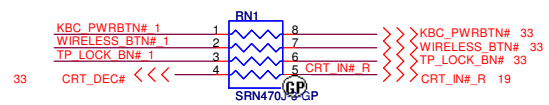
緯創資通 **Wistron Corporation**
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 Taipei Hsien 221, Taiwan, R.O.C.

Title			Touch pad	
Size	Document Number	HM40-MV		Rev
				SB
Date:	Monday, December 01, 2008	Sheet	35	of 51

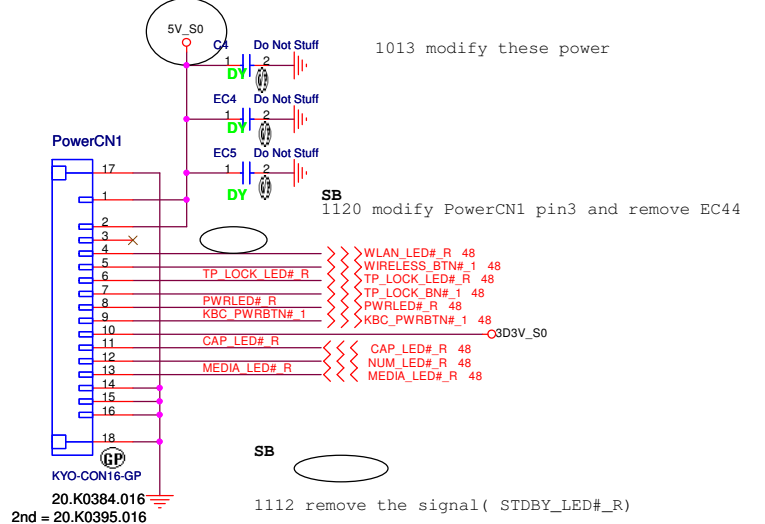
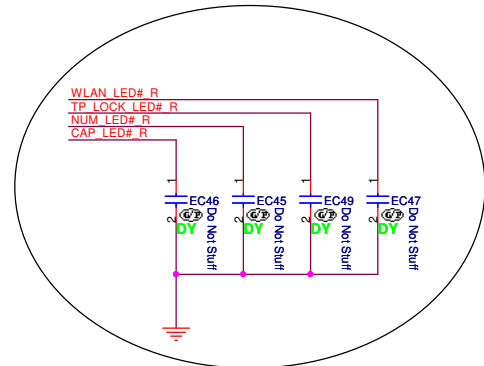
SB 1119 modify R130 and R133



SB
1112 remove these signals(STDBY_LED#_FR and STDBY_LED#_R) and R131



0912 add these parts for EMI demand



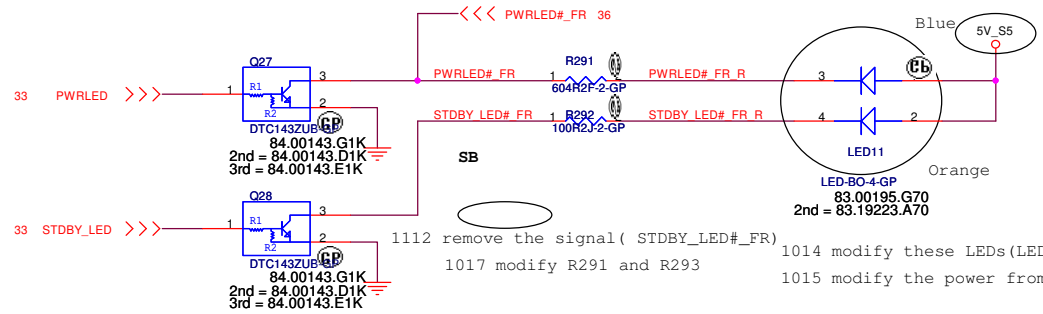
UMA Two Phase 2

File		Power Board	
Size	Document Number	Rev	SB
HM40-MV			
Date: Wednesday, November 26, 2008	Sheet 36	of	51

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

1015 modify the power from 3D3V_S5 to 5V_S5

SB 1106 modify LED11



SB 1106 modify LED12
1106 modify LED power from 5V_S5 to 5V_AUX_S5

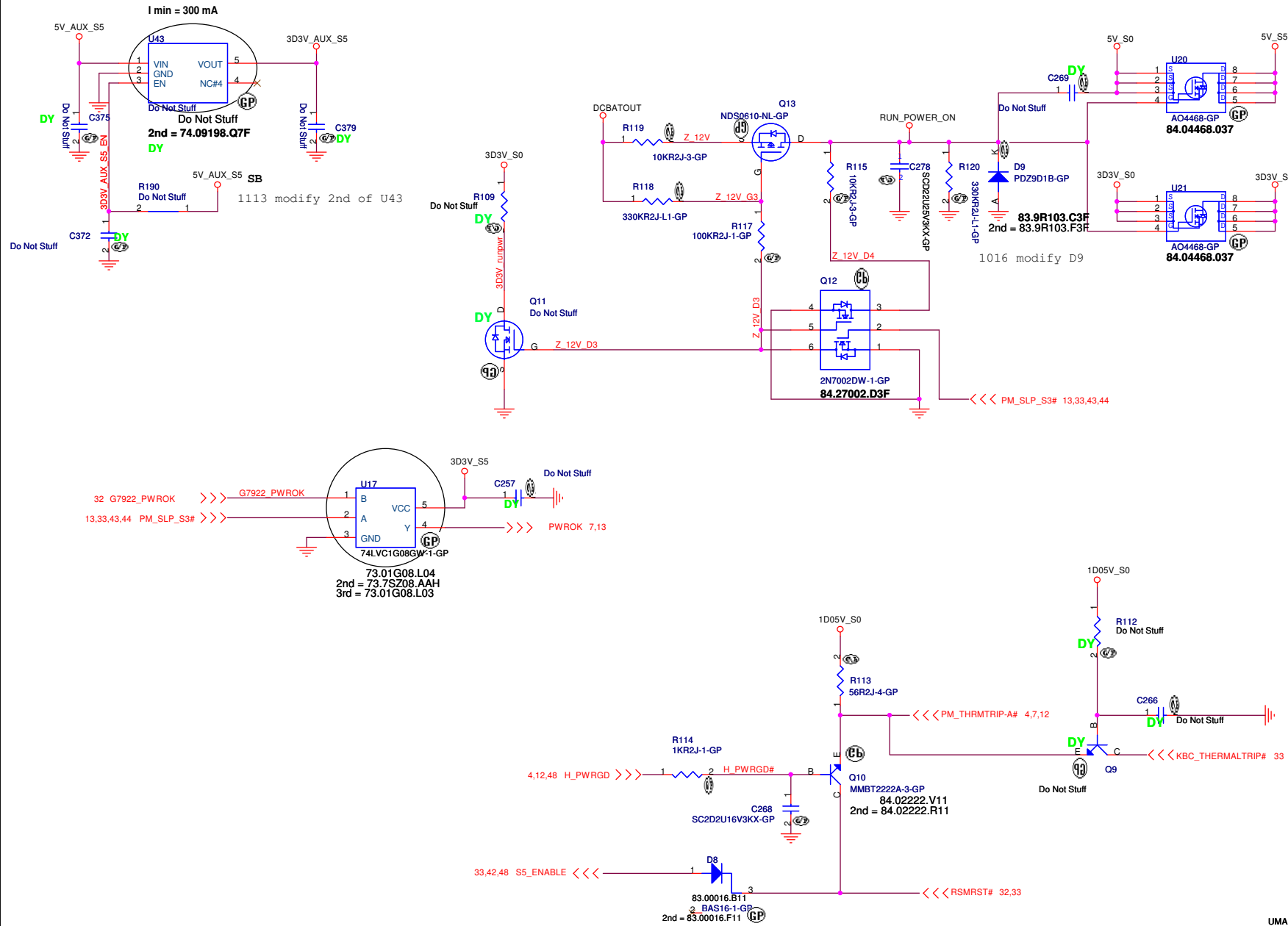
UMA Two Phase 2

緯創資通 Wistron Corporation
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Title			LED
Size	Document Number	Rev	
HM40-MV		SB	
Date:	Wednesday, November 26, 2008	Sheet	38 of 51

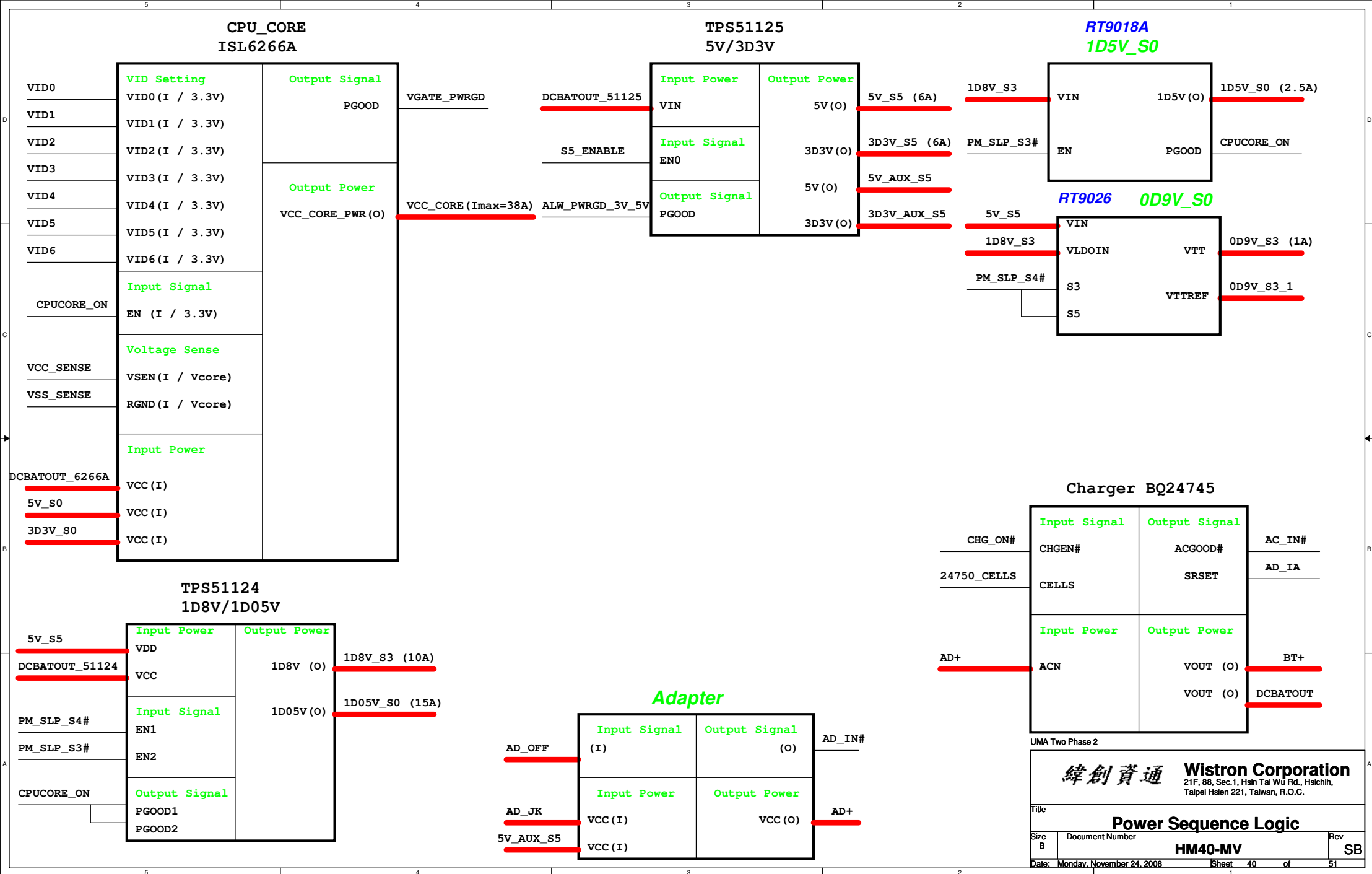
Aux Power 3D3V_AUX_S5

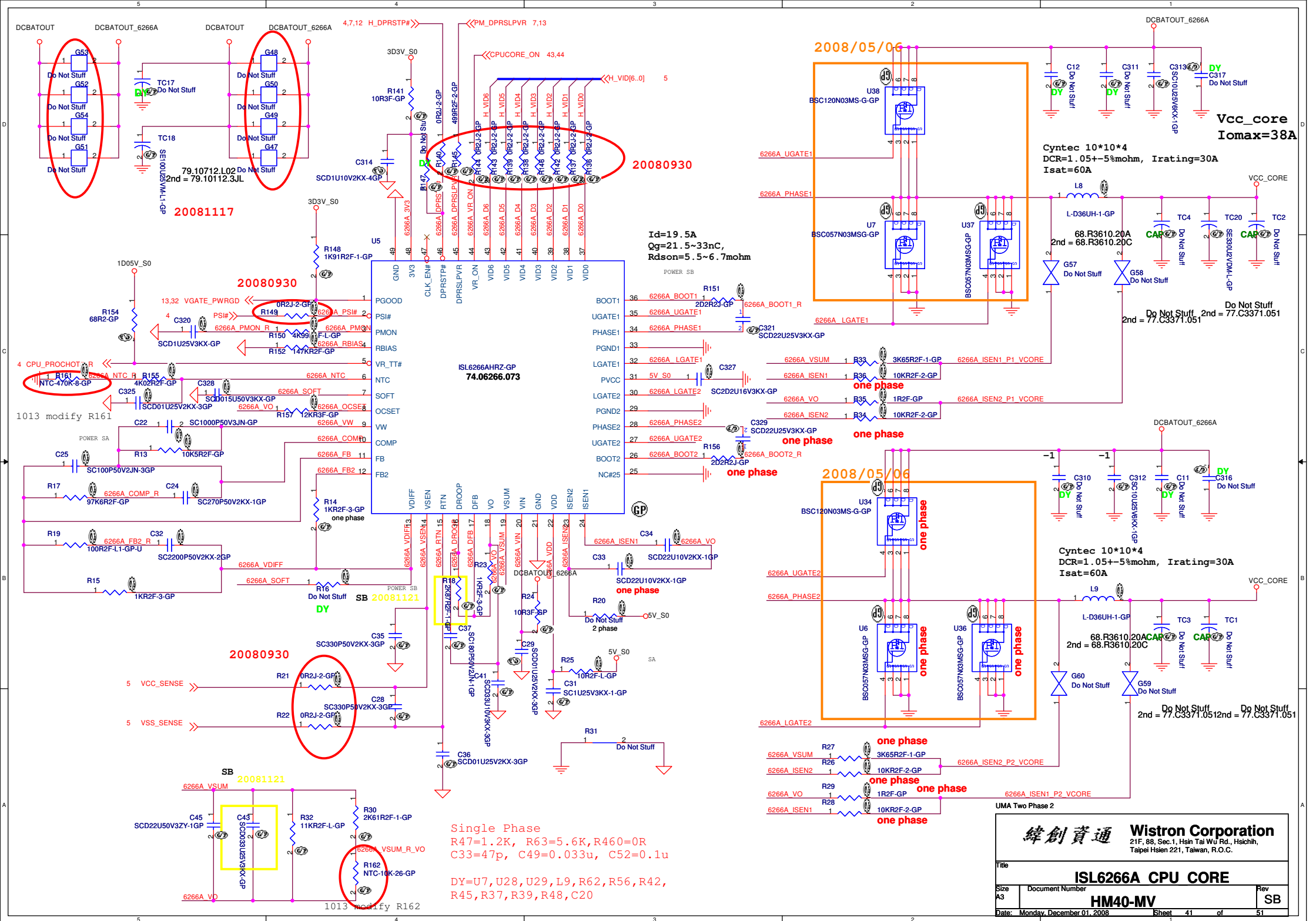
Run Power



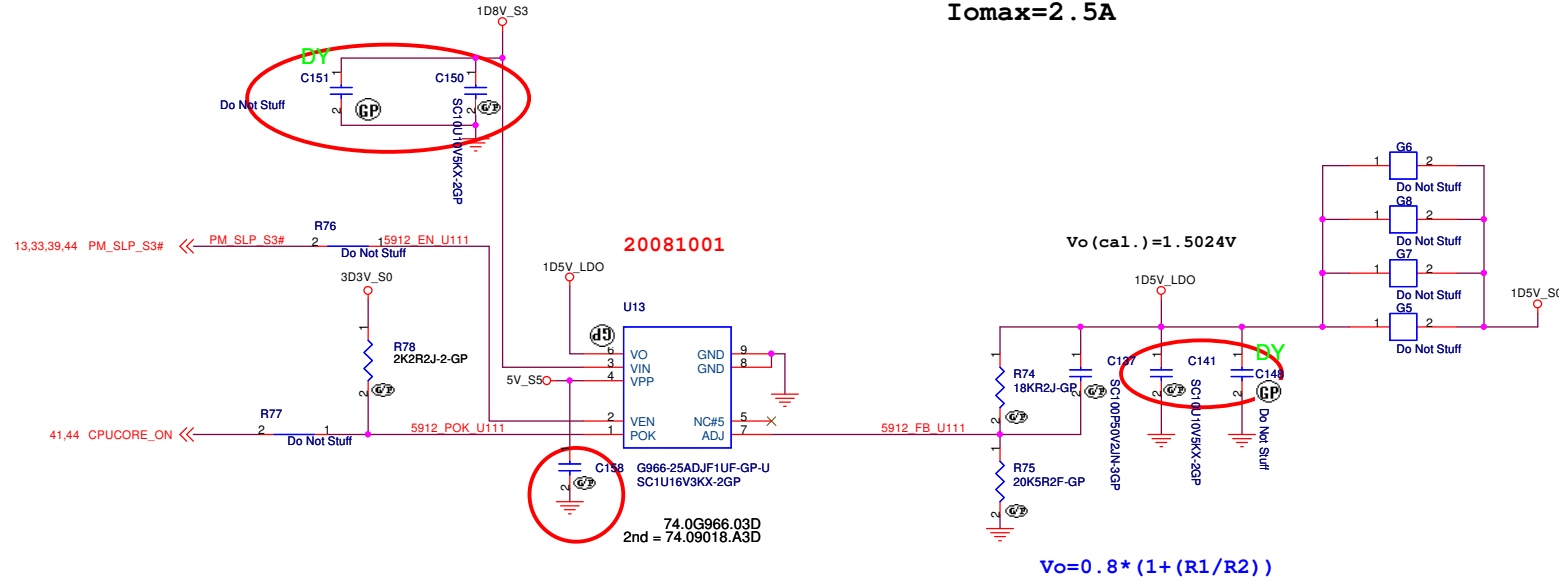
UMA Two Phase 2

緯創資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
File RUN POWER and 3D3V_AUX_S5	
Size	Document Number
HM40-MV	
Date: Monday, December 01, 2008	Sheet 39 of 51
Rev	SB



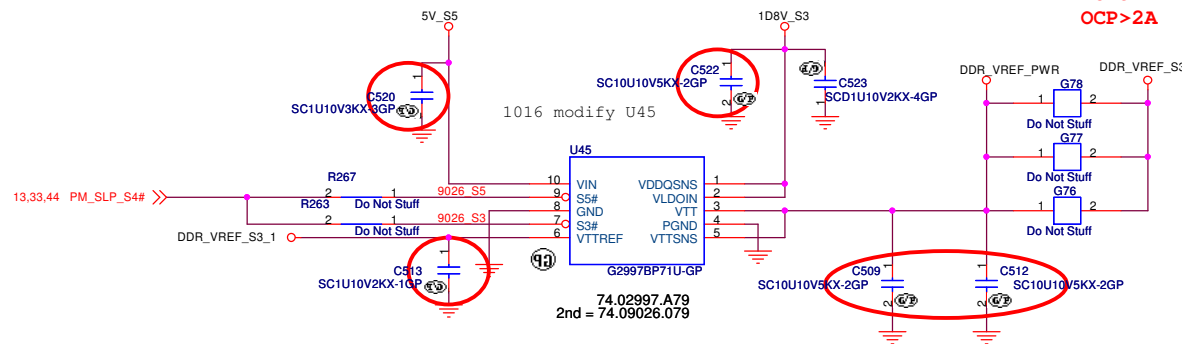


1D5V_S0
I_{omax}=2.5A



20081001

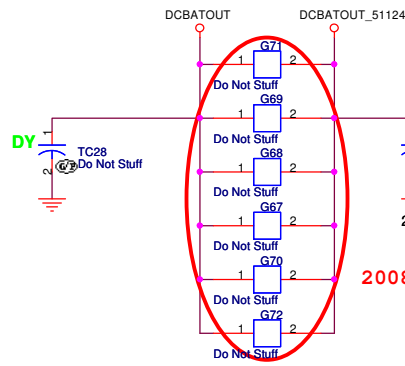
I_{omax}=1A
OCP>2A



UMA Two Phase 2

緯創資通 **Wistron Corporation**
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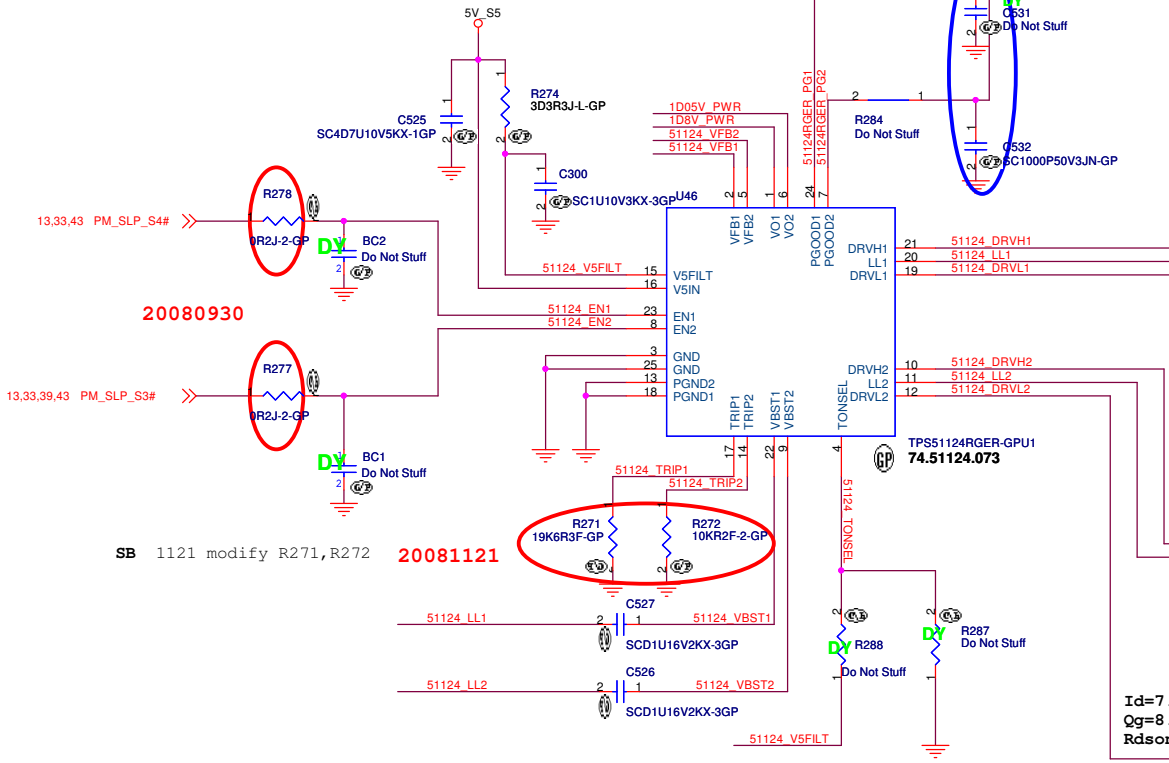
Title		
1D5V & 0D9V		
Size	Document Number	Rev
A3	HM40-MV	SB
Date:	Monday, December 01, 2008	Sheet 43 of 51



$V_{trip} (mV) = R_{trip} (Kohm) * 10 (uA)$
 $I_{ocp} = (V_{trip} / R_{dson}) + ((1 / (2 * L * f)) * ((V_{in} - V_{out}) * V_{out}) / V_{in}))$
 I/P cap: 10U 25V K1206 X5R/ 78.10622.52L

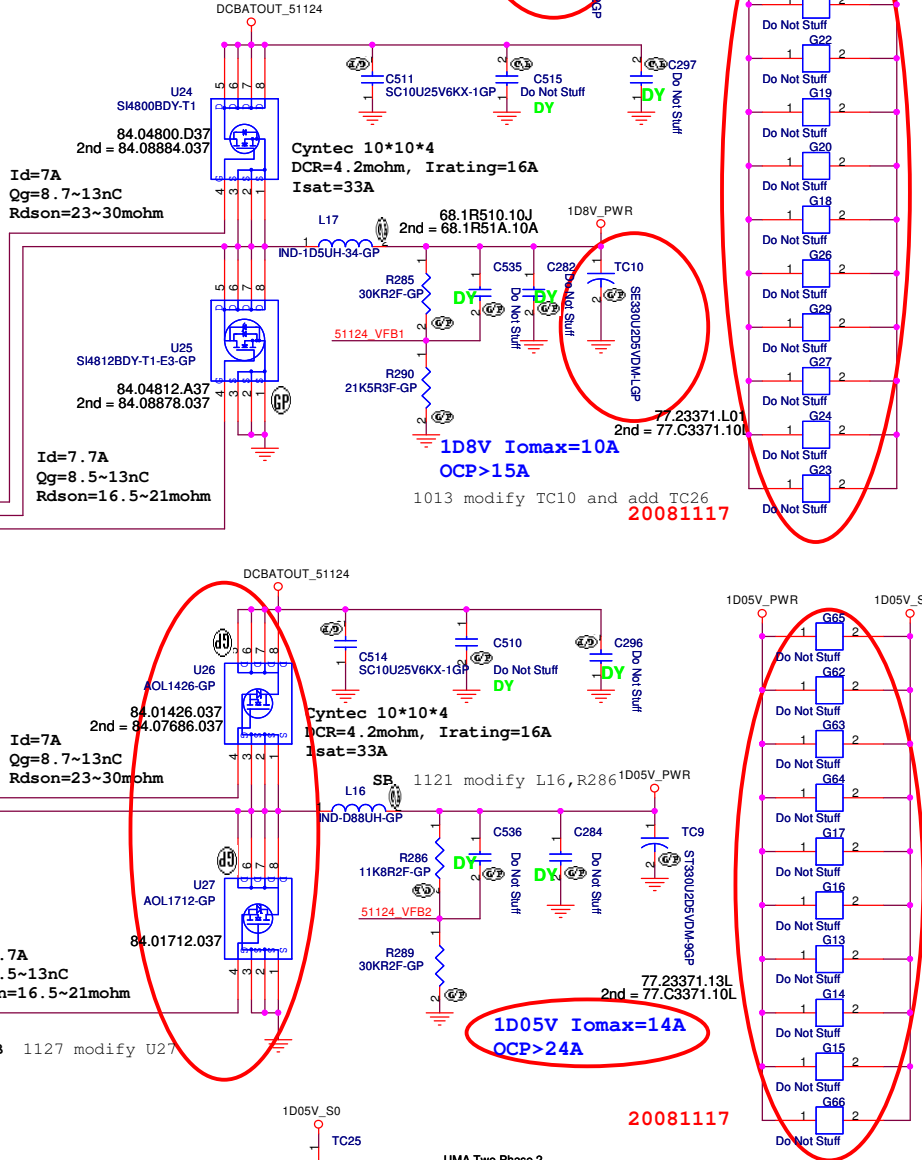
20081117

2008/06/16



	GND	OPEN	V5FILT
TONSEL	240k/CH1 300k/CH2	300k/CH1 360k/CH2	360k/CH1 420k/CH2

$V_{out} = 0.758V * (R1 + R2) / R2$ --> PWM mode
 $V_{out} = 0.764V * (R1 + R2) / R2$ --> Skip Mode



SB 1128 add TC25
 1017 add TC25
 Do Not Stuff
 2nd = 79.3971V.EOL

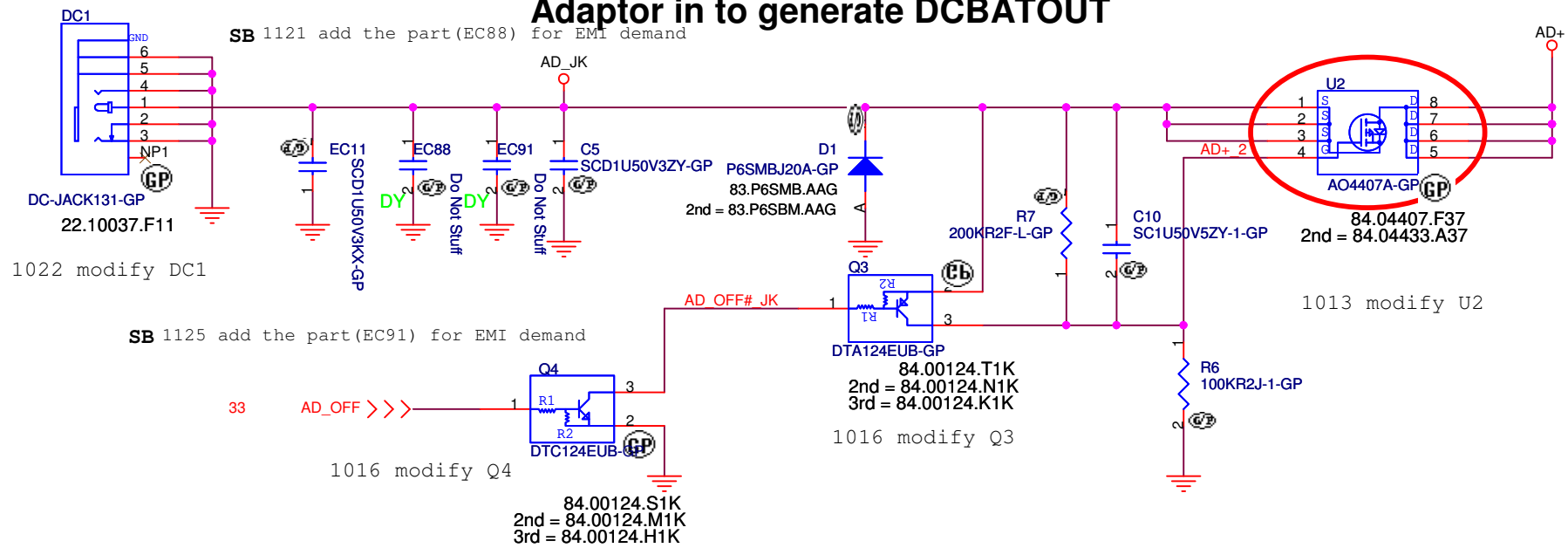
UMA Two Phase 2

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

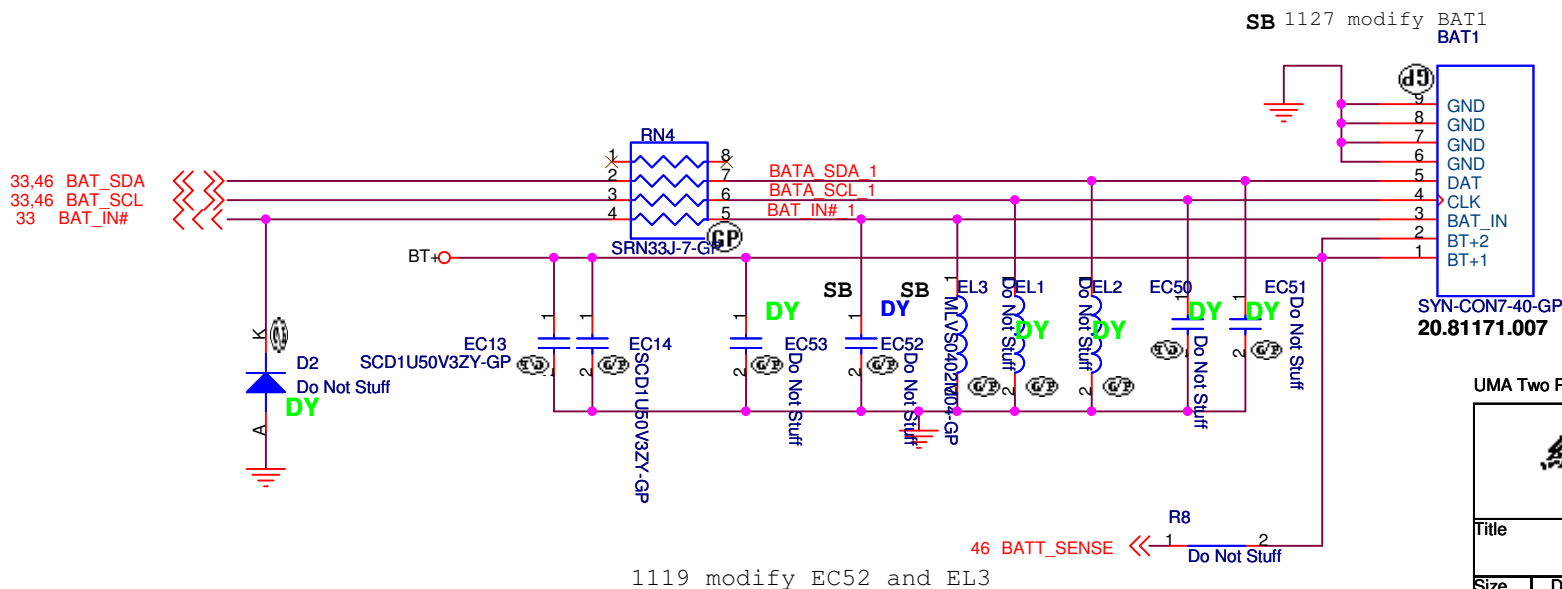
File: **TPS51124 1D8V 1D05V**

Size A3	Document Number HM40-MV	Rev SB
Date: Friday, November 28, 2008	Sheet 44 of 51	

Adaptor in to generate DCBATOUT



BATTERY CONNECTOR



UMA Two Phase 2

緯創資通

Wistron Corporation
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Title

AD/BATT CONN

Size

Document Number

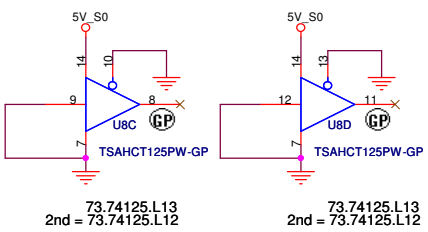
HM40-MV

Rev

SB

Date: Monday, December 01, 2008

Sheet 45 of 51



73.74125.L13
2nd = 73.74125.L12

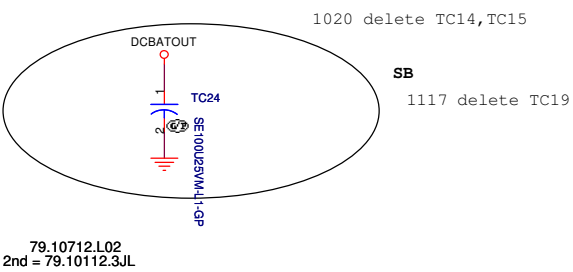
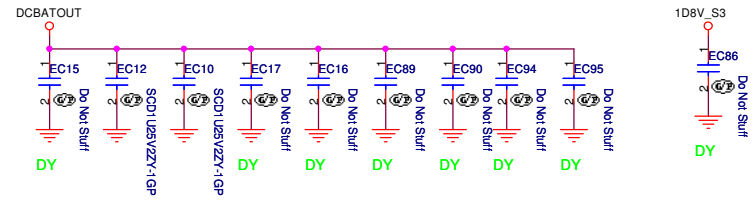
73.74125.L13
2nd = 73.74125.L12

1016 modify U32

1017 add these parts(EC10,EC12,EC15~EC17,EC86) for EMI demand

1020 add the part(EC86) for EMI demand 1125 add the part(EC90) for EMI demand

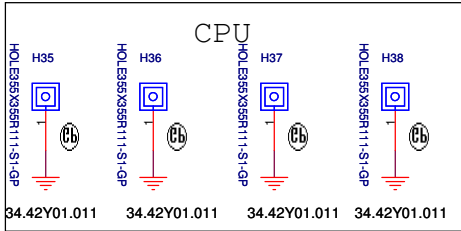
SB 1121 add the part(EC89) for EMI demand 1128 add EC94,EC95 for EMI demand



79.10712.L02
2nd = 79.10112.3JL

1016 add GND1 and GND2 for EMI demand

1017 add GND3 and modify GND2 for EMI demand

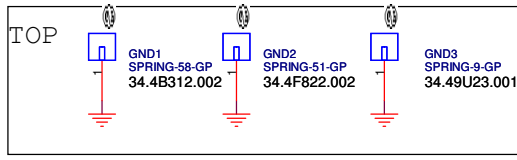


1016 modify H35~H38

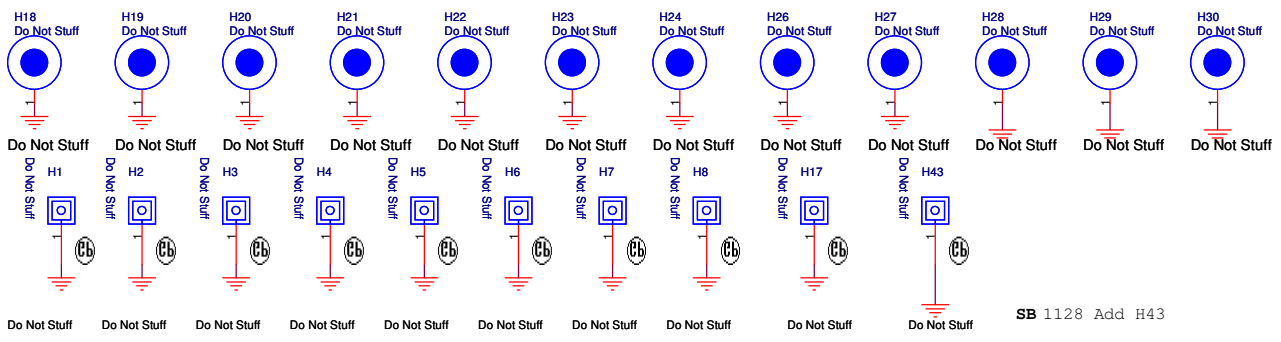
1016 delete H9~H12

1016 modify H31 and H32

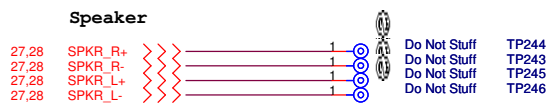
SB 1120 remove H31and H32



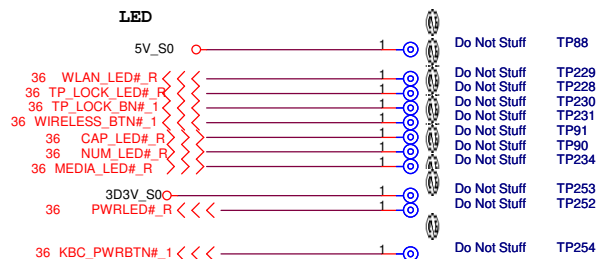
SB 1128 Add GND4,GND7,GND8



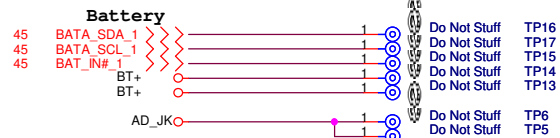
SB 1128 Add H43



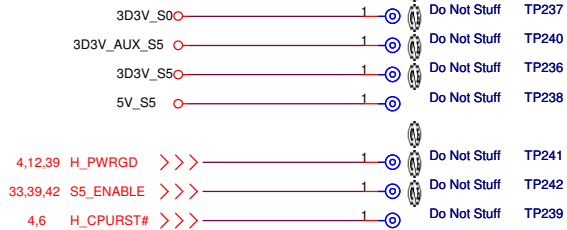
1017 modify USB signal connection



SB
1112 remove the signal(STDBY_LED#_R)



Check test point



Test Point放在Dimm Door打開可量測處



UMA Two Phase 2

緯創資通		Wistron Corporation	
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Title			
AFTE test point			
Size	Document Number	Rev	SB
Date: Monday, December 01, 2008		Sheet 48	of 51


0910 delete F4(Page 18)
0910 update footprint of U15(Page 30)
0910 delete RIGHT1 and LEFT1(Page 33)
0910 modify net names of TP_LEFT and TP_RIGHT(Page 36)
0910 modify test points of AFTE and TPAD
0911 modify net name from LPC_RST to PLT_RST1#(Page 24)
0911 add net name(RBIAS,LED_DUPLEX#,SMDATA,SMCLK) (Page 24)
0911 add net name(DVDD_1_8,ACZ_SDATAIN0_R,FLY_P,FLY_N,VREF_LO,VREF_HI) (Page 26)
0911 add net name(EAPD#_R) (Page 27)
0912 modify the schematic of Page 33
0912 delete GMCH_TXB*(Page 7& 18)
0912 add these parts for EMI demand(page 7,18,20,21,23,26,28,29,30,32,33,34,35)
0915 modify net name from 10M/100M/1G_LED# to 10M/100M_LED#(page24,25)
0915 delete these parts for EMI demand(page 30)
0915 add EC34 for EMI demand(page3)
0915 add EC73 for EMI demand(page 12)
0915 modify LEDs port
0916 move net(SPI_WP#) from U9 pin120 to pin25(page33)
0930 modify BLUE1(page22)
0930 add 2nd for SPK1, MIC1 and modify LOUT1 (page28)
0930 modify FAN1(page32)
0930 modify TPAD1(page35)
0930 modify KB1(page33)
0930 modify net name for BIOS demand(page33)
1001 delete these parts for EMI demand(ED1~8)
1009 modify net name for GND to AGND(page27)
1009 add R4,R5 for AC decoupling(page27)
1009 add R96(page30)
1013 modify TPAD1(page35)
1013 modify U40 from 72.25X16.001 to 72.25X16.A01(page 34)
1013 modify TC11 and add TC12(page42)
1013 modify TC10 and add TC26(page44)
1013 modify U2(page45)
1013 modify U3 and U31(page 46)
1013 modify R161 and R162(page41)
1013 modify card1(page 30)
1014 modify these LEDs(LED11,LED12) (page38)
1014 modify these nets(page 26)
1014 modify R258 from 10k to 20k ohm(page26)
1014 add ER5 for EMI deamnd(page3)
1015 modify LCD1 pin define(page 18)
1015 modify the power from 3D3V_S5 to 5V_S5(page38)
1015 modify TPAD1(page35)
1015 modify RN57(page28)
1015 modify F1(page18)

UMA Two Phase 2

<div>緯創資通</div>		<div>Wistron Corporation</div>	
		<div>21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.</div>	
Title			
Change List			
Size	Document Number		Rev
	HM40-MV		SB
Date: Monday, November 24, 2008		Sheet 49 of	51

1016 modify L1,L2 and L3(page 19)
1016 modify XF1(page 25)
1016 modify RN53 and U10(page 24)
1016 modify U8(page19,47)
1016 modify U4(page 37)
1016 modify U23(page 43)
1016 modify X2(page12)
1016 modify X1(page 33)
1016 modify X3(page 3)
1016 modify D13(page 46)
1016 modify D23(page 20)
1016 modify D9(page 39)
1016 modify D4(page 19)
1016 modify Q3 and Q4(page45)
1016 modify Q18(page 36)
1016 modify Q15~Q17(page 36)
1016 modify Q27~Q30(page38)
1016 modify Q6 and Q14(page 32)
1016 modify Q8(PAGE 24)
1016 add GND1 nad GND2 for EMI demand(page 47)
1016 modify LCD1 pin define(page 18)
1016 delete H9~H12 and modify H35~H38,H31,H32(page 47)
1017 add these parts for EMI demand(page 47)
1017 delete these parts(EC208~EC210) (page 7)
1017 modify BLUE1(page 22)
1017 modify FAN1(page 32)
1017 modify R291 and R293(page 38)
1017 add U61,R52,EC23 and EC24(page 37)
1017 modify RN60(page37)
1017 add TC25(page 44)
1017 add GND3 and modify GND2 for EMI demand(page 47)
1017 modify USB signal connection(page13,18,22,23,30,31,48)
1020 delete C537 for Power demand(page42)
1020 add the part(EC86) for EMI demand(page 47)
1020 delete U61,R52,EC24 and EC23(page 37)
1020 delete TC14,TC15(page 47)
1021 modify TC16(page 31)
1021 delete TC23(page 23)
1021 modify TC5(page 20)
1021 modify and swap these parts(USB1 and USB2) (page 23)
1021 modify SATA1(page 20)
1022 modify DC1(page 45)

UMA Two Phase 2

		Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.	
Title			
Change List			
Size	Document Number		Rev
	HM40-MV		SB
Date:	Monday, November 24, 2008		
	Sheet	50 of	51

SA to SB

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1127 modify C377(page32) for thermal function
1128 Add H43,GND4,GND7,GND8(page47) for EMI demand
1128 modify LCD1(page18) for cost down
1128 Add L19(page24) for vender demand
1128 add EC94,EC95 for EMI demand(page47)
demand

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UMA Two Phase 2

緯創資通

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Title

Change List

Size

Document Number	
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HM40-MVRev
SB

Date: Monday, December 01, 2008

Sheet 51

of

51