

COMPAL CONFIDENTIAL

MODEL NAME : *HAL00*

PCB NO : *LA-2792*

COMPAL P/N : *45135731L01*

Travis (DIS) Schematics Document

**uFCPGA Mobile Yonah
Intel Calistoga + ICH7M**

2006-01-20

REV : 1.0 (DELL: A00)

MB PCB	
Part Number	Description
DAA0000050L	PCB ZJX LA-2792 REV0 MB DIS

BOM NO. 45135731L01

PCB P/N: DAA0000051L

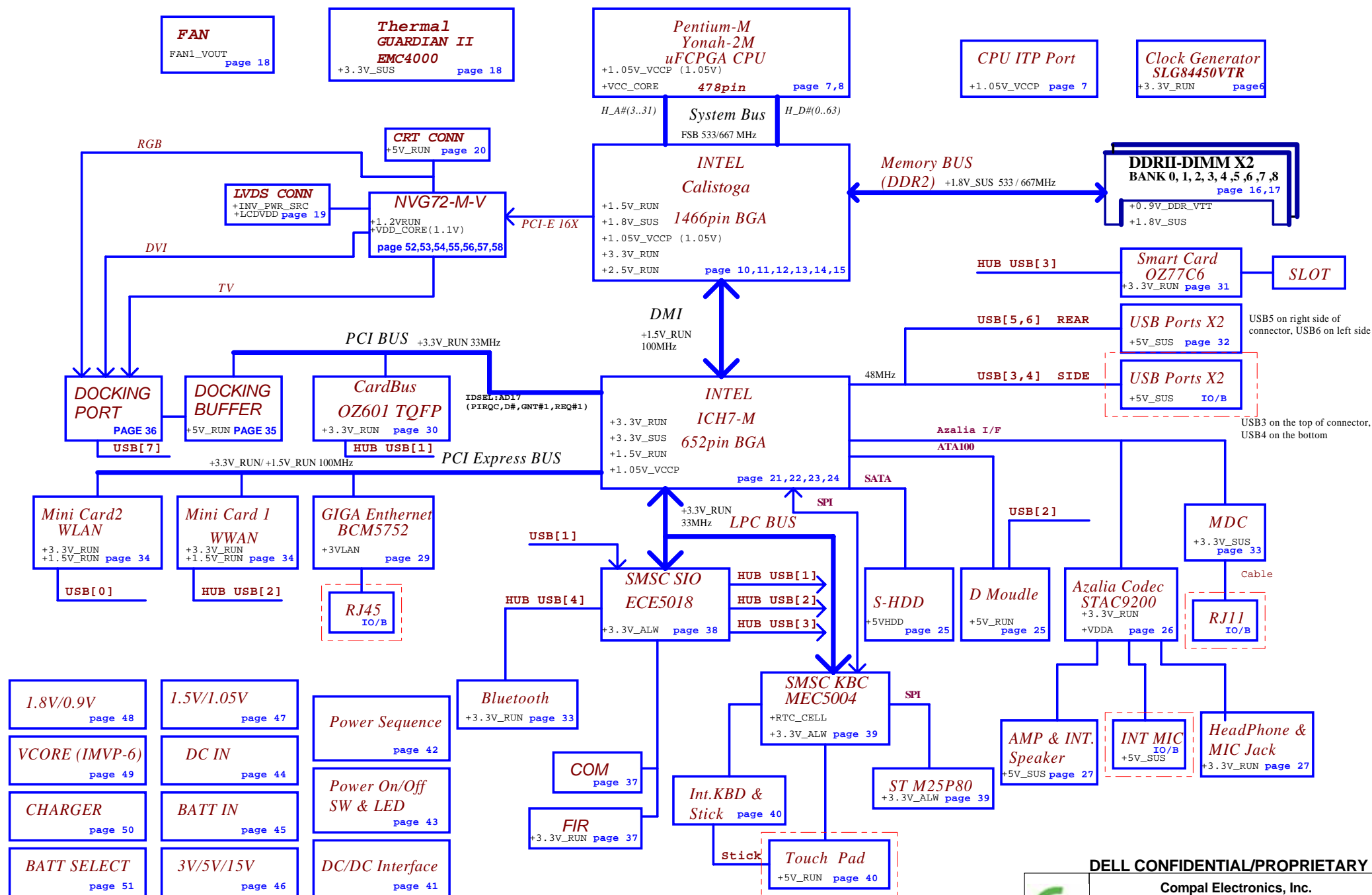
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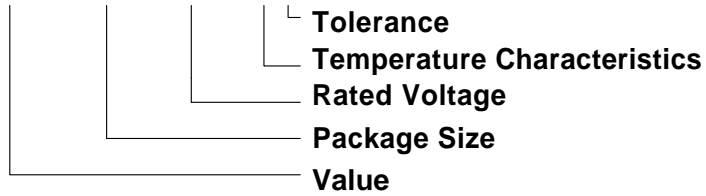
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Cover Sheet		
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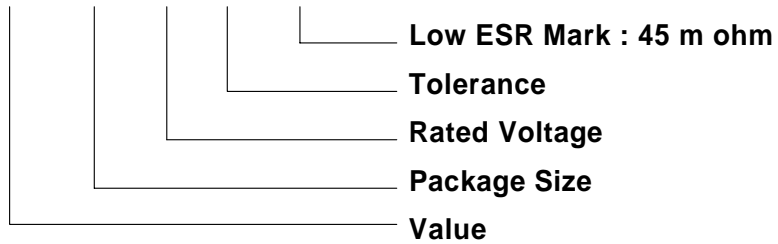
Ceramic Capacitors :

0.1U_0402_6.3VXX



Tantalum or Polymer Capacitors :

10U_D2_10VX_R45



Capacitor Spec Guide:

Temperature Characteristics:

Symbol	0	1	2	3	4	5	6	7
CODE	Z5U	Z5V	Z5P	Y5U	Y5V	Y5P	X5R	X7R

8	9	A	B	C	D	E	F	G
NPO	COG	X6S	BJ	CH	CJ	CK	SH	SJ

H	I	J	K
UJ	UK	SL	X5S

Tolerance:

Symbol	A	B	C	D	F	G	H	J
CODE	+0.05PF	+0.1PF	+0.25PF	+0.5PF	+1PF	+2%	+3%	+5%

K	M	N	P	Q	V	X	Z	
+10%	+20%	+30%	+100,-0%	+30,-10%	+20,-10%	+40,-20%	+80,-20%	

NOTE1:

@XX : Depop component

USB TABLE

USB PORT#	DESTINATION
0	Mini 2(WLAN)
1	USB Hub (5018)
2	D Moudle
3,4	SIDE
5,6	REAR
7	Docking

USB HUB	DESTINATION
1	PC Card Bay
2	Mini 1(WWAN)
3	Smart Card --> BIO
4	Blue tooth

PCI TABLE

PCI DEVICE	IDSEL	REQ#/GNT#	PIRQ
CARD BUS	AD17	1	C

PM TABLE

State	power plane	+5V_ALW +3.3V_ALW	+3.3V_SRC +15V_SUS +5V_SUS +3.3V_SUS +1.8V_SUS	+5V_RUN +3.3V_RUN +1.8V_RUN +0.9V_DDR_VTT +1.5V_RUN +VCC_CORE +1.05V_VCCP +2.5V_RUN
S0		ON	ON	ON
S1		ON	ON	ON
S3		ON	ON	OFF
S5 S4/AC		ON	OFF	OFF
S5 S4/AC don't exist		OFF	OFF	OFF

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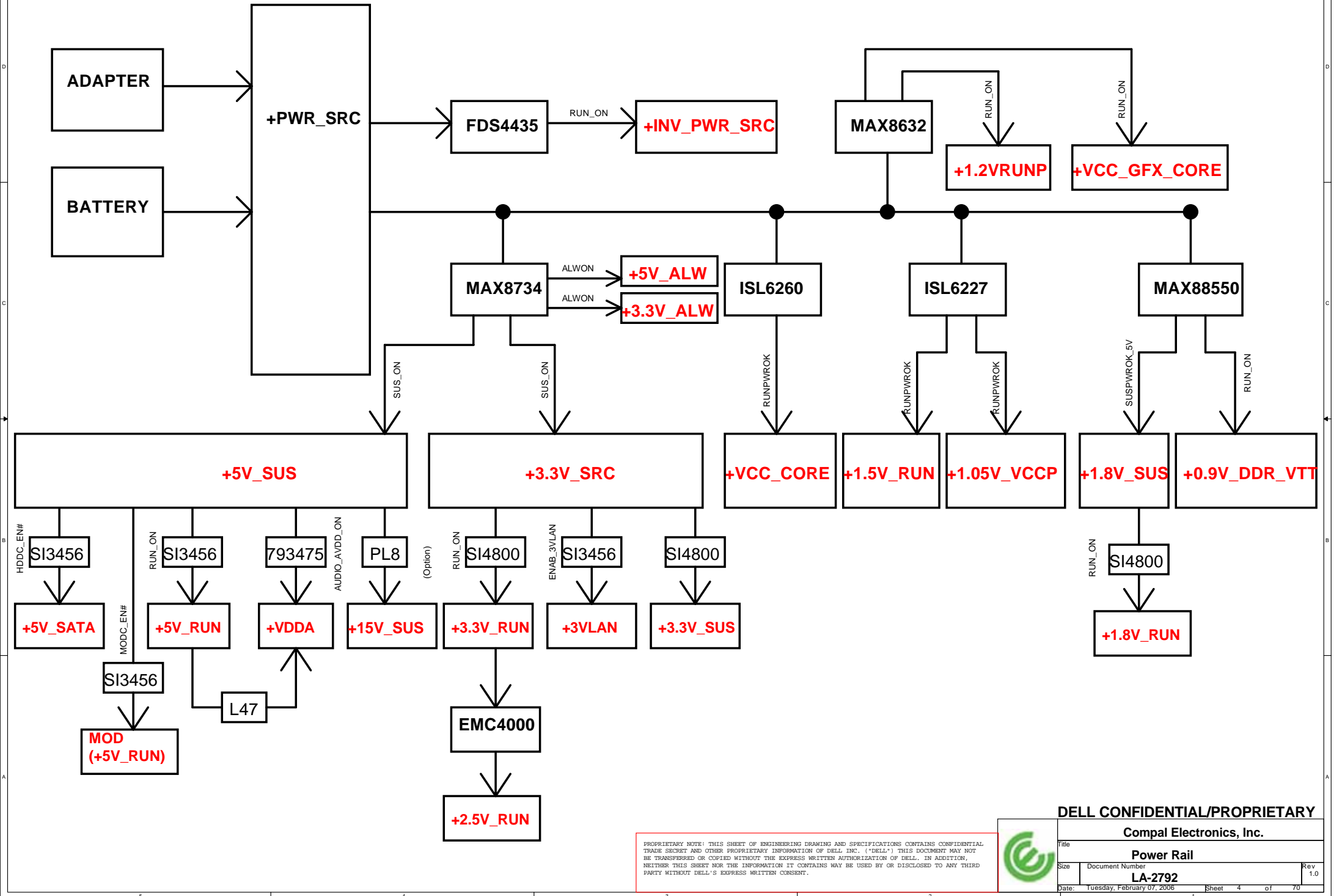
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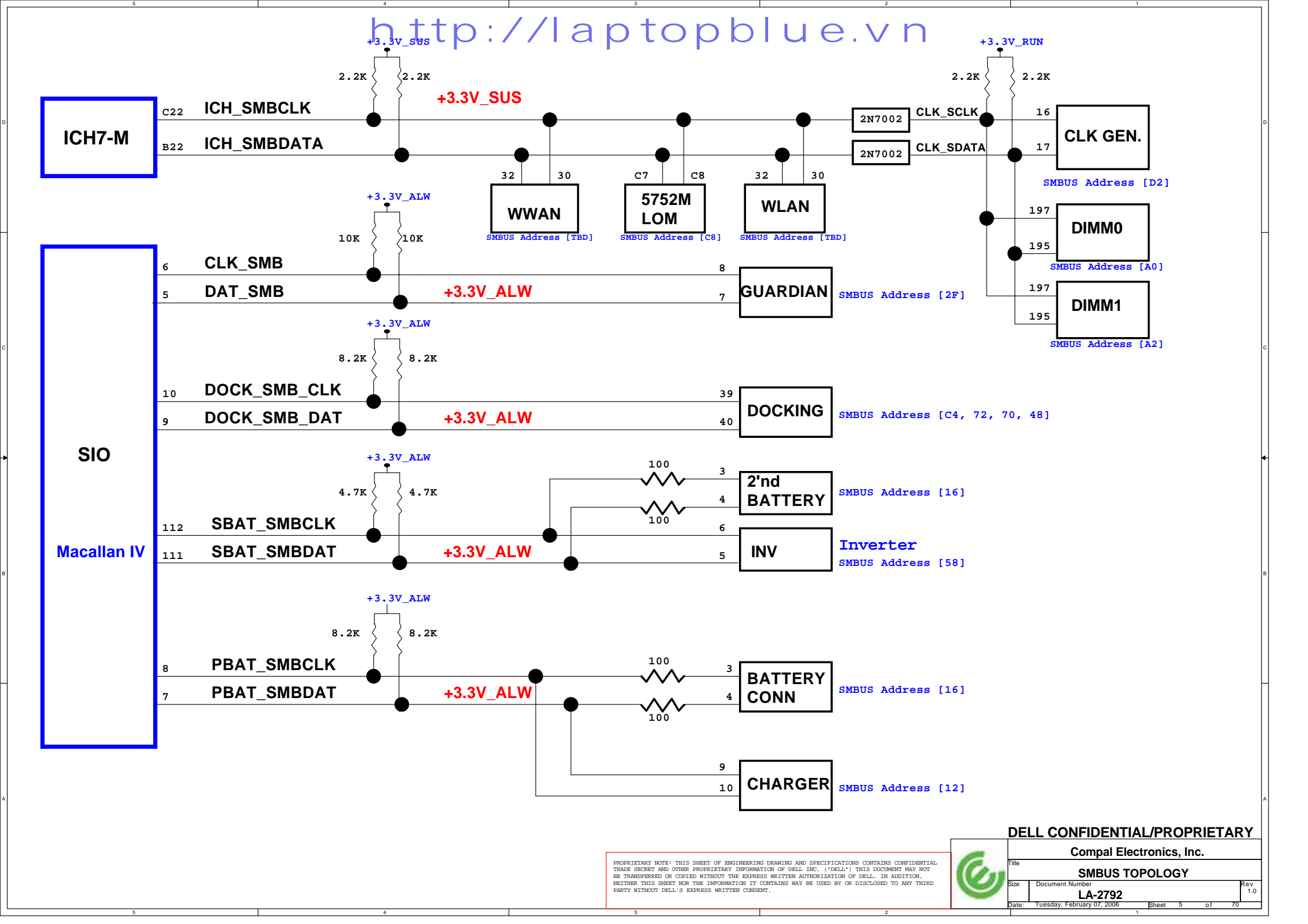
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The diagram illustrates the SMBUS topology for the Dell Macallan IV. It shows the connections between the ICH7-M and SIO controllers and various peripheral components. The components and their SMBUS addresses are as follows:

- ICH7-M:** ICH_SMBCLK (C22), ICH_SMBDATA (B22)
- SIO:** CLK_SMB (6), DAT_SMB (5), DOCK_SMB_CLK (10), DOCK_SMB_DAT (9), SBAT_SMBCLK (112), SBAT_SMBDAT (111), PBAT_SMBCLK (8), PBAT_SMBDAT (7)
- WWAN:** SMBUS Address [TBD]
- 5752M LOM:** SMBUS Address [C8]
- WLAN:** SMBUS Address [TBD]
- GUARDIAN:** SMBUS Address [2F]
- DOCKING:** SMBUS Address [C4, 72, 70, 48]
- 2'nd BATTERY:** SMBUS Address [16]
- INV (Inverter):** SMBUS Address [58]
- BATTERY CONN:** SMBUS Address [16]
- CHARGER:** SMBUS Address [12]
- CLK GEN.:** CLK_SCLK (16), CLK_SDATA (17)
- DIMM0:** SMBUS Address [A0]
- DIMM1:** SMBUS Address [A2]

The diagram also shows the power supply connections for each component, including +3.3V_SUS, +3.3V_ALW, and +3.3V_RUN. The components are connected to the SMBUS via various resistors (2.2K, 10K, 8.2K, 4.7K, 100Ω).

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 - +3.3V_RUN:** Connected to CLK_SCLK and CLK_SDATA via 2.2K resistors.
- Other Components:**
 - CLK GEN.:** Connected to CLK_SCLK and CLK_SDATA via 2N7002 transistors.
 - DIMM0 and DIMM1:** Connected to the SMBUS via 197 and 195 pins.

The diagram also includes a proprietary note and a title block with the following information:

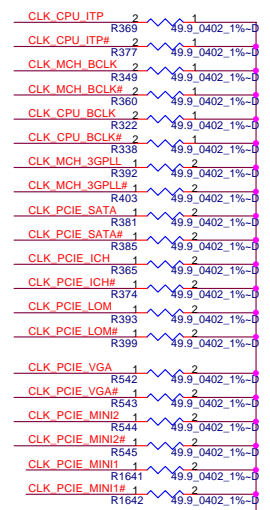
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- Other Components:**
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 - DIMM0 and DIMM1:** Connected to the SMBUS via 197 and 195 pins.

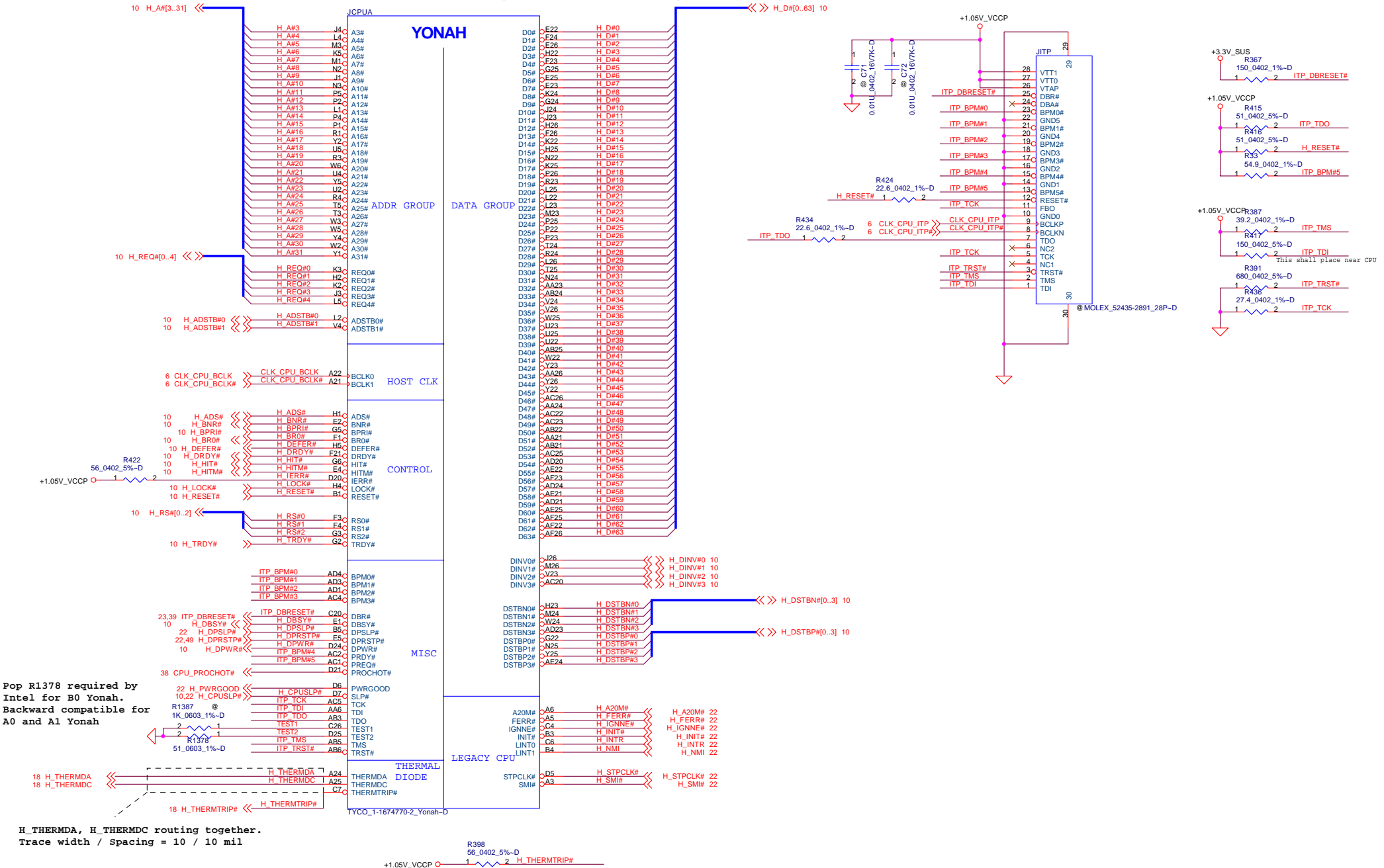
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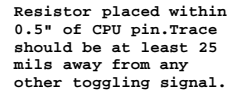
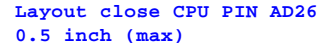
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Yonah in mFCPGA479

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CPU_BSEL	CPU_BSEL2	CPU_BSEL1	CPU_BSEL0
133	0	0	1
166	0	1	1



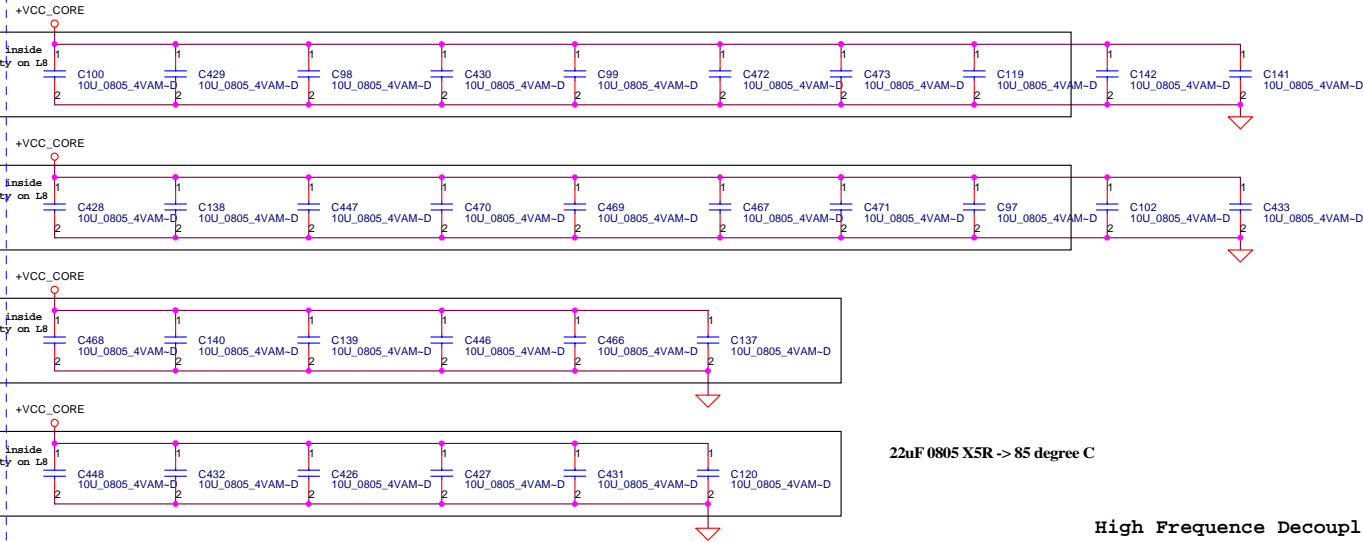
POWER. GROUND. RESERVED SIGNALS AND NC



POWER, GROUND

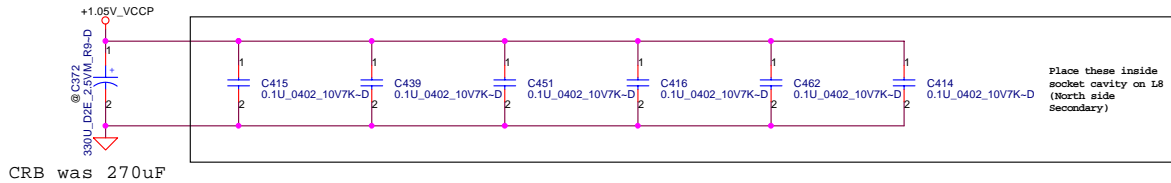
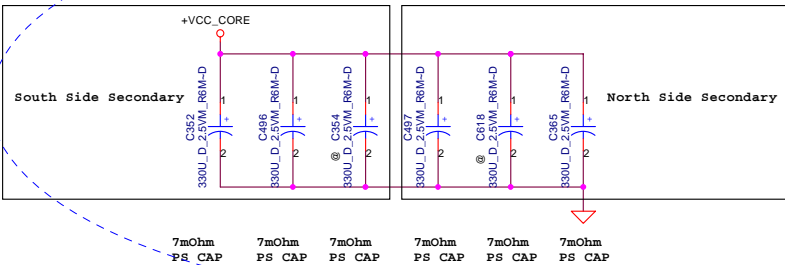
TYCO_1-1674770-2_Yonah-D

http://laptopblue.vn



Near VCORE regulator.

The caps need change to ESR=6m ohms



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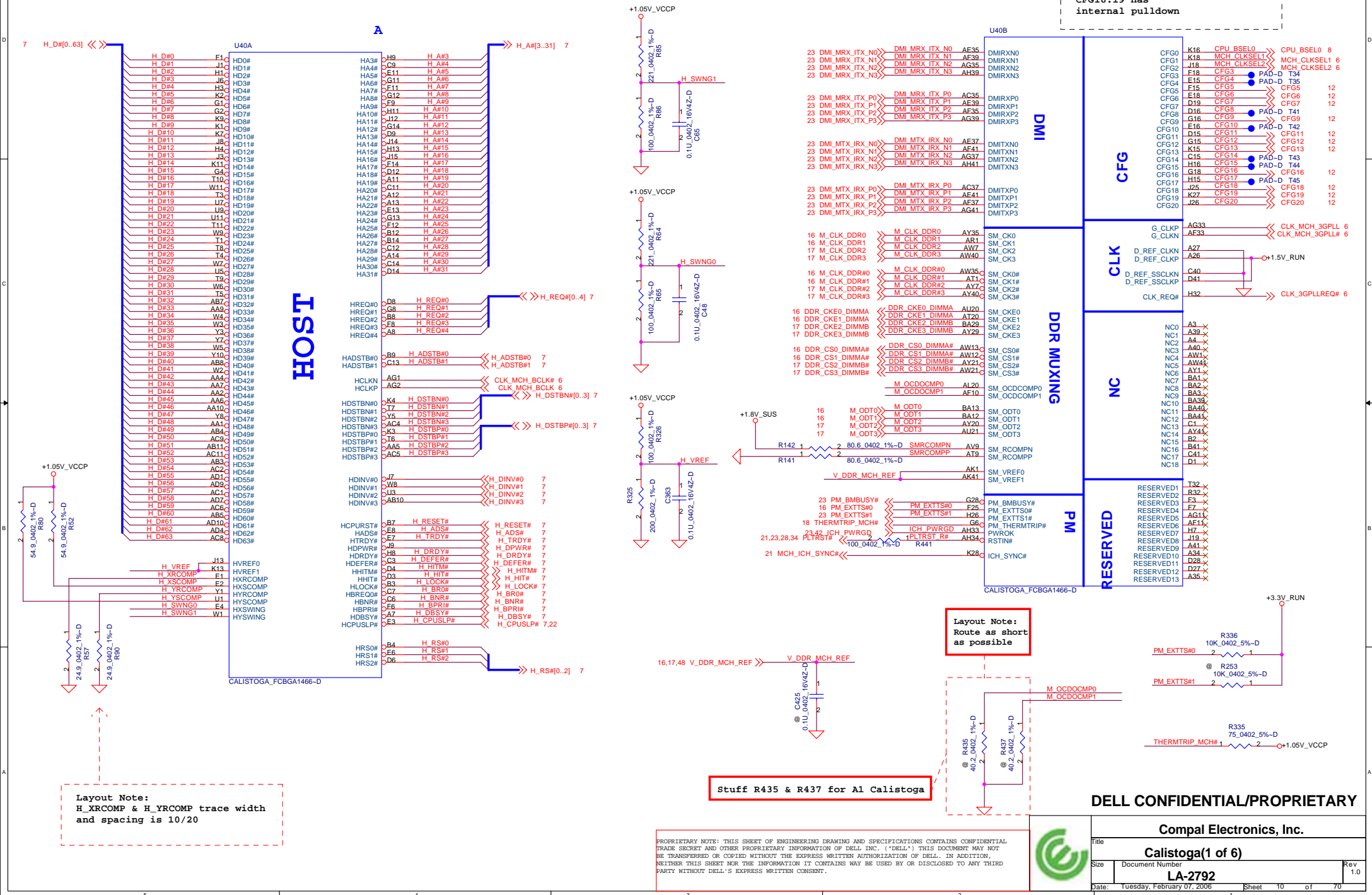
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CPU Bypass

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Description at page12

Note :
CFG3:17 has
internal pullup,
CFG18:19 has
internal pulldown



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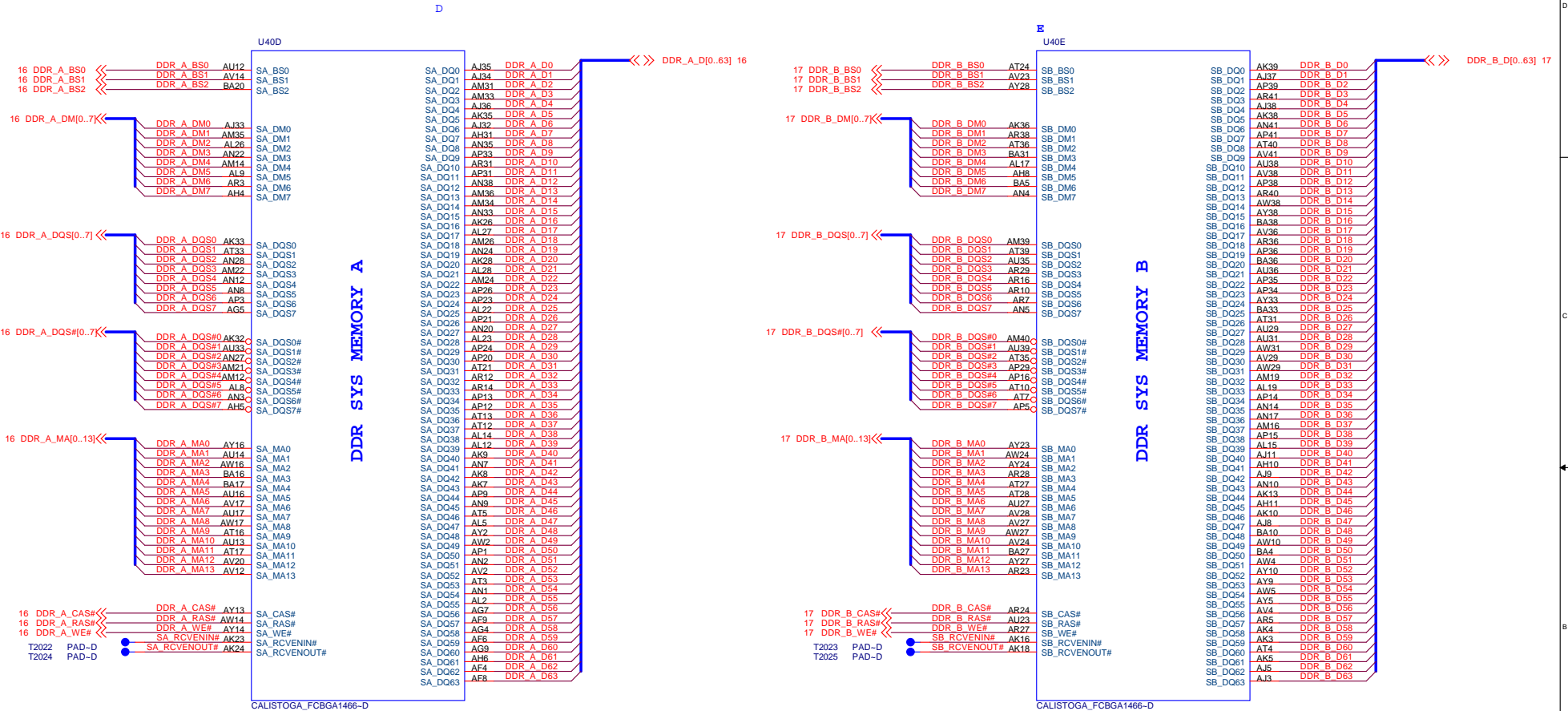
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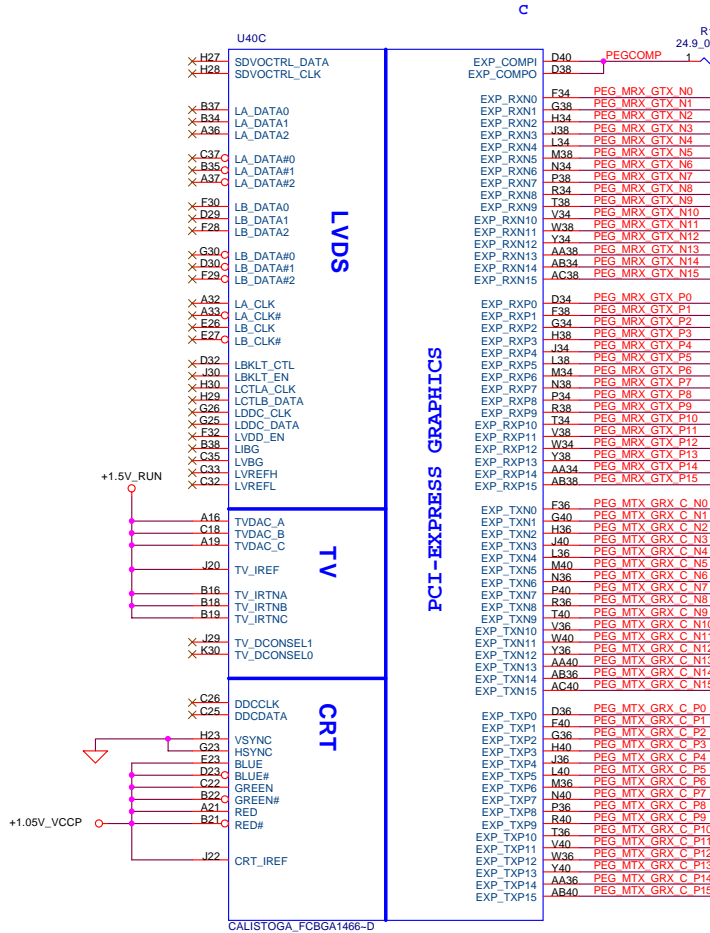
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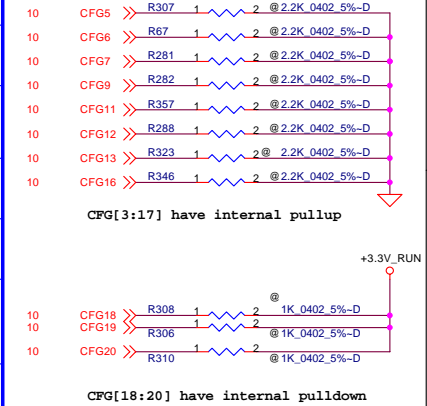
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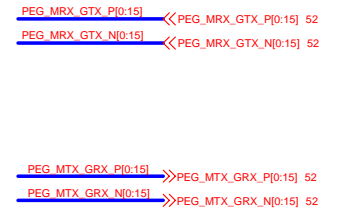




CFG5	Low = DMI x 2 High = DMI x 4 *
CFG6	Low = Moby Dick High = Calistoga *
CFG7	Low = DT/Transportable CPU High = Mobile CPU *
CFG9	Low = Reverse Lane High = Normal Operation *
CFG11	
CFG[13:12]	00 = Reserved 01 = XOR Mode Enabled 10 = All Z Mode Enabled 11 = Normal Operation * (Default)
CFG16 (FSB Dynamic ODT)	Low = Disabled High = Enabled *
CFG18 (VCC Select)	Low = 1.05V (Default) * High = 1.5V
CFG19 (DMI Lane Reversal)	Low = Normal * Operation (Default): Lane number in Order High = Reverse Lane
SDVO_CTRLDATA	Low = No SDVO Device Present (Default) * High = SDVO Device Present
CFG20 (PCIE/SDVO select)	Low = Only PCIE or SDVO is operational. (Default) * High = PCIE/SDVO are operating simu.



PEG MTX GRX C P0	C1561	2	0.1U 0402 16V4Z-D	PEG MTX GRX P0
PEG MTX GRX C N0	C1562	2	0.1U 0402 16V4Z-D	PEG MTX GRX N0
PEG MTX GRX C P1	C1563	2	0.1U 0402 16V4Z-D	PEG MTX GRX P1
PEG MTX GRX C N1	C1564	2	0.1U 0402 16V4Z-D	PEG MTX GRX N1
PEG MTX GRX C P2	C1565	2	0.1U 0402 16V4Z-D	PEG MTX GRX P2
PEG MTX GRX C N2	C1566	2	0.1U 0402 16V4Z-D	PEG MTX GRX N2
PEG MTX GRX C P3	C1567	2	0.1U 0402 16V4Z-D	PEG MTX GRX P3
PEG MTX GRX C N3	C1568	2	0.1U 0402 16V4Z-D	PEG MTX GRX N3
PEG MTX GRX C P4	C1569	2	0.1U 0402 16V4Z-D	PEG MTX GRX P4
PEG MTX GRX C N4	C1570	2	0.1U 0402 16V4Z-D	PEG MTX GRX N4
PEG MTX GRX C P5	C1571	2	0.1U 0402 16V4Z-D	PEG MTX GRX P5
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PEG MTX GRX C N9	C1580	2	0.1U 0402 16V4Z-D	PEG MTX GRX N9
PEG MTX GRX C P10	C1581	2	0.1U 0402 16V4Z-D	PEG MTX GRX P10
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PEG MTX GRX C P11	C1583	2	0.1U 0402 16V4Z-D	PEG MTX GRX P11
PEG MTX GRX C N11	C1584	2	0.1U 0402 16V4Z-D	PEG MTX GRX N11
PEG MTX GRX C P12	C1585	2	0.1U 0402 16V4Z-D	PEG MTX GRX P12
PEG MTX GRX C N12	C1586	2	0.1U 0402 16V4Z-D	PEG MTX GRX N12
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PEG MTX GRX C P14	C1589	2	0.1U 0402 16V4Z-D	PEG MTX GRX P14
PEG MTX GRX C N14	C1590	2	0.1U 0402 16V4Z-D	PEG MTX GRX N14
PEG MTX GRX C P15	C1591	2	0.1U 0402 16V4Z-D	PEG MTX GRX P15
PEG MTX GRX C N15	C1592	2	0.1U 0402 16V4Z-D	PEG MTX GRX N15

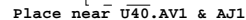


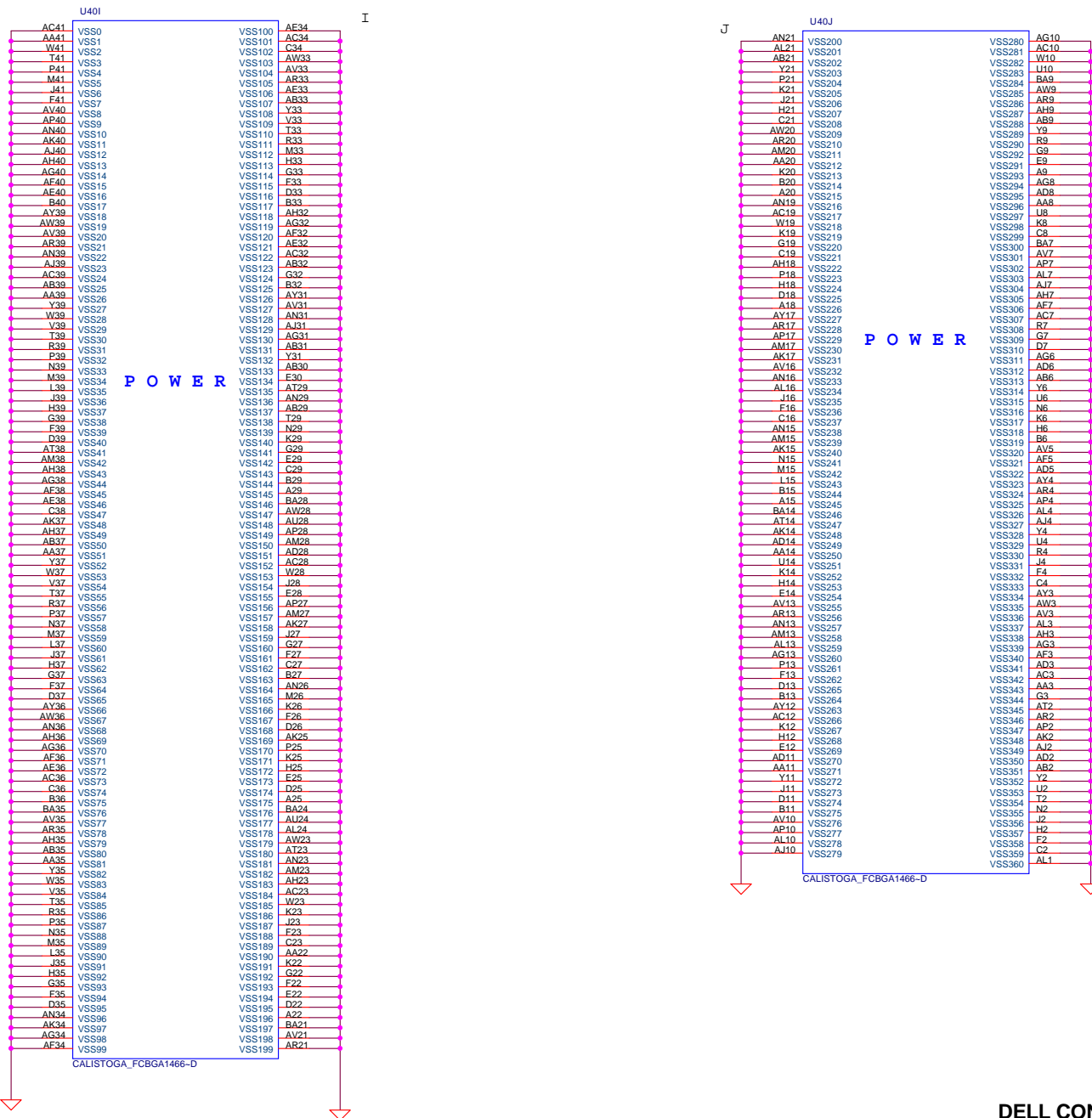
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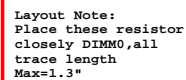
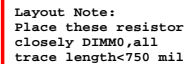
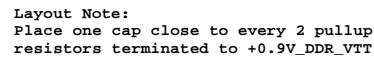
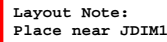
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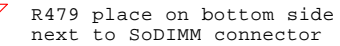
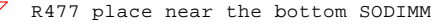
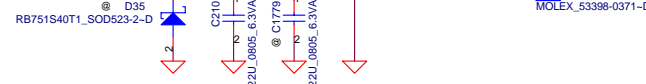
Compal Electronics, Inc.

DDRII-SODIMM SLOT1

LA-2792

Rev	1.0
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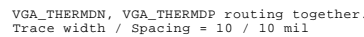


$$V_{SET} = \frac{R_{262}}{R_{249} + R_{262}} \times 3.3V$$

$$V_{SET} = \left(\frac{T_P - 70}{21} \right)$$

Place C341 close to the Guardian pins as possible

DP2, DN2 routing together. Trace width / Spacing = 10 / 10 mil



Place cap close to the
Guardian pins as possible.

REM_DIODE1_N, REM_DIODE1_P routing together.
Trace width / Spacing = 10 / 10 mil

Place C47 close to the Guardian pins as possible

Place under CPU

SMBUS ADDRESS : 2F

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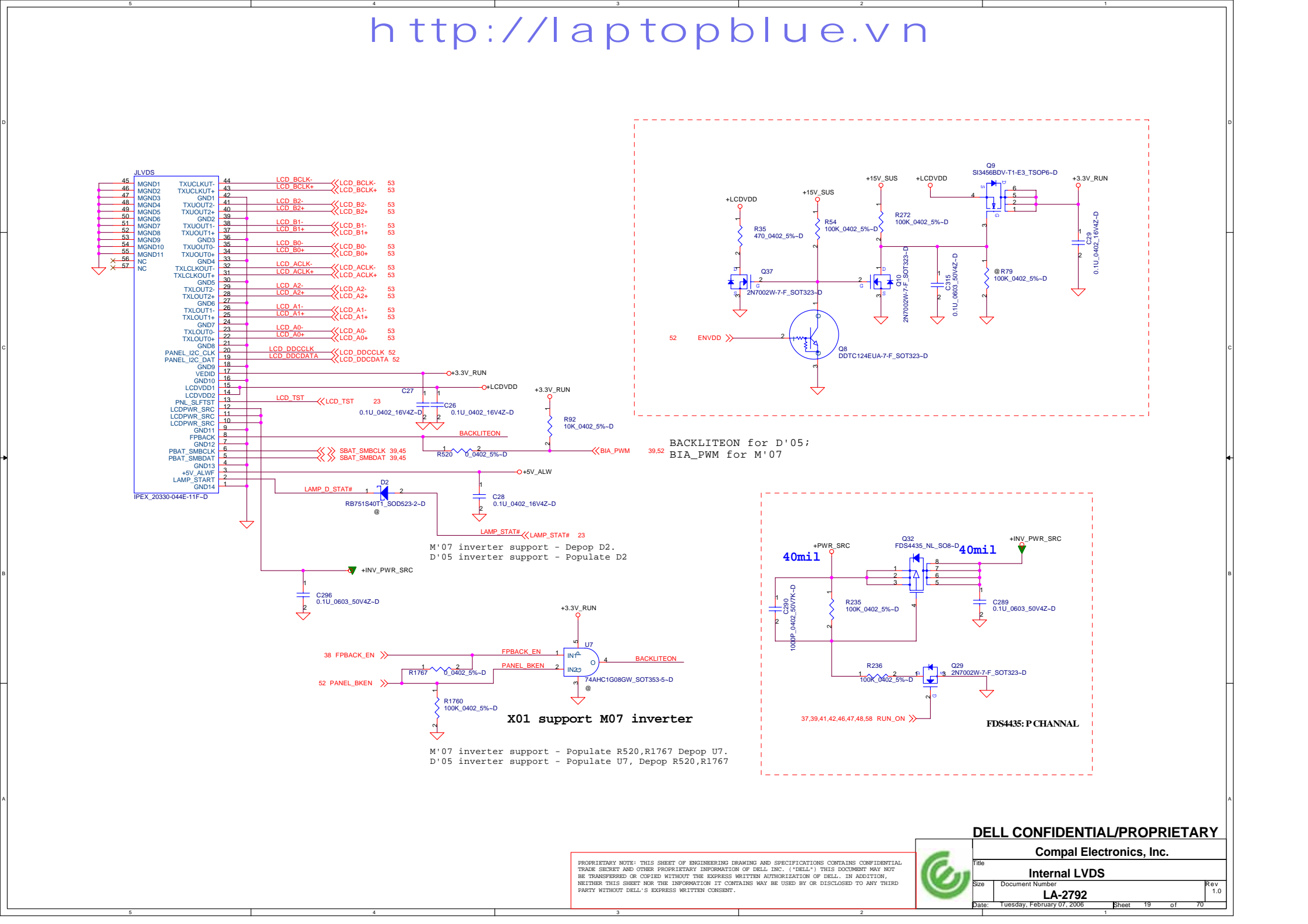
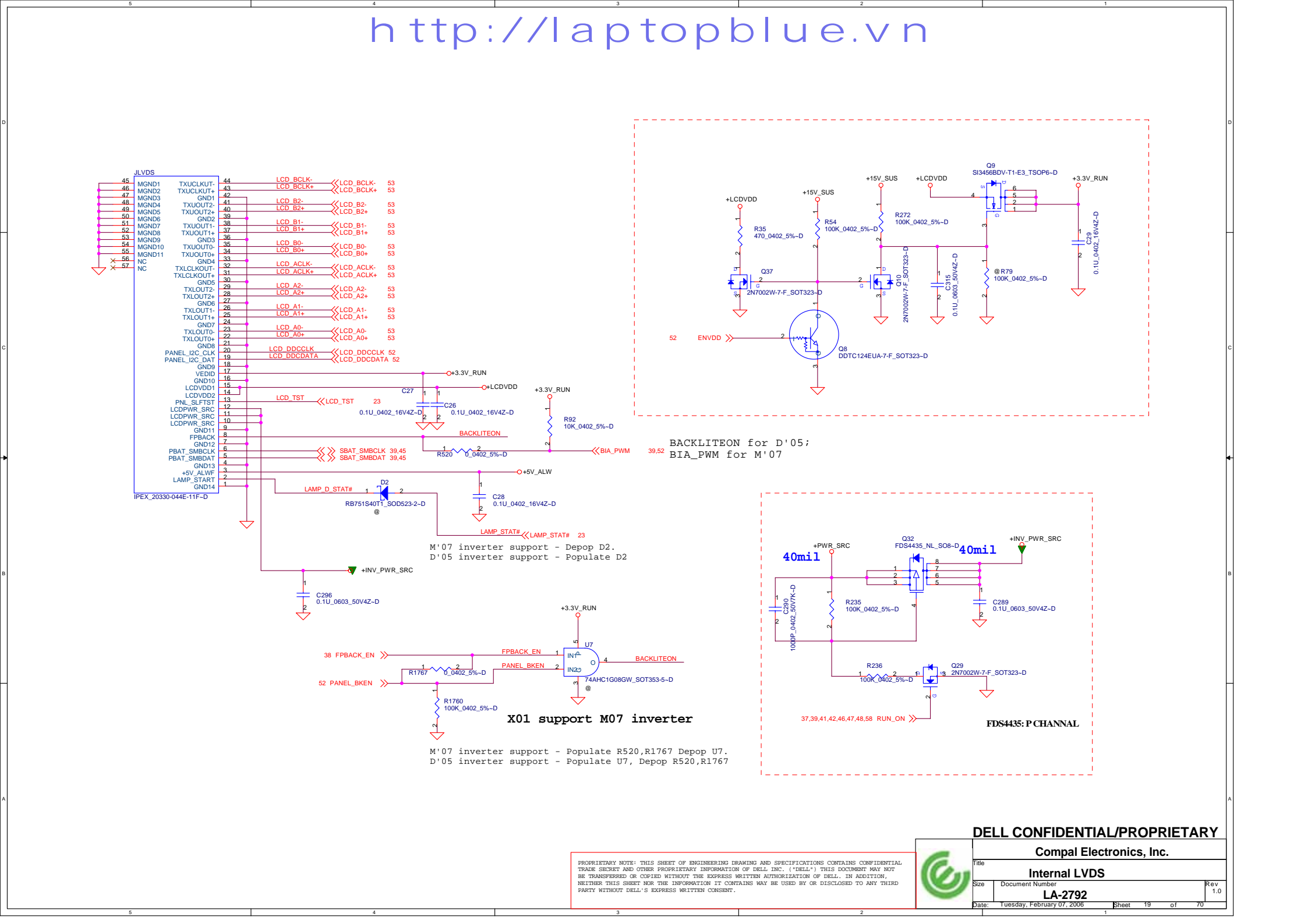
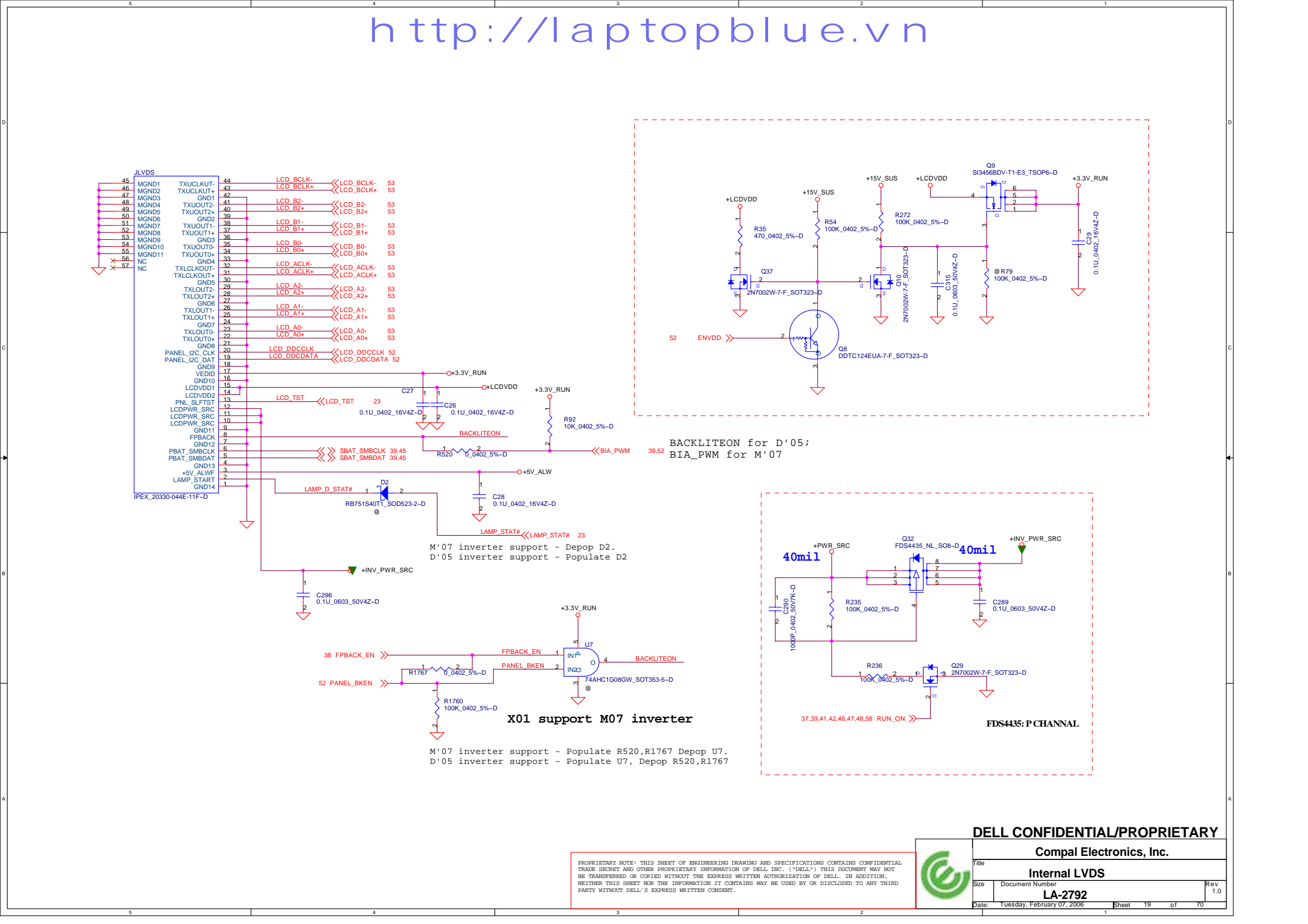
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FAN & Thermal Sensor

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[illegible][illegible]

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Internal LVDS

Component Values and Part Numbers:

- R35: 470_0402_5%-D
- R54: 100K_0402_5%-D
- R272: 100K_0402_5%-D
- R235: 100K_0402_5%-D
- R236: 100K_0402_5%-D
- R1767: 100K_0402_5%-D
- R1760: 100K_0402_5%-D
- R520: 0_0402_5%-D
- C27: 0.1U_0402_16V4Z-D
- C26: 0.1U_0402_16V4Z-D
- C28: 0.1U_0402_16V4Z-D
- C296: 0.1U_0603_50V4Z-D
- C29: 0.1U_0603_50V4Z-D
- C315: 0.1U_0603_50V4Z-D

Notes:

- BACKLITEON for D'05; BIA_PWM for M'07
- M'07 inverter support - Depop D2. D'05 inverter support - Populate D2
- X01 support M07 inverter
- M'07 inverter support - Populate R520,R1767 Depop U7. D'05 inverter support - Populate U7, Depop R520,R1767
- FDS4435: P CHANNEL

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Internal LVDS

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[illegible]

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BACKLITEON for D'05;
BIA_PWM for M'07

FDS4435: P CHANNEL

X01 support M07 inverter

M'07 inverter support - Depop D2.
D'05 inverter support - Populate D2

M'07 inverter support - Populate R520,R1767 Depop U7.
D'05 inverter support - Populate U7, Depop R520,R1767

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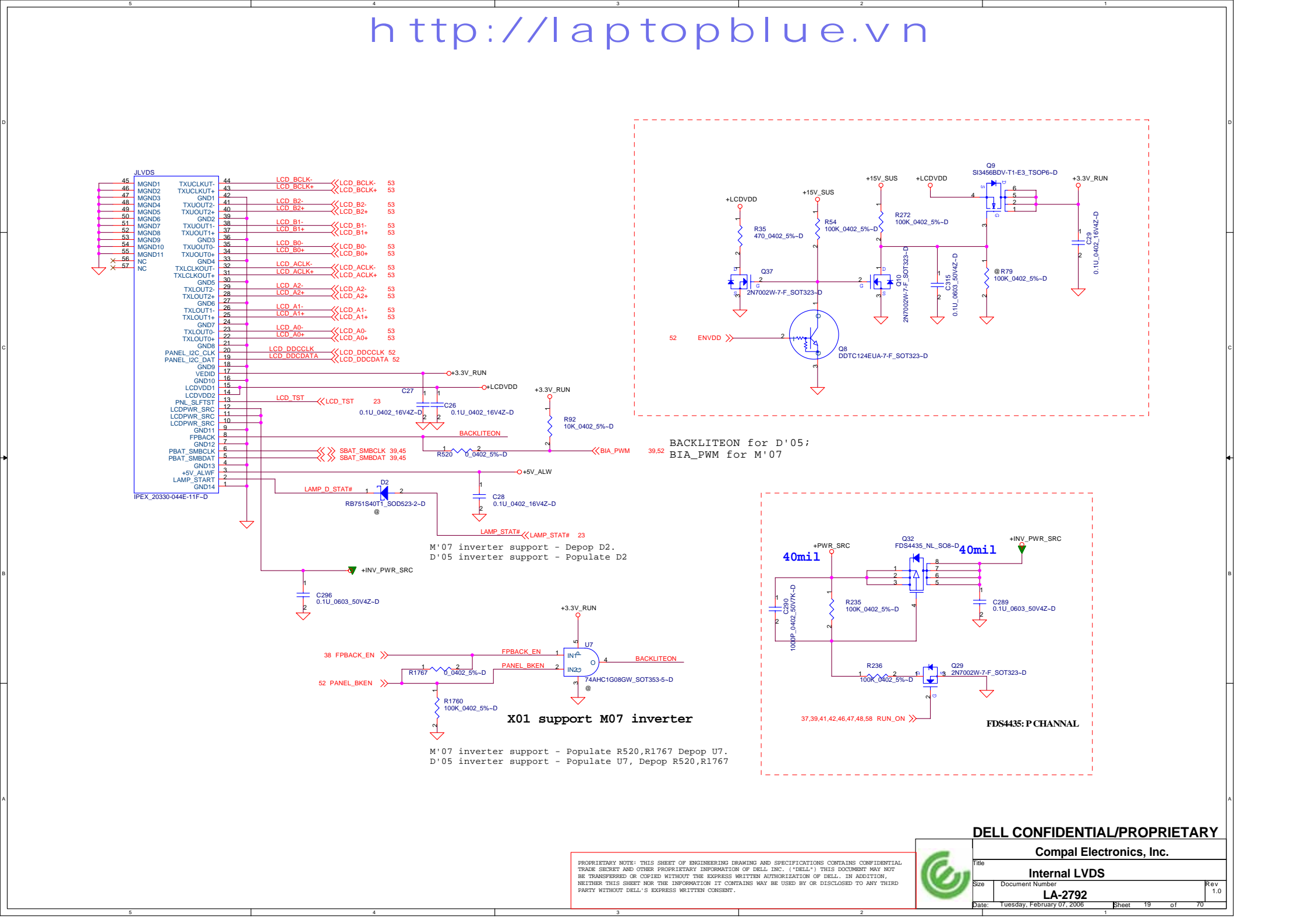
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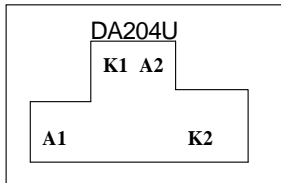
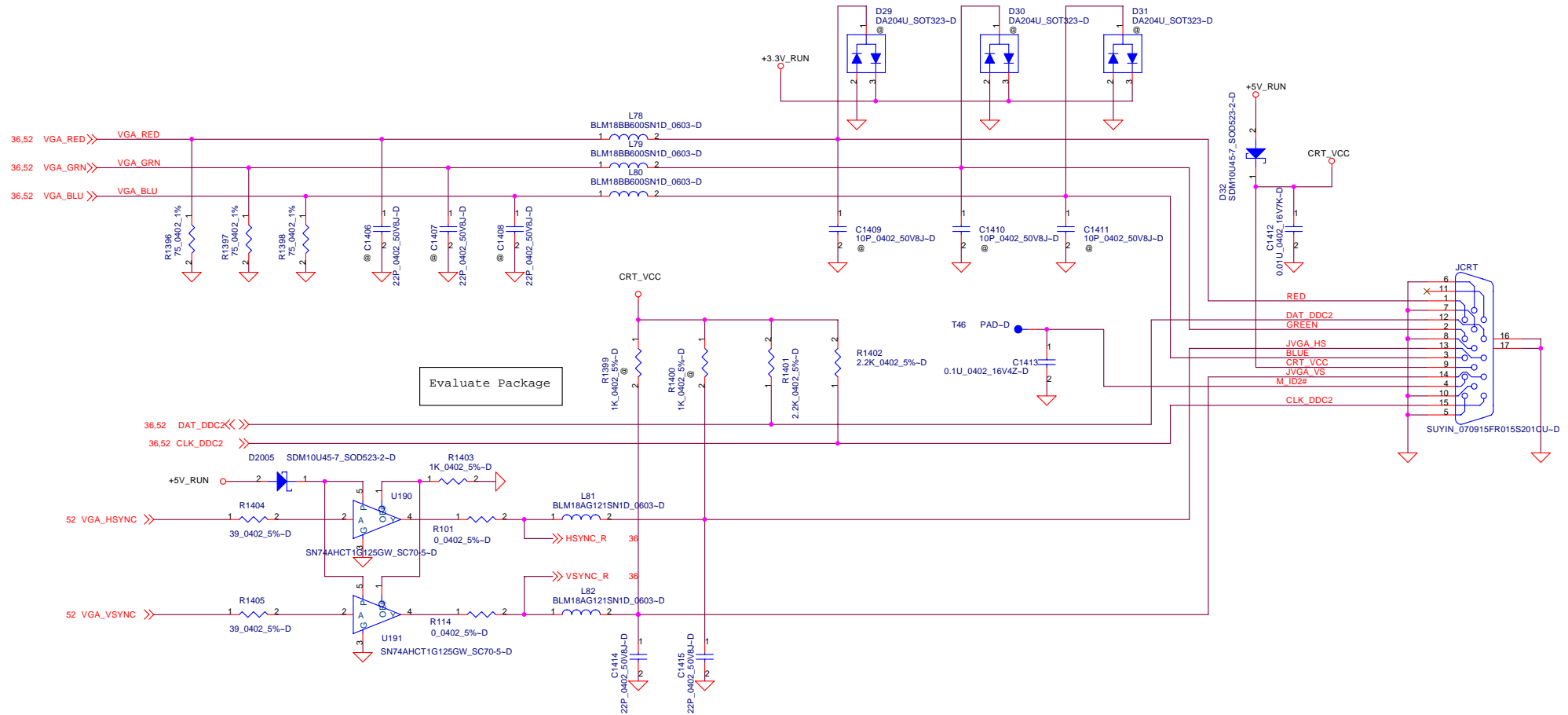
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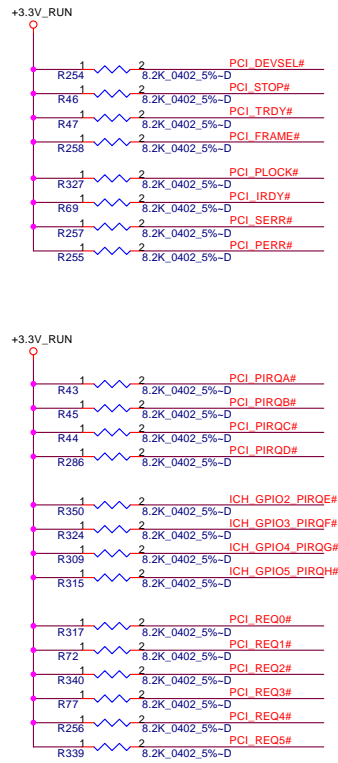
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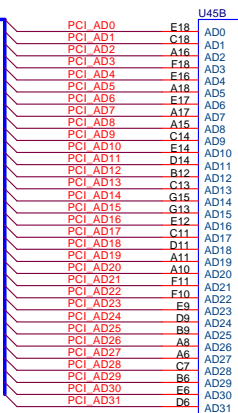
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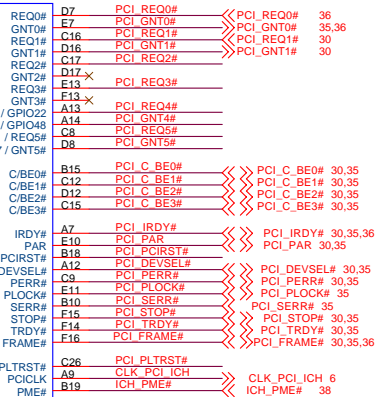
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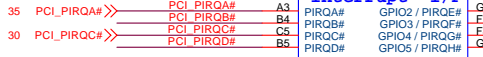
30,35 PCI_AD[0..31] <<>



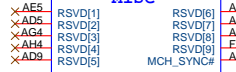
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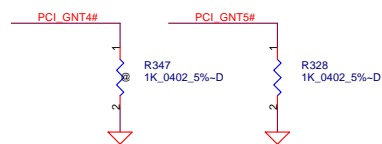
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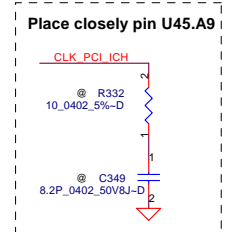
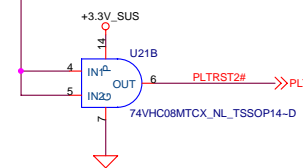
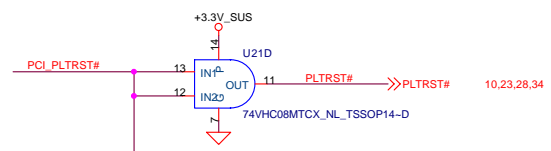
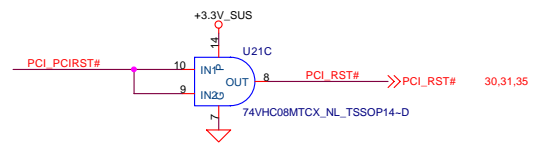
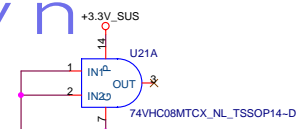
MISC



ICH7M A0_BGA652-D



	GNT5# R328	GNT4# R347
LPC (11)	unstuff	unstuff
PCI (10)	unstuff	stuff
SPI (01)	stuff	unstuff



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Title ICH7(1/4)

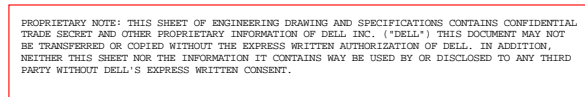
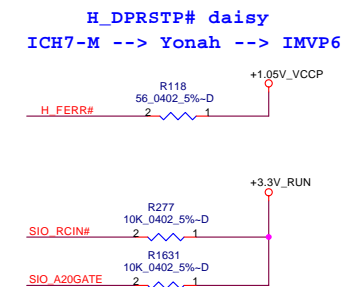
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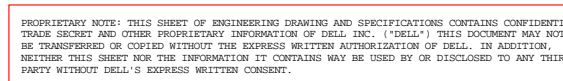
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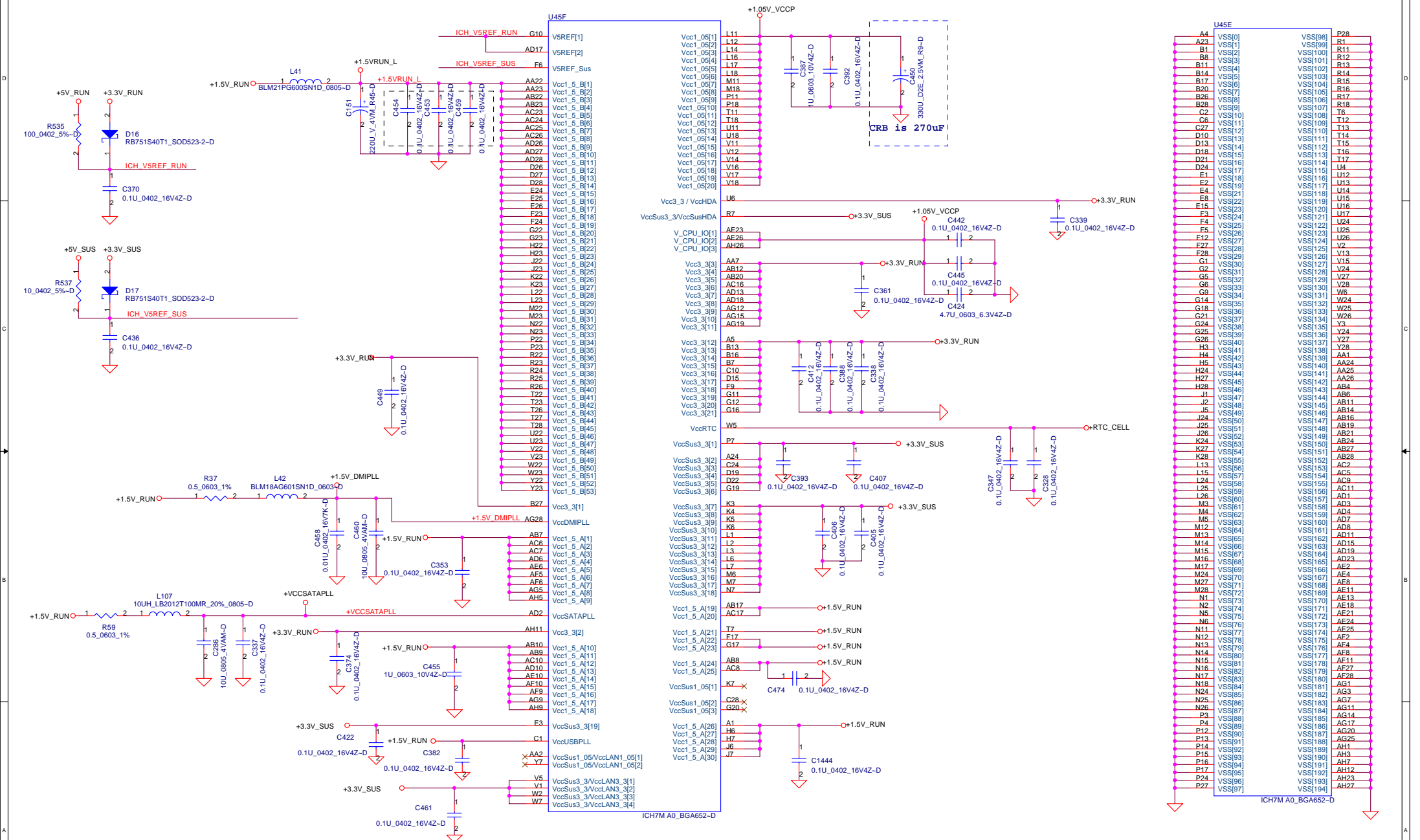
Compal Electronics, Inc.

ICH7(4/4)

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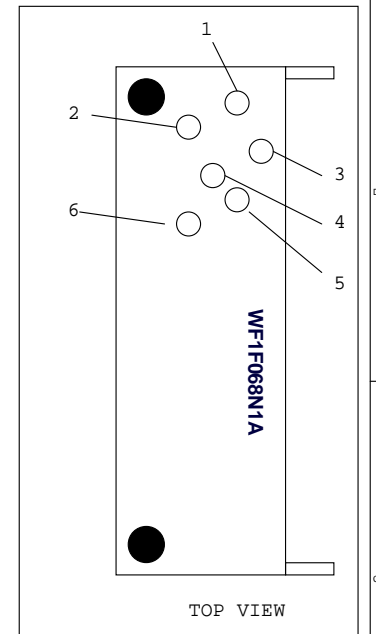
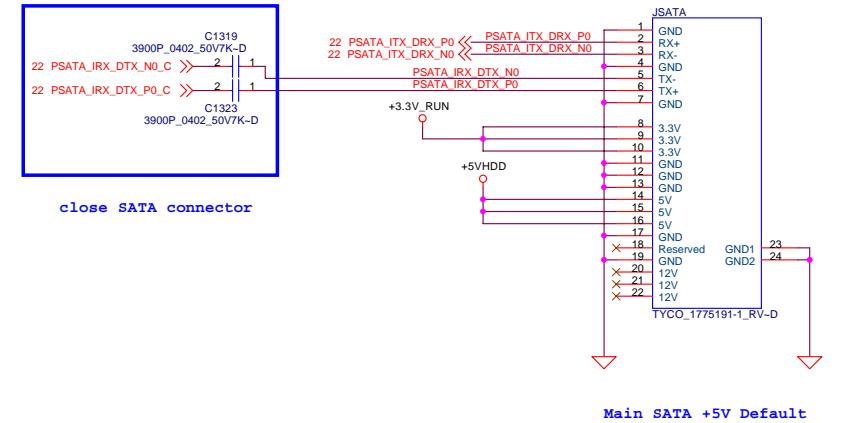
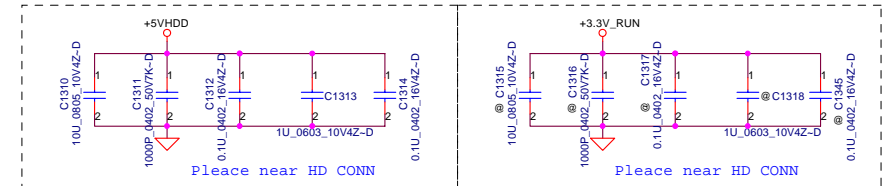
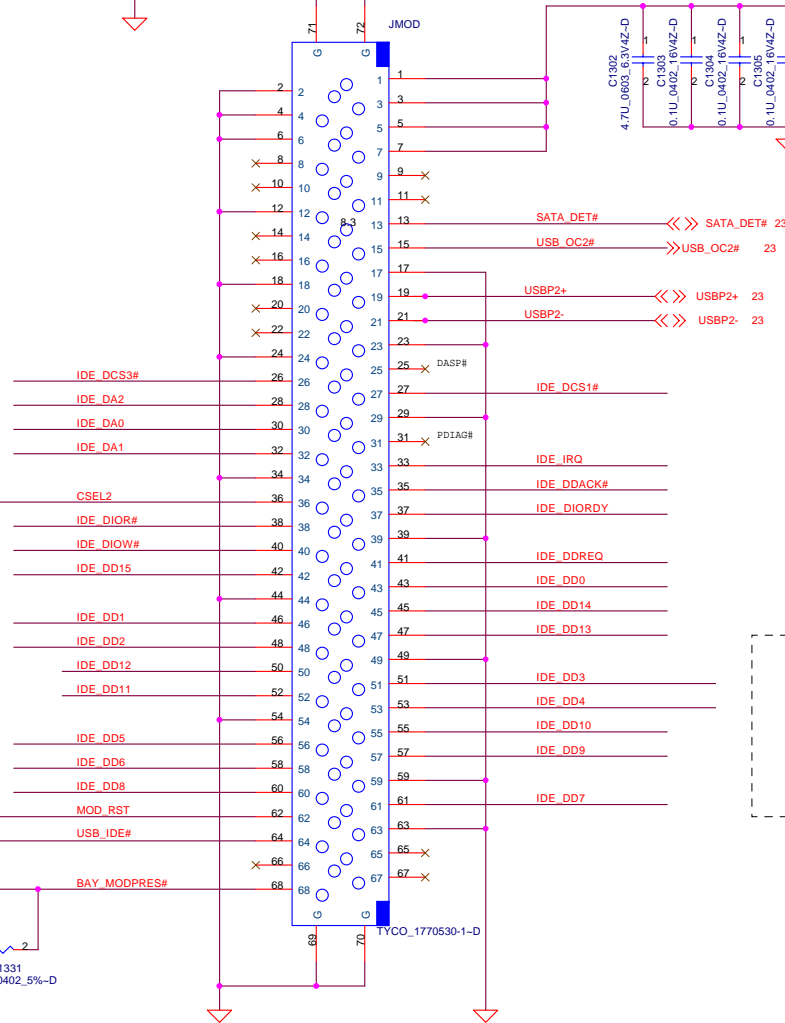
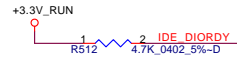
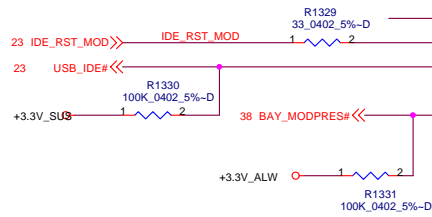
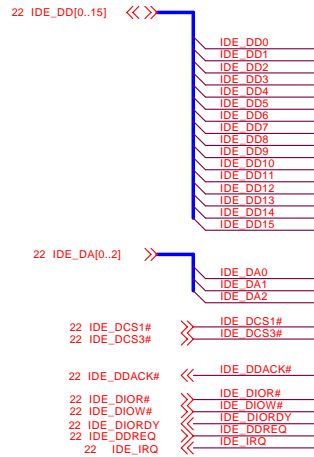
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The diagram shows a 4-channel differential amplifier circuit. It consists of two JMOD op-amp modules and four C1922 op-amp modules. The JMOD modules are configured as differential amplifiers, with their non-inverting inputs connected to a common-mode voltage (V_{CM}) and their inverting inputs connected to the inputs of the C1922 modules. The C1922 modules are configured as differential amplifiers, with their non-inverting inputs connected to a common-mode voltage (V_{CM}) and their inverting inputs connected to the inputs of the JMOD modules. The output of the JMOD modules is connected to the input of the C1922 modules. The output of the C1922 modules is connected to the input of the JMOD modules. The circuit is powered by a +5V supply and a ground connection.



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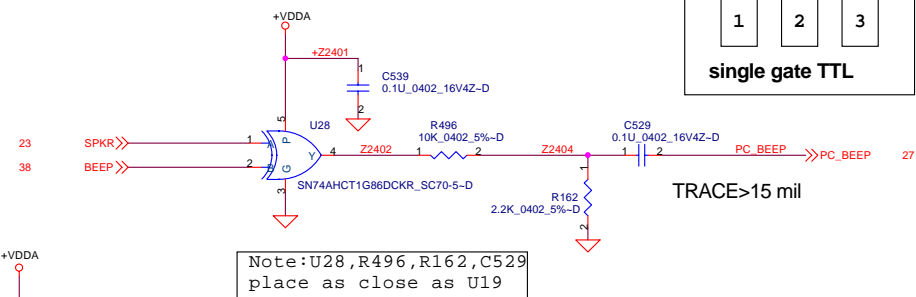
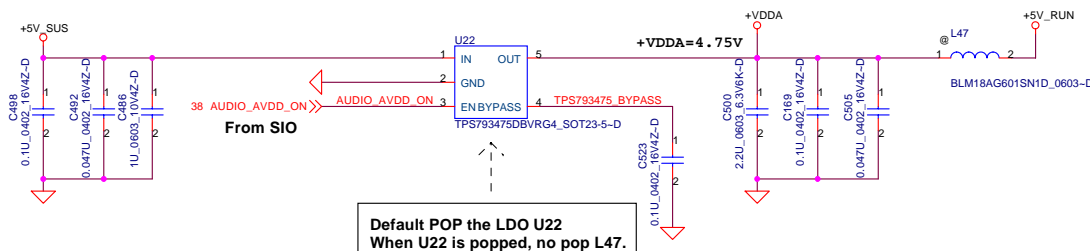


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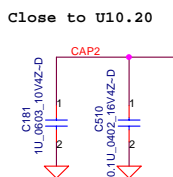
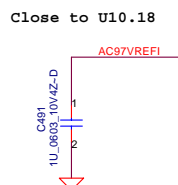
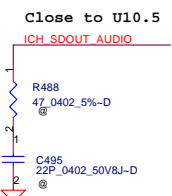
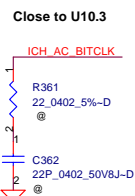
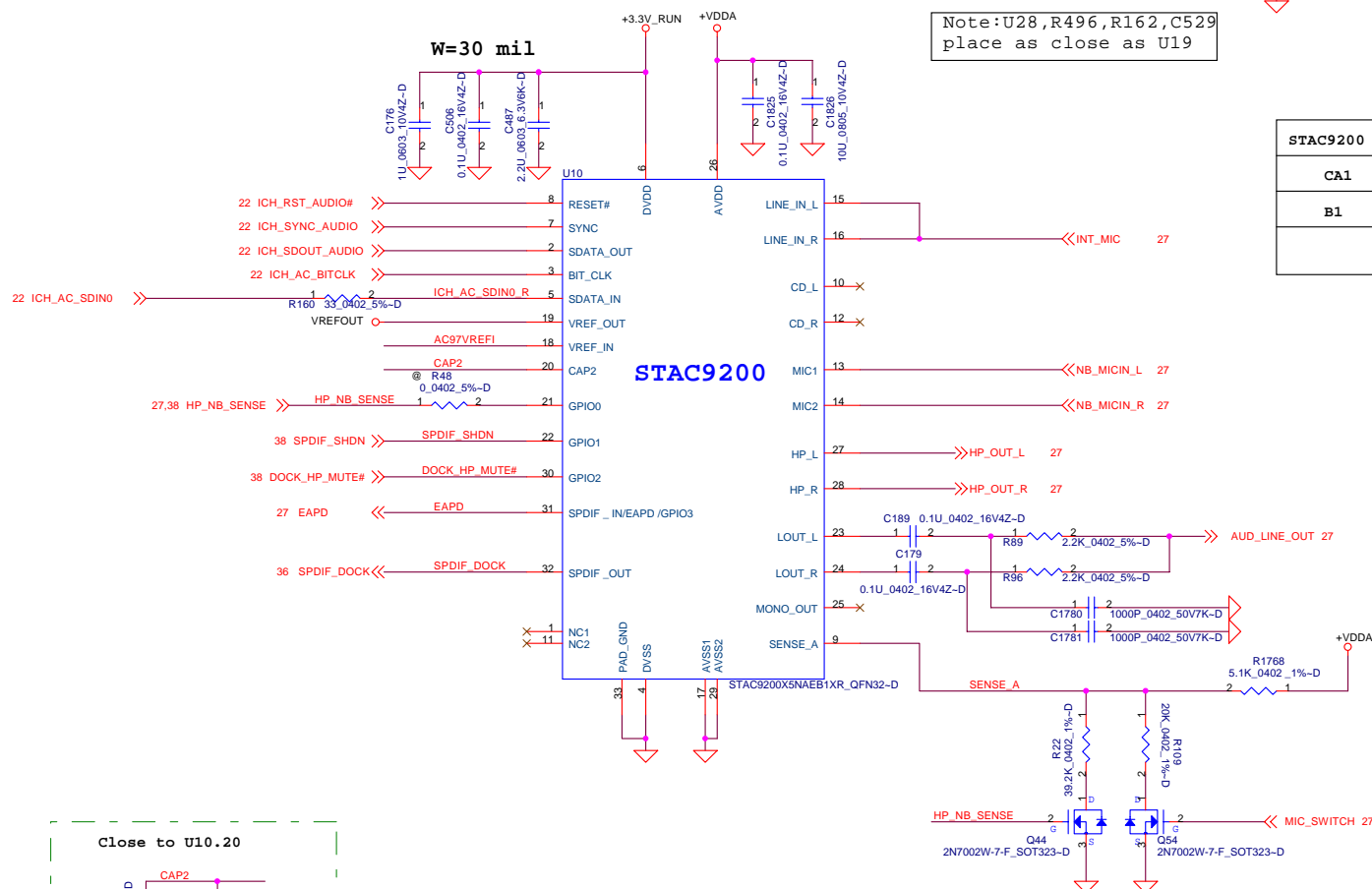
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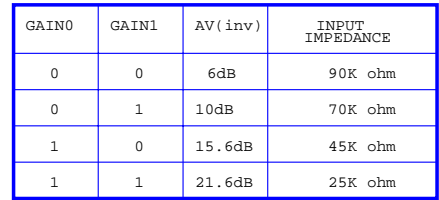
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STAC9200 Rev.	R22	R109
CA1	5.11K	10K
B1	39.2K	20K

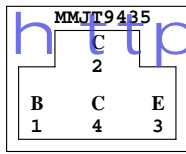




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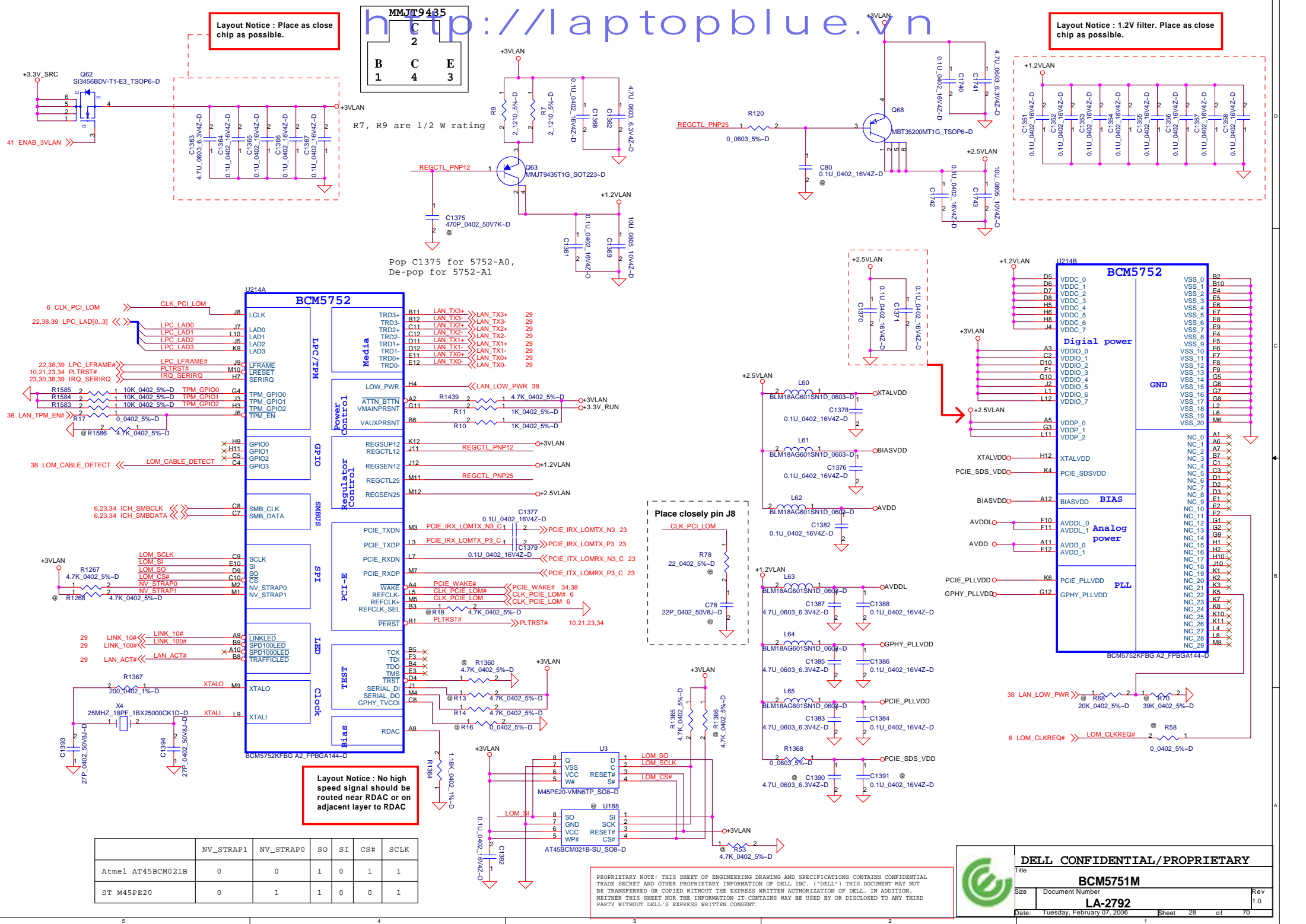
Layout Notice : Place as close chip as possible.



R7, R9 are 1/2 W rating

Pop C1375 for 5752-A0,
De-pop for 5752-A1


Layout Notice : 1.2V filter. Place as close chip as possible.



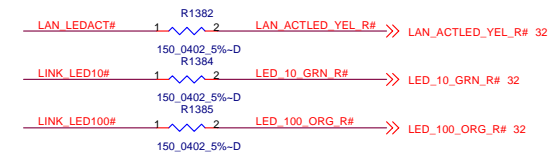
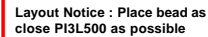
Layout Notice : No high speed signal should be routed near RDAC or on adjacent layer to RDAC

	NV_STRAP1	NV_STRAP0	SO	SI	CS#	SCLK
Atmel AT45BCM021B	0	0	1	0	1	1
ST M45PE20	0	1	1	0	0	1

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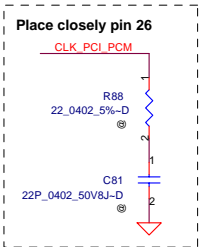
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ADDRESS

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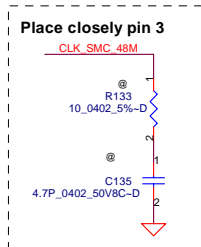
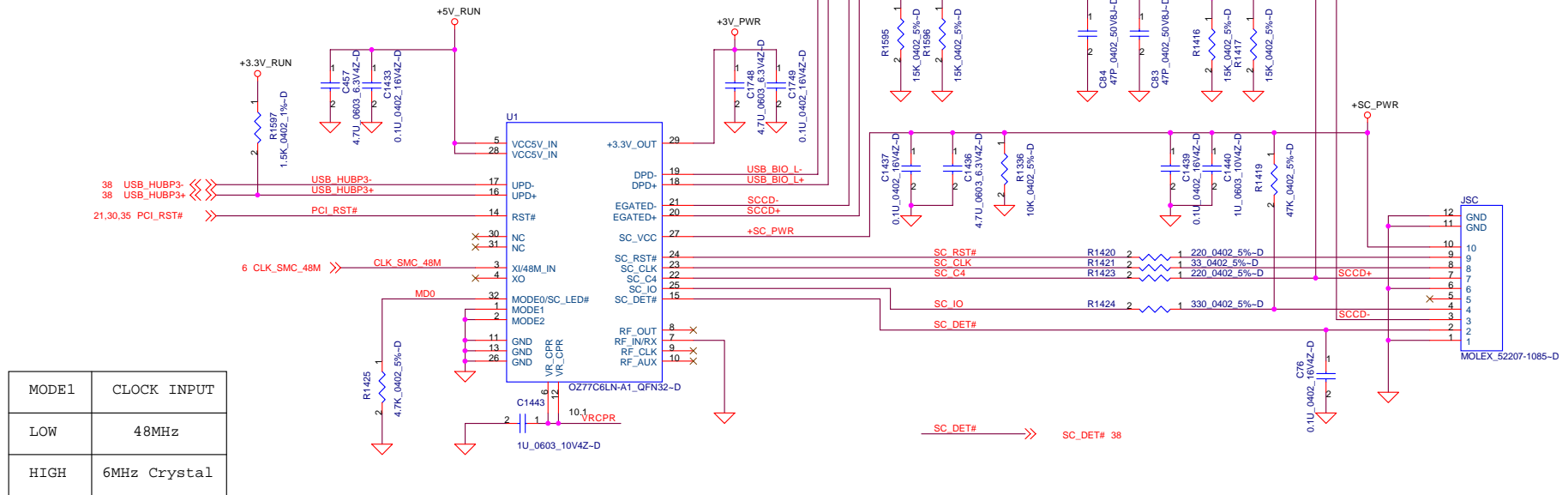
+V_VNN
V2-1
1
V2-1



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USB SMARTCARD READER.
TYPE A (5V), B (3V), AB (5V/3V)
& USB SMARTCARDS ARE SUPPORTED.



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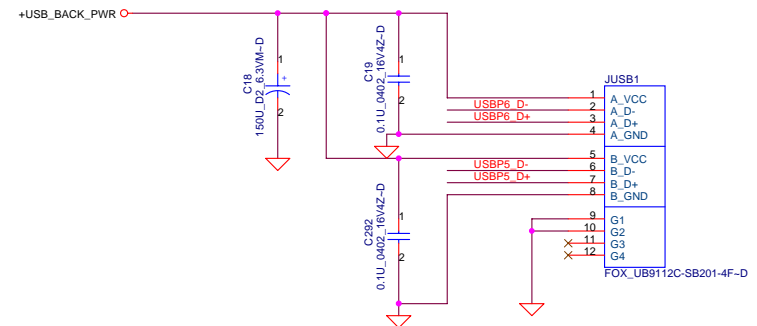
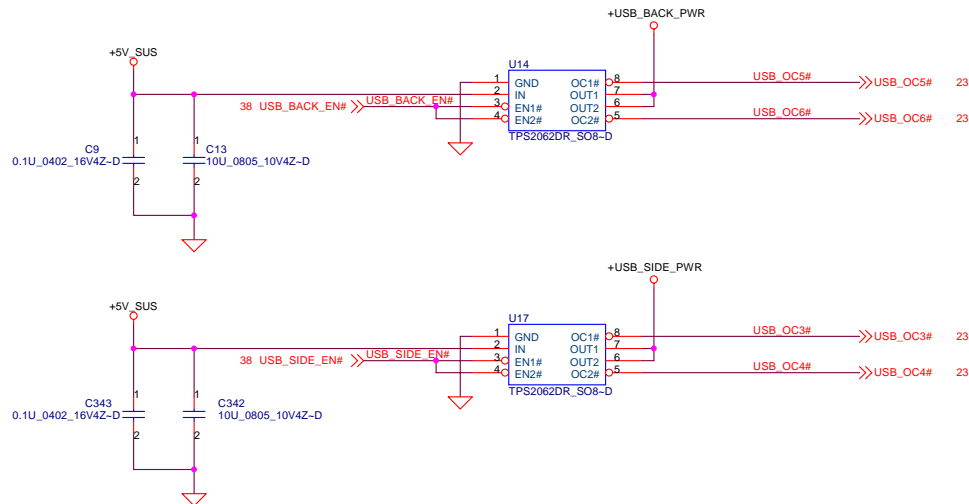
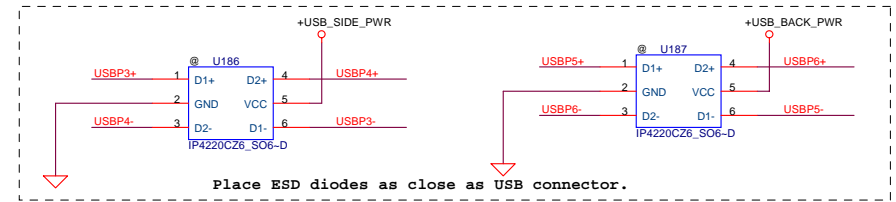
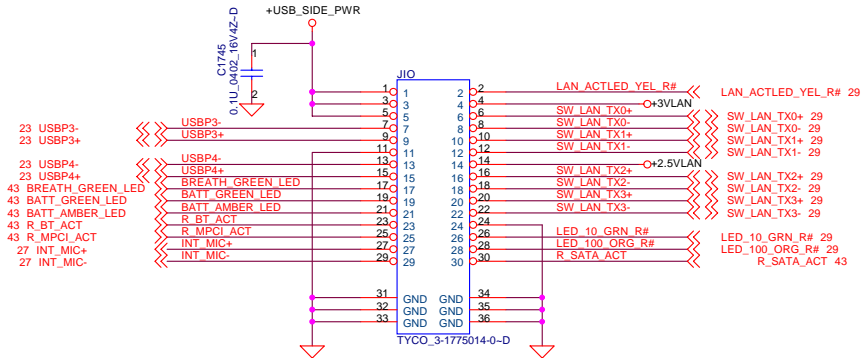
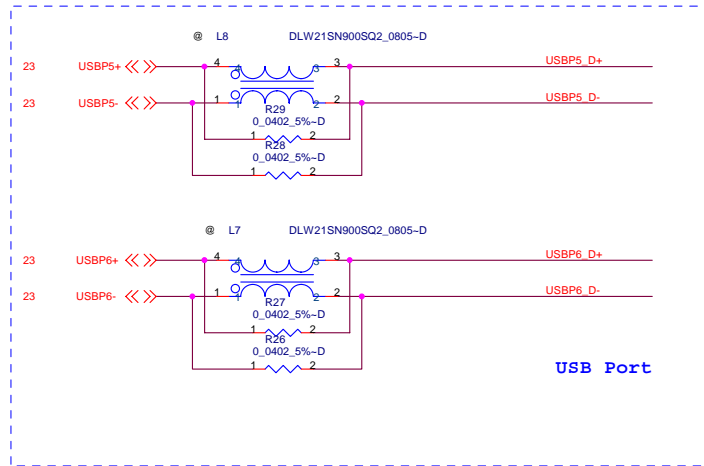
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Smart Card OZ77C6

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Rear USB Ports

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USB 2.0 Port

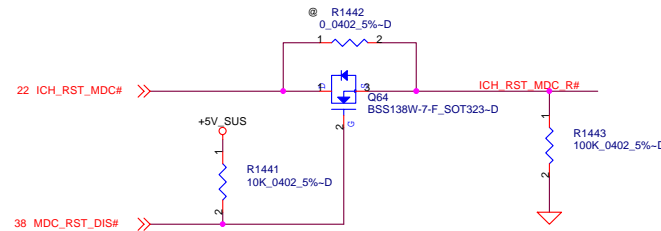
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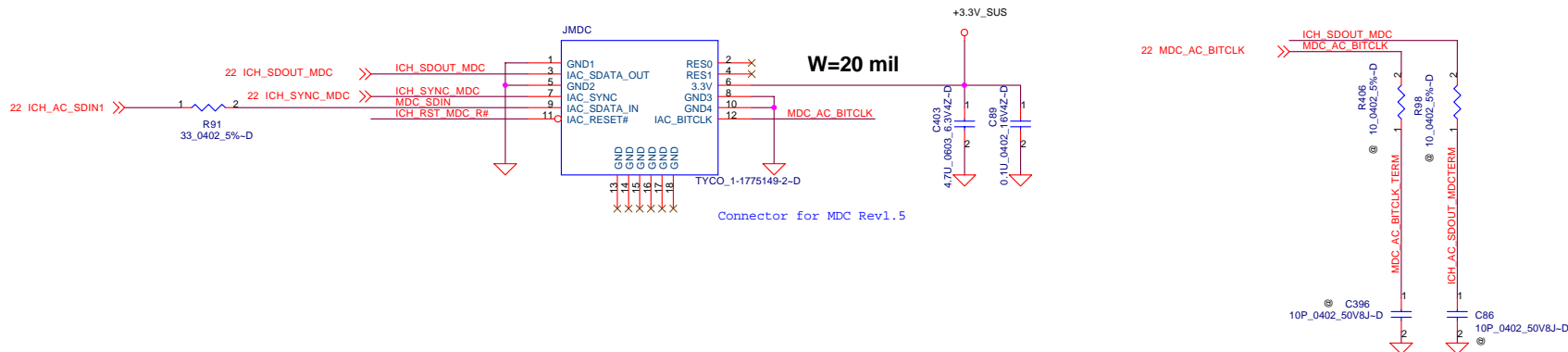


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New MDC connector.

1	GND	RES	2
3	IAC_SDATA0	RES	4
5	GND	3.3V	6
7	IAC_SYNC	GND	8
9	IAC_SDATAIN	GND	10
11	IAC_RESET#	IAC_BITCLK	12



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BT PORT and MDC

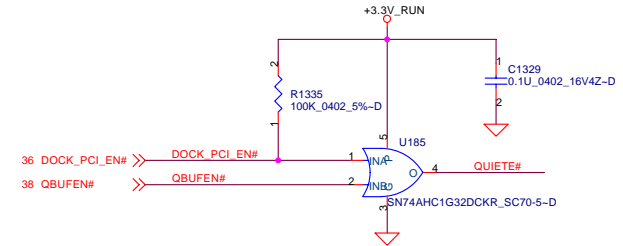
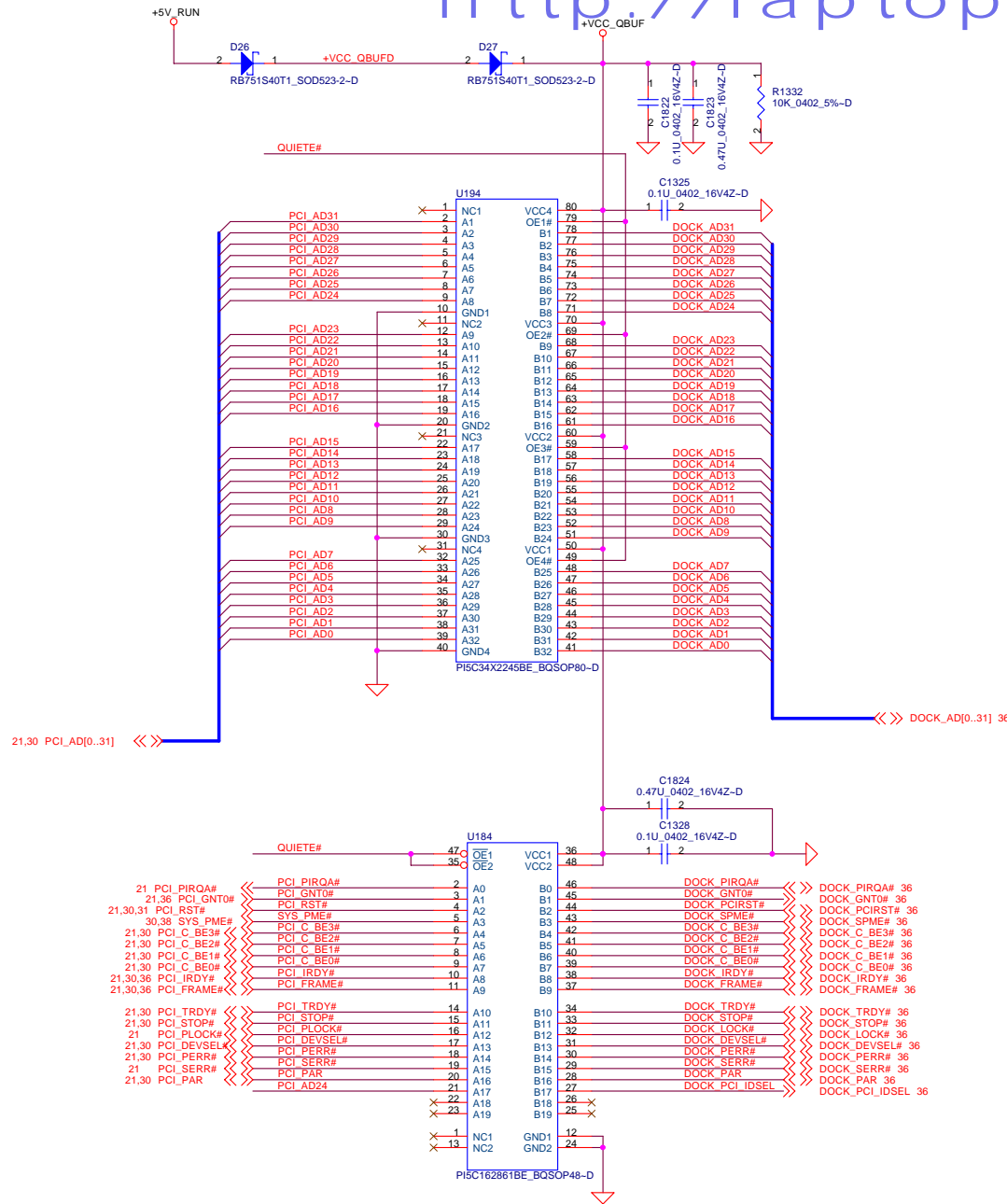
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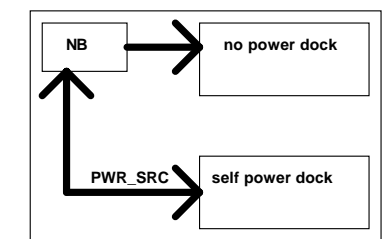
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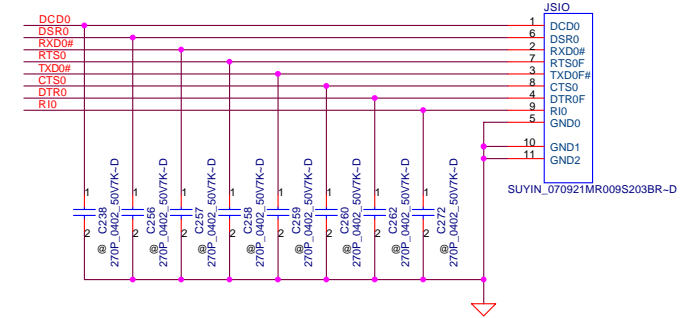




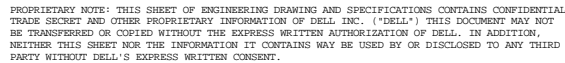
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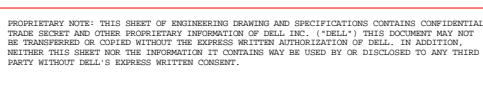


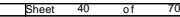
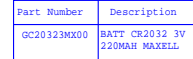
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	Size	Document Number LA-2792		Rev 1.0
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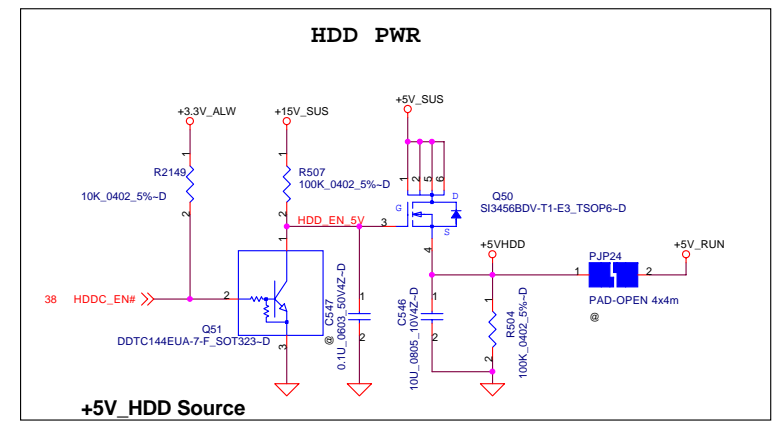
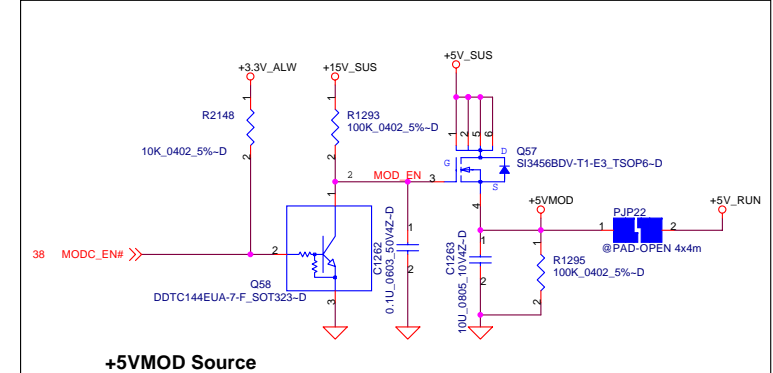
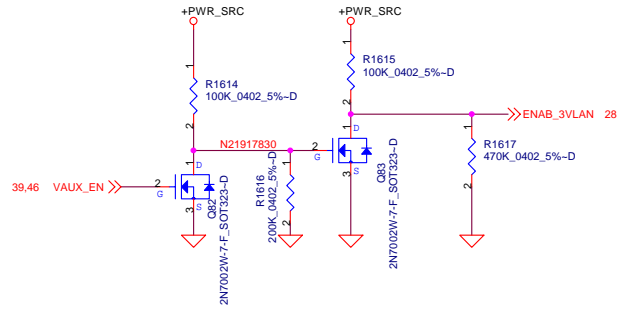
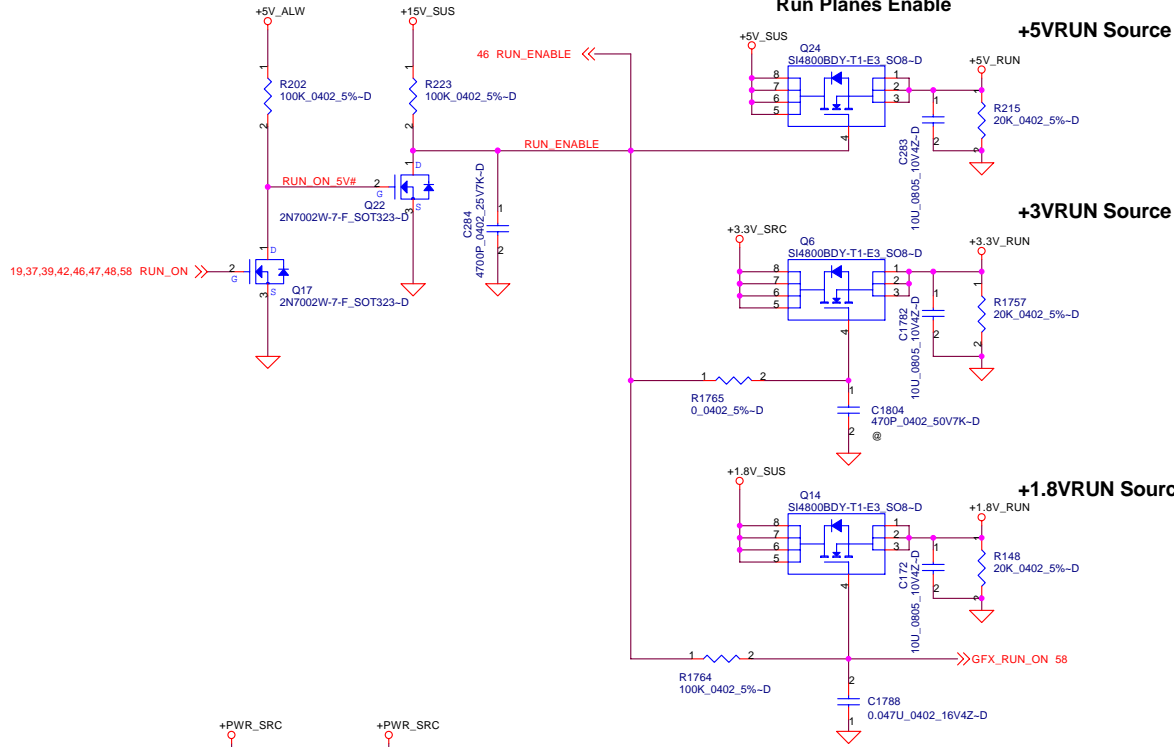
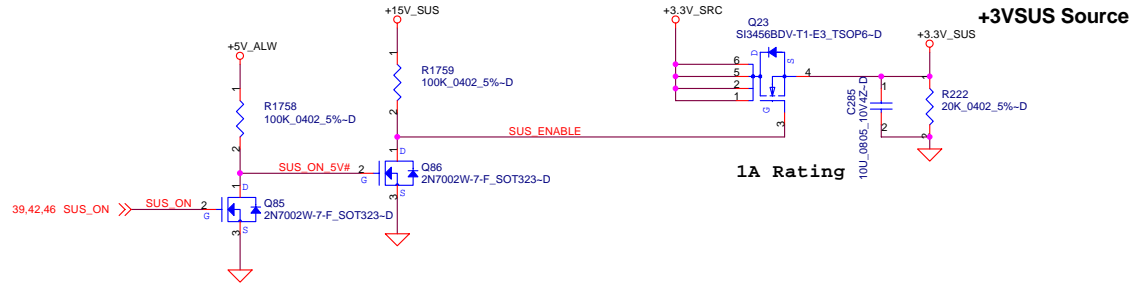




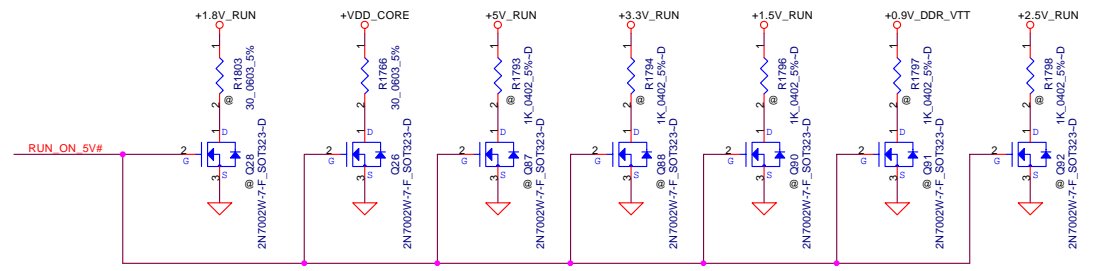
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DC/DC Interface

http://laptopblue.vn



Discharg Circuit



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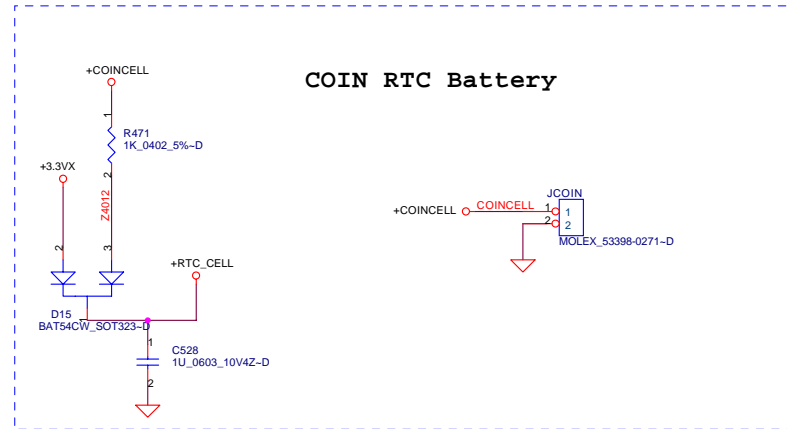
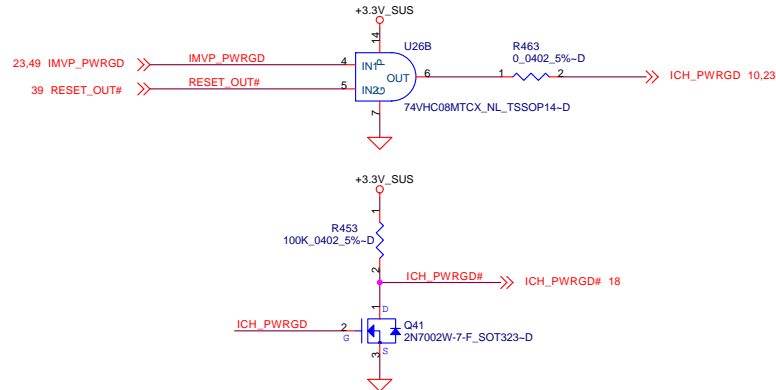
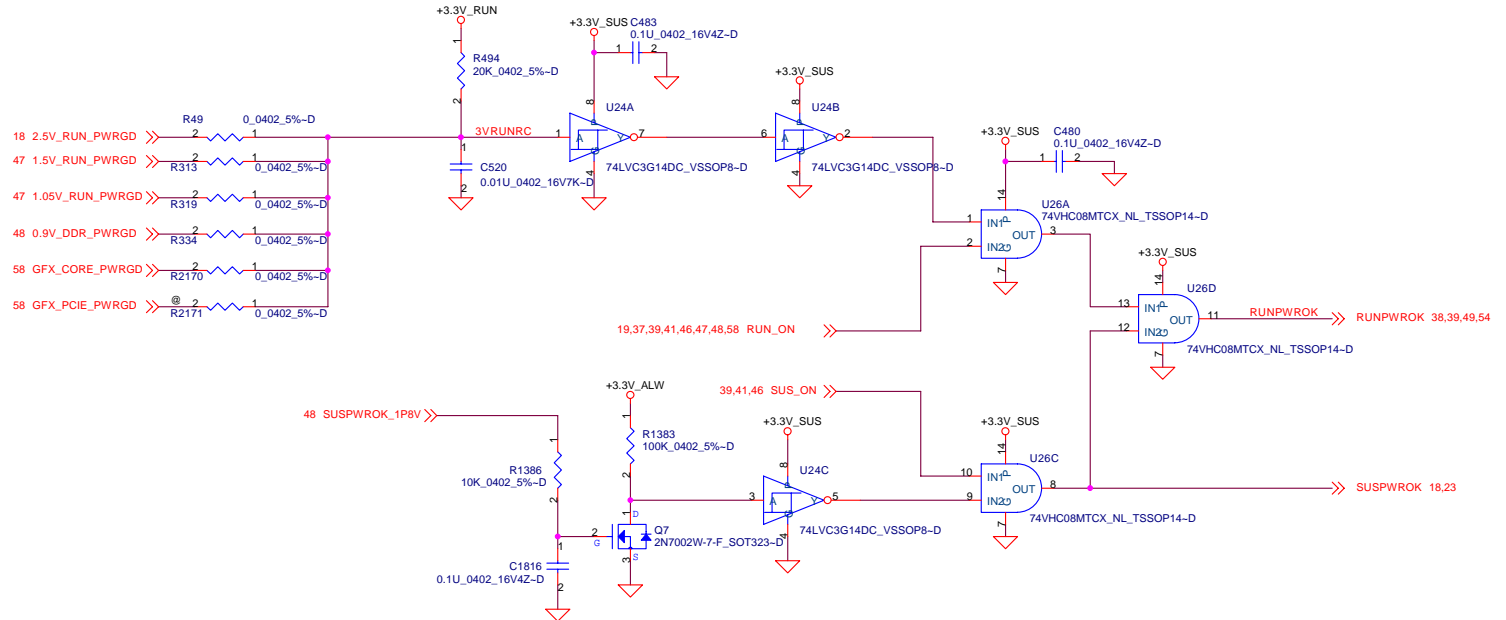
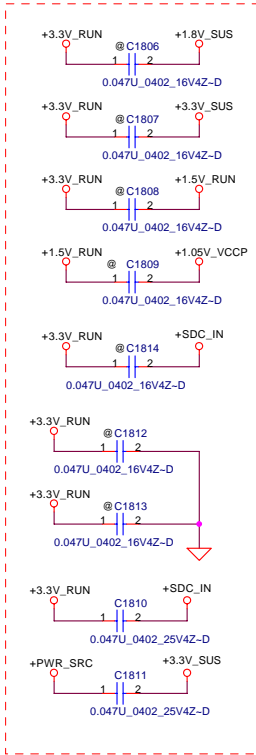
POWER CONTROL

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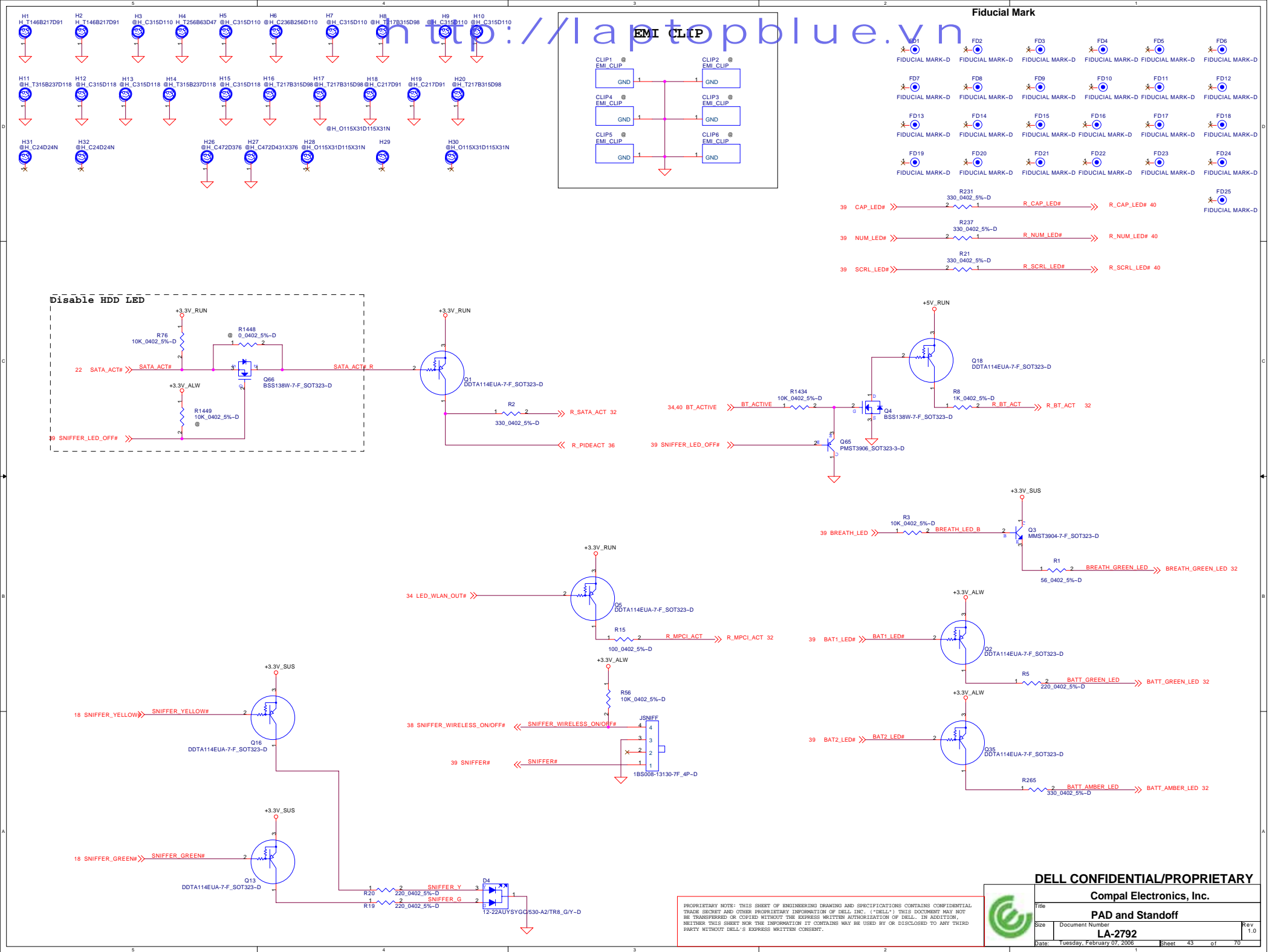
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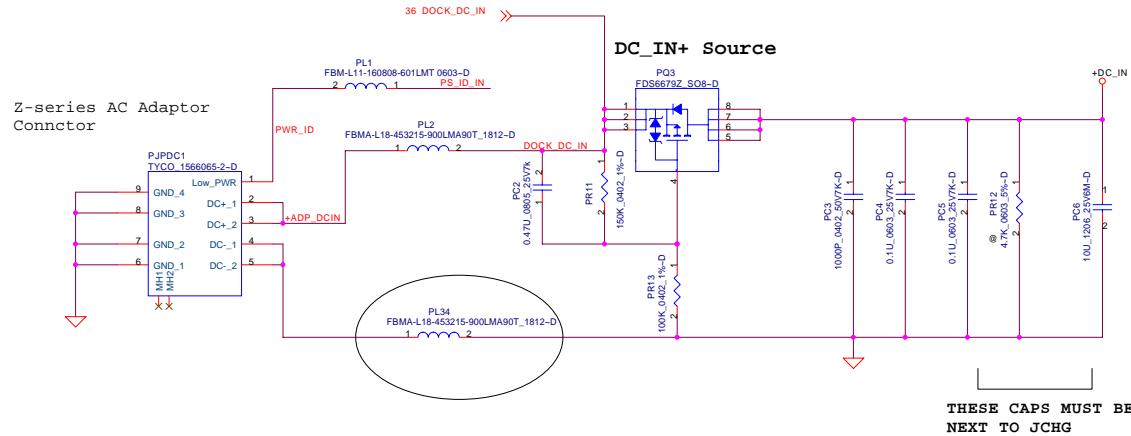
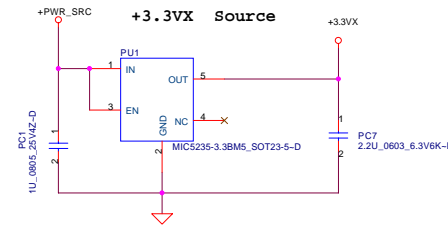
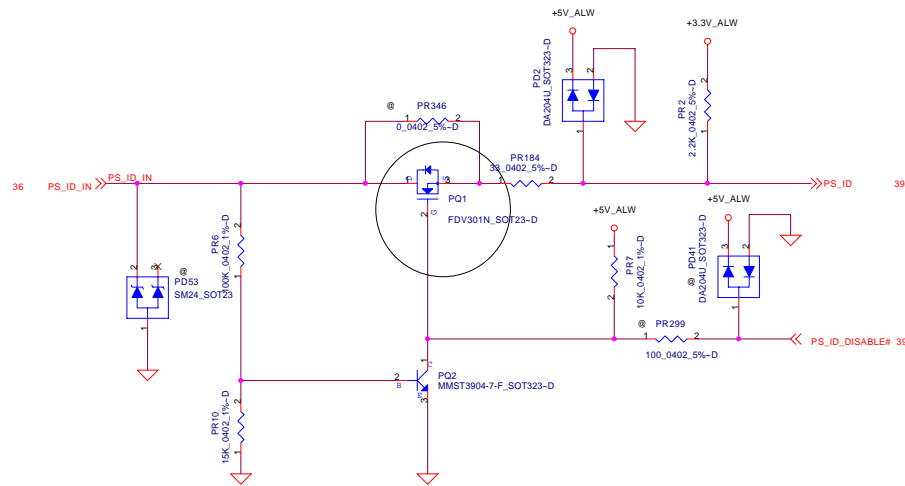
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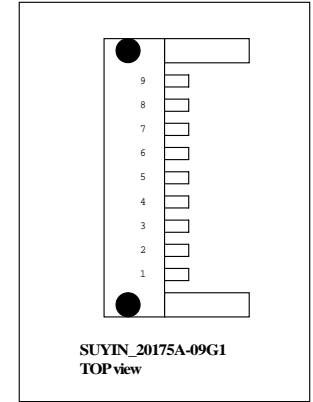
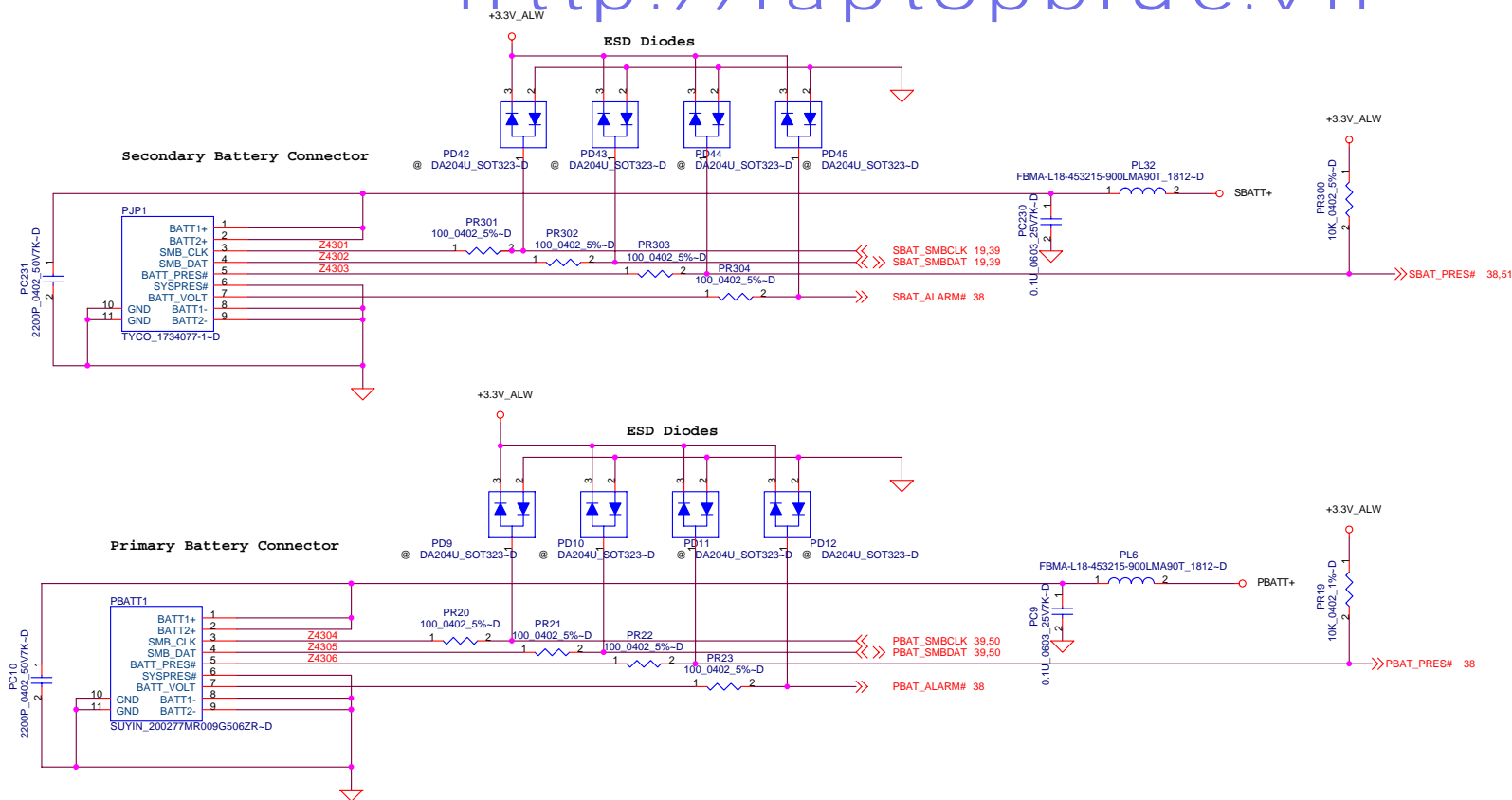
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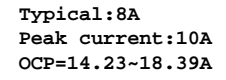
+DCIN

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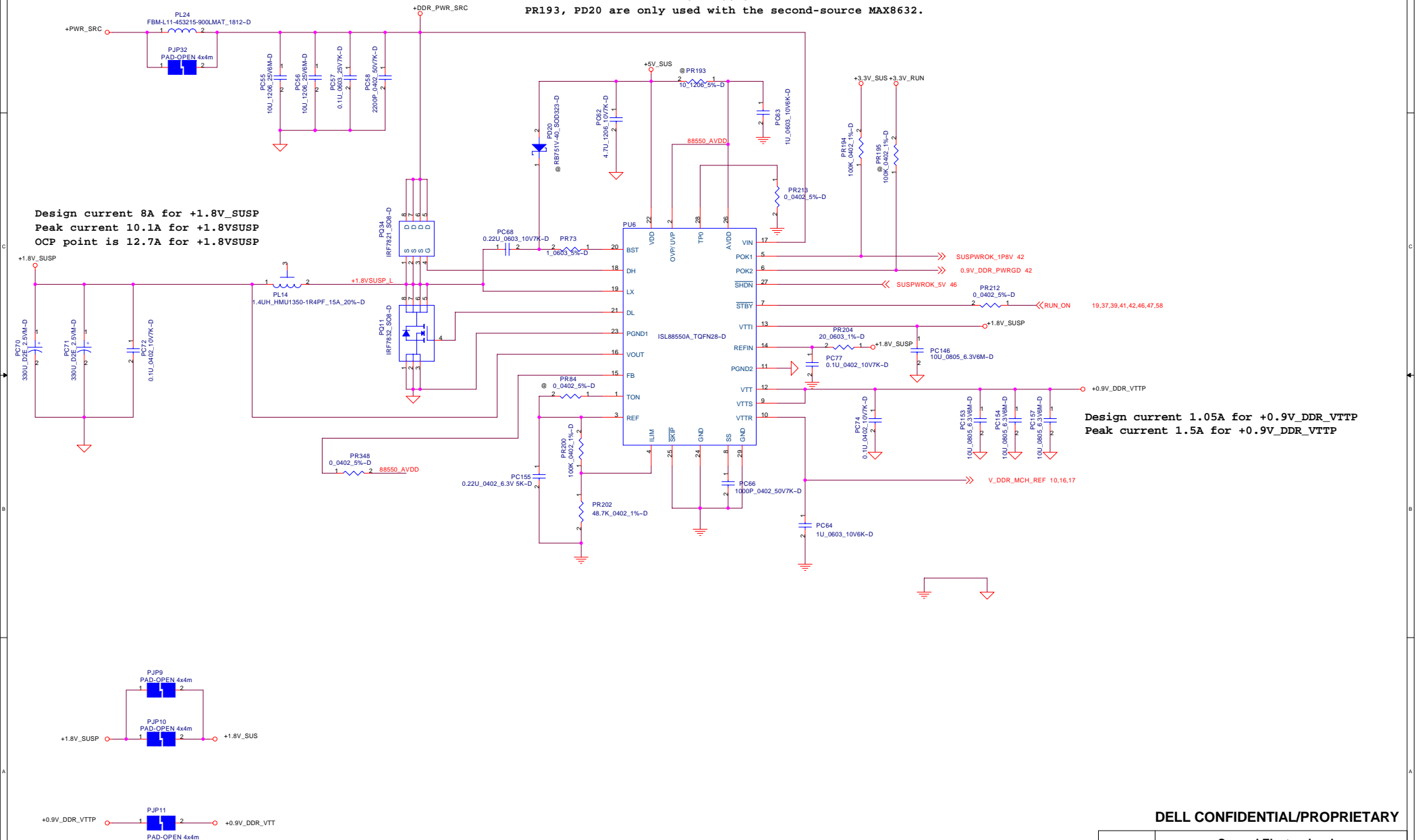




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DDR2 Termination

PR193, PD20 are only used with the second-source MAX8632.



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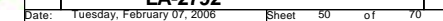
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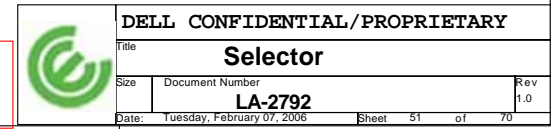
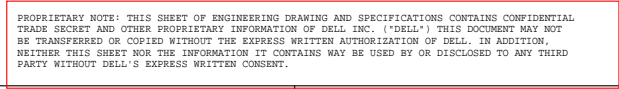
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+DC_IN discharge path



12 PEG_MTX_GRX_P[0:15] >> PEG_MTX_GRX_P[0:15]
 12 PEG_MTX_GRX_N[0:15] >> PEG_MTX_GRX_N[0:15]
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DVO / GPIO

PCI EXPRESS

DACS

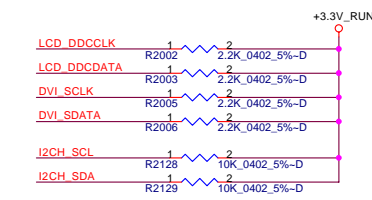
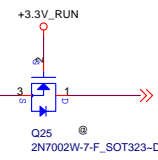
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CLK

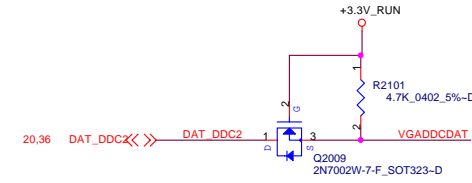
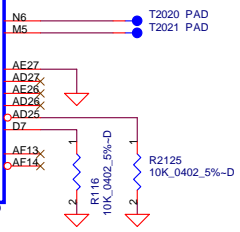
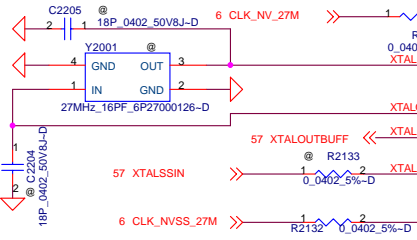
TEST

G72M-VN-A2_BGA533-D


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 GPIO1 D9 << BIA_PWM << BIA_PWM 19,39
 GPIO2 B10 ENVDD << ENVDD 19
 GPIO3 C10 PANEL_BKEN << PANEL_BKEN 19
 GPIO4 C12 GFX_CORE_CNTRL << GFX_CORE_CNTRL 58
 GPIO5 B12 << <<
 GPIO6 A12 << <<
 GPIO7 B15 << <<
 GPIO8 A13 << <<
 GPIO9 B16 << <<
 GPIO10 A15 << <<
 GPIO11 B16 << <<
 GPIO12 B16 << <<
 MIOB00 G2 RAM_CFG0 << RAM_CFG0 57
 MIOB01 G3 RAM_CFG1 << RAM_CFG1 57
 MIOB02 J2 << <<
 MIOB03 J1 << <<
 MIOB04 K4 PCI_DEVID2 << PCI_DEVID2 57
 MIOB05 K1 PCI_DEVID1 << PCI_DEVID1 57
 MIOB06 M2 << <<
 MIOB07 N1 RAM_CFG2 << RAM_CFG2 57
 MIOB08 N2 RAM_CFG3 << RAM_CFG3 57
 MIOB09 N3 << <<
 MIOB10 R3 << <<
 MIOB11 R3 << <<
 MIOB_HSYNC G4 << <<
 MIOB_VSYNC F1 << <<
 MIOB_DE G1 << <<
 MIOB_CTL3 F2 << <<
 MIOB_CLKIN R2 << <<
 MIOB_CLKOUT K2 << <<
 MIOB_CLKOUT_N K3 << <<
 MIOB_VREF J4 << <<
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 DACA_VSYNC AC4 VGA_VSYNC << VGA_VSYNC 20
 DACA_RED AE1 VGA_RED << VGA_RED 20,36
 DACA_BLUE AD2 VGA_BLU << VGA_BLU 20,36
 DACA_GREEN AD1 VGA_GRN << VGA_GRN 20,36
 DACA_IDUMP U9 << <<
 DACA_RSET A03 R2009 1 2 124_0402_1%-D
 DACA_VREF AB4 << <<
 DACB_HSYNC E6 << <<
 DACB_VSYNC F5 << <<
 DACB_RED D5 TV_C << TV_C 36
 DACB_BLUE D5 TV_CVBS << TV_CVBS 36
 DACB_GREEN E4 TV_Y << TV_Y 36
 DACB_IDUMP D6 << <<
 DACB_RSET D6 << <<
 DACB_VREF E7 << <<
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 I2CA_SDA E10 VGADDCDAT << <<
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 I2CB_SDA F9 DVI_SDATA << DVI_SDATA 36
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 I2CH_SCL C7 << <<
 I2CH_SDA B7 << <<
 IFPAB_VPROBE N6 << <<
 IFPCD_VPROBE M5 << <<
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 JTAG_TD AD27 << <<
 JTAG_TDO AE28 << <<
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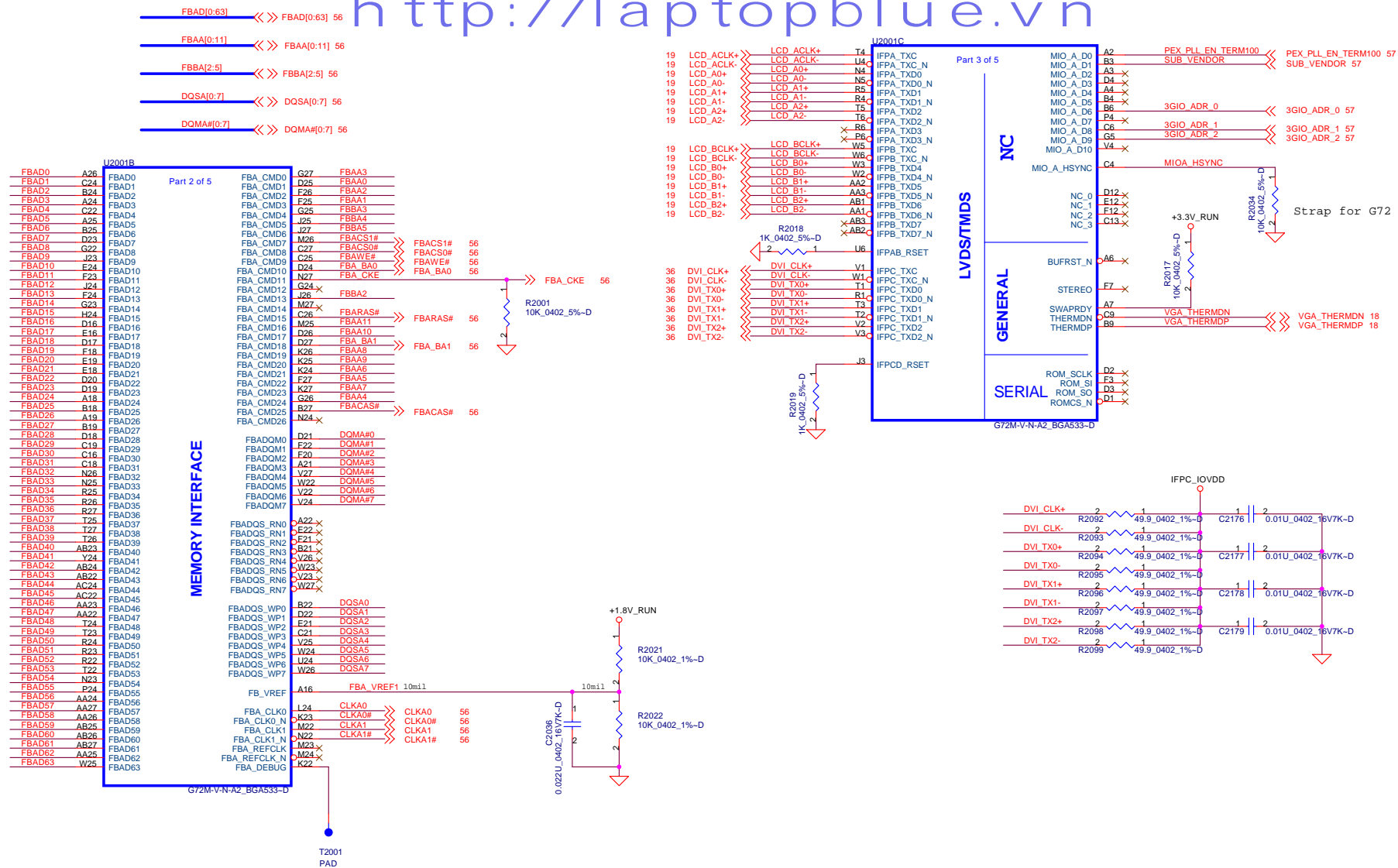
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	NVG72M PCIE,GPIO,CLK			
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NVG72M Memory Interface

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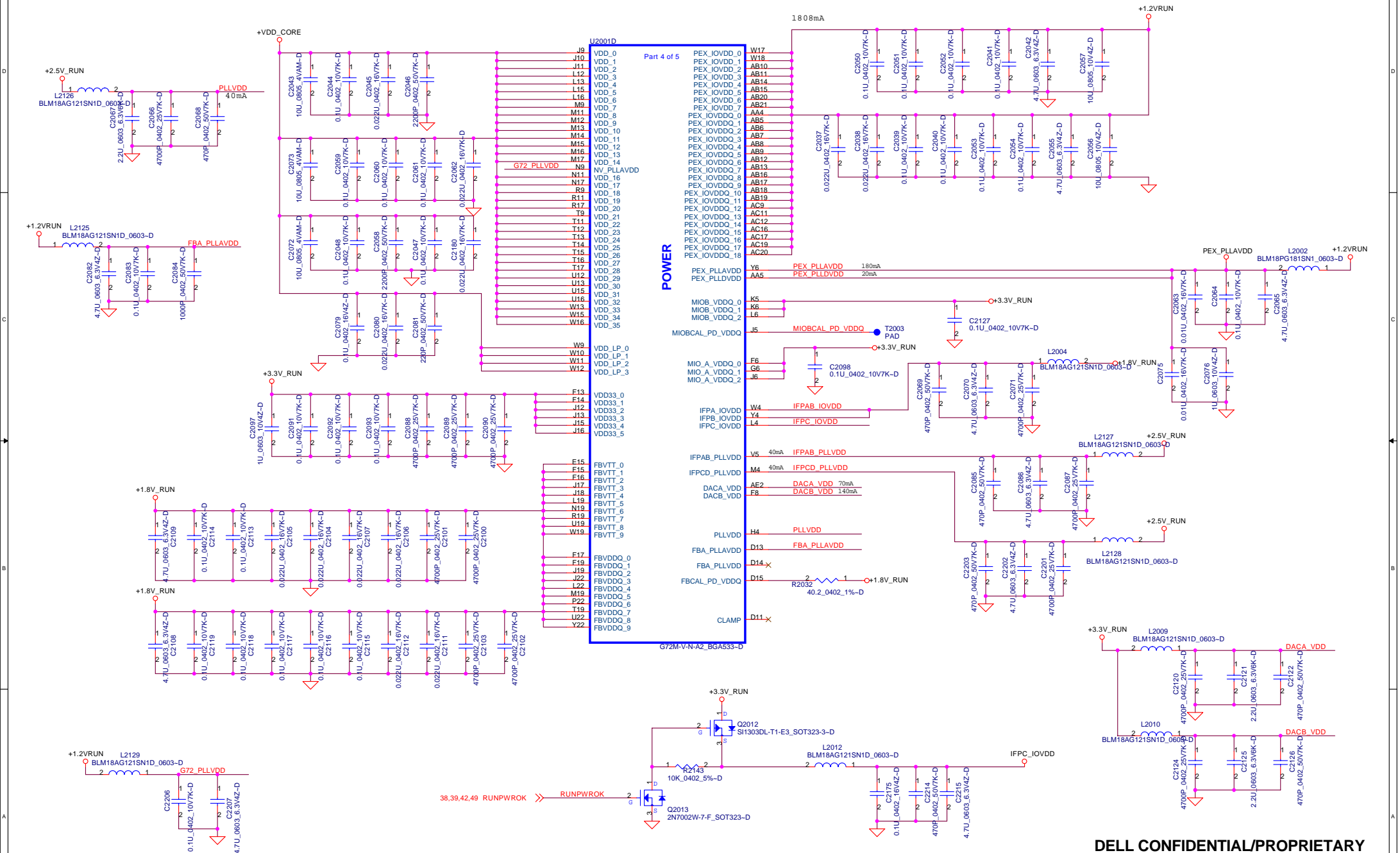
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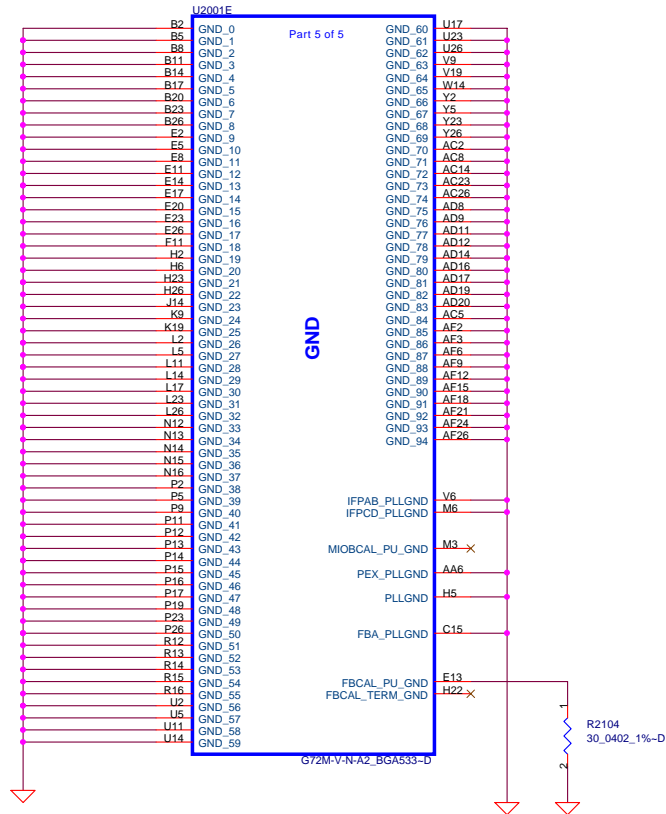
Compal Electronics, Inc.

NVG72M Power

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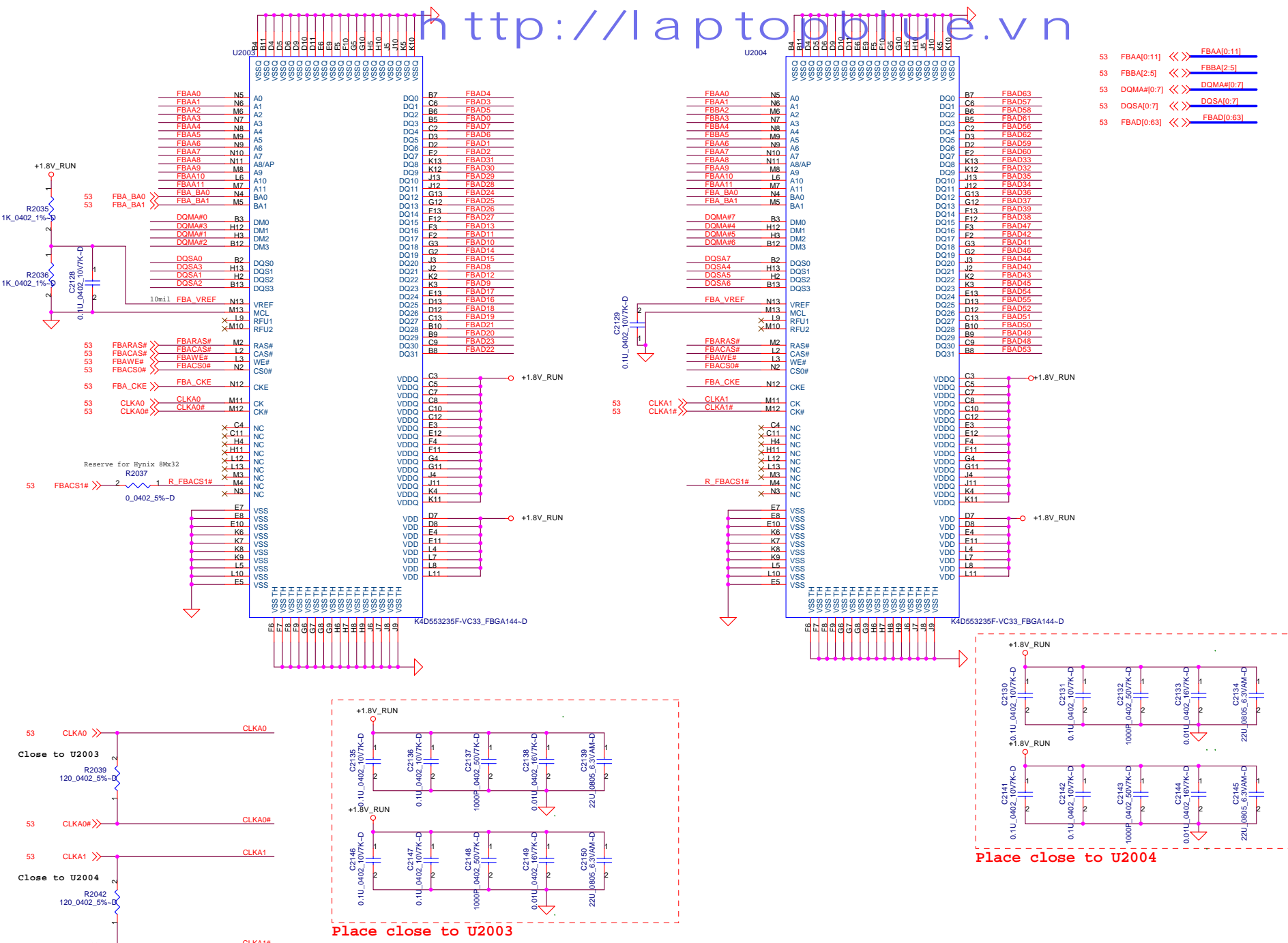
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Compal Electronics, Inc.




Title		
NVG72M Ground		
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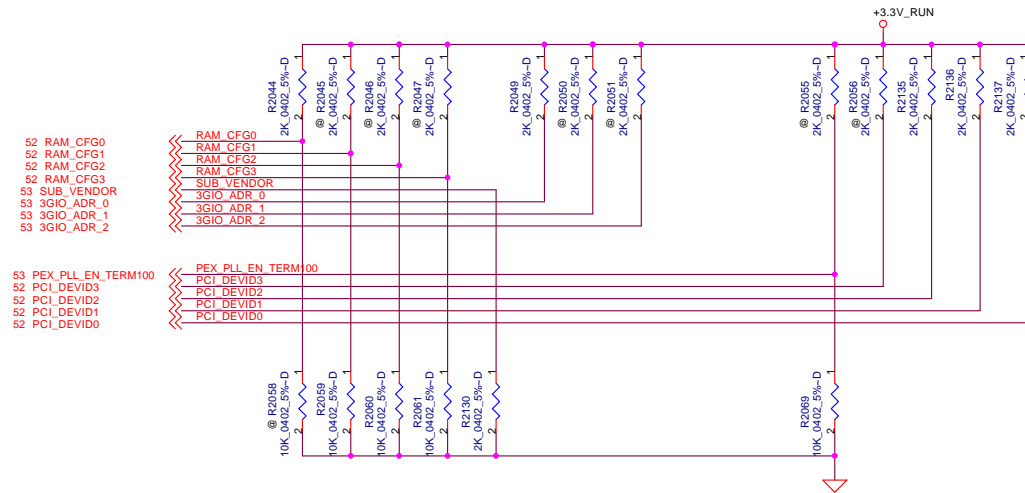
- 53 FBAA[0:11] <<>> FBAA[0:11]
- 53 FBBA[2:5] <<>> FBBA[2:5]
- 53 DQMA[0:7] <<>> DQMA[0:7]
- 53 DQSA[0:7] <<>> DQSA[0:7]
- 53 FBAD[0:63] <<>> FBAD[0:63]

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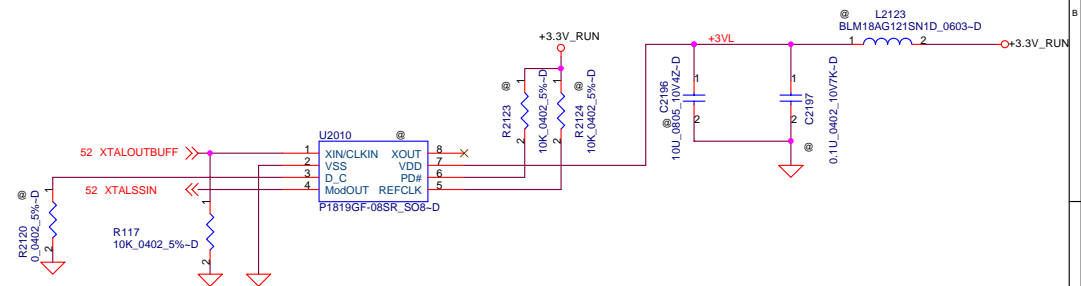
Compal Electronics, Inc.		
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STRAPS	PIN	DESCRIPTION	Value
ROM_TYPE[1:0]	MIOBD10 MIOB_VSYNC	Parallel=00, SERIAL AT25F=01 DEFAULT, Serial SST45VF=10, LPC=11	01
SUB_VENDOR	MIOAD1	VBIOS on card (pull high) VBIOS with system BIOS (pull down)	0
PEX_PLL_TERM	MIOAD0		0
RAM_CFG[3:0]	MIOBD0	8Mx32 DDR monolithic (64bit NV44)	0001
	MIOBD1	8Mx32 DDR monolithic (32bit NV44)	1001
	MIOBD8	8Mx32 DDR (Samsung K4D55323QF-GC)	0010
	MIOBD9	4Mx32 DDR generic (64bit NV44)	0100
		4Mx32 DDR generic (32bit NV44)	1100

STRAPS	CONFIG	DESCRIPTION	Value	
RAM_CFG[3:0]	8Mx32 DDR	Reserved	0000	
		300MHz, 1.8V	0001	
		Reserved	0010	
		350MHz, 1.8V	0011	
	4Mx32 DDR	1.8V I/O	0100	
		Reserved	0101	
	4Mx32 DDR	2.5V I/O	0110	
		Reserved	0111	
	4Mx32 DDR	Reserved	0000	
		300MHz, 1.8V	0001	
		Reserved	0010	
		350MHz, 1.8V	0011	



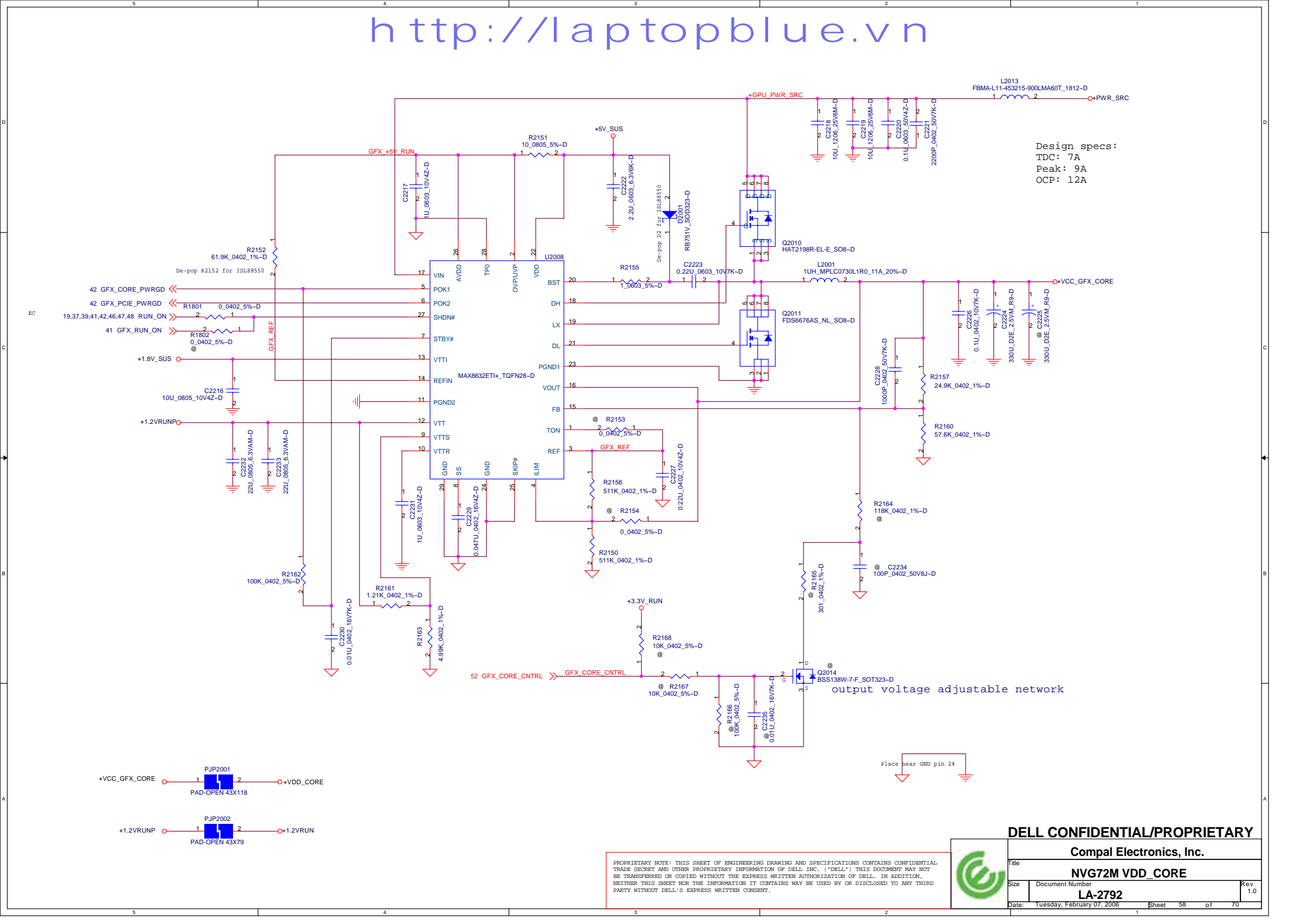
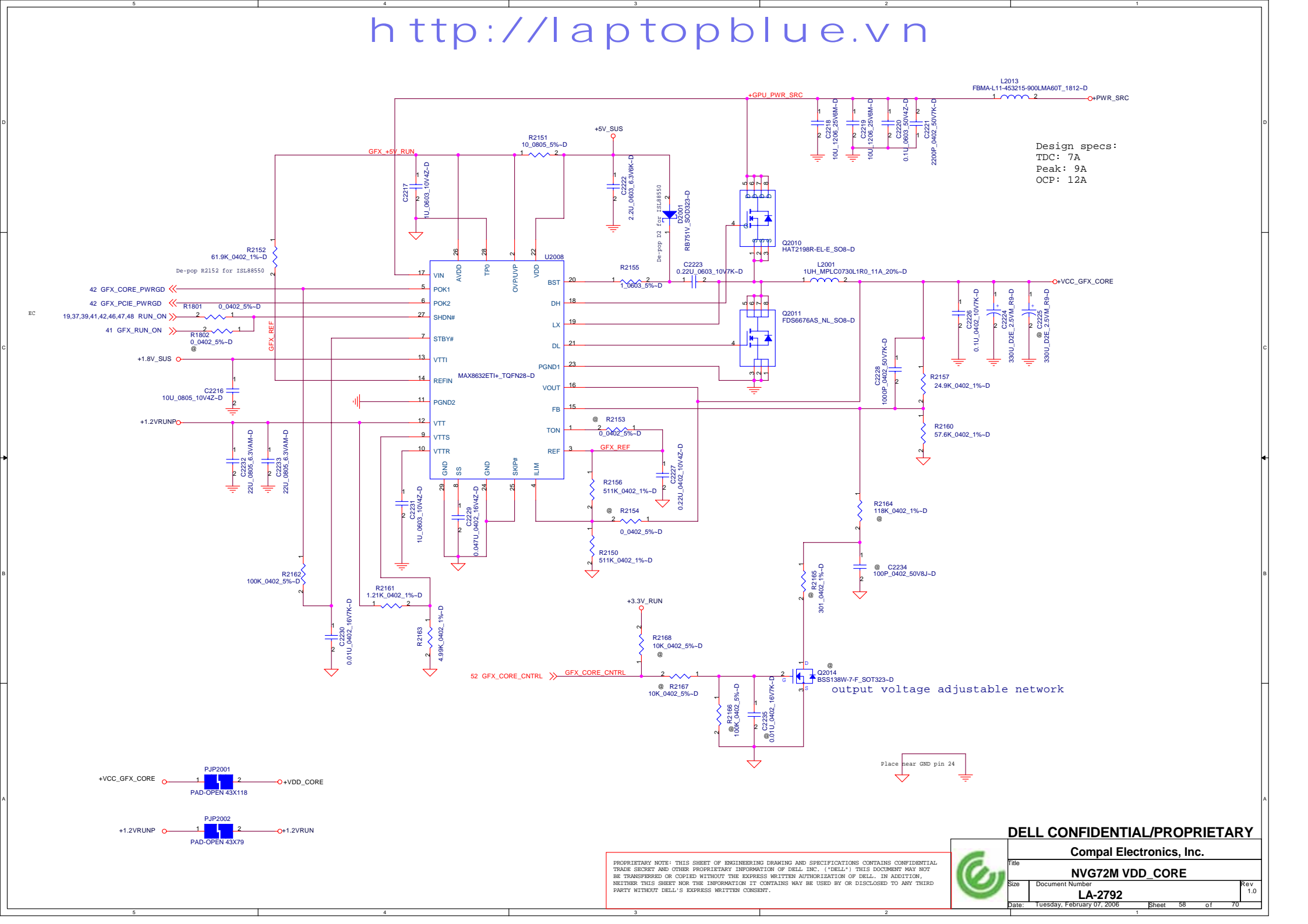
	S0
-1.75% (DOWN)	0
±0.875% (CENTER)	1

S0 Internal pull up

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Compal Electronics, Inc.	
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[illegible][illegible][illegible]

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Design specs:
TDC: 7A
Peak: 9A
OCP: 12A

output voltage adjustable network

Place near GND pin 24

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Compal Electronics, Inc.			
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NVG72M VDD_CORE			
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Design specs:
TDC: 7A
Peak: 9A
OCP: 12A

output voltage adjustable network

Place near GND pin 24

52 GFX_CORE_CNTRL >> GFX_CORE_CNTRL

COMPONENTS:

- R2151 10.0805_5%-D
- R2152 61.9K_0402_1%-D
- R2153 0.0402_5%-D
- R2154 511K_0402_1%-D
- R2155 0.22U_0603_10V7K-D
- R2156 511K_0402_1%-D
- R2160 57.6K_0402_1%-D
- R2161 1.21K_0402_1%-D
- R2163 4.99K_0402_1%-D
- R2164 118K_0402_1%-D
- R2165 10K_0402_5%-D
- R2166 10K_0402_5%-D
- R2167 10K_0402_5%-D
- R2168 10K_0402_5%-D
- R2180 0.0402_5%-D
- R2181 0.0402_5%-D
- R2182 0.0402_5%-D

DESIGN SPECS:

- TDC: 7A
- Peak: 9A
- OCP: 12A

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Compal Electronics, Inc.

File: NVG72M VDD_CORE

Size: 100K_0402_5%-D

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Item	Page#	Title	Date	Request Owner	Issue Description	Solution Description	Rev.
1	31	H/W	05/27	Roger	Smart card pin definition not match the cage pin define	Change JSC pin connection, pin1 connect to GND, pin2 connect to SC_DET# ~ pin10 connect to +SC_PWR	0.2
2	52	H/W	05/27	Roger	TV out no out put	Add R1790, R1791, R1792 for 75 ohms	0.2
3	40	H/W	05/27	Roger	Remove power switch to save placement spacing	Remove SW1. Reseve R1793 pad for power switch	0.2
4	20	H/W	05/27	Roger	Docking CRT HSYNC, VSYNC connect to the out put side of buffer	DOCK_HSYNC connect from U190 pin4 to docking connector pin 209, DOCK_VSYNC connect from U191 pin4 to docking connector pin 210	0.2
5	32	H/W	05/27	Roger	Improve RJ45 center tap driving	Connect +2.5VLAN to J10 pin 14 for RJ45 center tap	0.2
6	39	H/W	05/27	Roger	SPI ROM pass trough mode connect error	Change FDATAIN to ICHO_FDATAIN and connect from U216 pin 106 to U213 pin5. Chagne FDATAOUT to ICHI_FDATAOUT and connect from U216 pin 108 to R1788 pin1	0.2
7	39	H/W	05/27	Roger	Flash Recovery strapping issue	Change R474, R475 from 100K to 10K	0.2
8	ALL	H/W	05/30	Brike	To fix MEC5004 VCC1 power lading	Change net from +3VALW to +3VSRC	0.2
9	43	H/W	05/30	Brike	None	Delete H21 and change H4 footprint from H_C176D122to H_C176D102	0.2
10	58	H/W	05/30	Brike	To meet VGA core power rating	Change footprint to JUMP_43X118	0.2
11	39	H/W	06/01	Will	For delay MEC5004 internal 1.8V reg.	Modified C1769 from 4.7UF to 22UF.	0.2
12	23	H/W	06/01	Will	To improve rise time of serial DO from SPI ROM.	Modified R389 from 10K to 1K..	0.2
13	41	H/W	06/01	Will	None	Add pullup R2149 to HDDC_EN# and R2148 MODC_EN#.	0.2
14	39	H/W	06/01	Will	None	Change power on SPI ROM (pins 3 and 8) from +3VALW to +3VSUS	0.2
15	58	H/W	06/01	Brike	None	U2008 pin 16 change pull-up panle to +3VRUN	0.2
16	13	H/W	06/01	Lester	Intel Checklist recommends a 1 nH ferrite which calculates to 200 ohm.	L34 value change to BLM18PG181SN1_0603~D	0.2
17	06	H/W	06/01	Lester	Add resistor for cystal drive current limiting	Add R32 0 ohm resistor	0.2
18	39	H/W	06/01	Will	Correct SPI connection for SMSC recommand	ICH7M.P5 connect to MEC 5004.107, MEC5004.108 connect to SPI ROM.5. ICH7M.P2 connect to MEC 5004.105, MEC5004.106 connect to SPI ROM.2	0.2
19	38	H/W	06/02	Roger	SMSC recommond add VBUS_DET pull up resistor	Add R1440 100K for LAN_TPM_EN# (VBUS_DET)	0.2
20	33	H/W	06/02	Roger	Add MDC disable circuit	Add R1441, R1442, R1443, Q64. ECE5018 pin 67 program MDC_RST_DIS#	0.2
21	34	H/W	06/06	Roger	None	Change U8 NNCD6.8RL-A to D5 NNCD5.6LG	0.2
23	3	H/W	06/06	Roger	None	Fixed USB table	0.2
24	27	H/W	06/14	Roger	U10 (STAC9200) pin21 (GPIO0) is anlog power plane	Change R156 pull up from +3VSUS to +VDDA	0.3

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Item	Page#	Title	Date	Request Owner	Issue Description	Solution Description	Rev.
25	7	H/W	06/14	Roger	Change ITP debug to XDP debug definition for Yonah CPU	Change R387, R417, R391, R436, R416, R415 to 56 ohms. Add R33 56 ohms. Change R424 to 1K ohms.	0.3
26	39	H/W	06/14	Roger	For easier flash EC code	Add short pad and change R475 to 1K ohms	0.3
27	40	H/W	06/14	Roger	For easier power switch	Change R1793 to a pad like CMOS pad	0.3
28	34	H/W	06/14	Roger	ME change mini card stand off to Latch	Remove H22,H23,H24,H25. Add JCLIP1,JCLIP2	0.3
29	42	H/W	06/14	Roger	EMI request add caps for the splite power plane that PCI bus routed	Add C1806,C1807,C1808,C1809,C1810,C1811	0.3
30	41	H/W	06/16	Roger	Reserve discharg circuit for +5VRUN,+3VRUN,+1.8VRUN,+1.5VRUN,+0.9V_DDR_VTT,+2.5VRUN power rails	Add R1793,R1794,R1795,R1796,R1797,R1798,Q87,Q88,Q89,Q90,Q91,Q92	0.3
31	58	H/W	06/20	Roger	Replace ISL6269 and MAX1510 circuits with MAX8632 solution	Remove ISL6269 and MAX1510 circuit. Add MAX8632 circuit	0.3
32	28	H/W	06/21	Gautam	Reserve ST M45PE20 for LOM EEPROM	Add U3 (ST M45PE20) co-layout with U188 (AT45BCM021B)	0.3
33	42	H/W	06/23	Gary	EMI request add caps for the splite power plane that PCI bus routed	Add C1812-C184 0.047uF_0402. Change C1810, C1811 from 0603 to 0402 package	0.3
34	38	H/W	06/23	Roger	+3VRUN leakage at AC mode in S5	Change R1362 pull up from +3VSRC to +3VRUN	0.3
35	All	H/W	06/24	Roger	Follow Dell USB assignment recommendation	Update USB table, block diagram and connection	0.3
36	39	H/W	06/24	Will	4.7uF cap for VR_Cap pin of REV B 5504	Change C1769 for 22uF 0805 size to 4.7uF 0603 size	0.3
37	All	H/W	06/24	Will	Change +3V/+5V design to follow Dell recommendation	Change +3VSRC to +3VALW except for LOM	0.3
38	28	H/W	06/24	Gautam	IEEE testing the voltage level are closer to the higher end of IEEE range	Change R1364 from 1.15K to 1.18K_0402_1%	0.3
39	7	H/W	06/24	Lester	Required by Intel for B0 Yonah.	Add R1378 (51_0603_1%) for TEST2 pulldown	0.3
40	39	H/W	06/24	Lester	Required by Intel for B0 Yonah.	Populate R1752 and add note "No stuff when doing flash recovery"	0.3
41	58	H/W	06/27	Joey	Change Gfx VDD_CORE controller power source	Change +5VSUS to +5VRUN. Change +3VSUS to +3VRUN. Depop C2225	0.3
42	33	H/W	06/28	Rossana	MDC signal by pass caps not require	Delete C93, C82, C73	0.3
43	31,40	H/W	06/28	Rossana	Reseved USB port of OZ77C6 for Biometrics reader	Change JTPAD from 10 pins to 20 pins. Add USB_BIO+/- on U1 pin18,19 connect to JPAD pin9,11	0.3
44	30	H/W	06/28	Rossana	Gerber Gate List issue	Remove C1783, C1784	0.3
45	34	H/W	06/28	Rossana	Gerber Gate List issue	Remove L18, R149, and R144 - direct connect USB to Wireless LAN card	0.3
46	34	H/W	06/28	Rossana	Gerber Gate List issue	Add R1603 connect to JMINI2 pin46, outgoing signal BT_ACTIVE	0.3
47	34	H/W	06/28	Rossana	Gerber Gate List issue	Add series 0-ohms R1609, R1610 for pins 3 and 5 of JMINI2	0.3

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Item	Page#	Title	Date	Request Owner	Issue Description	Solution Description	Rev.
48	34	H/W	06/28	Rossana	Gerber Gate List issue	Change C159 and C1785 from 10uF to 0.1uF	0.3
49	34	H/W	06/28	Rossana	Gerber Gate List issue	Add T1 test point for JMINI1 pin 42	0.3
50	36	H/W	06/28	Rossana	Gerber Gate List issue	Add C1817~1820 for U180,U178,U179,U177	0.3
51	39	H/W	06/28	Rossana	Gerber Gate List issue	Change R30 pull up from +3VSR to +3VALW	0.3
52	43	H/W	06/28	Rossana	Change sniffer switch type, the active direction swap	WIRELESS_ON/OFF# connection from pin1 to pin 4 of JSNIFF, pin3 connect to GND, pin2 NC, pin 1 connect to SNIFFER#	0.3
53	36	H/W	06/28	Rossana	Gerber Gate List issue	Add C1821 1000pF for +DOCK_PWR_SRC, add C1827 1000pF for DOCK_DC_IN	0.3
54	35	H/W	06/28	Rossana	Gerber Gate List issue	Add C1822 0.1uF_0402 and C1823,C1824 .47uF_0402 for QBUF power	0.3
55	26,27	H/W	06/29	Rossana	Gerber Gate List issue	Follow Dell "Travis_Audio_0628" reference circuit design	0.3
56	39	H/W	06/29	Will	Gerber Gate List issue	Change L4 form MURATA BLM11A121S to BLM18PG181SN1	0.3
57	24	H/W	06/30	Will	Gerber Gate List issue	Remove C375, C37 for ICH_V5REF_RUN, remove C420 for ICH_V5REF_SUS	0.3
58	24	H/W	06/30	Will	Gerber Gate List issue	Add R37 0.5 ohm 0603 resistor connect to L42 pin1	0.3
59	24	H/W	06/30	Scott	Gerber Gate List issue	Populate C347 and C442	0.3
60	24	H/W	06/30	Scott	Gerber Gate List issue	Change C450 for 220uF to 330uF poly cap	0.3
61	40	H/W	06/30	Roger	Match Dell JTPAD pinout definition	Match Dell JTPAD pinout definition, add C62, C63 for BIO power rail bypass	0.3
62	26,27	H/W	06/30	Rossana	Gerber Gate List issue	R162 change from 8.2K to 2.2K, remove D33, D34, Change C1800, C1801 from 1uF to 2.2uF, change C534 from 0.1uF to 1uF, del C533.	0.3
63	26	H/W	06/30	Rossana	Gerber Gate List issue	HP_NB_SENSE move from GPIO2 to GPIO0 of U10, add series resistor 0 ohm for this signal	0.3
64	7	H/W	07/07	Roger	Support A1 Yanah CPU	De-pop R513, R514 for A1 yanah CPU	0.3
65	56	H/W	07/25	Roger	Set VRAM VREF to 50% of VDDQ	Change R2035, R2036 to 1K_0402_1%	0.4
66	54	H/W	07/25	Roger	Nvidia G72 design change	De-pop L2008, C2094, C2095, C2096 for FBA_PLLVDD	0.4
67	54	H/W	07/25	Roger	Nvidia G72 design change	Remove C2110 and NC for CLAMP (D11)	0.4
68	54	H/W	07/25	Roger	Nvidia G72 power design change	Remove L2003, L2006, L2007, L2124, L2008, C2094, C2095, C2096	0.4
69	54	H/W	07/25	Roger	Nvidia G72 power design change	Pop L2129, C2206, C2207 for G72_PLLVDD	0.4
70	7	H/W	08/01	Roger	Gerber Gate List issue item 6	Change Change R417 to 150 ohm, R415 to 51 ohm, R387 to 39.2 ohm, R436 to 27.4 ohm, R391 to 680 ohm, R424 to 22.6 ohm	0.4
71	38	H/W	08/01	Roger	Gerber Gate List issue item 8	Change R110 from 68 ohm to 75 ohm for H_PROCHOT# pull up	0.4
72	43	H/W	08/01	Roger	Gerber Gate List issue item 9	Change the voltage rail on sniffer LED pull-ups (at Q13 and Q16) from +3VALW to +3VSUS	0.4

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73	7	H/W	08/01	Roger	None	Remove unnecessary capacitor C1805	0.4
74	18	H/W	08/01	Roger	Gerber Gate List issue item 12	Remove Q84, C1804. Connect U15 pin1 to VGA_THERMDP, U15 pin2 to VGA_THERMDN	0.4
75	40	H/W	08/01	Roger	Hall switch design on touch pad moudle	Depop U46 and C54	0.4
76	18	H/W	08/01	Roger	Gerber Gate List issue item 13	Add a thermistor circuit to VCP input (pin 3) for the SODIMM temp sensor. Add Q15, R476, R477, R478, C66	0.4
77	57	H/W	08/01	Roger	Gerber Gate List issue item 15	Remove Gxf thermal sensor U2007 (ADM1032), C2181, C2182	0.4
78	38	H/W	08/01	Roger	Gerber Gate List issue item 19	Move NB_MUTE from U215 pin 107 to pin73	0.4
79	16,17	H/W	08/01	Roger	Gerber Gate List issue item 20,21	Remove R178, pop R177	0.4
80	10,23	H/W	08/01	Roger	Gerber Gate List issue item 22,23	Depop R253, populate R1799	0.4
81	38	H/W	08/01	Roger	Change board ID for X01	Depop R419 and populate R405	0.4
82	42	H/W	08/02	Roger	Gerber Gate List issue item3	Connect 2.5V_RUN_PWRGD net to LDO_POK pin. Add depop R49	0.4
83	18	H/W	08/02	Roger	Gerber Gate List issue item11	Add R1800 31.6K ohm resistor for Vmargin circuit.	0.4
84	23	H/W	08/02	Roger	Gerber Gate List issue item5	Change R389 from 1K to 10K	0.4
85	33, 40	H/W	08/04	Steven	Combine the BT and TP in 30 PIN connector.	Delete JBT and move components to JTAP.	0.4
86	42	H/W	08/04	Steven	Gerber Gate List issue item3	Add Depop resister R2169, R2170, R2171.	0.4
87	22, 23	H/W	08/04	Steven	For intel NAPA platform check list 1.5 request.	Chnage R425 from 330hm pull-down to 8.2KOhm pull-up. And add pull-up resister R227 in SIO_RCIN#.	0.4
88	16	H/W	08/09	Roger	V_DDR_MCH_REF discharge issue	Add R51 (100K_0402) connect to V_DDR_MCH_REF	0.4
89	23	H/W	08/09	Roger	Leakage issue when system into S3	Change SIO_EXT_SMI#, SIO_EXT_SCI# pull up to +3VSUS	0.4
90	36	H/W	08/09	Roger	Refer Dell docking reference circuit	Remove R1320, R1319	0.4
91	12	H/W	08/09	Roger	Gerber Gate List issue item 28	Depop R357	0.4
92	38	H/W	08/09	Roger	Follow Dell EC GPIO assignment	Move SPDIF_SHDN from pin31 to pin76, remove R1601, R1602, net SYSOPT0	0.4
93	28	H/W	08/10	Roger	Gerber Gate List issue item 30	Add R53 4.7K resistor for LOM_SO pull down	0.4
94	28	H/W	08/10	Roger	Gerber Gate List issue item 33	Connect BCM5752 pin C4 to ECE5018 pin75 net name LOM_CABLE_DETECT. Series no stuff resistor R55	0.4
95	24	H/W	08/10	Roger	Gerber Gate List issue item 37	Connect BCM5752 pin C4 to ECE5018 pin75 net name LOM_CABLE_DETECT. Series no stuff resistor R55	0.4
96	38	H/W	08/10	Roger	Gerber Gate List issue item 39	R1171 change pull up from +3VRUN to +3VSUS	0.4
97	38	H/W	08/10	Roger	Gerber Gate List issue item 42	Add a 4.7uF cap for ECE5018 VDDA33 coupling	0.4

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98	39	H/W	08/10	Roger	Gerber Gate List issue item 43	Add a 0 Ohm 0402 resistor R62 in series with the RTC_CELL and EMC5004 pin 121	0.4
99	7	H/W	08/10	Roger	Follow Intel CRB circuit	R513, R514 pull up to +VCCP	0.4
100	39	H/W	08/10	Roger	Gerber Gate List issue item 46	Add resistor R63 (0_0402_5%) between the BIA_PWM signal and MEC5004 pin 73	0.4
101	39	H/W	08/10	Roger	Gerber Gate List issue item 47	Change ITP_DBRESET# connection from EMC5004 pin 55 to pin96	0.4
102	22	H/W	08/10	Roger	Gerber Gate List issue item 50	Add no stuff C69 (0.1U_0402_16V4Z) between THRMTRIP_ICH# and GND	0.4
103	41	H/W	08/10	Roger	None	Change R1795 pin 1 connect from +1.8VRUN to +1.8VSUS for discharge	0.4
104	23	H/W	08/10	Roger	Gerber Gate List issue item 51	Move pull-up R388 to pin 1 side of R1787	0.4
105	6	H/W	08/10	Roger	Gerber Gate List issue item 29	Add C70 (0.1U_0402_16V4Z) for +CK_VDD_MAIN decoupling. Remove R291, R343, R329 to save spacing	0.4
106	7	H/W	08/11	Roger	Gerber Gate List issue item 68	Remove R513 and R514 platform no longer use Yonah A00	0.4
107	42	H/W	08/11	Roger	Gerber Gate List issue item 65	Populate 0ohm for R49, R313, R319, R334	0.4
108	41	H/W	08/11	Roger	Gerber Gate List issue item 67	Change R494 to 20K	0.4
109	7	H/W	08/11	Roger	Gerber Gate List issue item 69	Add no stuff C71 and C72 for +VCCP of JITP	0.4
110	7	H/W	08/11	Roger	Gerber Gate List issue item 70	Change R416 and R33 from 56 ohm to 54.9 ohm	0.4
111	12	H/W	08/11	Roger	Gerber Gate List issue item 72	Delete R333 to follow reference schematics	0.4
112	28	H/W	08/11	Roger	Gerber Gate List issue item 34	Add R68 (20K_0402_5%) and R70 (39K_0402_1%) for LAN_LOW_PWR voltage divider connect to pin K5	0.4
113	26,27,38	H/W	08/12	Roger	Gerber Gate List issue item 75	DOCK_HP_MUTE# for GPIO2 of codec connect to ECE5018 pin 81. EAPD for GPIO3 of codec connect to additional Q11 gate	0.4
114	38	H/W	08/15	Roger	Gerber Gate List issue item 38	Chnge SYS_PME# pull up from +3VRUN to +3VALW. Add no stuff R71 in series	0.4
115	38	H/W	08/15	Roger	Gerber Gate List issue item 41	Remove HP_NB_SENSE from ECE5018 pin 106 to pin 82	0.4
106	23	H/W	08/15	Roger	Gerber Gate List issue item 188,189	Depop R428,Change value of R75 to 10k ohms	0.4
107	6	H/W	08/15	Roger	Nvidia 27MHz clock has to be 1.2V max	Add R73 150 ohms for CLK_NV_27M voltage divider	0.4
108	52	H/W	08/15	Roger	Gerber Gate List issue item 211	Add R74 0 ohms in series to PLTRST_DELAY#	0.4
109	40	H/W	08/16	Roger	Gerber Gate List issue item 48	Change R1750 and R1751 to L1 and L2	0.4
110	40	H/W	08/16	Roger	Gerber Gate List issue item 48	Change R1750 and R1751 to L1 and L2	0.4
111	39	H/W	08/16	Roger	Gerber Gate List issue item 217	Remove R166. Move R1635 for AFT_INT# move to page 39	0.4
112	39	H/W	08/16	Roger	Add pull up for open drain out put	Add R93 pull up to +3VALW for BAT_SEL#	0.4

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113	38	H/W	08/16	Roger	Mute internal speaker when docking audio jack plug in	Add pull down resistor for DOCK_HP_MUTE#	0.4
114	58	H/W	09/07	Roger	G72MV VDDCORE fixed to 1.0 V	Depop R2164,R2165,R2166,R2167,R2168,Q2014,C2235. Change R2160 from 69.8K ohms to 57.6K ohms	0.4
115	06	H/W	09/07	Roger	Follow Dell CoE schematics	Change C329, C333 from 33pF to 27pF	0.5
116	43	H/W	09/14	Roger	Blue tooth LED too bright	Change R8 from 3.3K to 1K ohms	0.5
117	41	H/W	09/14	Roger	+1.8VSUS discharge low issue	Populate Q89, R1795	0.5
118	39	H/W	09/14	Roger	LID_CL# can't assert low	Change R482 from 100K to 1M ohms	0.5
119	39	H/W	09/14	Roger	R470 from 10K to 100K is for save the pull up current.	R470 from 10K to 100K	0.5
120	34, 39	H/W	10/13	Steven	Connect 8051TX to WWAN Pin 19 and Connect 8051RX to WWAN Pin 42.	Modified.	0.5
121	22	H/W	10/15	Steven	Gerber Gate List issue item 60. Per M07 ICH reference schematics rev A05.	Add R12 0-ohm tuning resistor between R36 pin2 and X1 pin1	0.5
122	41	H/W	10/17	Steven	Gerber Gate List issue item 66	Change R1795 to a 30 ohm 0603 resistor	0.5
123	52	H/W	10/17	Steven	Gerber Gate List issue item 67. Use 27MHz clock from CK410.	Pop R2131, R2132, and depop Y2001, C2204, C2205, and R2133	0.5
124	19	H/W	10/17	Steven	Gerber Gate List issue item 65. Make sure BIA_PWM logic high level is at +3.3V.	Add R92 pullup to +3VRUN on BIA_PWM	0.5
125	39	H/W	10/18	Steven	MEC5004 per SMSC recommendations to add circuit for improving POR issue.	Add de-pop components R23, R25, R97, R102, R104, Q20, Q19, C22, D2002. And change C1769 to 22U.	0.5
126	38	H/W	10/18	Steven	change board ID to X02	Pop R95, R419 and De-pop R108, R405.	0.5
127	23	H/W	10/18	Steven	Gerber Gate List issue item 78. Pull up LAMP_STAT# to +3VRUN	Change R75 pull-up to +3.3V_RUN.	0.5
128	40	H/W	10/18	Steven	Gerber Gate List issue item 77. add 10pF cap between GND and pin2 of L1/L2.	Add capacitor C23, C35.	0.5
129	6	H/W	10/19	Steven	Gerber Gate List issue item 72. Inductor design follow M07 design on L40,L32 (Size:0805).	Change L32, L40 from 0603 to 0805.	0.5
130	23	H/W	10/19	Steven	Gerber Gate List issue item 79. SATA_DET# is pull up to +3.3V_SUS.	Change R784 pull up to +3.3V_SUS.	0.5
131	9	H/W	10/20	Steven	Gerber Gate List issue item 84	Change the 32 high frequency decoupling caps, 0805 X5R, from 22uF to 10uF. Depop C354 and C618.Change C352, C496, C497, and C365 from 330uF/7mOhm to 330uF/6mOhm SP caps.	0.5
132	34	H/W	10/20	Steven	Gerber Gate List issue item 82	Connect PLTRST# instead of PLTRST_DELAY# to WLAN and WWAN connectors.	0.5
128	23	H/W	10/20	Steven	IMVP_PWRGD glitch issue	Add C82 0.1uF cap on IMVP_PWRGD to filter the glitch	0.5
129	28	H/W	10/21	Steven	Q68 surge current	Add R120 (0603) and C80 0.1uF cap Q68 pin1 for reduce surge current	0.5
130	40,43	H/W	10/21	Steven	BT & HDD LED is on when the SNIFFER is turned on.	Added a circuit (FET and Resistors) to keep the BT LED & HDD LED off when the SNIFFER is turned on	0.5

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131	38	H/W	10/21	Steven	Gerber Gate List issue item 81	Depop R1440	0.5
132	34	H/W	10/22	Steven	Add Intel WoWLAN Support Circuit	Add pop components Q21 and R101, and un-pop componet R24.	0.5
133	18	H/W	10/24	Steven	Gerber Gate List issue item 89. Change OTP trip temperature to 88 deg C.	Change R249 to 332K and R262 to 118K.	0.5
134	39	H/W	10/24	Steven	Gerber Gate List issue item 90. Pop SMSC workround circuit for 11/7 build.	Pop R23, R25, R97, R102, R104, Q20, Q19, C22, D2002.	0.5
135	39	H/W	10/24	Steven	Gerber Gate List issue item 91. Add a 0 ohm pulldown resistor on TEST_PIN.	Add R110 00hm resister.	0.5
136	52	H/W	10/24	Steven	Gerber Gate List issue item 94. Connect GPIO9 of G72 to THERMTRIP3# of EMC4000.	Add 0 Ohm resister R112 and connect to EMC4000.	0.5
137	58	H/W	10/24	Steven	Gerber Gate List issue item 95.	Change R2155 from 0 to 1 Ohm.	0.5
138	58	H/W	10/24	Steven	Gerber Gate List issue item 96.	Change +5V_RUN to +5V_SUS at VDD.	0.5
139	58	H/W	10/24	Steven	Gerber Gate List issue item 97.	Change +3.3V_RUN to +3.3V_SUS at R2158.	0.5
140	58	H/W	10/24	Steven	Gerber Gate List issue item 98.	Change +1.8V_RUN to +1.8V_SUS at pin 13.	0.5
141	52	H/W	10/24	Steven	Gerber Gate List issue item 113. Add a 10K pull-down to TESTMODE pin on G72.	Add 10K Ohm resister R116.	0.5
142	43	H/W	10/24	Steven	Gerber Gate List issue item 111. Remove one of the pull-ups on SNIFFER_LED_OFF#.	Remove Pull up resister R1447.	0.5
143	43	H/W	10/24	Steven	Gerber Gate List issue item 111.	More R76 to pin 1 of Q66 and populate	0.5
144	34	H/W	10/24	Steven	Add Intel WoWLAN Support Circuit	Replace Q21 and R101 to D2003.	0.5
145	20	H/W	10/24	Steven	Gerber Gate List issue item 109. Add 39 ohm resistors at output of U190 and U191.	Add resister R101 and R114.	0.5
146	18	H/W	10/24	Steven	Gerber Gate List issue item 93. Add thermistor circuit to VCP2 (pin 40) of EMC4000. Please route to 5V_CAL_SIO2# (pin 80, GPIO B4 on ECE5018).	Add thermistor circuit R479, R480, R481, C36, Q21.	0.5
147	54	H/W	10/24	Steven	Gerber Gate List issue item 106. Change FBCAL_PD_VDDQ terminating resistor.	Change R2032 from 37.4 to 40.2 ohms.	0.5
148	54	H/W	10/24	Steven	Gerber Gate List issue item 105. Change FBCAL_PU_GND terminating resistor.	Change R2104 from 37.4 to 30 ohms.	0.5
149	43	H/W	10/24	Steven	Gerber Gate List issue item 114. Modified SATA_ACT# LED sniffer disable circuit.	Modified the circuit and Add and D2004. Chnage Q1 to 3904, R1149/1448 change to 10K and 1K.	0.5
150	58	H/W	10/25	Steven	Gerber Gate List issue item 120. Pull up R2159 to +3.3V_SUS.	Change R2159 to pull up +3V_SUS.	0.5
151	40	H/W	10/25	Steven	Gerber Gate List issue item 119. For fix the IMVP_PWRGOOD glitch issue.	Change delay circuit R1764 from 200KOhm, C1788 to 470PF to +1.8V_run and +3V_run.	0.5
152	43	H/W	10/25	Steven	Gerber Gate List issue item 104. Modified the SATA_ACT# circuit.	Modified the circuit Pull up R1449 to +5V_SUS and R1445 to +5V_run. R2 move to Q1 pin 3, SNIFFER_LED change to GPIO82.	0.5
153	34	H/W	10/25	Steven	Gerber Gate List issue item 115. Change LTRST_DELAY# to PLTRST# on WLAN.	Chnage PLTRST_DELAY# to PLTRST# on the WLAN connector.	0.5
154	58	H/W	10/25	Steven	Gerber Gate List issue item 117. Modified Vcore voltage switching circuit.	Change R2168 to +3.3V_SUS.	0.5

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155	57	H/W	10/25	Steven	Gerber Gate List issue item 118. Depop the discrete spread spectrum circuit.	Depop R2120, U2010, R2123, R2124, C2196, C2197 and L2123. Add R117 10K pull down resistor.	0.5
156	20	H/W	10/25	Steven	Gerber Gate List issue item 116. Add diode HSYNC and VSYNC buffers.	Add D2005 (RB751) in U190, U191 Pin 5.	0.5
157	18	H/W	10/25	Steven	For improving Gerber Gate List issue item 94 leakage issue.	Change 00hm resistor to Q25.	0.5
158	58	H/W	10/25	Steven	Cancelled Gerber Gate List issue item 97.	Change +3.3V_SUS to +3.3V_RUN at R2159.	0.5
159	40, 43	H/W	10/26	Steven	Modified HDD/BT disable circuit.	Move 40 BT Disable circuit to 43.	0.5
160	58	H/W	10/26	Steven	Gerber Gate List issue item 121. Delete resistors R2158 and R2159 on sheet 58.	Remove R2158 and R2159.	0.5
161	41	H/W	10/29	Steven	For improving power sequence add RC delay and Discharge circuit.	Add R1765, C1804 for delay +3V_run circuit. Add non-populate component. Q26, Q28, R1803, R1766.	0.5
162	58	H/W	10/29	Steven	For pop option 8632 shutdown pin source Add two resistor.	Add Non-populate R1802 and Populate component R1801. For Pop option 8632 Enable source.	0.5
163	41	H/W	11/03	Steven	Populate the HDD power switch circuit	Pop Q51, R507, Q50 and Depop PJP24.	0.5
164	31	H/W	11/03	Steven	For passing EMVCo test.	Change R1424 from 220 to 330Ohm.	0.5
165	43	H/W	11/03	Steven	SNIFFER_LED_OFF# is a push/pull signal.	De-pop R1449.	0.5
166	27	H/W	11/03	Steven	To improve audio quality	Change C199 to 0.022uF and pop R164, depop R170.	0.5
167	39	H/W	11/11	Steven	Change SMSC MEC5004 from version C to D.	Change U216 P/N to D version. Depop R102, R97, R25, R23, R104, D2002, Q19, Q20, C22. And chnage C1769 value from 22UF to 4.7UF.	0.5
168	56	H/W	11/11	Steven	Change VRAM parts to K4D553235F-VC33 as DELL request.	Change VRAM P/N to K4D553235F-VC33 (SA55323000L).	0.5
169	39	H/W	11/11	Steven	Change DOCK_SMB_CLK and DOCK_SMB_DAT for consistent with other M07 platforms.	Change R99 and R100 resistor from 100K to 8.2K Ohm. And R1618 change to 10K.	0.5
170	42	H/W	11/11	Steven	Provide pull-up resistor to GFX_CORE_PWRGD for 1.2Vrun power used.	Pop R2170 for provide pull-up resistor.	0.5
171	43	H/W	11/11	Steven	For improve LED brightness issue.	Change R2 value from 560hm to 3300hm. And modified R15 from 1500hm to 1000hm.	0.5
172	28	H/W	11/12	Steven	For Q68 broken issue. Modified R120 value for protect base pin.	Change R120 from 00hm to 2KOhm.	0.5
173	20	H/W	11/12	Steven	For DELL request change D32 and D2005 to RB500.	Change D32 and D2005 from RB751 to RB500.	0.5
174	27	H/W	11/12	Steven	For improve Audio THD+n performance.	Change C113, C114 and C146 from 1UF to 2.2U.	0.5
175	27	H/W	11/22	Steven	For adjust Audio gain to 15.6DB.	Pop R170, De-pop R164.	0.5
176	42	H/W	12/06	Steven	For improving SUSPWROK turn on issue.	Modified Q7 to 2N7002.	0.6
177	23, 38	H/W	12/06	Steven	For solving HD warn boot parking sound issue.	Change HDDC_EN#, MODC_EN# from ICH7 to ECE5018 Pin 106, 107 (GPIOH2/3), and Depop R2148, R2149.	0.6
178	7	H/W	12/06	Steven	Add a De-pop resistor for CPU test 1 PIN.	Add De-pop resistor R1387.	0.6
179	39	H/W	12/07	Steven	Add an damping resistor for improving SPI_CS# overshoot issue.	Add 470hm resistor R127.	0.6

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179	39	H/W	12/09	Steven	For solving SBAT_SMBDAT rising time over spec issue.	Change R444 to 4.7KOhm resistor.	0.6
180	6	H/W	12/12	Steven	For Gerber Gating list item 14 Depop pullup resistor on ICH_CLKREQ#.	Depop resistor R1761.	0.6
181	38	H/W	12/12	Steven	For Gerber Gating list item 17 Update board ID to A00	Pop R405, depop R419.	0.6
182	31	H/W	12/12	Steven	For Gerber Gating list item 11 add 47pF capacitors to the USB_BIO+/- pins to fix bio sensor ESD issue.	Add 2 capaciotr C83, C84 in USB_BIO+/-.	0.6
183	41	H/W	12/14	Steven	For GPIOH[3:2] need, chnage pullup resistor power plane to always.	Change pullup resistor R2148, R2149 for +3.3V_SUS to +3.3V_ALW.	0.6
184	41	H/W	12/15	Steven	For Gerber Gating list item 18. Change pullup resistor to 10K.	Change pullup resistor R2148, R2149 for 100K to 10KOhm.	0.6
185	39	H/W	12/19	Steven	For Gerber Gating list item 21. Add 0 ohm series resistor to SPI_CS# at MEC5004.	Add series resistor R112 at MEC5004 side.	0.6
186	31	H/W	12/19	Steven	For improving USB BIO sensor EMI issue.	Add Pop L5, and depop resistor R122, R123.	0.6
187	40	H/W	12/20	Steven	For DELL EMI request for add a 0.1uF capacitor in JTPAD.	Add 0.1uF capacitor C54.	0.6
188	28	H/W	12/30	Steven	For Q68 damage issue change form BCP69 to MBT35200 as ZRS solution.	Use MBT35200 to replace Q68. Modified.	0.6
189	7	H/W	12/30	Steven	Intel Design Guide 1.0 to change H_RESET pull-up resistor to 51Ohm.	Change resistor R416 to 51Ohm.	0.6
190	39	H/W	01/04	Steven	For enable MEC5004 BIOS write protect function.	Pop R139 and de-pop R138.	0.6
191	27	H/W	01/07	Benson	For adjust Audio gain to 21.6 DB.	DePop R170, pop R164.	0.6
192	28	H/W	01/09	Steven	For Q68 issue to reserve soft start circuit.	Change R120 to 00hm, and depop C80.	0.6
193	58	H/W	01/09	Steven	For avoiding GPU leakage issue.	Change R2168 pull-up from +3.3V_run to +3.3V_sus.	0.6
194	20	H/W	01/20	Steven	For fixing issue with projector using long cable.	Change R101,R114 from 39 ohm to 0 ohm	0.6
195	19	H/W	01/20	Steven	For stronger the VGS driving in Battery Mode	Change R235 from 200K ohm to 100K ohm	0.6
196	6	H/W	01/20	Steven	The Drive Level too high	Change R32 from 0 ohm to 470 ohm	0.6
197	22	H/W	01/20	Steven	The Negative Resistance too low	Change X1 spec from CL=20pF to 6 pF and C38,C40 from 12pF to 2.2pF	0.6
198	38	H/W	01/20	Steven	The Frequency too high & Drive Level too high	Change Y1 spec from CL=20pF to 12pF and C1451,C1452 from 22P to 15P	0.6
199	31	H/W	01/20	Steven	None	Depop L5 ,pop R122,R123 33 ohm	0.6
200	23	H/W	01/20	Steven	To fix PLTRST_DELAY# glitch	Change R74 from 0 ohm to 10K ohm and pull-down it	1.0
201	23	H/W	02/06	Steven	For solving USB strength issue.	Change R113 from 22.6Ohm to 22Ohm.	0.6
202	39	H/W	02/07	Steven	For solving primary battery hand issue.	Change R447, R449 to 4.7KOhm; R444, R131 to 2.2KOhm.	0.6

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1	46	PWR	06/01	Saha	M4 input current more than MAX8734 LDO3 output 100mA	Delete PU17 SN74AHC1G32DCKR OR GATE(SA00732018L), PR49 1K_0402_1%(SD03410018L) Add PR350 0_0402_5%(SD02800008L) connect LDO3 to ON3 PU18 74AHCT1G08GW AND GATE(SA00000L30L) PR352 1K_0402_1%(SD03410018L) PR351 0_0402_5%(SD02800008L)	0.2 0.2
2	46	PWR	06/01	Saha	MAX8734 LDO soft start issue.	Delete PR27 4.7_1210_5%(SD000007E8L) Un-pop PC20 4.7U_1206_25V6K(SE093106M8L)	0.2
3	46	PWR	06/01	Saha	PWR_SRC noise issue	Un-pop PC252 100U_25V_M(SF10004M008)	0.2
4	44/45	PWR	06/01	Saha	+3VALW change to +3VSRG	Rename net +3VALW to +3VSRG	0.2
5	47	PWR	06/01	Saha	VCCP high/low side MOSFET change from IR to Infineon No-stuff PC207 and PC208	PQ38 change from IR7821(SB57821008L) to BSO072N03S(SB00000418L) PQ40 change from IR7832(SB57832008L) to BSO072N03S(SB00000418L) Un-pop PC207 and PC208 10U_0805_6.3V5K(SE093106M8L)	0.2
6	47	PWR	06/01	Saha	VCCP_1P05VP OCP issue(5A)	PR224 change from 124K_0402_1%(SD03412438L) to 60.4K_0402_1%(SD03460428L)	0.2
7	47/48	PWR	06/01	Saha	Choke height issue.(5.6mm change to 5.0mm)	PL14 and PL27 change from 1.4U_HMU1356-1R4_15.5A H5.6mm(SH04814AM8L) to 1.4U_HMU1350-1R4_15A H5.0mm(SH000004H8L)	0.2
8	44	PWR	06/01	Saha	PSID materiel change by Dell	PQ1 change from BSS138_SOT23(SB50138008L) to FDV301_SOT23(SB50301008L)	0.2
9	50	PWR	06/01	Saha	New version MAX8731 PIN1 define GND	Un-pop PR337 0_0402_5%(SD02800008L),Pop PR336 0_0402_5%(SD02800008L)	0.2
10	50	PWR	06/02	Saha	Add RC filter at pin 23 of MAX8731	Add PR360 1_0603_1%(SD014100B8L) PC253 220P_0402_50V7K(SE074221K8L)	0.2
11	46/48	PWR	06/02	Saha	Add support for Reliability voltage margining tests	Add PR356, PR355 and PR359 0_0603_5%(SD01300008L) PR353 and PR354 0_0402_5%(SD02800008L)	0.2
12	48	PWR	06/16	Saha	Change output capactior rating voltage from 6.3V to 2.5V	PC70 and PC71 change from 330U_D3L_6.3V_R25(SGA00000N8L) to 330U_D2E_2.5VM_R15(SGA19331D0L)	0.3
13	49	PWR	06/22	Saha	Change VCORE DPRSLPVR input resistor value	PR248 change from 0_0402_5%(SD02800008L) to 499_0402_1%(SD03449900L)	0.3
14	50	PWR	06/22	Saha	Add power limit schematic	Depop PR361 80.6K_0402_1%, PR362 200K_0402_1%, PR363 121K_0402_1%, PR364 3.01K_0402_1%, PR365 499K_0402_1%, PR366 100K_0402_1%, PR367 100K_0402_1%, PC254 0.01U_0402_25V8K, PC255 100P_0402_50V8K, PC256 100P_0402_50V8K, PC257 100P_0402_50V8K, PC258 0.01U_0402_25V8K, PC259 10P_0402_50J8K, PQ81 RHU002N06_SOT323, PU19 LM393DR_SO8	0.3
15	46	PWR	06/29	Saha	Discreate 3VALW and 3VSRG.	Add PU17 SN74AHC1G32DCKR OR GATE(SA00732018L), PR49 1K_0402_1%(SD03410018L) PQ82 FDC655BN_NL(SB000004P8L) Delete PR352 1K_0402_1%(SD03410018L) PR351 0_0402_5%(SD02800008L) PR350 0_0402_5%(SD02800008L) PU18 74AHCT1G08GW AND GATE(SA00000L30L)	0.3

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16	46	PWR	06/29	Saha	Add V+ input Resistor	Add PR27 0_1206_5%(SD00100000L)	0.3
17	45/51	PWR	06/29	Saha	Battery conn. and battery selector +3VSRC change to +3VALW	Rename +3VSRC to +3VALW	0.3
18	47	PWR	06/29	Saha	ISL6227 Issue change 1.05V/1.5VHigh/Low side MOSFET change 1.05V choke adjust OCP and ISEN value	VCC Change from +5VRUN to +5VSUS. EN1 and EN2 change from RUNPWROK to RUN_ON. PR221 change from 20K_04-2_1%(SD03420028L) to 19.6K_0402_1%(SD00000358L) PQ8 change from FDS6994S(SB56994008L) to FDS8880(SB000004U8L) Add PQ83 FDS6670AS(SB000004T8L) PQ38 change from BSO072N03S(SB00000418L) to FDS8880(SB000004U8L) PQ40 change from BSO072N03S(SB00000418L) to FDS6670AS(SB000004T8L) PL27 change from 1.4U_HMU1350(SH000004H8L) to 1.5U_SIL104(SH04215A08L) Add PC261 0.01U_0402(SE068103K8) Add PC262 and PC263 2200P_0402(SE074222K8L) PR219 change from 825_0402_1%(SD03482508L) to 1.43K_0402_1%(SD03414318L) PR220 change from 825_0402_1%(SD03482508L) to 2.1K_0402_1%(SD03421018L) PR223 change from 69.8K_0402_1%(SD03469828L) to 124K_0402_1%(SD03412438L) PR224 change from 60.4K_0402_1%(SD03460428L) to 124K_0402_1%(SD03412438L)	0.3
19	49	PWR	06/29	Saha	ISL6260 Issue	Delete PR338, PR339 and PR340 2.7_0603_5% Change PC246, PC247, PC248 to 1500P_0805-----Unpop Change PH1 from ERTJ1VR103J(SL20000020L) to NCP15WM474J03RB(SL20000098L) PR284 change from 15.8K_0402_1%(SD03415828L) to 0_0402_5%(SD02800008L) Add PC260 0.1U_0603(SE042104K8L)	0.3
20	50	PWR	06/29	Saha	Change +VCHGR output CAP from 1206 to 1210	PC113 and PC114 change from 10U_1206(SE142106M8L) to 10U_1210(SE056106K8L)	0.3
21	47	PWR	08/12	Saha	Add VSEN capacitor	Add PC265 and PC264 100P_0402_50V8K(SE071101K8L)	0.4
22	47	PWR	08/12	Saha	Delete PGOOD pull high resistor	Delete PR283 100K_0402_1%(SD03410038L) De-pop PR195 100K_0402_1%(SD03410038L)	0.4
23	48	PWR	08/12	Saha	Delete reliability test resistor	Delete PR283 110K_0603_1%, PR359 0_0603_1%, and PR82 59.6K_0603_1%	0.4
24	49	PWR	08/12	Saha	Adjust VCORE load line	PR267 change from 7.87K_0402_1%(SD03478718L) to 9.09K_0402_1%(SD034909100) PR231, PR331, and PR270 change from 7.68K_0402_1%(SD00000238L) to 7.68K_0805_1%(SD00000B08L)	0.4
25	49	PWR	08/12	Saha	Delete H_PROCHOT# resistor	Delete PR235 0_0402_5%(SD02800008L)	0.4
26	50	PWR	10/17	Saha	Add RC filter in FBSA/B PIN	Add PR368 and PR369 100_0402_5%(SD02810008L) Add PC266 and PC267 0.01U_0603_50V7K(SE025103K8L) Un-pop PR371 and PR370 0_0402_5%	0.5
27	46	PWR	10/17	Saha	EMI request: change BST3 resestor	Change PR32 from 0_0603_5%(SD01300008L) to 2.2_0603_5%(SD013220B8L)	0.5
28	46	PWR	10/17	Saha	change 3V out put CAP height	change PC31 from 330U_6.3V_R25 H1.9(SGA00001C8L) to 330U_6.3V_R25 H2.8(SGA0000089L)	0.5

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29	50	PWR	10/17	Saha	Populate UL circuit	Populate PR361-PR367, PC254-259, PU19, PQ81. Change PR361 from 80.6k to 0. Change PR362 from 200k to 301k. Change PR363 from 121k to 59k. Change PR364 from 3.01k to 27.4k. Change PR365k from 499k to 4.32Meg.	0.5
30	49	PWR	10/20	Saha	Change VCC_CORE OCP, SOFT, and DPRSTP# value	PR260 change from 20K_0402_1%(SD03420028L) to 11.5K_0402_1%(SD03411520L) PC187 change from 0.022U_0402_16V7K(SE076223K8L) to 0.01U_0402_16V7K(SE076103K8L) Add PR372 0_0402_5%(SD02800008L) Delete PR246 0_0402_5%(SD02800008L) Un-pop PR249 0_0402_5%(SD02800008L)	0.5
31	48	PWR	10/20	Saha	Change PU6 BST resistor	PR73 change from 0_0603_5%(SD01300008L) to 1_0603_5%(SD013100B8L)	0.5
32	44	PWR	10/20	Saha	Change PQ2 from RUH002N06 to 3904	PQ2 change from RHU002N06(SB50206008L) to MMST3904(SB000002R0L)	0.5
33	49	PWR	11/12	Saha	Adjust CPU Load Line	PR267 change from 9.09K_0402_1%(SD03490918L) to 10.5K_0402_1%(SD03410528L) PR261 change from 3.57K_0402_1%(SD03435718L) to 2.47K_0402_1%(SD03424318L) Add PC252 100U_25V_(6.3X7.7)(SF10004M08L) Add PC215 0.068U_10VX7R_0402 (SE102683K8L)	0.5
34	50	PWR	12/6	Saha	Deeply discharged battery problem.	Add PD54 1SS355_sod323(SC1SS35500L) Add PR373 1K_0603_1%(SD01410018L)	0.5
35	50	PWR	12/6	Saha	Follow Coe A09 schematic	Add PC267 3300PF_0402_50V7K(SE074332K8L) Depop PC266 0.01U_0603_50V7K(SE025103K8L)	0.5
36	47	PWR	12/15	Saha	Follow GGL 1214 item19.	Depop PR12	0.6
37	49 50 46	PWR	1/7	Saha	For acoustical issue	Add PC270-PC273 and PC268 10U_1206_25V6M(SE142106M8L)	0.6

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