

DDR DIMM config.

Device	Address	Clock
CHA DIMM1	10100001B	MEM_MA_CLK_H0/L0 H1/L1
CHB DIMM2	10100000B	MEM_MB_CLK_H0/L0 H1/L1

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PCI Config

DEVICE	MCP1 INT Pin	REQ#/GNT#	IDSEL	CLOCK
PCI Slot 1	PCI_INT#A PCI_INT#B PCI_INT#C PCI_INT#D	PCI_REQ0# PCI_GNT0#	AD16	PCH CLKOUT_PCI<0>
TPM				PCH CLKOUT_PCI<3>
SIO				PCH CLKOUT_PCI<2>

TABLE 9
USB PORT MAPPING (SUBJECT TO CHANGE)

Controller	Port	Destination	Fused	ESD Pads	Bulk Cap	Over-Current Detection
UHCI #1, EHCI #1	Port 0	Internal (Ready Boost - P151)	Yes	Yes	No	Yes
	Port 1	Internal (Ready Boost - P151)	Yes	Yes	No	Yes
UHCI #2, EHCI #1	Port 2	Internal (Media Reader - P150)	Yes	Yes	No	Yes
	Port 3	Internal (Media Reader - P150)	Yes	Yes	No	Yes
UHCI #3, EHCI #1	Port 4	Front I/O	Yes	Yes	No	Yes
	Port 5	Front I/O	Yes	Yes	No	Yes
UHCI #4, EHCI #2	Port 6	Front I/O	Yes	Yes	Yes	Yes
	Port 7	Front I/O	Yes	Yes	Yes	Yes
UHCI #5, EHCI #2	Port 8	Rear I/O	Yes	Yes	Yes	Yes
	Port 9	Rear I/O	Yes	Yes	Yes	Yes
UHCI #6, EHCI #2	Port 10	Rear I/O	Yes	Yes	Yes	Yes
	Port 11	Rear I/O	Yes	Yes	Yes	Yes
UHCI #7, EHCI #2	Port 12	Rear I/O	Yes	Yes	Yes	Yes
	Port 13	Rear I/O	Yes	Yes	Yes	Yes

PCI RESET DEVICE

IBEXPEAK	
Signals	Target
PCIRST#_PCH	PCISLOT1
PLTRST_BU1#	JMB368 IDE
PLTRST_BU2#	PCIE*16 / *1
PLTRST_BU3#	LAN&TPM
PLTRST#	SIO



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MS-7636

Size	Document Description	Rev
3.5x5.5	Device Map	1.0
Printed on	October 27, 2009	Sheet 3 of 38

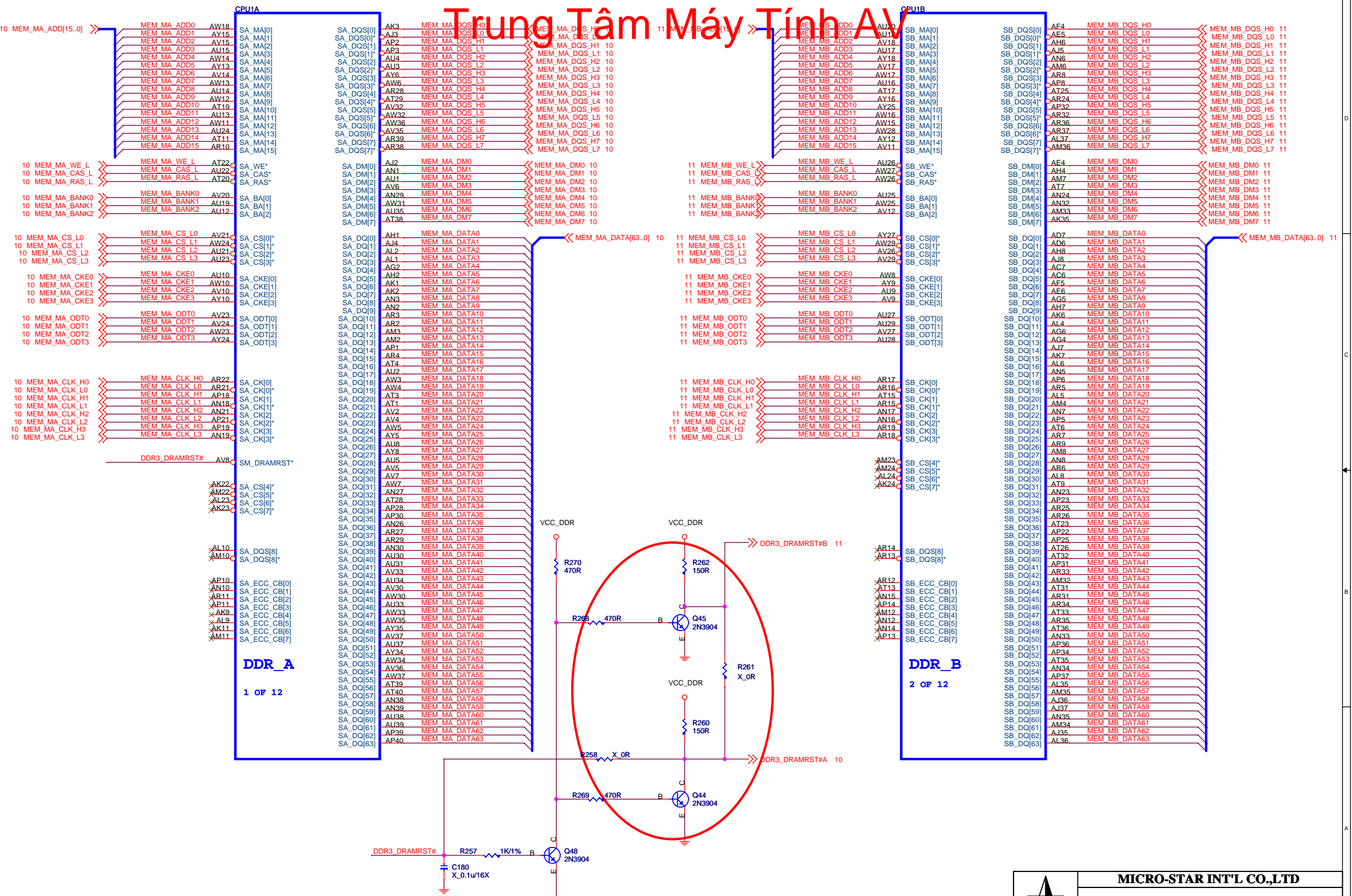
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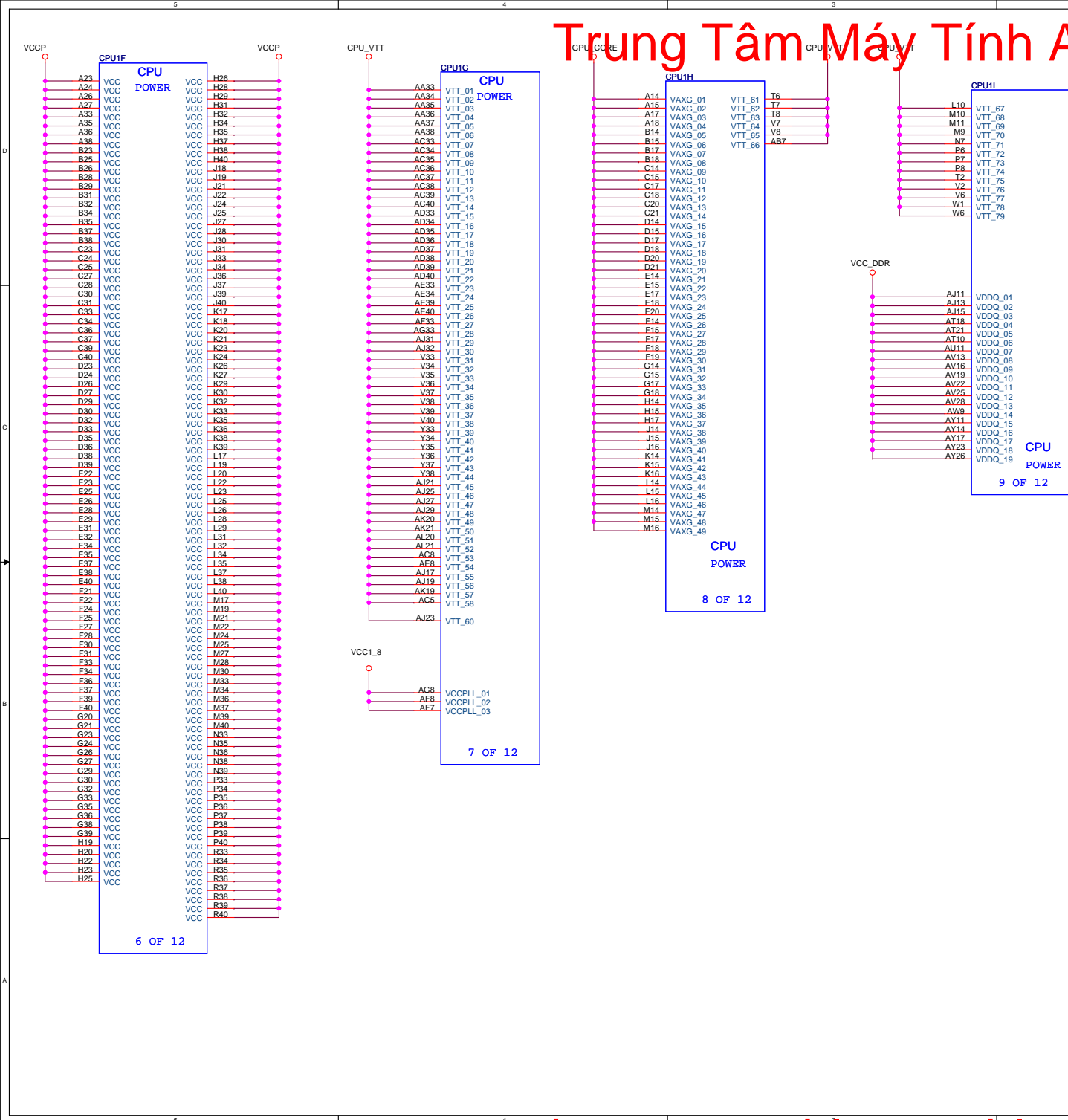
- 1.2009-10-13 Change VCC_SENSE to CPU_VCC_SENSE
- 2.2009-10-13 Add HDMI circuit,change USB circuit,JSP1 circuit update
- 3.2009-10-13 update NCT3016 circuit ,add VTIN3 circuit for VRM MOS
- 4.2009-10-18 Add C589 C590
- 5.2009-10-18 Add R561 R562 For HDMI HPDET
- 6.2009-10-20 Add R602,Swap HDMI wire for layout
- 7.2009-10-21 NCT3016 circuit update:add R637 Q65 R592,Change U27 pin16 tp NCT_GPIO16,delete C121
- 8.2009-10-21A NCT3016 citcui update:add Q85,chang SATA1&SATA2 to SATA1_2
- 9.2009-10-23 change JUSB2 & JUSB1 for layout
- 10.2009-10-23A NCT3016 circuit update:add R850
- 11.2009-10-24 delete VCCGATE and DUALGATE circuit
- 12.2009-10-26 delete C534
- 13.2009-10-26 Swap RN40



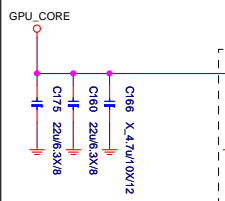
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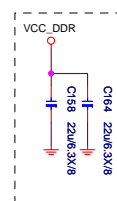


GPU_CORE Decoupling



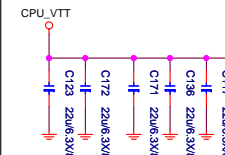
CPU SOCKET CAVITY CAPS

VCC_DDR-Decoupling



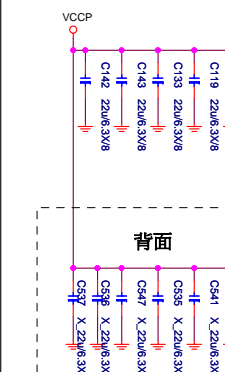
CPU SOCKET CAVITY CAPS

CPU_VTT Decoupling



CPU SOCKET CAVITY CAPS

CPU_VCCP-Decoupling



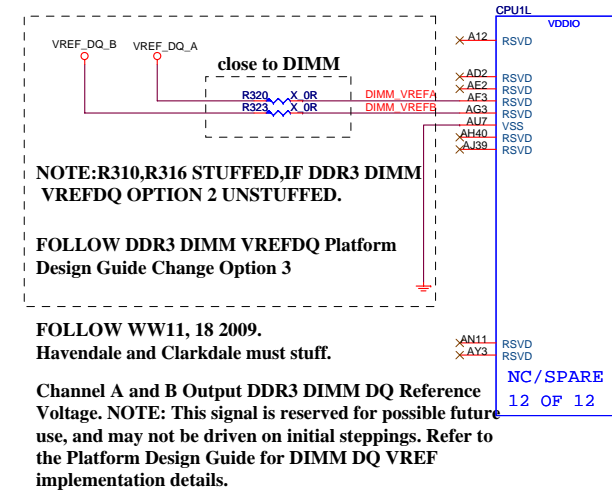
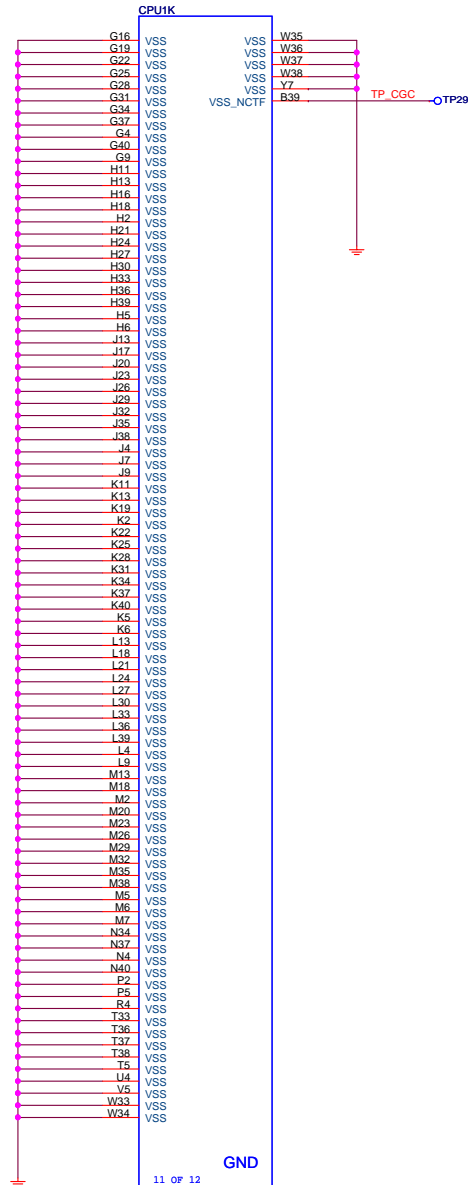
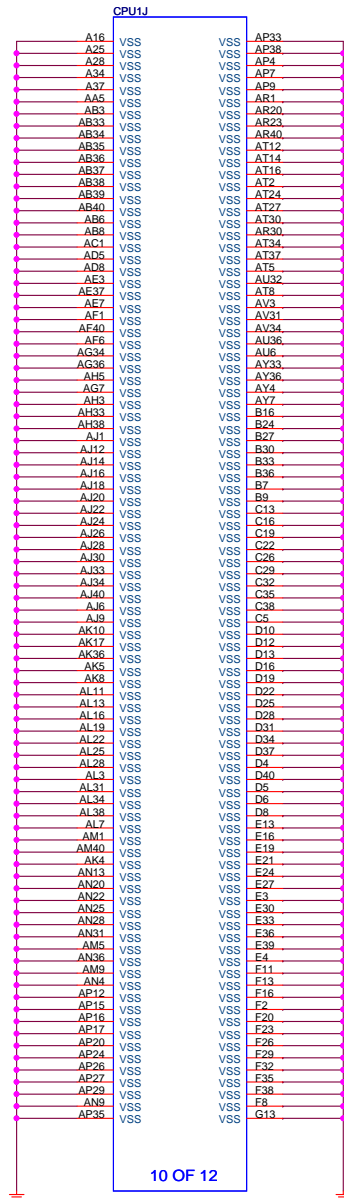
CPU SOCKET CAVITY CAPS



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MS-7636					
Size Custom	Document Description				Rev
	CPU-Power				1.0
Part No.	Version	Date	Author	Appr.	Rev
MS-7636	1.0	98-08-01	J. Chen	J. Chen	1.0

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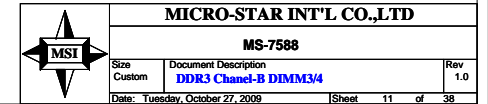
stuff or unstuff ?????



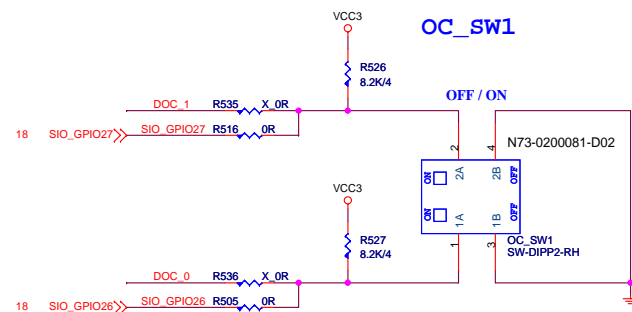
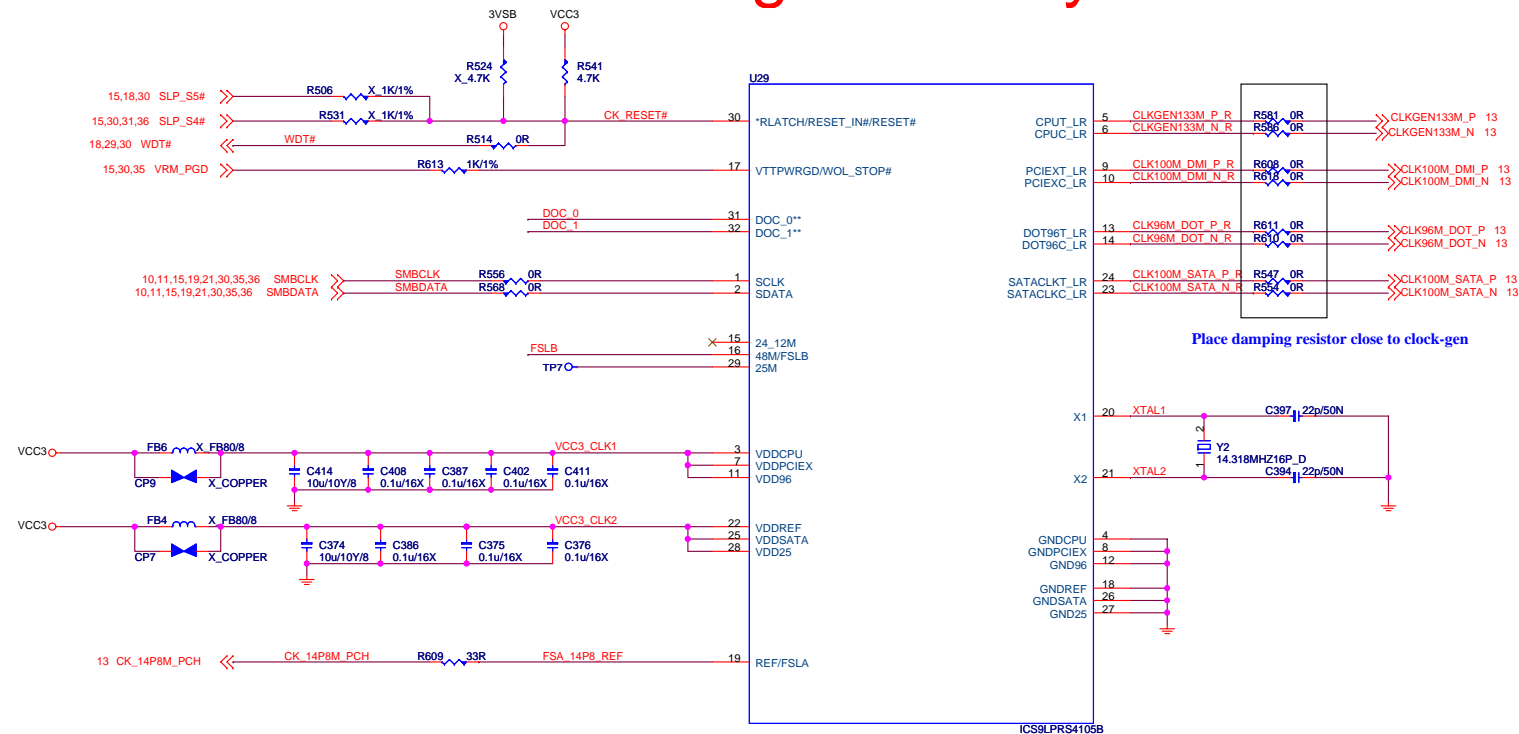
✓ DDRIII DIMM_A2



✓ DDRIII DIMM_B2



Trung Tâm Máy Tính AV



OC_SW1

OFF=1 ; ON=0

DOC		TABLE
1	0	CPU FREQUENCY
1	1	133 MHz (default)
1	0	142 MHz
0	1	150 MHz
0	0	166 MHz

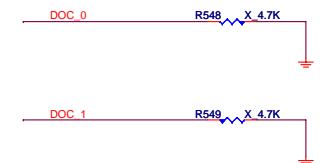
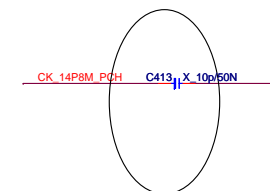
(Default) OFF / OFF

OFF / ON

ON / OFF

ON / ON

EMI



OC

DOC_0**:Dynamic Over Clocking pin: real time frequency selection 0: Normal; 1: Frequency will transition to a preprogrammed value in the I2C.



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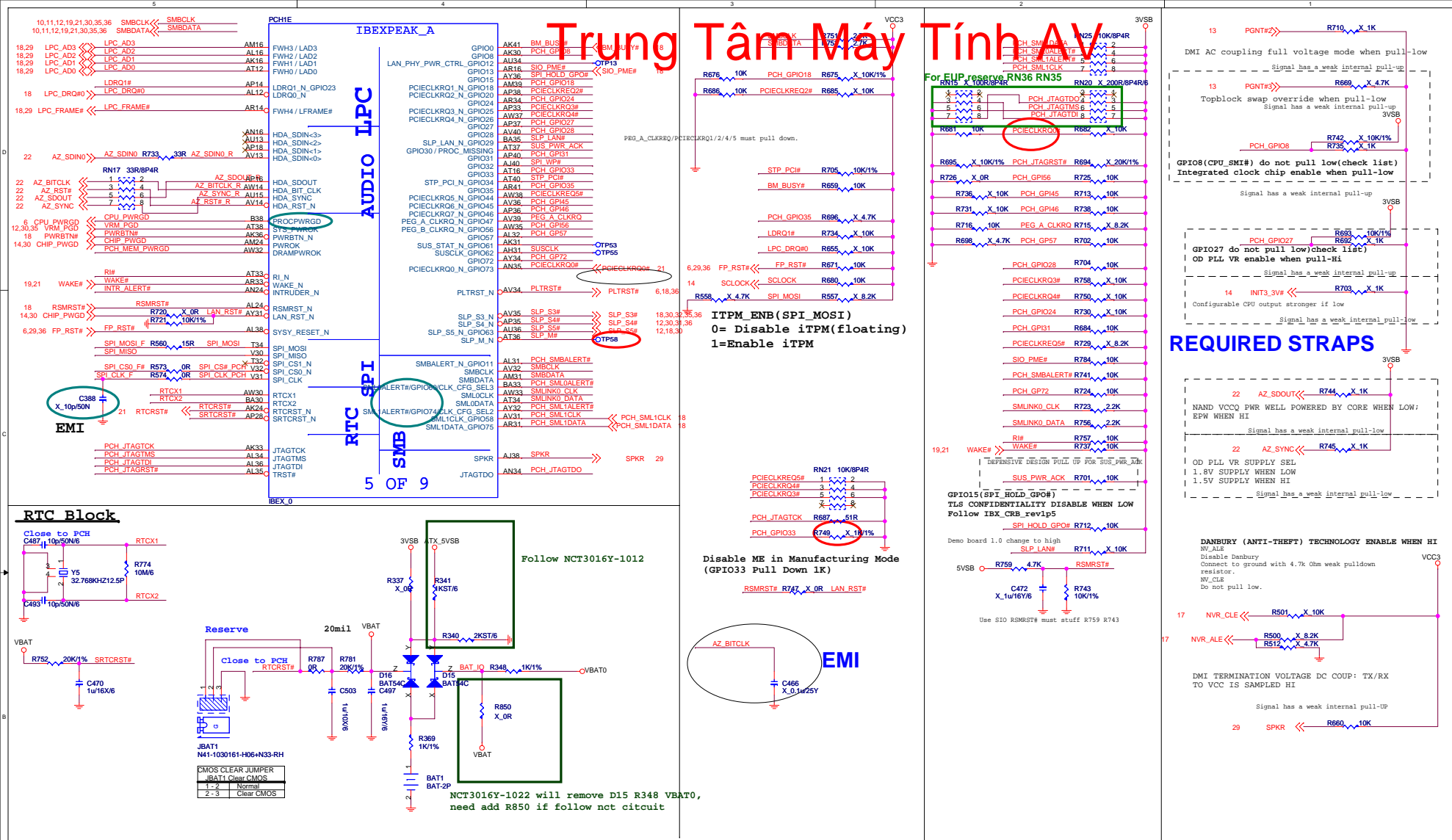
MS-7636

Size Custom	Document Description CLK ICS9LRS4105B	Rev 1.0
Date: Wednesday, October 28, 2009		Sheet 12 of 38


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HPD:hot plug detect
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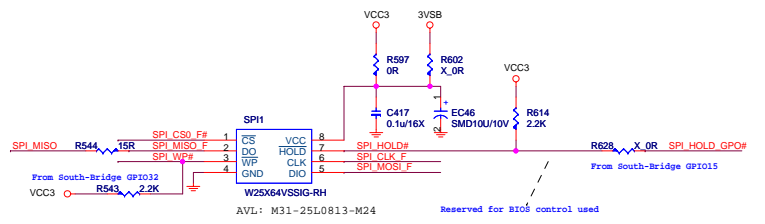


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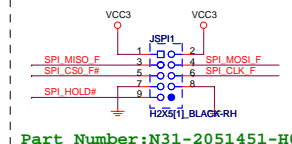
SPI FLASH ROM

Place close to SB.



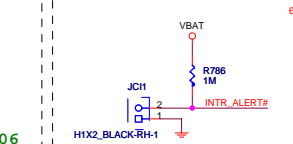
SPI DEBUG PROT

Close to SPI ROM

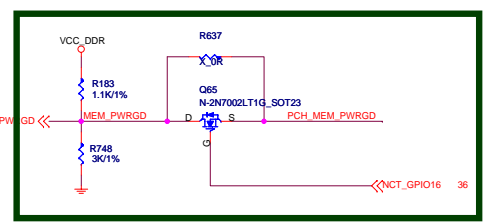


Chassis Intrusion

Close to SPI ROM



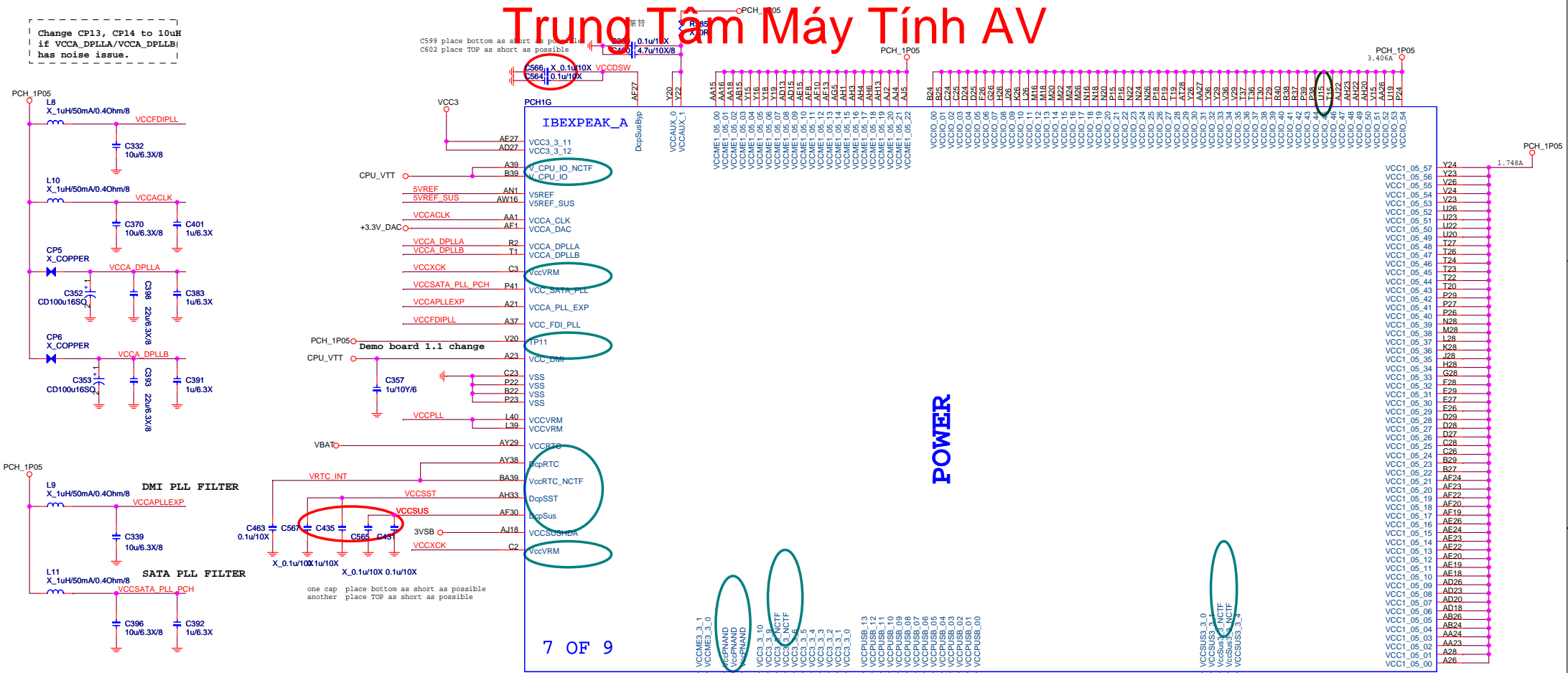
NCT3016 update--2009.10.21



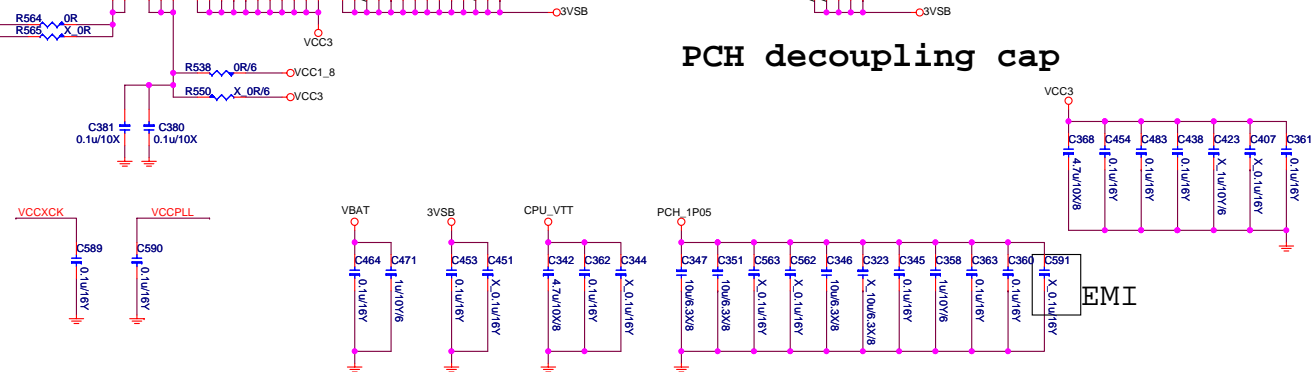
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MS-7636			
Size	Document Description	Rev	
1	MS-7636-PEAK-SMB/LPC/AUDIO/RTC	1.0	
Date	File	Doc	Sheet
2009	15	15	38

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```
| Change CP13, CP14 to 10uH
| if VCCA_DPLL/VCCA_DPLLB|
| has noise issue.      |
```

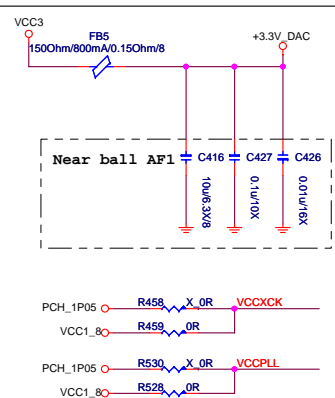
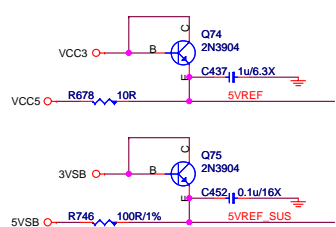


PCH decoupling cap

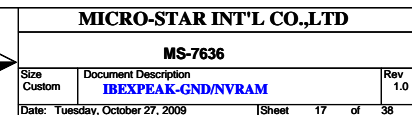
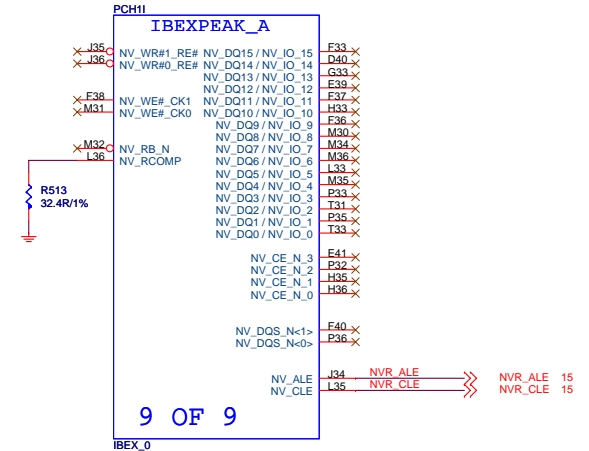


5VREF & 5VREF_SUS Sequencing Circuit

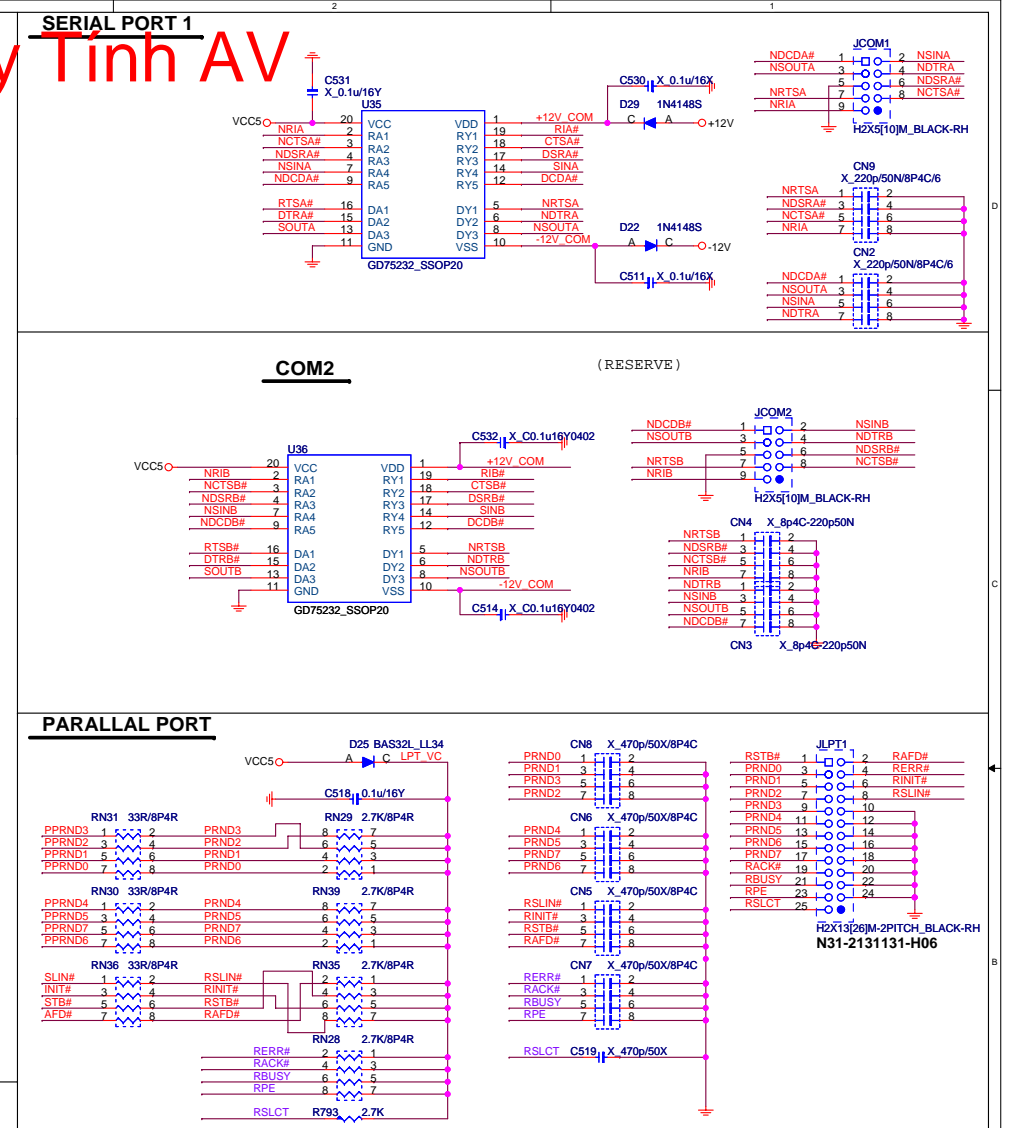
V5REF must be powered up before VCC3 or after VCC3 within 0.7V. Also, V5REF must power down after VCC3 or before VCC3 within 0.7V. This rule is also applies to V5REF_SUS and 3VSB. However, the 3VSB is derived from the 5VSB on the power supply thru a voltage regulator and therefore, they can satisfy the requirement.



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HW Monitor - Thermal

If you do not use the floppy, please pull-up these pin to VCC3V.

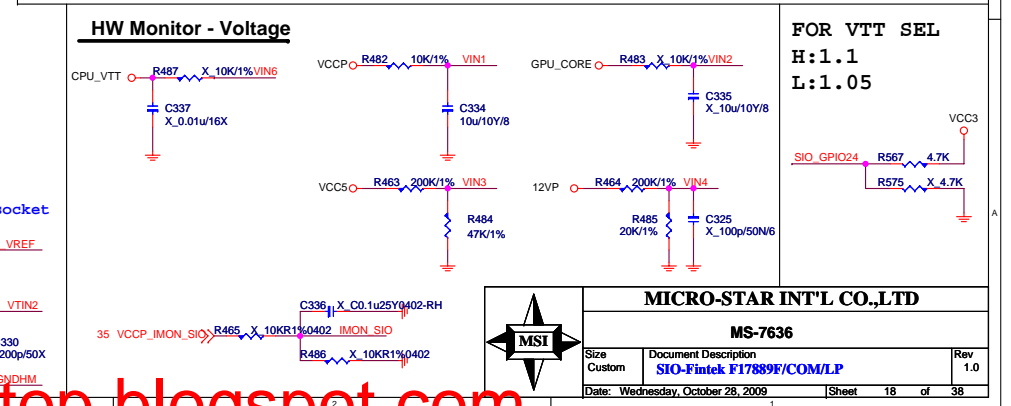
Pin configurations and pull-up resistors:

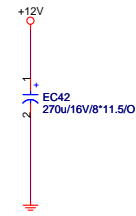
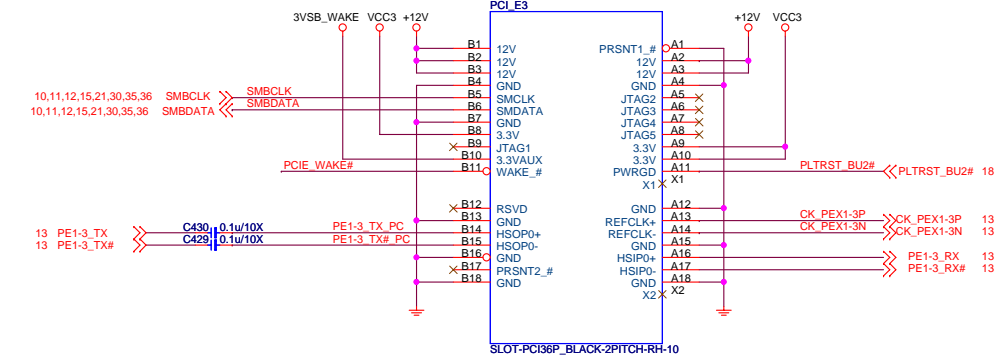
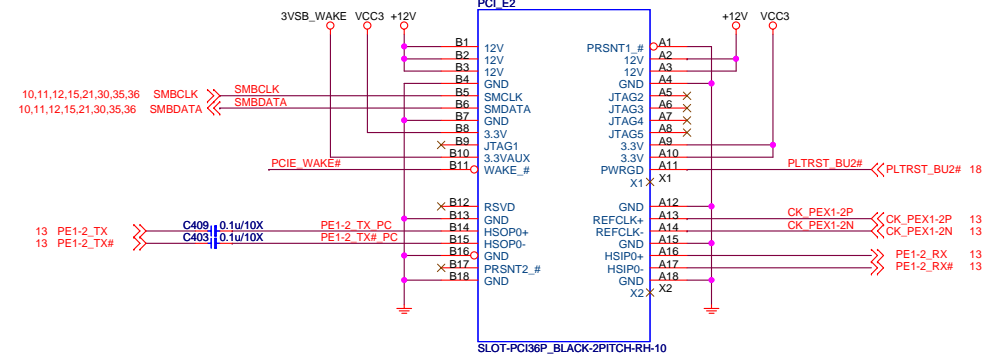
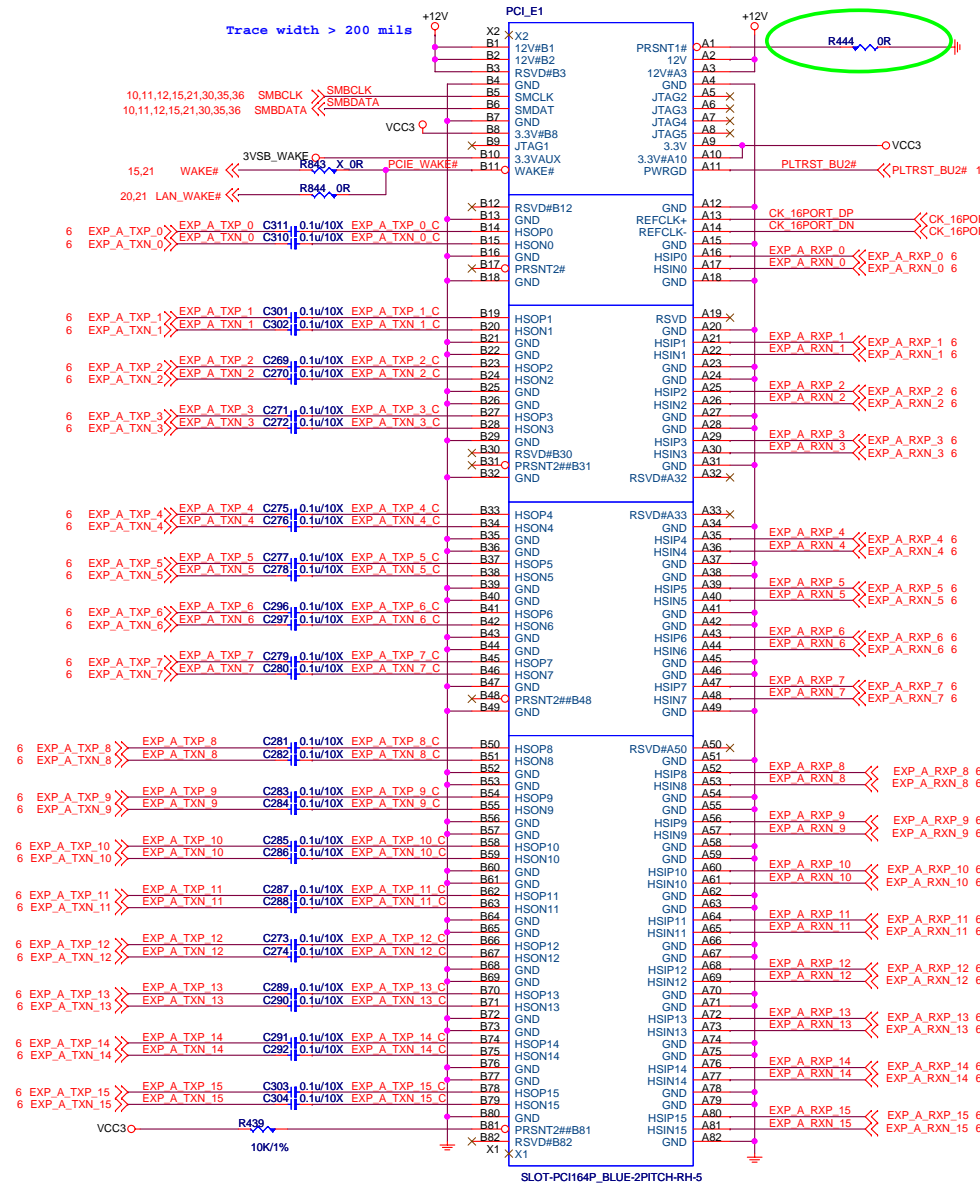
- DSKCHG# 1 \rightarrow 2 (RN14 1K8P4R)
- FDD WP# 3 \rightarrow 4
- TRACK0# 5 \rightarrow 6
- RDATA# 7 \rightarrow 8
- INDEX# R654 1K1%

Thermal Monitor Circuit Diagrams:

- HM VREF** circuit: R471 (10K/1%), RT4 (10K/NTC/1%/6), C326 (2200p/50X), GNDHM, VTIN1.
- HM VREF** circuit: R480 (10K/1%), RT6 (10K/NTC/1%/6), C385 (2200p/50X), GNDHM, VTIN3.
- HM** circuit: R489 (X_10K/1%), RT5 (X_10K/NTC/6), C2 (2200p/50X), GNDHM, VTIN1.

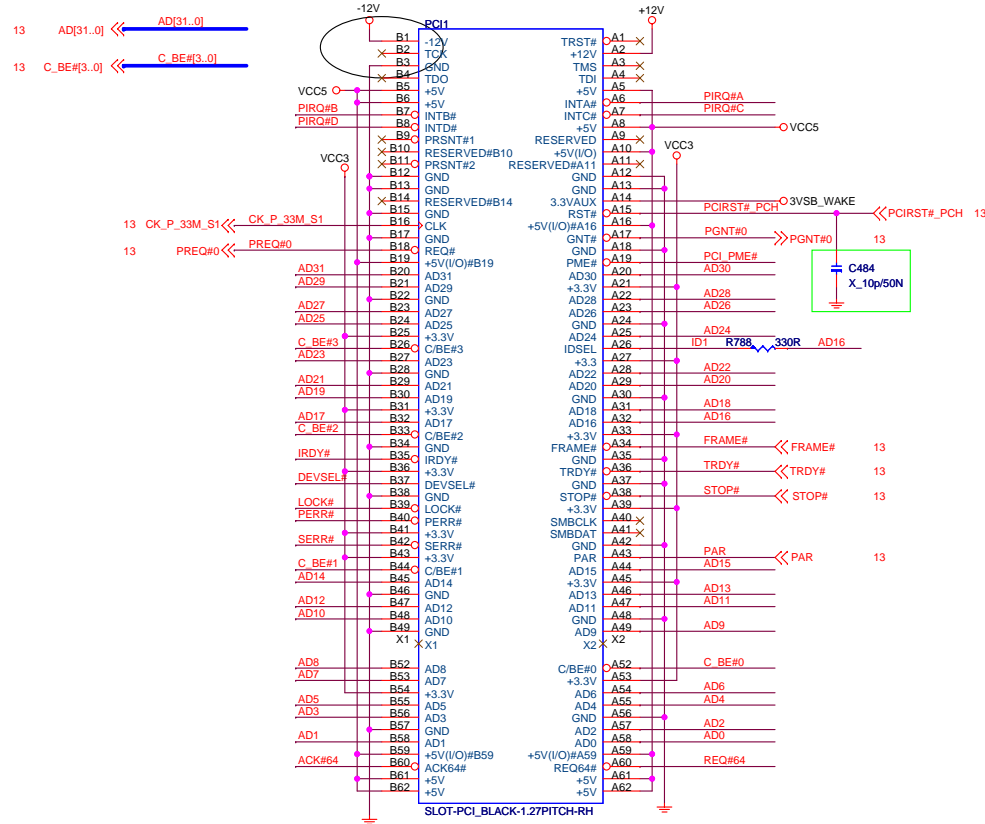
Other components shown: Q62 P-3906, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ.





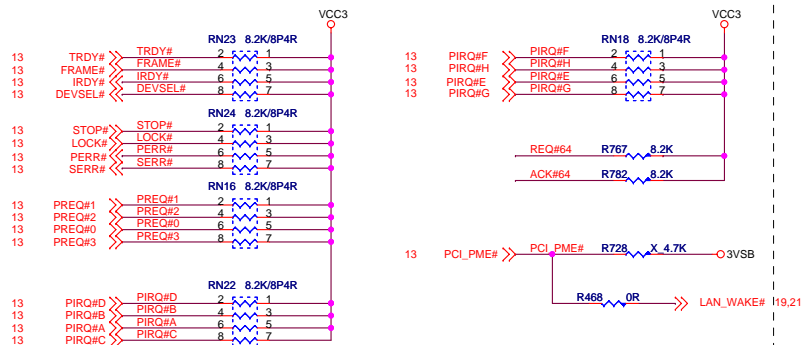
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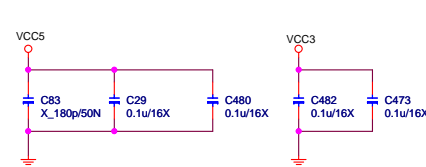


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MASTER = PREQ#0
PIRQ#A

PCI PULL-UP / DOWN RESISTORS



PCI SLOT DECOUPLING CAPACITORS

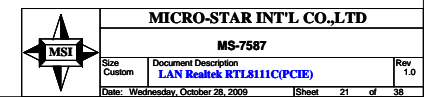


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MS-7636

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Custom	PCI Slot	1.0
Date: Tuesday, October 27, 2009	Sheet 20 of 38	

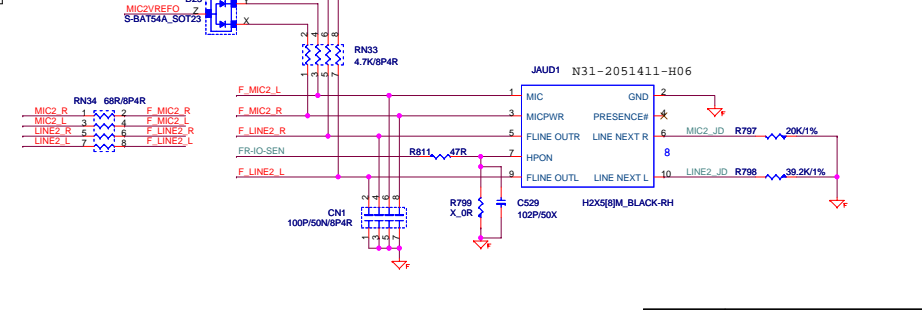
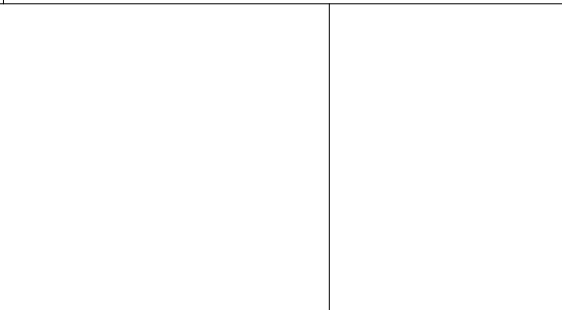
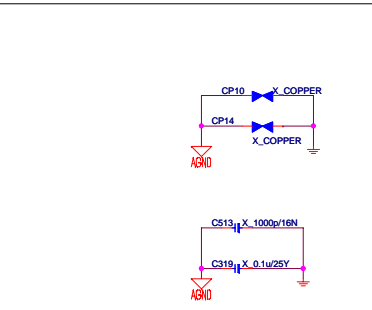
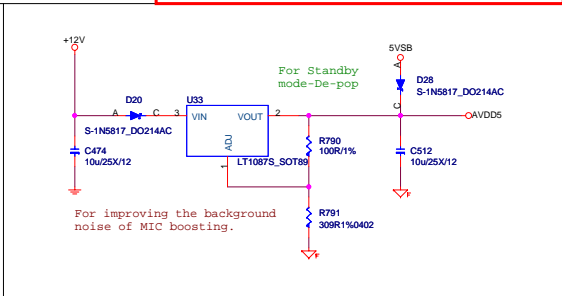
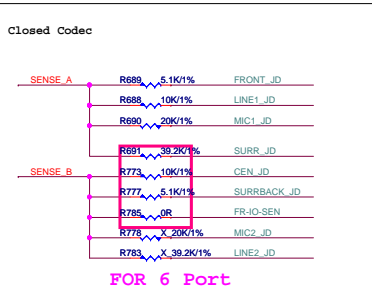
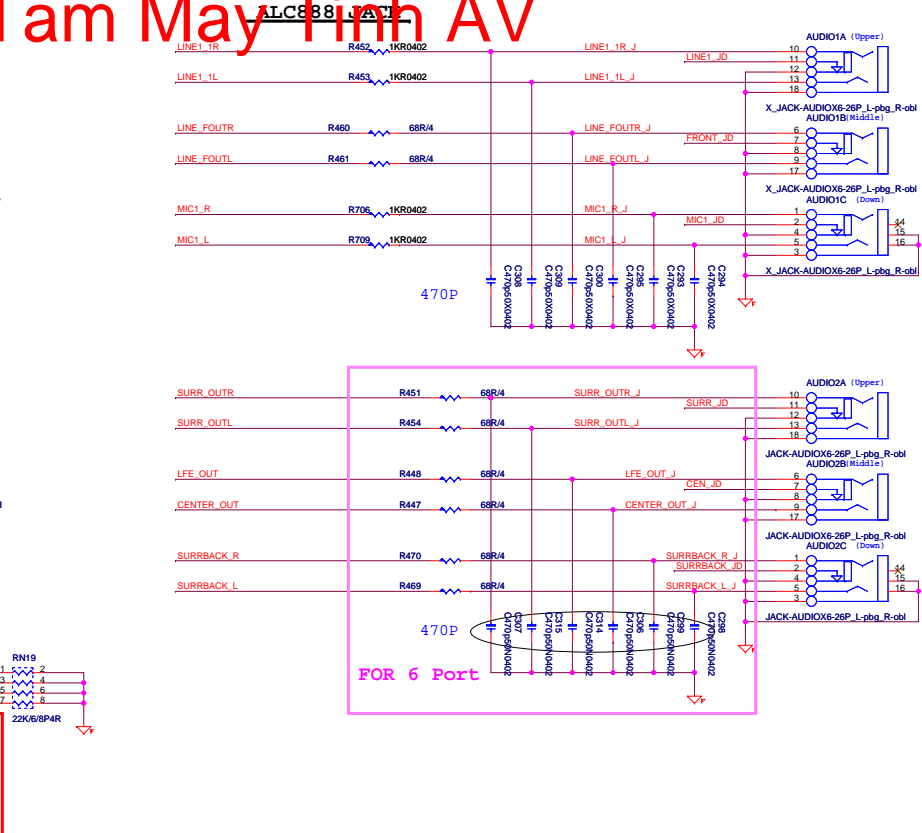
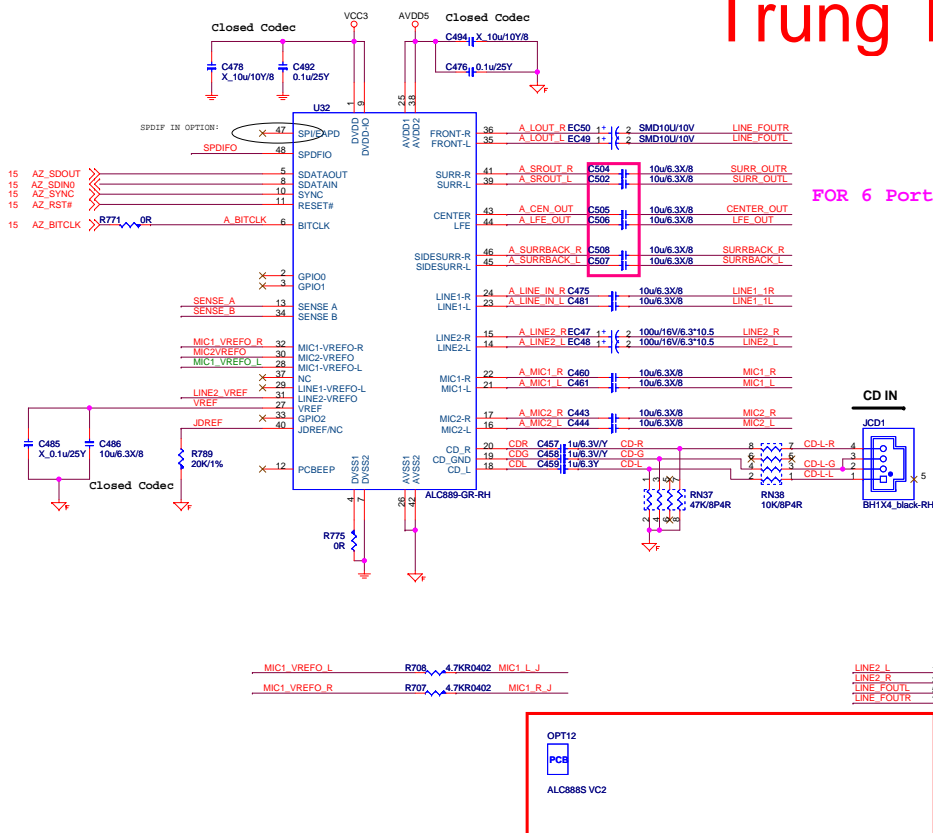
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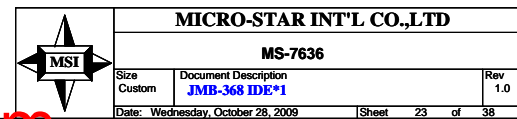
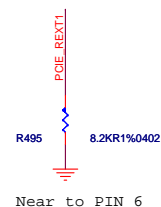
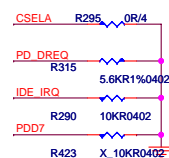
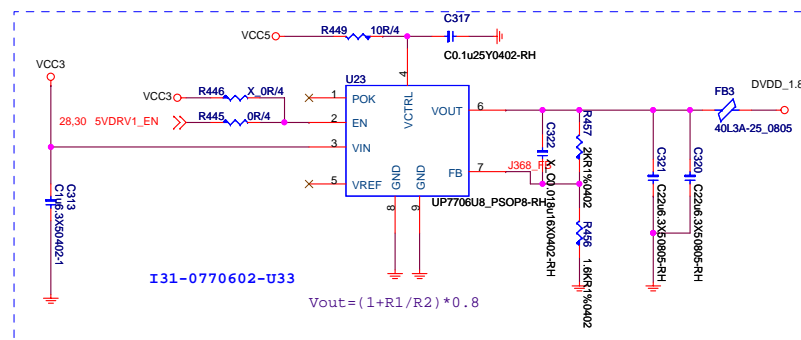
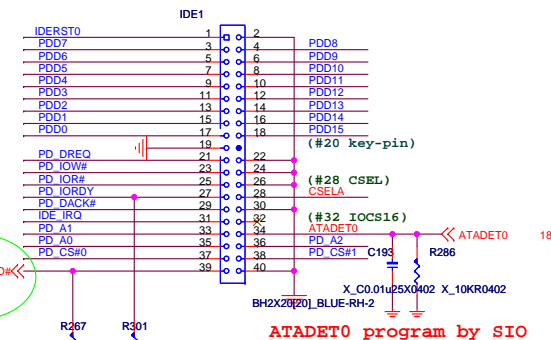
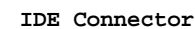
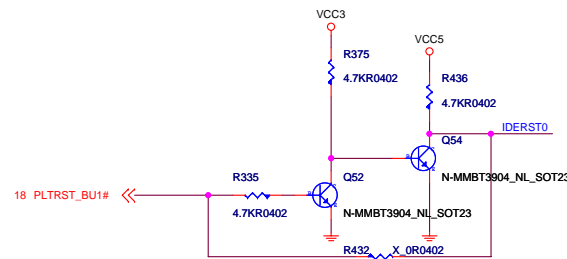
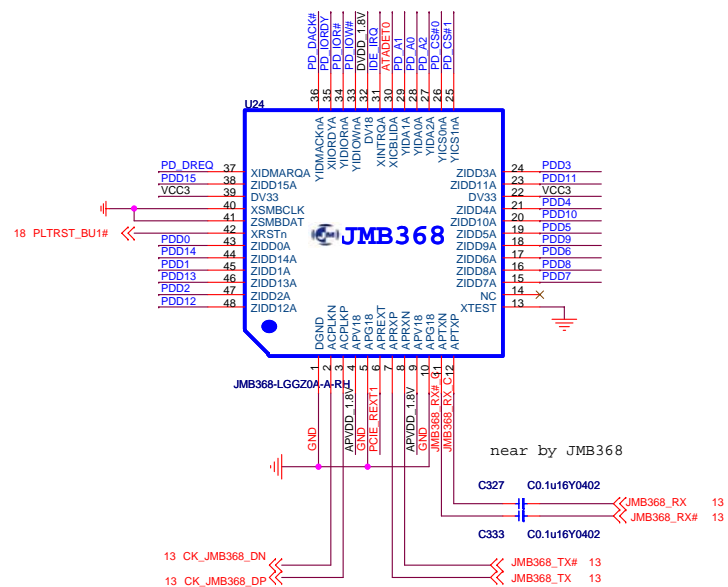
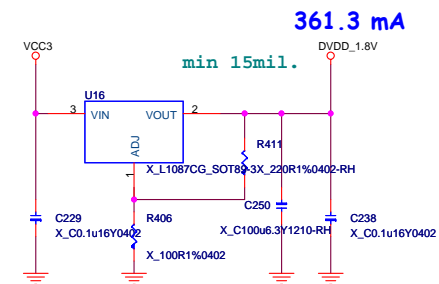
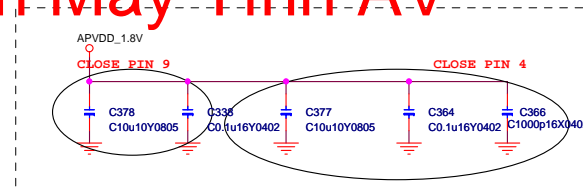
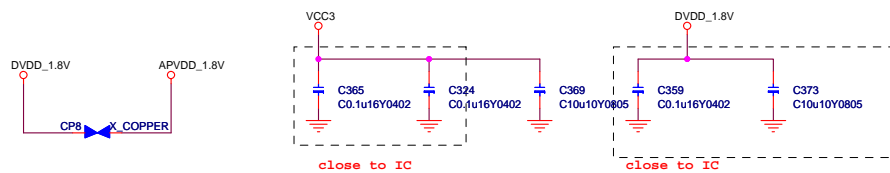
Stuff For

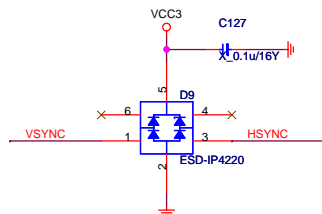
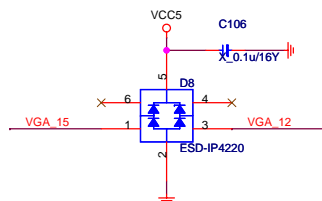
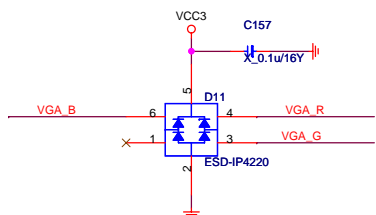
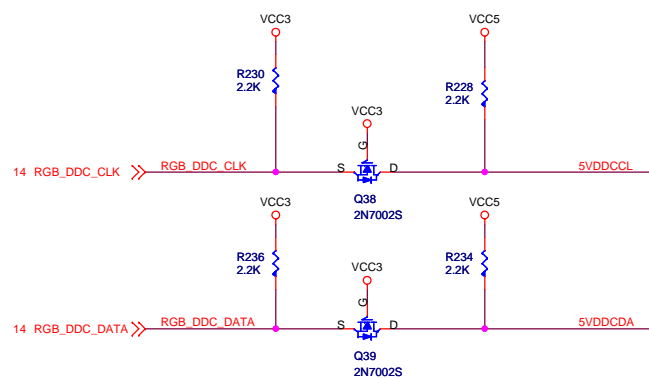
Dual Lan
S0 : 0.5A X 2=1A
S3 : 50mA X 2=100mA

Trung Tâm Máy Tính AV

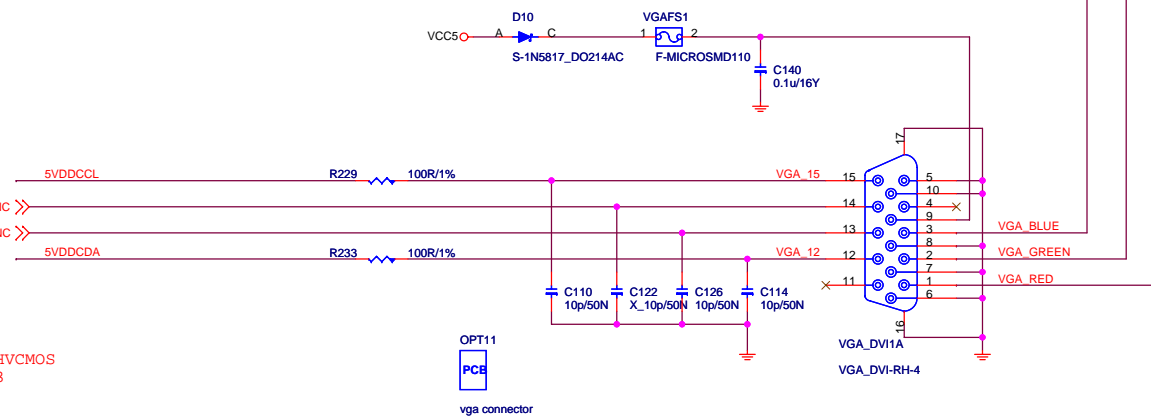
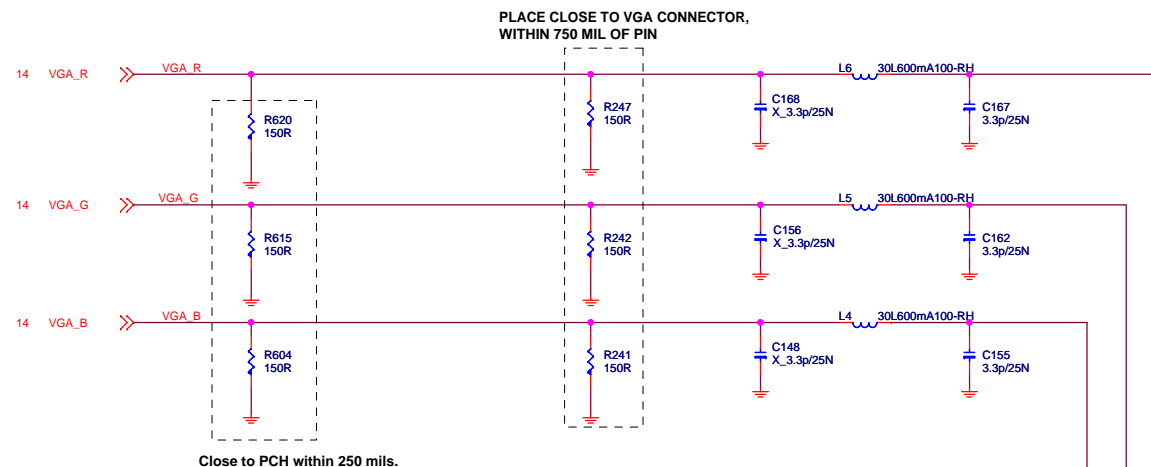


Trung Tâm Máy Tính AV



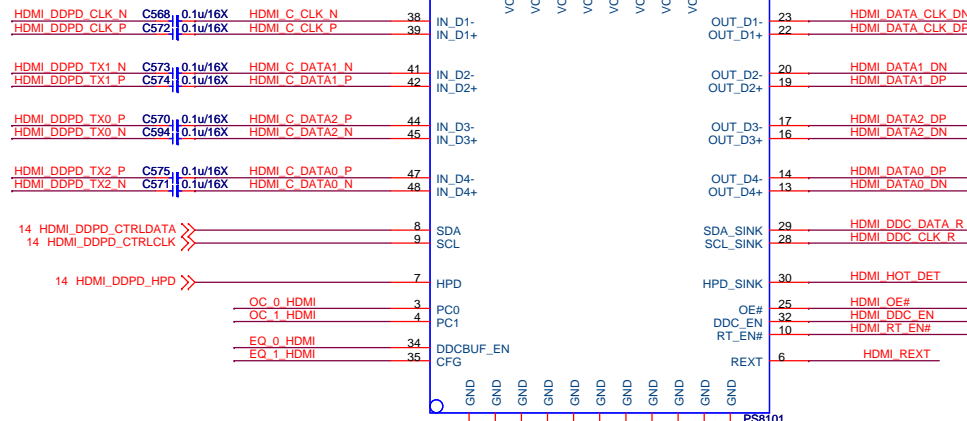
Level shift

VSYNC/HSYNC:HVC MOS
CRB pull VCC3

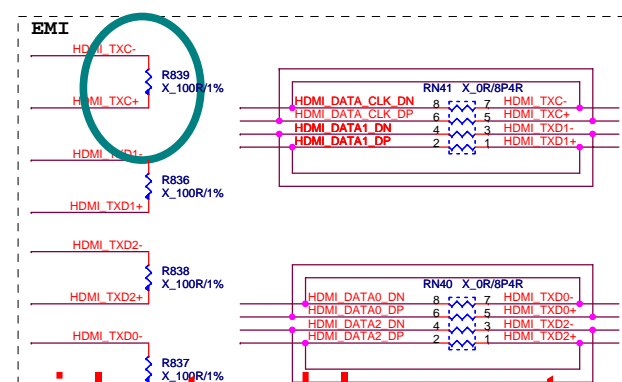
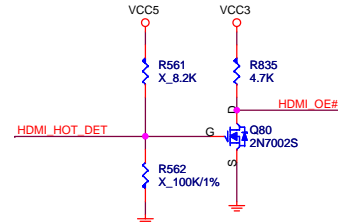
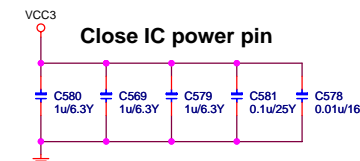
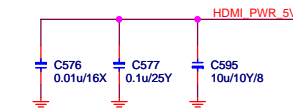
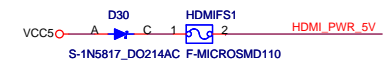
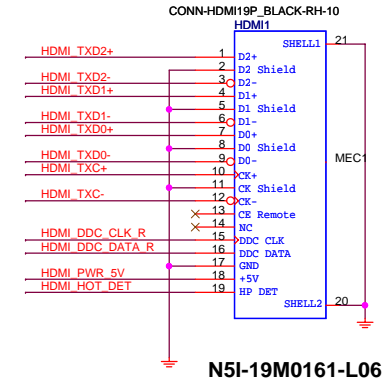
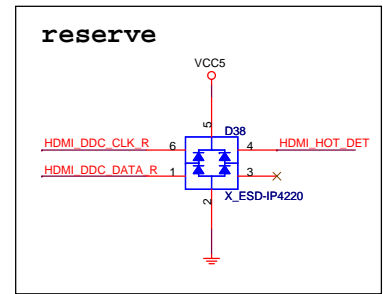


HDMI level shifter

Trung Tâm Máy Tính AV



PERICOM 腹:BOB-411LS2C-P22.
PARADE 腹:BOB-081010C-P97.



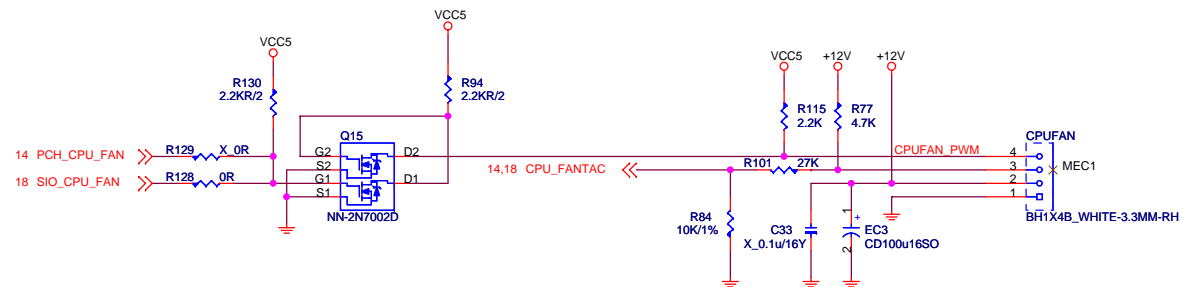
	"0"	"1"	note
DDC_EN	DDC level shifter disable	DDC level shifter enable	internal pull-up at ~500K ohm.
RT_EN#	Input 50 ohm termination resistor enable	the input termination ; resistors are set to high impedances	internal pull-down at ~500K ohm.
OE#	enable	the chip is power down and input termination resistors will be at high impedance.	internal pull-down at ~500K ohm.
HPD_SINK	disable	enable	internal pull-down at ~200K ohm; 5V tolerant.
DDCBUF_EN	For DDC level shifting configuration, please refer to Table.		internal pull-down at ~500K ohm.
REXT			analog current generation.

[DDC_EN, DDCBUF_EN, OE#]	DDC Passive Switch	DDC Active Buffer	PC1, PC0	note
1, 0, X	On	Off	00	8 dB
1, 1, 0	Off	On	01	4 dB
1, 1, 1	Off	Off	10	12 dB
0, X, X	Off	Off		

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MS-7587
 Size Custom | Document Description **HDMI** | Rev 08
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Trung Tâm Máy Tính AV



MS-7636

Size Custom	Document Description SATA & e-SATA Ports and Fan Control	Rev 1.0
Date: Wednesday, October 28, 2009		Sheet 27 of 38

Pin connection diagram for the USB module:

- Top Connector (RN6):**
 - USB4+ (red) to Pin 1 (blue)
 - USB4- (blue) to Pin 3 (blue)
 - USB5+ (red) to Pin 5 (blue)
 - USB5- (blue) to Pin 7 (blue)
- Bottom Connector (L3):**
 - USB5- (blue) to Pin 8 (blue)
 - USB4- (blue) to Pin 7 (blue)
 - USB4+ (red) to Pin 6 (blue)
 - USB5+ (red) to Pin 5 (blue)
- Other Pins:**
 - X_CM (blue) is shown at the bottom.

UP7533A, SOT23-8
NEAR CONNECTOR

U8

1 2 3 4 5 6 7 8

VCC5V0 5VSB

5VDRV1_EN

OC6_C

USB_MODE

VOUT

VOUT

C81 X.0.1

Closed Pin2
C81 10u/10V

Diagram illustrating the USB13-12D0 connector pinout. The connector has 12 pins, with the following internal wiring connections:

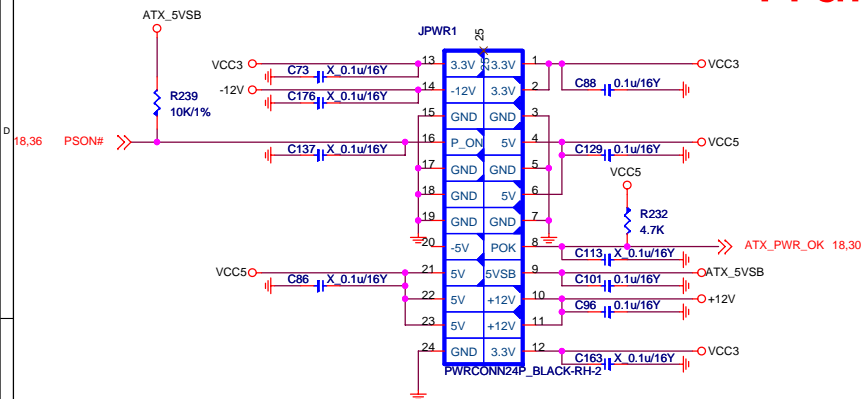
- Pin 1 (RNS):** Connected to USB13+.
- Pin 2 (RNS):** Connected to USB13-.
- Pin 3 (RNS):** Connected to USB13-.
- Pin 4 (RNS):** Connected to USB12+.
- Pin 5 (OR/8P4R/6):** Connected to USB12-.
- Pin 6 (OR/8P4R/6):** Connected to USB12-.
- Pin 7 (OR/8P4R/6):** Connected to USB12-.
- Pin 8 (OR/8P4R/6):** Connected to USB12-.
- Pin 9 (X CMC-12-121D0):** Connected to USB12+.
- Pin 10 (X CMC-12-121D0):** Connected to USB12-.
- Pin 11 (X CMC-12-121D0):** Connected to USB13+.
- Pin 12 (X CMC-12-121D0):** Connected to USB13-.

Pin connections for the USB11 module:

- Top Section (RN11 0R/8P4R/6):**
 - USB11 pin 1 connects to module pin 1.
 - USB11 pin 2 connects to module pin 2.
 - USB11 pin 3 connects to module pin 3.
 - USB10 pin 4 connects to module pin 4.
 - USB10 pin 5 connects to module pin 5.
 - USB10 pin 6 connects to module pin 6.
 - USB10 pin 7 connects to module pin 7.
 - USB10 pin 8 connects to module pin 8.
- Bottom Section (L7):**
 - USB10 pin 8 connects to module pin 8.
 - USB10 pin 7 connects to module pin 7.
 - USB10 pin 6 connects to module pin 6.
 - USB10 pin 5 connects to module pin 5.

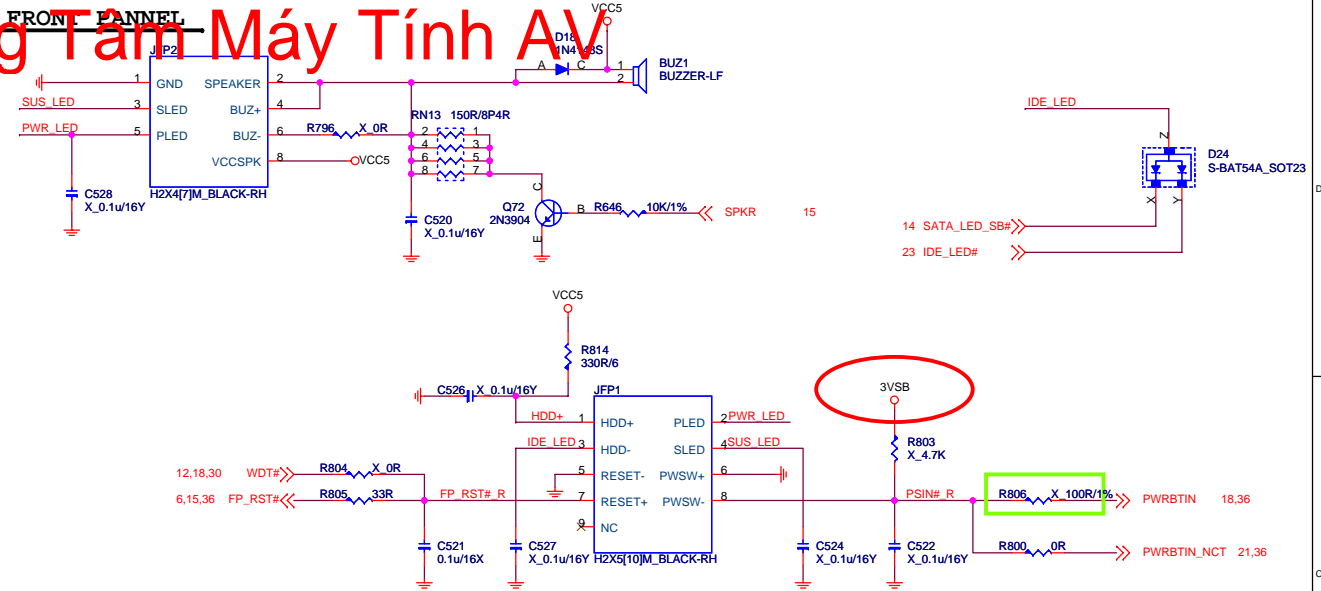
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ATX POWER CONNECTOR



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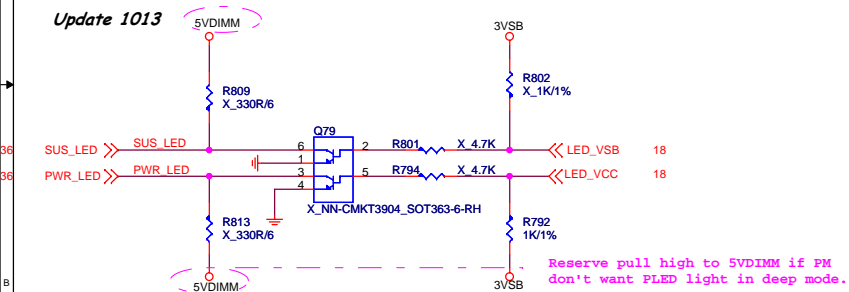
FRONT PANNEL



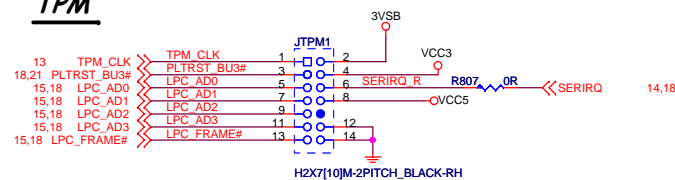
LED (for Fintek 71889)

If use N3016Y LED Ctrl,
SIO LED_VCC / LED_VSB can not to use.

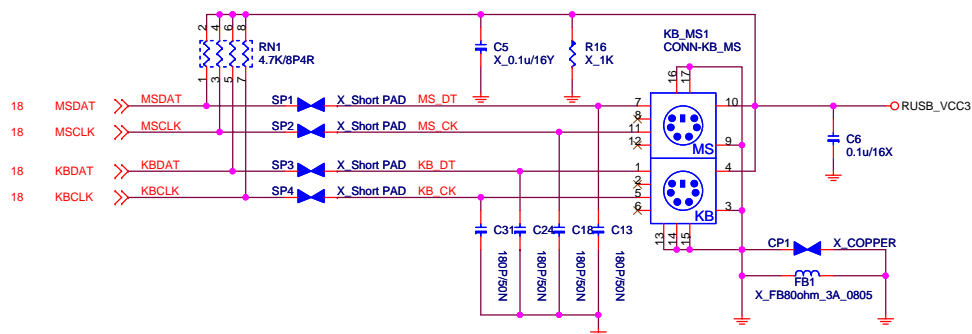
Update 1013



TPM



PS2 KEYBOARD & MOUSE CONNECTOR



MICRO-STAR INT'L CO.,LTD

MS-7636

Size	Document Description	Rev
Custom	ATX PWR-Connector & Front Panel & EMI	1.0
Date: Tuesday, October 27, 2009	Sheet 29 of 38	

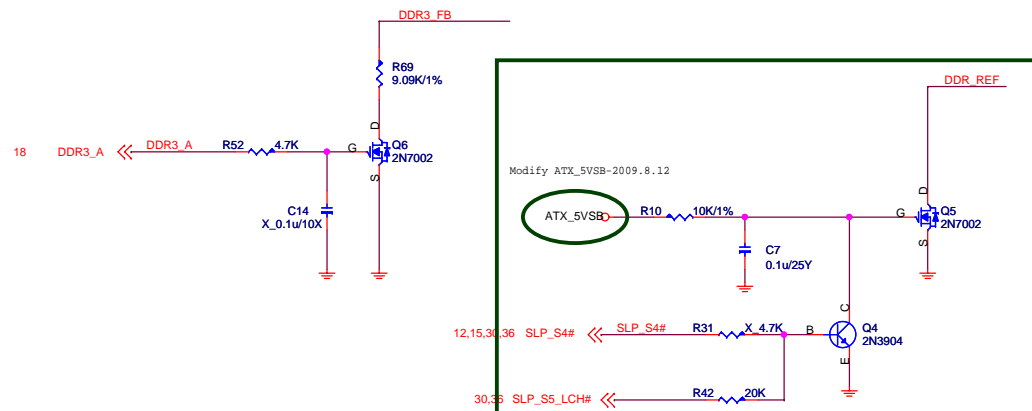
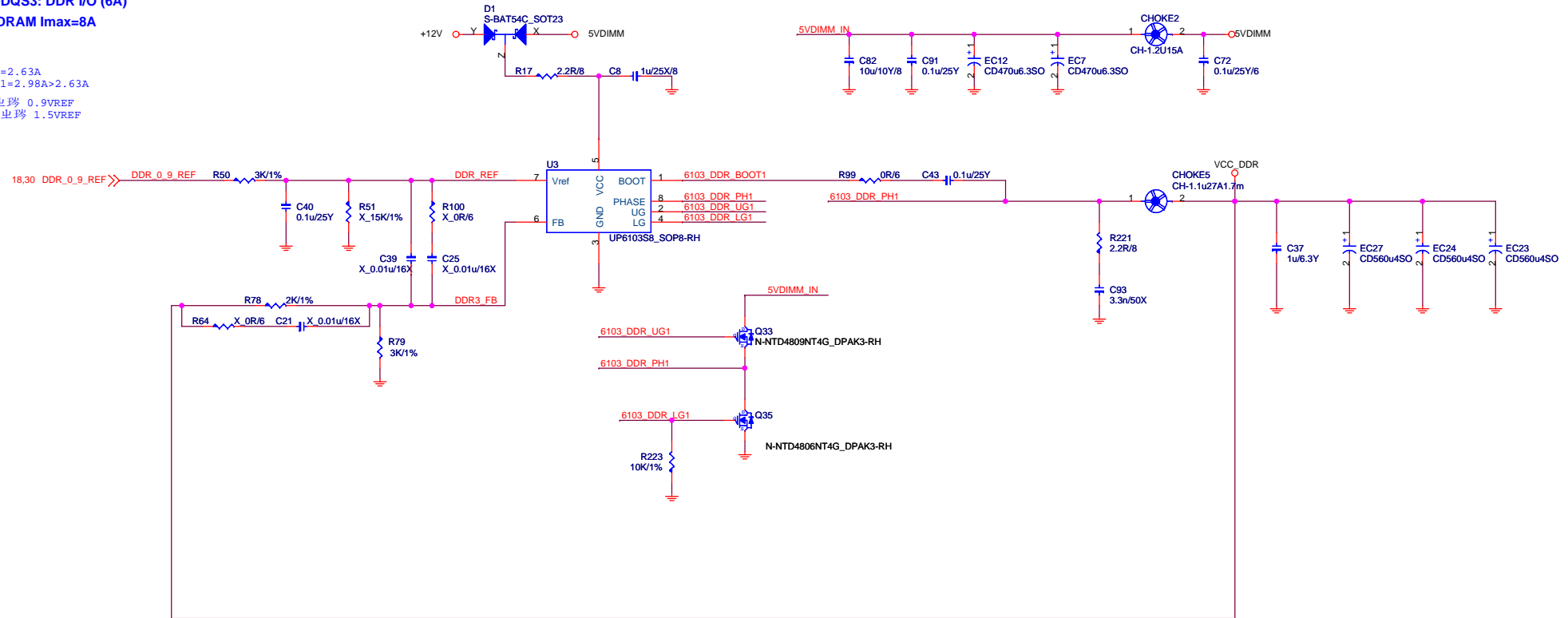
DDR3_1.5V

$$21.25A = 6A + 8A + 0.75A + 6.5A$$

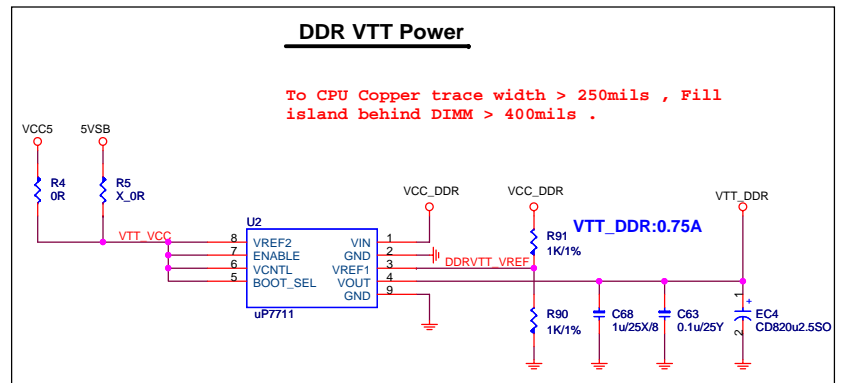
Trung Tâm Máy Tính AV

V1.5DDQS3: DDR I/O (6A)
DDR DRAM I_{max}=8A

Tripple=2.63A
1.49*2*1=2.98A>2.63A
SIO 电路 0.9VREF
6264 电路 1.5VREF



Only for meet Intel power down sequence.



DDR VTT Power

To CPU Copper trace width > 250mils , Fill island behind DIMM > 400mils .



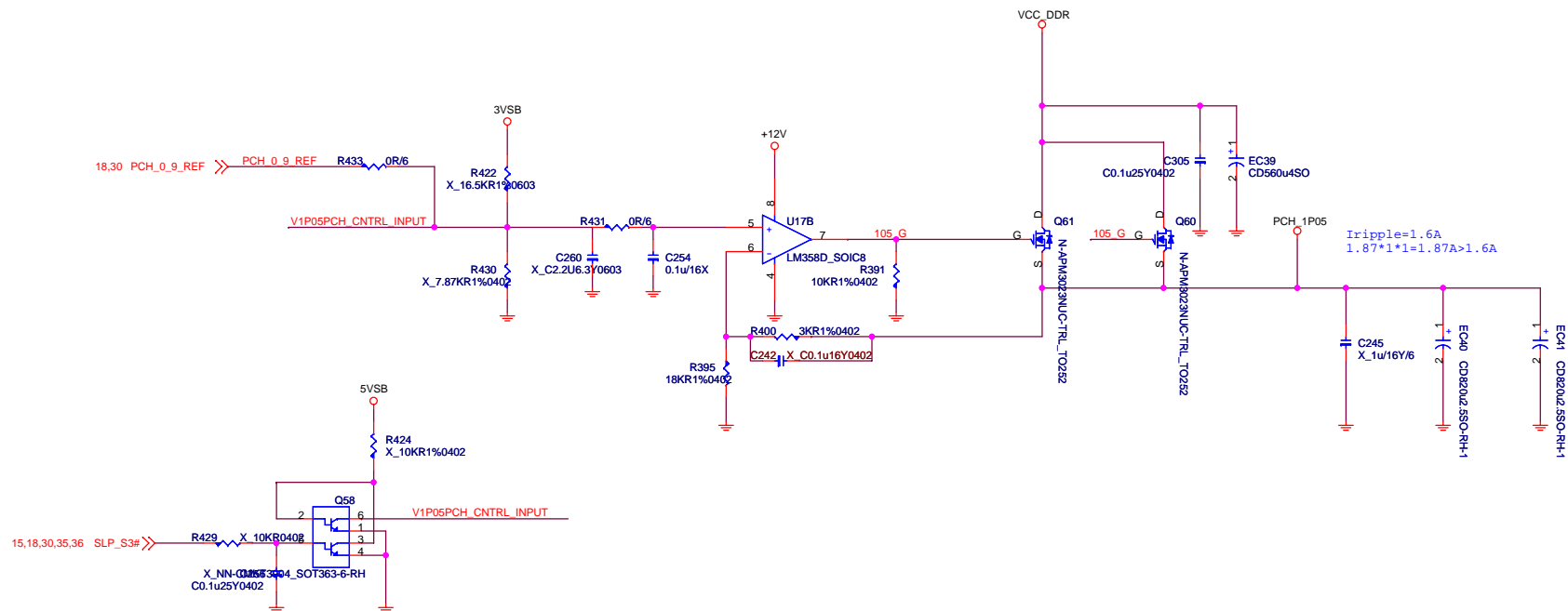
MICRO-STAR INT'L CO.,LTD

MS-7636

Size	Document Description	Rev
Custom	DDR POWER - UPI6103_1-Phase	1.0
Date: Tuesday, October 27, 2009	Sheet 31	of 38

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V1.05PCHS0: Vcc, VccExp, VccDMI, VccSATA,
VccSATAPLL, VccAUPLL, VccSSC, VccDIFFCLK,
VccDIFFCLKN, VccUSBCORE, VccDPLL, VccDPLL_EXP, VccDPLL_FDI (4.5A)
V1.05MEM: VccMEW, VccAUX, VccME (2.3A)



MICRO-STAR INT'L CO.,LTD

MS-7636

Size Custom	Document Description PCH POWER - UPI6103_1-Phase	Rev 1.0
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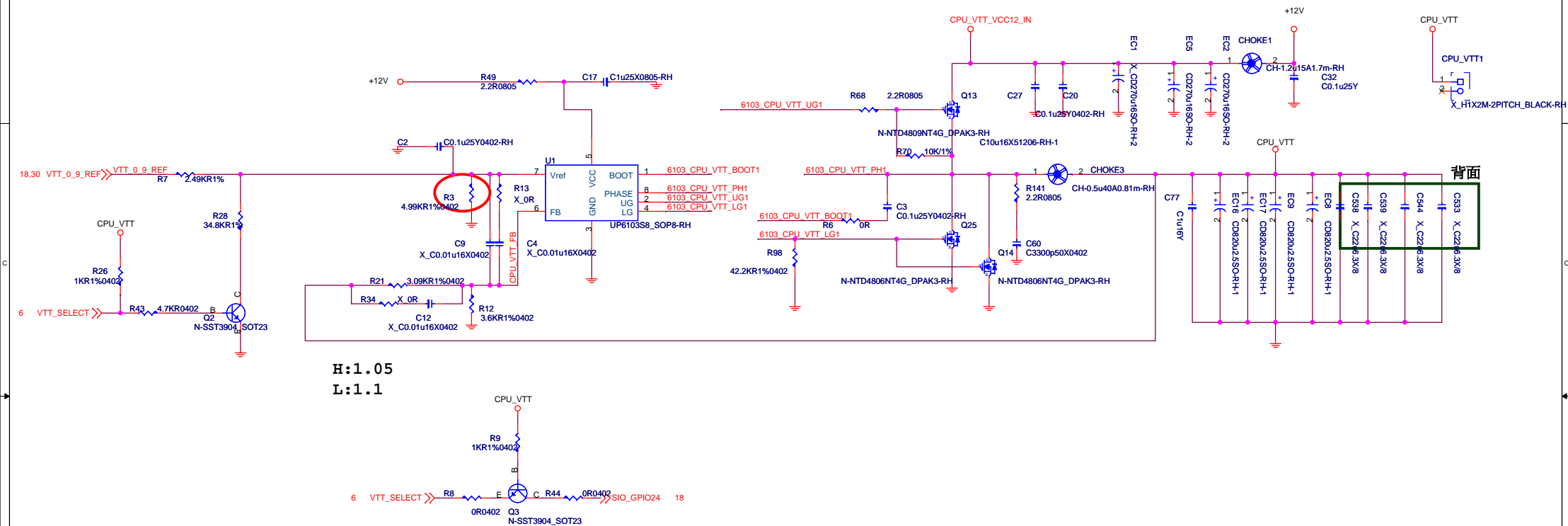
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Trung Tâm Máy Tính AV

CPU VTT

VTTS0: 1.1V/1.05V CPU Uncore, MCP I/O

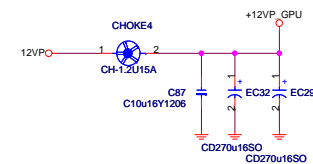
(30A)


$$I_{ripple} = 8.28A$$
$$6.1 \times 2 \times 1 = 12.2A > 8.28A$$


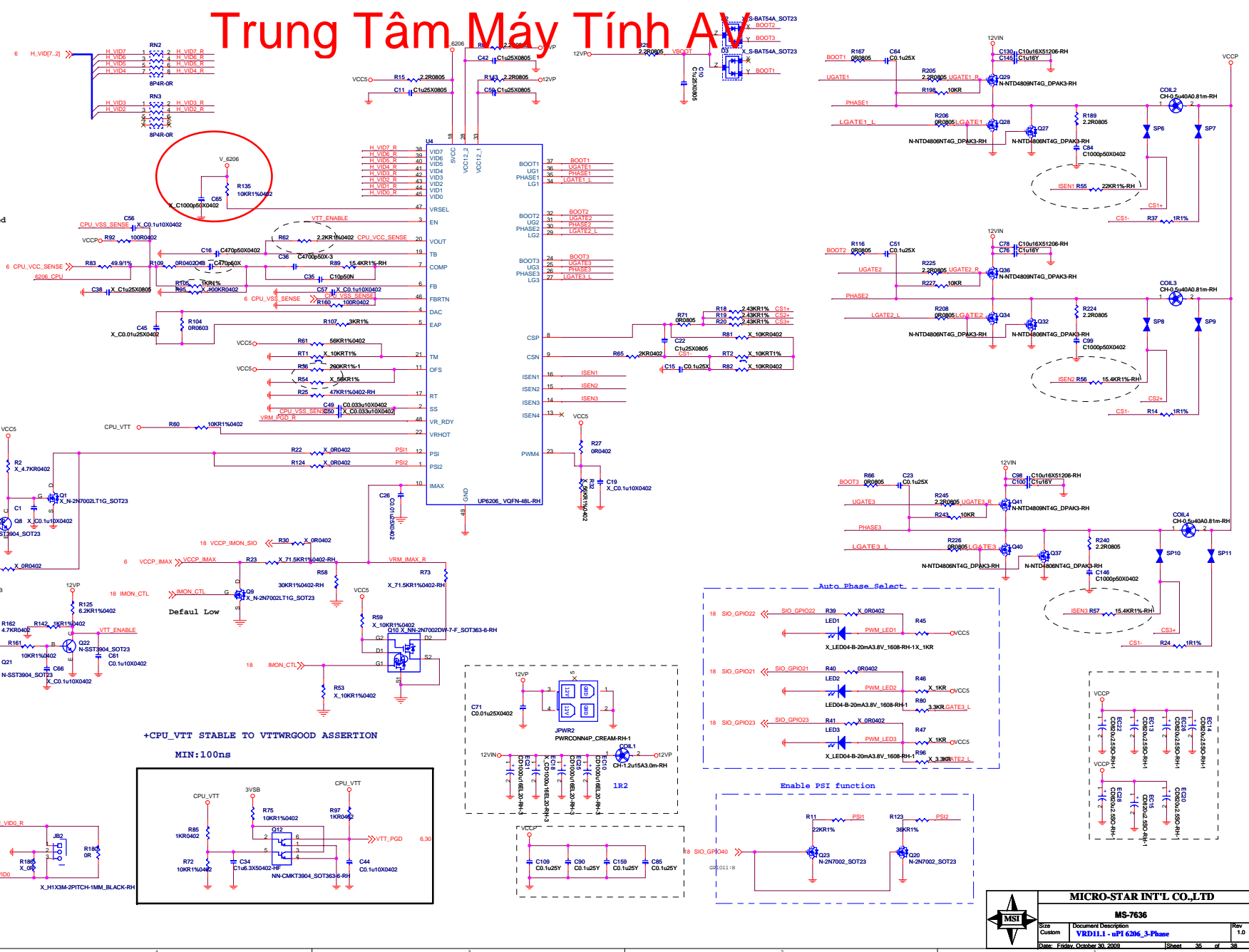
H:1.05

L:1.1

GFX 12V VIN

[illegible]

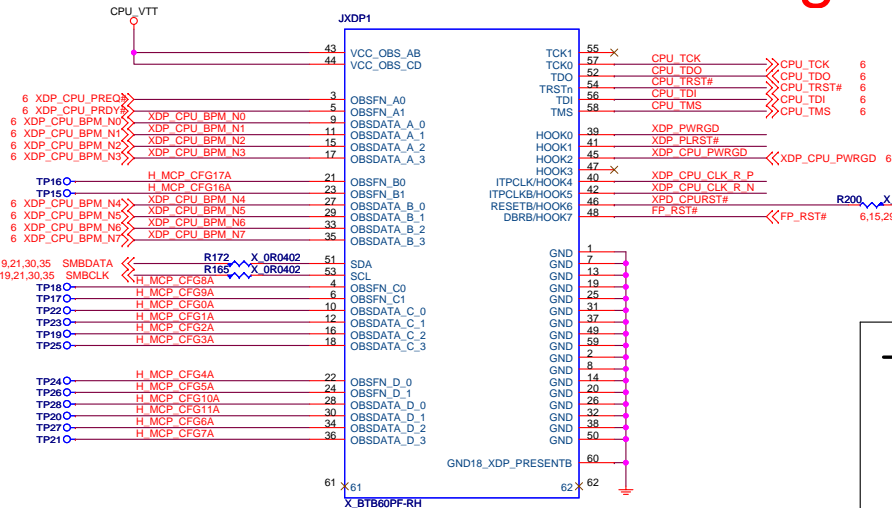
	MICRO-STAR INT'L CO.,LTD		
	MS-7636		
	Size Custom	Document Description GPU PowerISL6117_1-Phase	Rev. 1.
	Date: Tuesday, October 27, 2009	1 Sheet	34 of 34

[illegible]

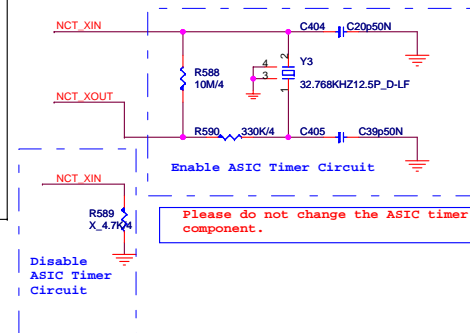
Trung Tâm Máy Tính AV

Reserve debug port 5020

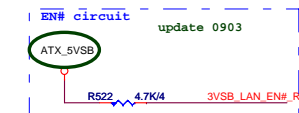
CPU XDP CLOCK



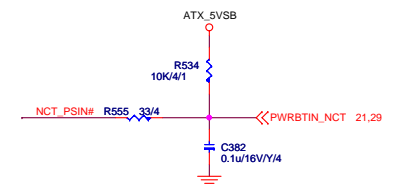
ASIC Timer Clock



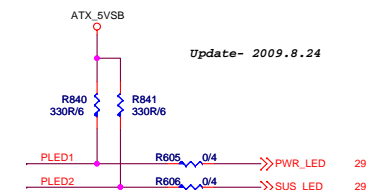
EN#/VSB Discharge



PANEL SWITCH



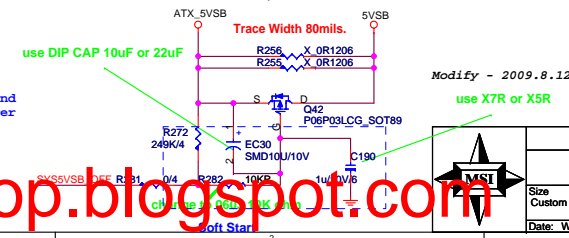
N3016Y Power LED Control



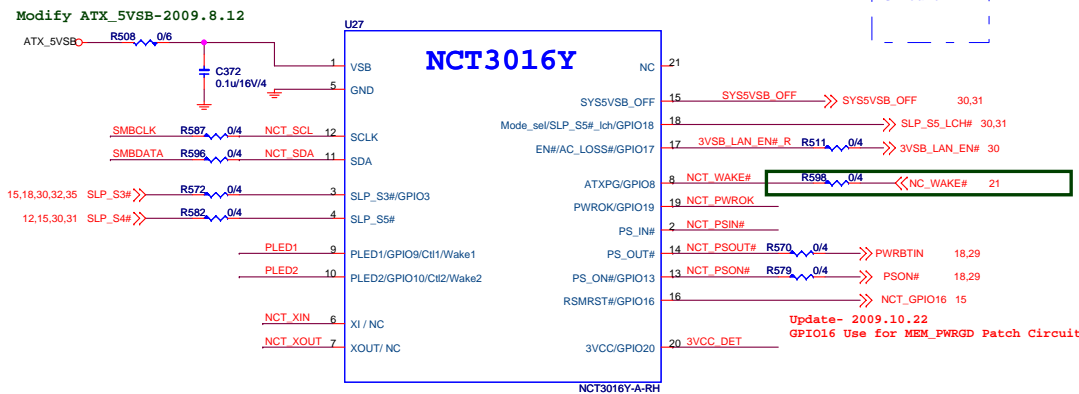
NCT_GPIO16

- Power On
- Hardware default = high
- 1.Set Lock_GPIO_Mode =1
 - 2.Set GPIO16_Data =1
 - 3.Set GPIO16 port as output by open-drain mode
 - 4.Porting GPIO16_Data =0 before system into deep_s3
 - 5.Waiting CPU_PWRGD from low to high and setting GPIO16_Data =1 when resume from deep_s3
- GPIO16 always keep high except for deep_s3

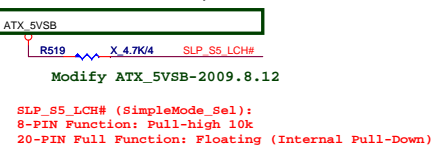
5VSB Power Switch



NCT3016Y



Strapping PIN



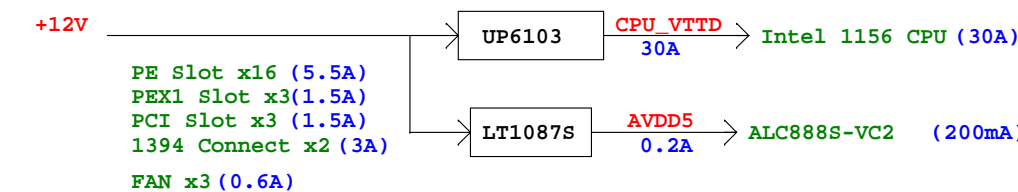
POWER ON STRAPPING PIN

PIN	Name	0	1
18	SimpleMode_Sel	Full function	Simple Mode

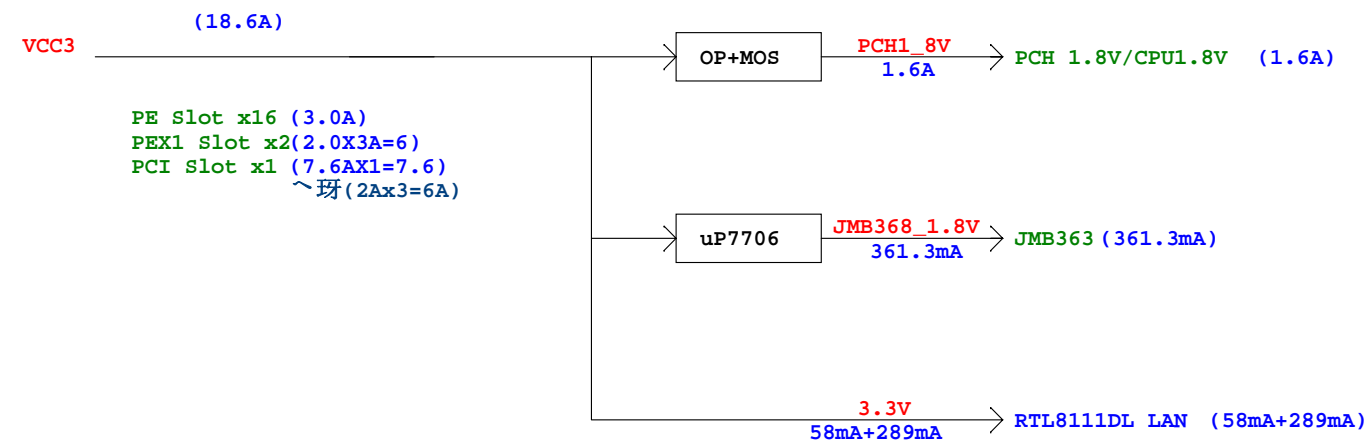
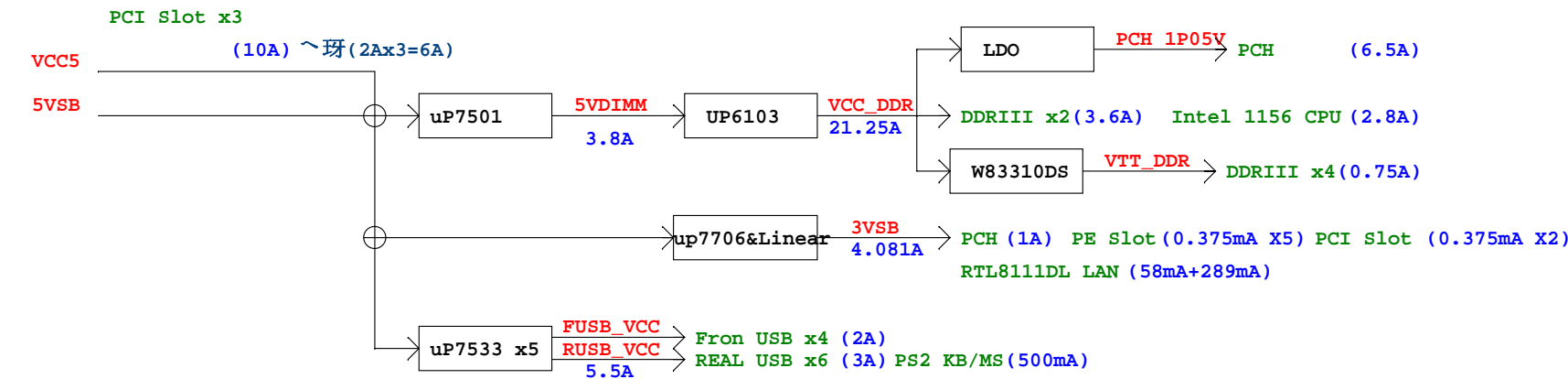
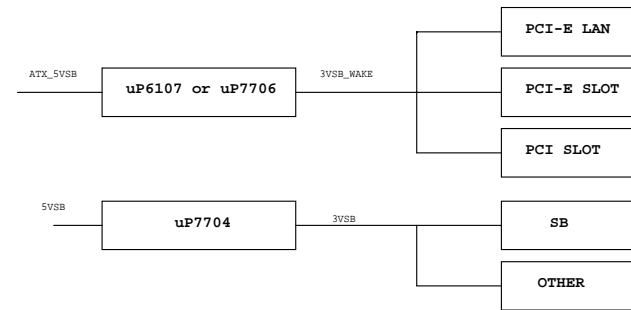
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MS-7636			
Size	Custom	Document Description	CPU XDP
Date:	Wednesday, October 28, 2009	Sheet	36 of 38



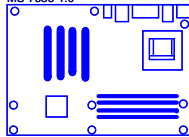
Power Delivery



Trung Tâm Máy Tính AV

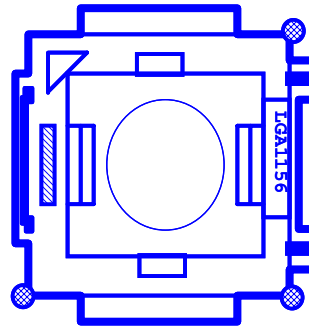
PCB

PCB1
<HP-BOM>
MS-7636-1.0



CPU SOCKET

XU1_X1
<HP-BOM>
CPU SOCKET



HEATPIPE

BATTERY

BAT1_X1



BAT-5CR2032P-RH

HS_PCH1

MEC1

MEC1

MEC1

MEC1

MEC1

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EL CAP

OPT1



X_CD470u6.3V4SO-2

OPT2



X_CD10uF

OPT3



X_CD100uF

OPT4

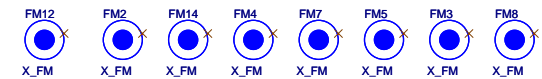


X_CD1000uF

Simulation



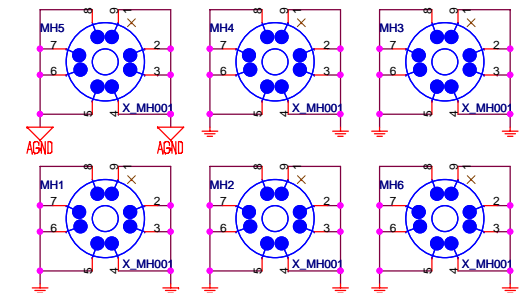
Optical Fiducial Marks-120



Optical Fiducial Marks-100



Mounting Holes



H55EB3:3孔audio (888S VC2) ,GB LAN, OC-switch 不上, DVI,HDMI 不上,
JMB368 不上(IDE 也不上), APS LED 不上 (SW APS) 半固.
H55SG6DVI:Full spec

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MS-7636		
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Custom	Manual & Option parts	1.0
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