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MS-6596 Ver : 4.00

VIA KT400 + VT8235 Chipset

CPU:

AMD Athlon XP / Athlon / Duron Socket 462

System Chipset:

VIA VT8377 (KT400) + VT8235

On Board Chipset:

LPC Super I/O -- W83697HF

Lan : Via PHY VT6103

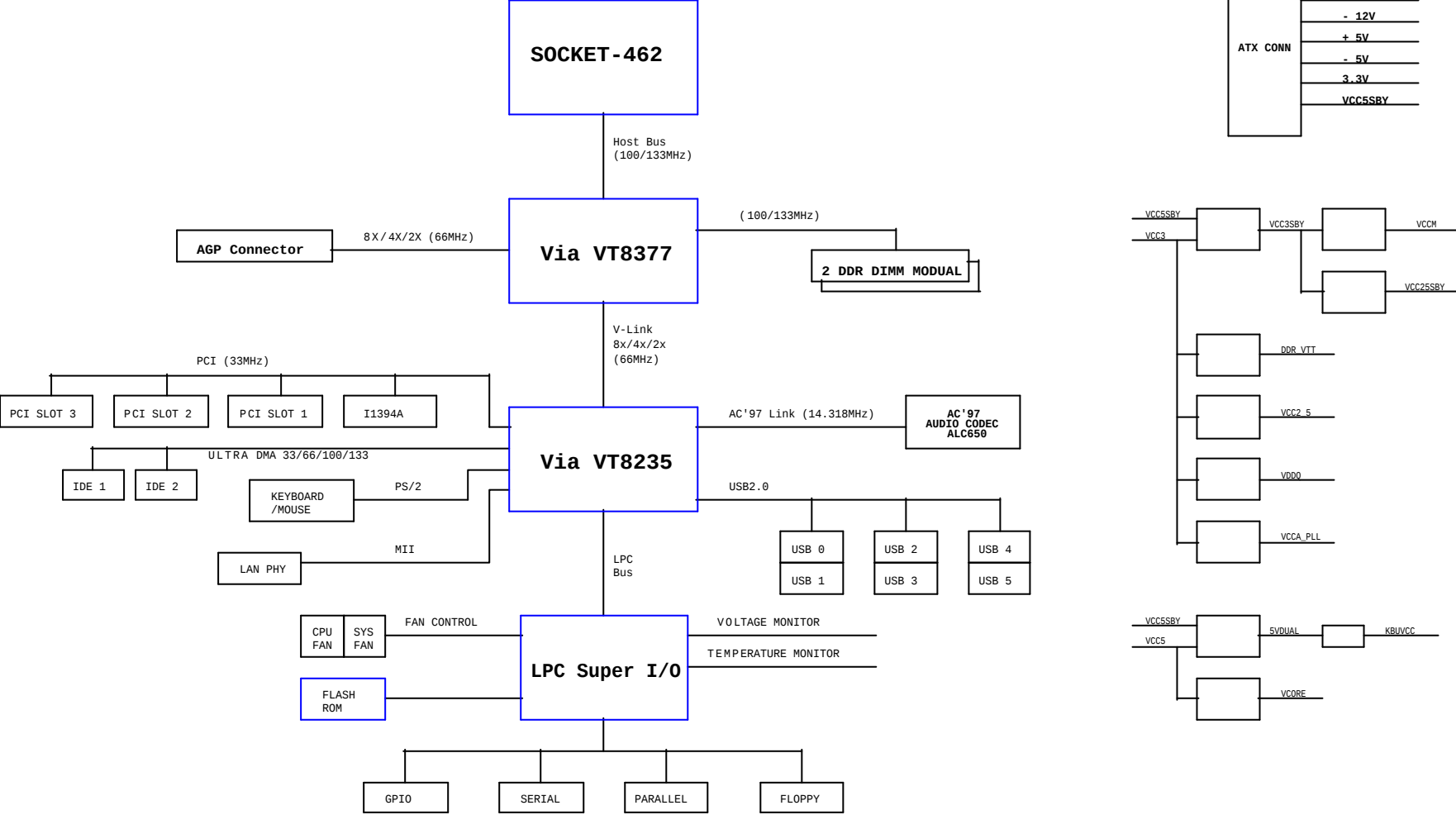
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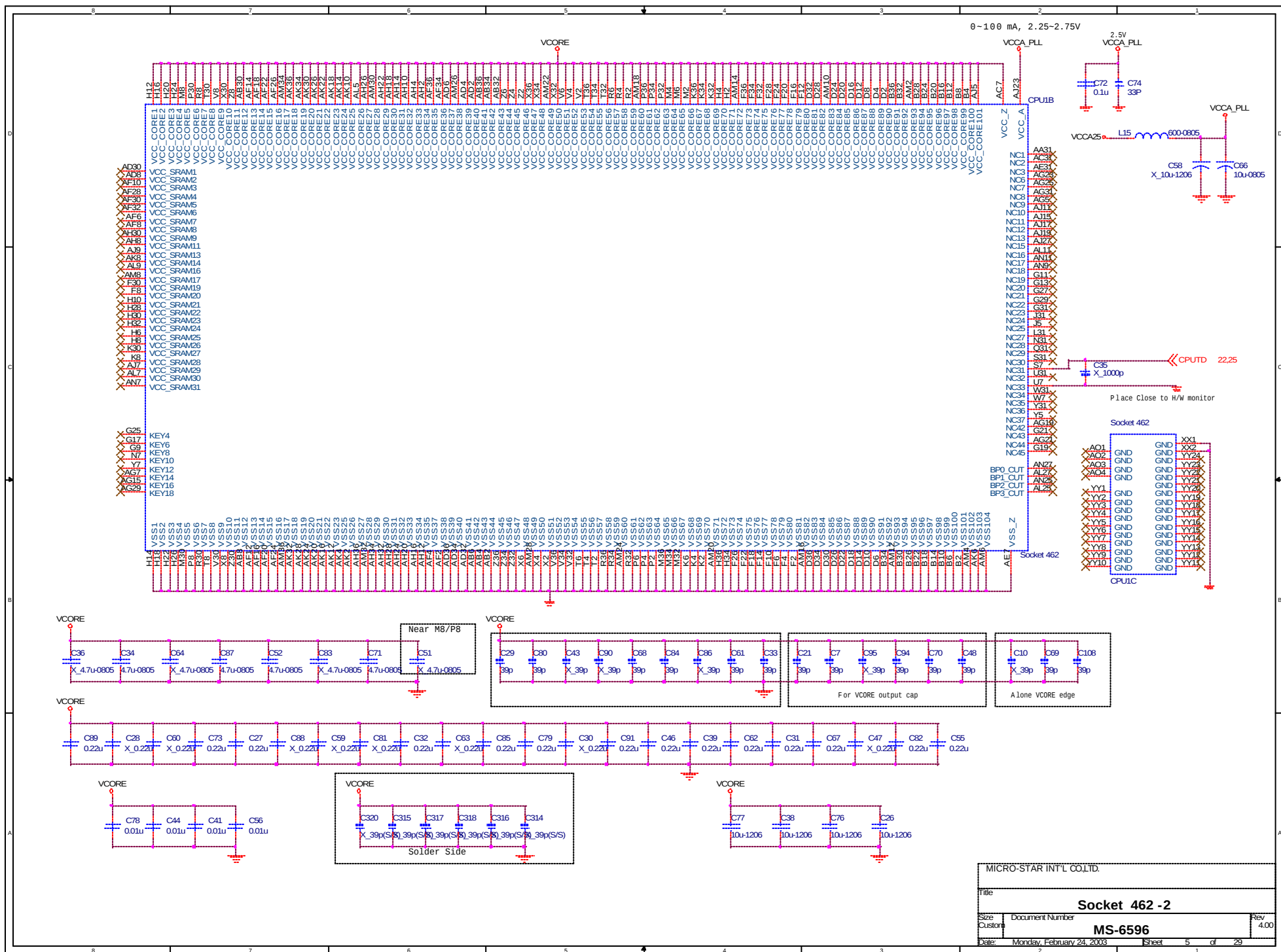
AGP 3.0 Slot * 1

DDR Slot * 2

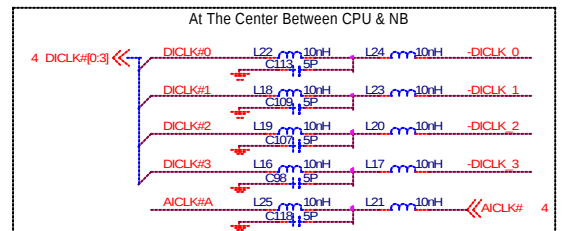
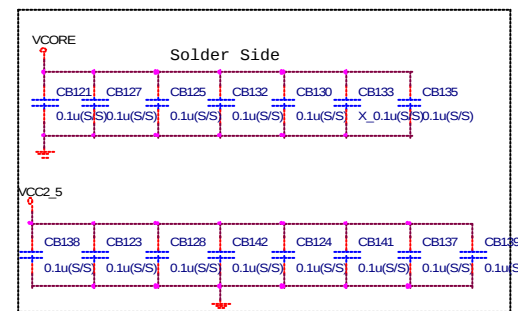
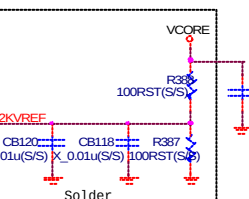
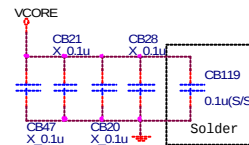
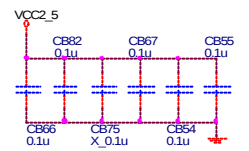
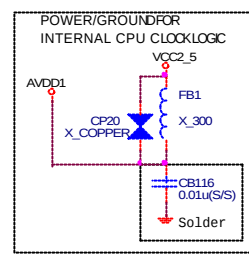
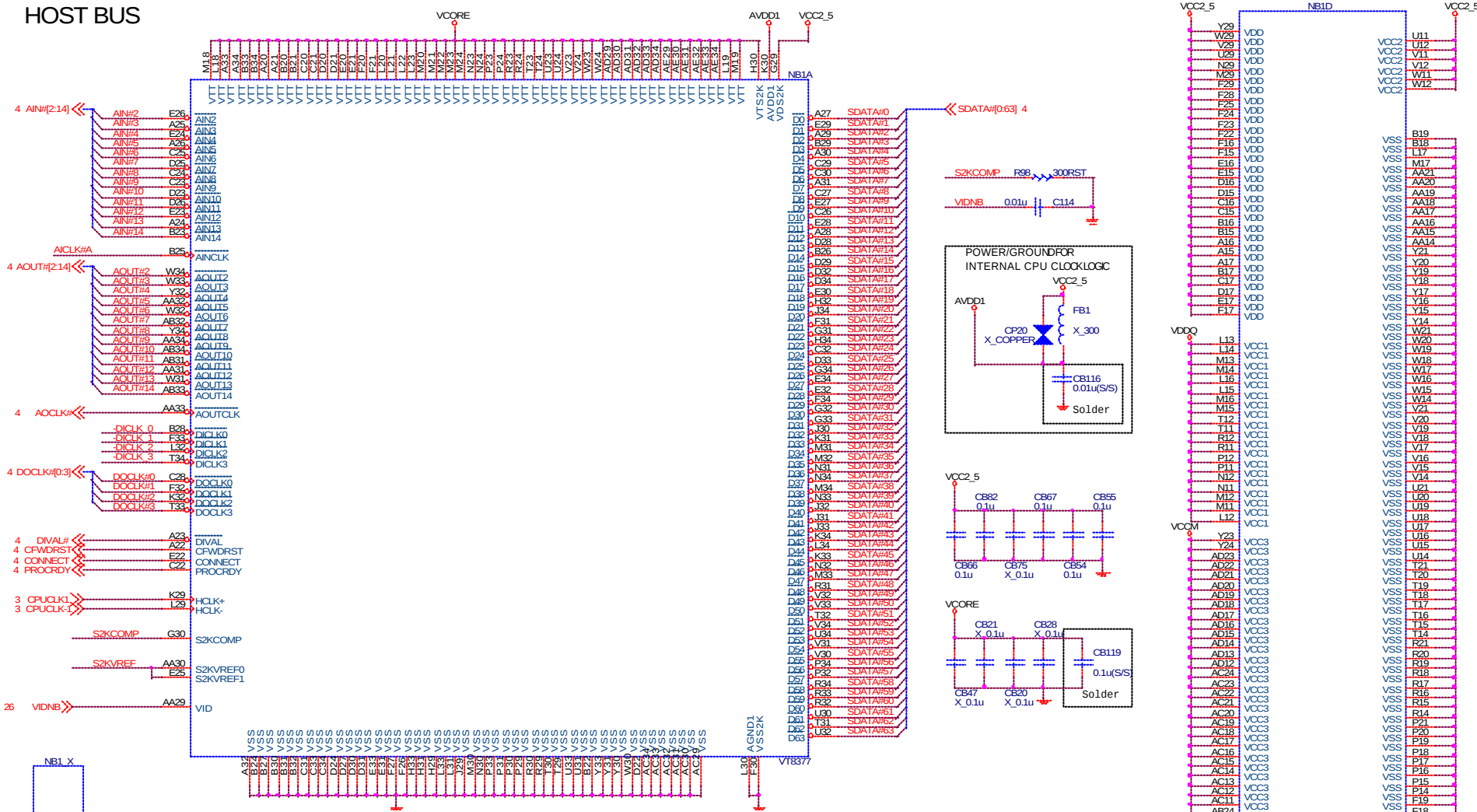
PCI 2.2 Slot * 3

System Block Diagram



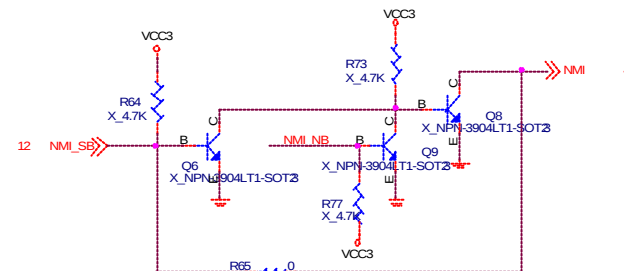
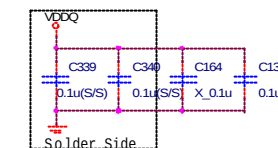
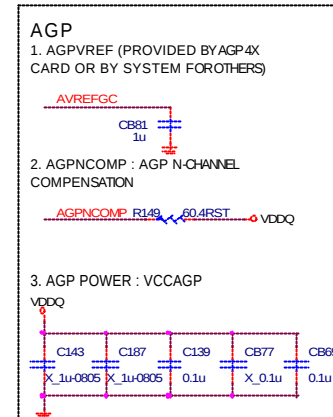
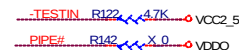
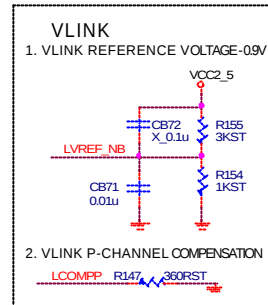
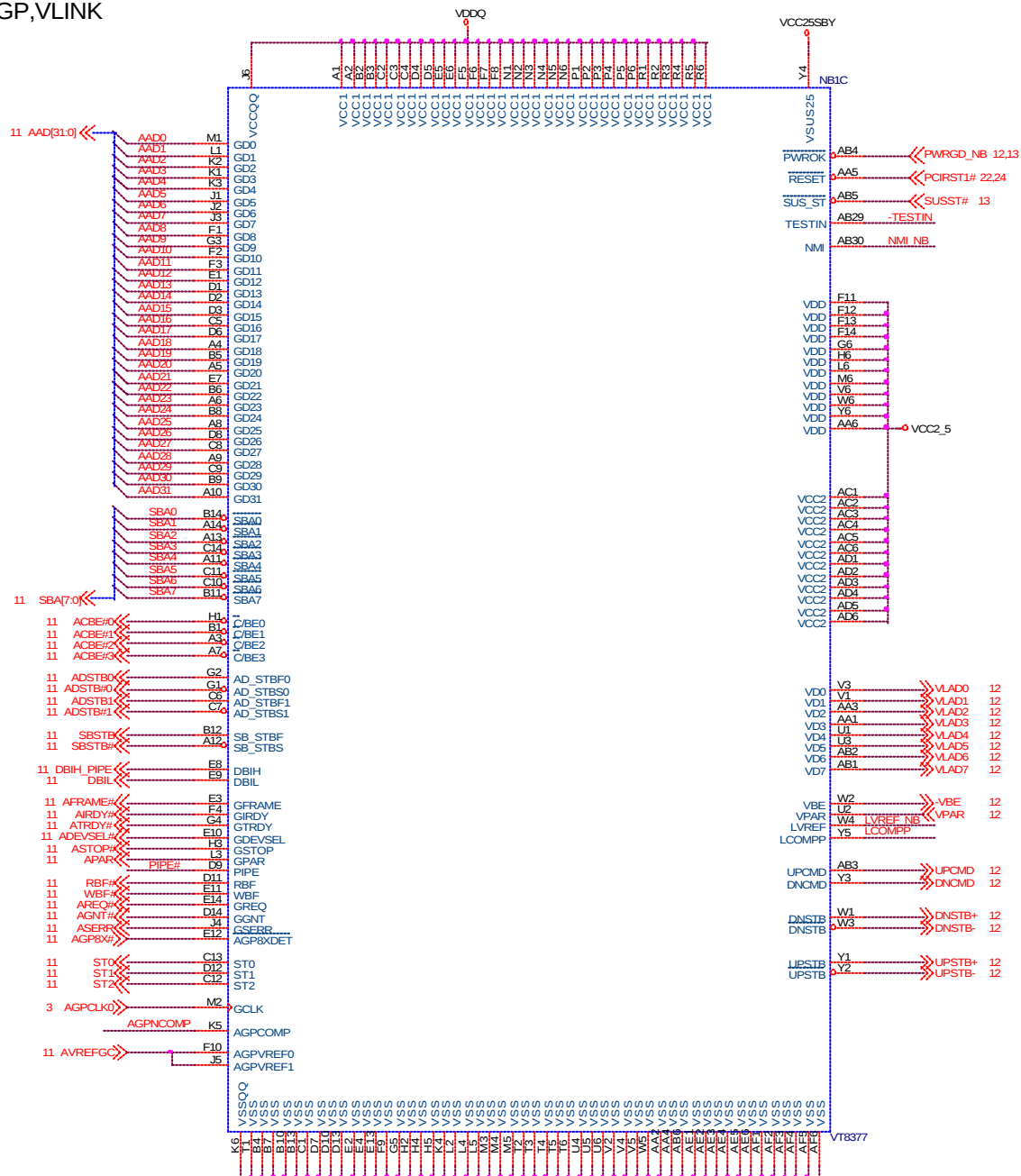


HOST BUS

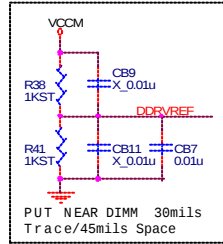


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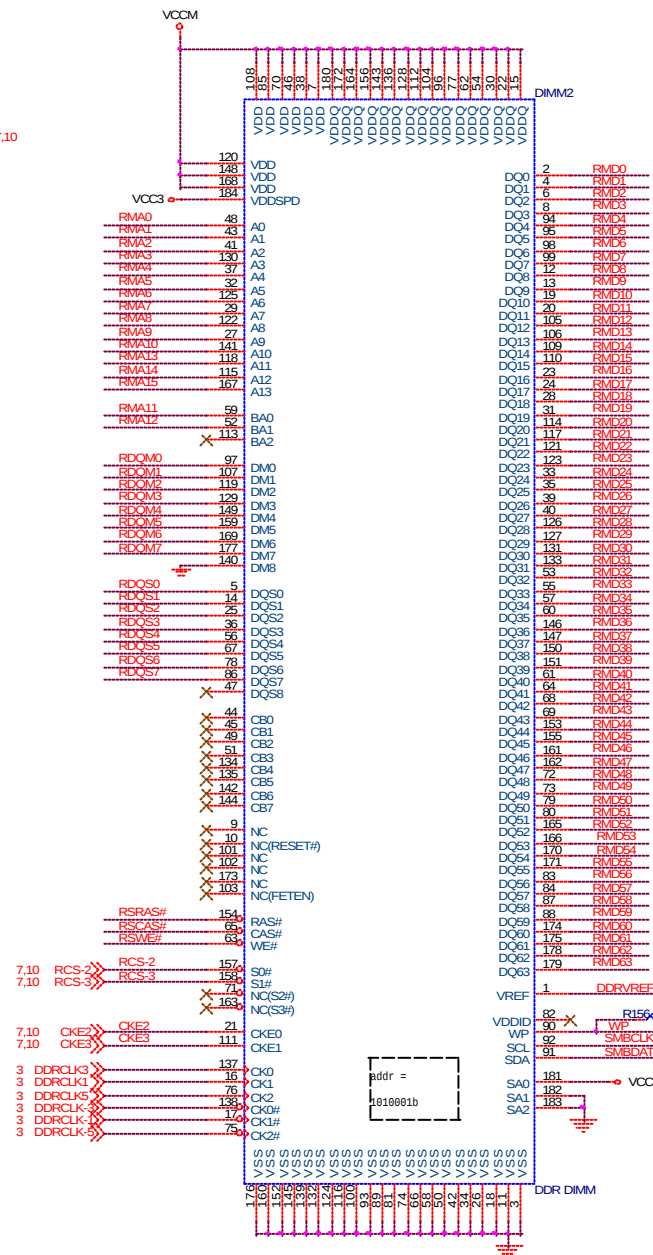
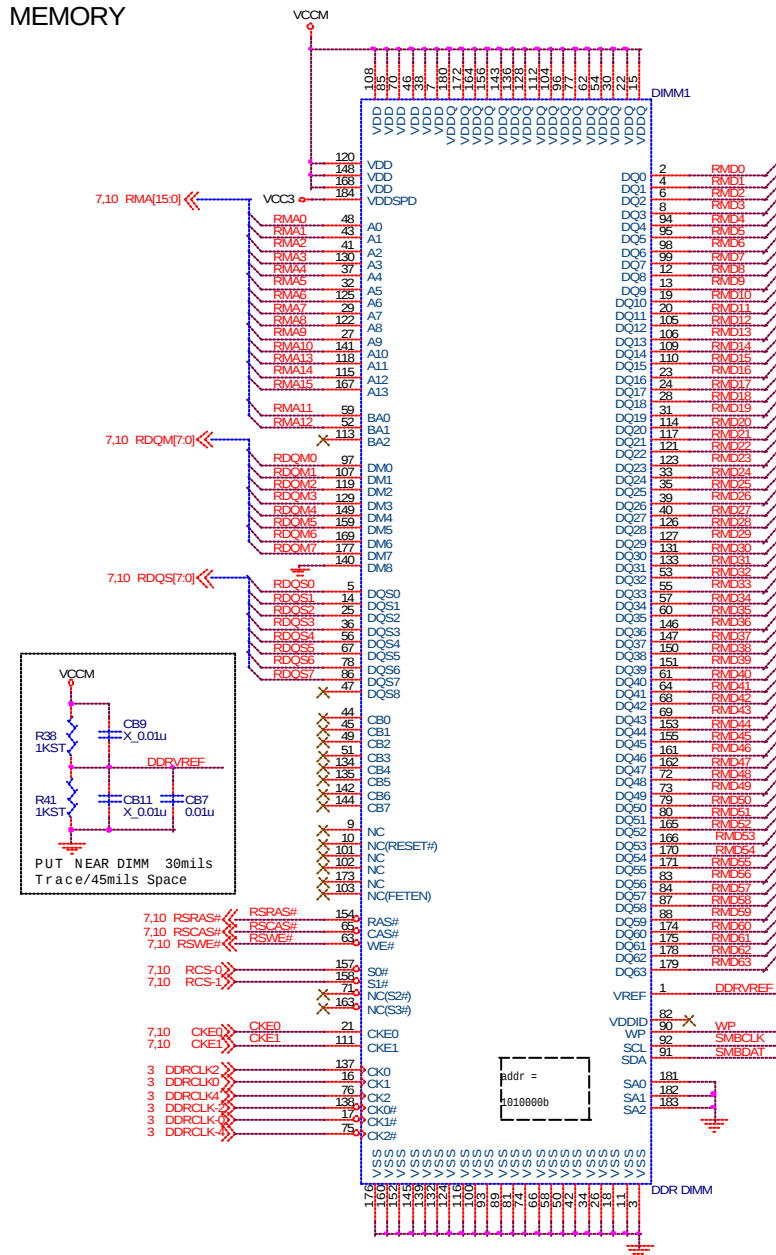
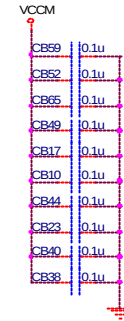
AGP,VLINK



MEMORY



DIMM DECOUPLING



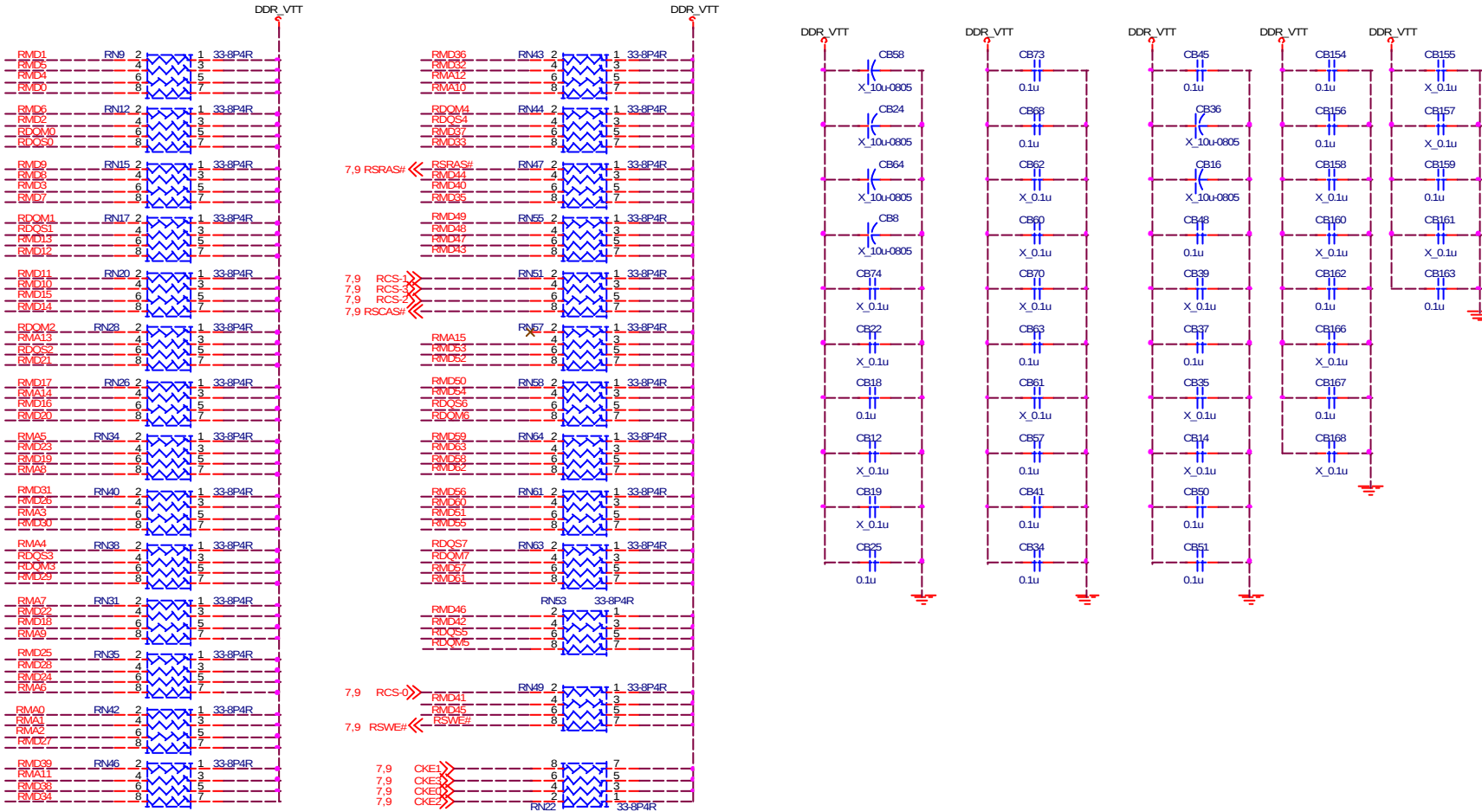
SSTL-2 Termination Resistors

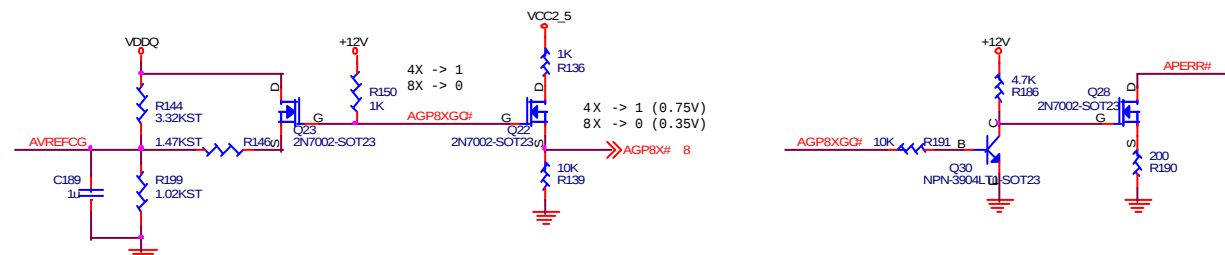
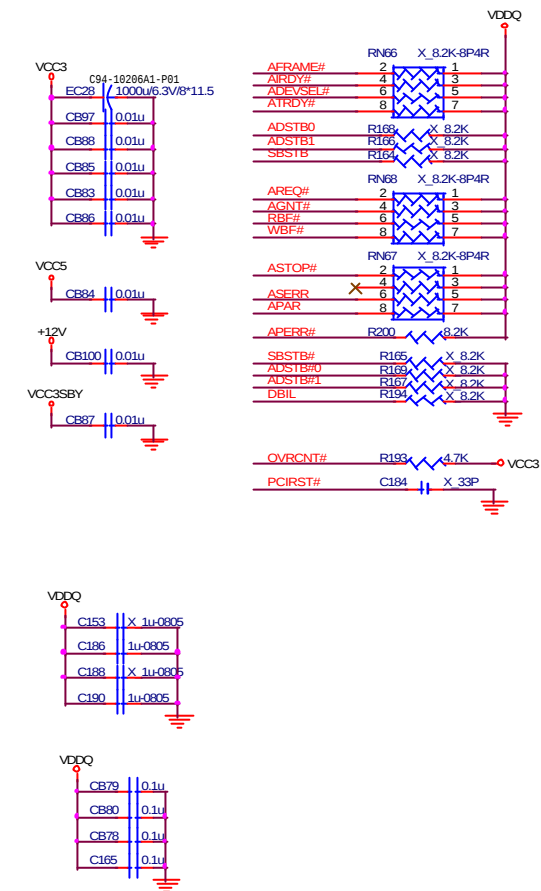
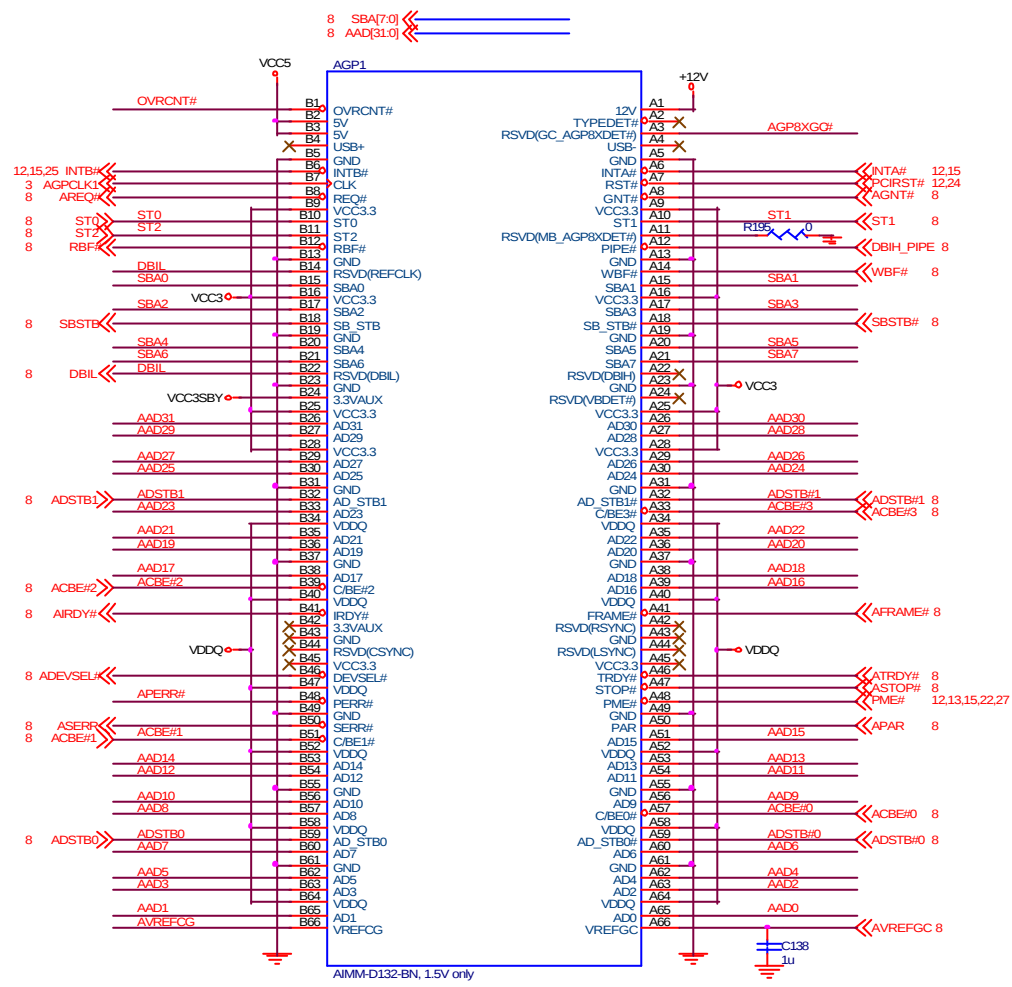
Signal paths and termination resistors are shown for various signals. The diagram includes a table of signal types and their corresponding termination values.

Signal	Termination Value
RD/DQM(DQS)	LV-CMOS
RA/Control	LV-CMOS
CS	LV-CMOS
CKE	DD 3.3V
RS	9/18/-
DB	DD 2.5V
RT	47
RT	47
RT	47

Termination resistors are shown for various signals, including RMD1, RMD2, RMD3, RMD4, RMD5, RMD6, RMD7, RMD8, RMD9, RMD10, RMD11, RMD12, RMD13, RMD14, RMD15, RMD16, RMD17, RMD18, RMD19, RMD20, RMD21, RMD22, RMD23, RMD24, RMD25, RMD26, RMD27, RMD28, RMD29, RMD30, RMD31, RMD32, RMD33, RMD34, RMD35, RMD36, RMD37, RMD38, RMD39, RMD40, RMD41, RMD42, RMD43, RMD44, RMD45, RMD46, RMD47, RMD48, RMD49, RMD50, RMD51, RMD52, RMD53, RMD54, RMD55, RMD56, RMD57, RMD58, RMD59, RMD60, RMD61, RMD62, RMD63, RMD64, RMD65, RMD66, RMD67, RMD68, RMD69, RMD70, RMD71, RMD72, RMD73, RMD74, RMD75, RMD76, RMD77, RMD78, RMD79, RMD80, RMD81, RMD82, RMD83, RMD84, RMD85, RMD86, RMD87, RMD88, RMD89, RMD90, RMD91, RMD92, RMD93, RMD94, RMD95, RMD96, RMD97, RMD98, RMD99, RMD100, RMD101, RMD102, RMD103, RMD104, RMD105, RMD106, RMD107, RMD108, RMD109, RMD110, RMD111, RMD112, RMD113, RMD114, RMD115, RMD116, RMD117, RMD118, RMD119, RMD120, RMD121, RMD122, RMD123, RMD124, RMD125, RMD126, RMD127, RMD128, RMD129, RMD130, 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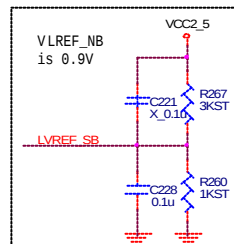
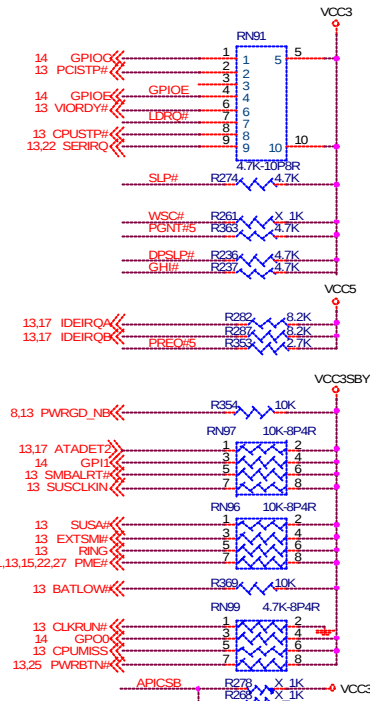
	SDR	DDR	RS	RTT
WD/DQM(/DQS)	V-CMOS	0/10/-	STL-2	47
WA/Control	V-CMOS	0	STL-2	47
CS	V-CMOS	0	STL-2	47
CKE	DD 3.3V	DD 2.5V	DD	



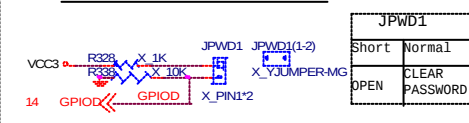


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AGP SLOT			
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SB Pull up resistors

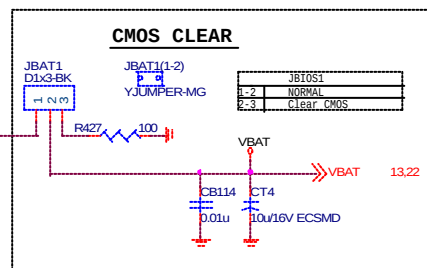
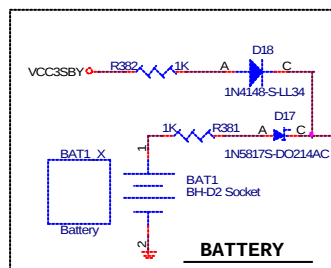
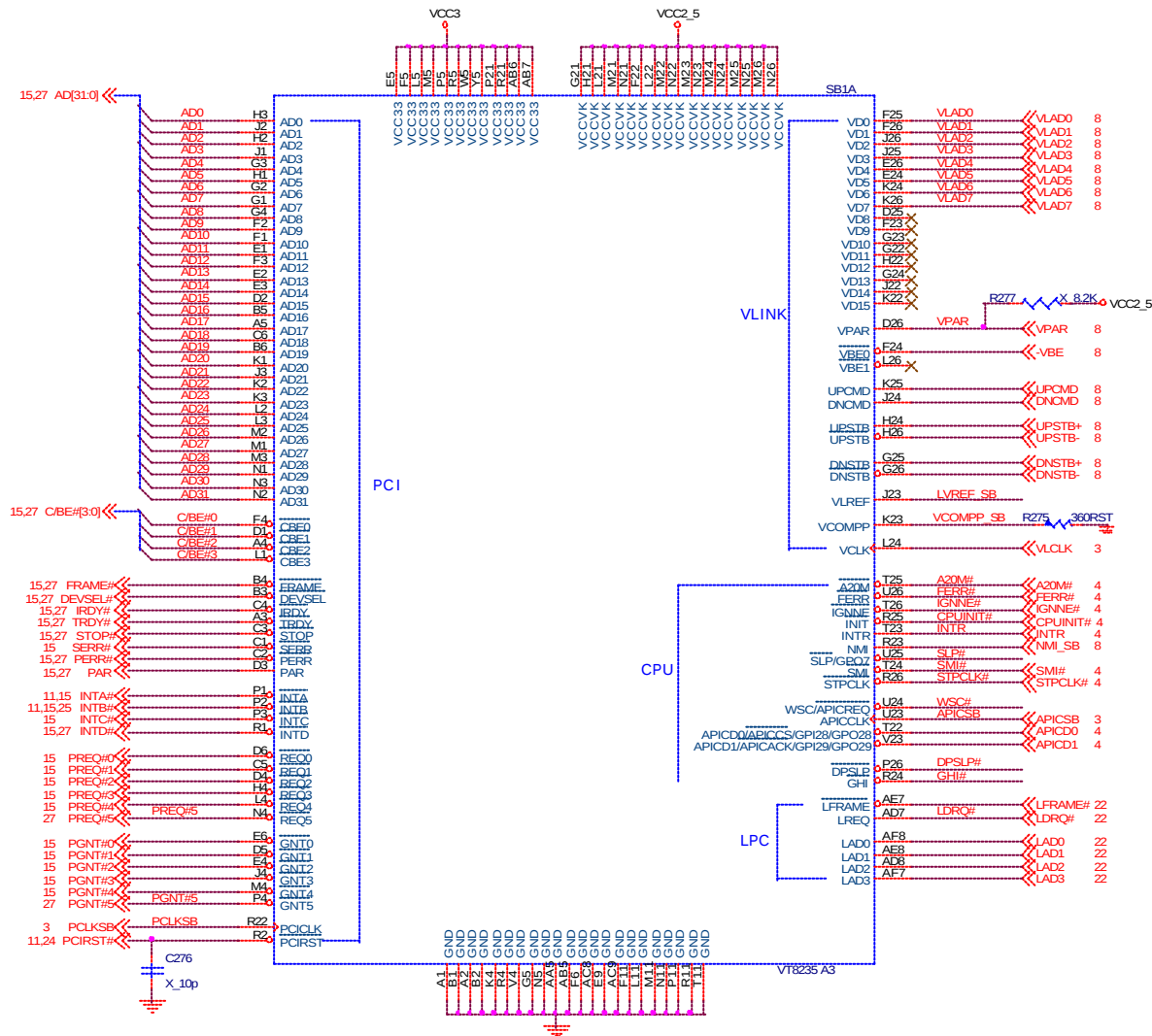


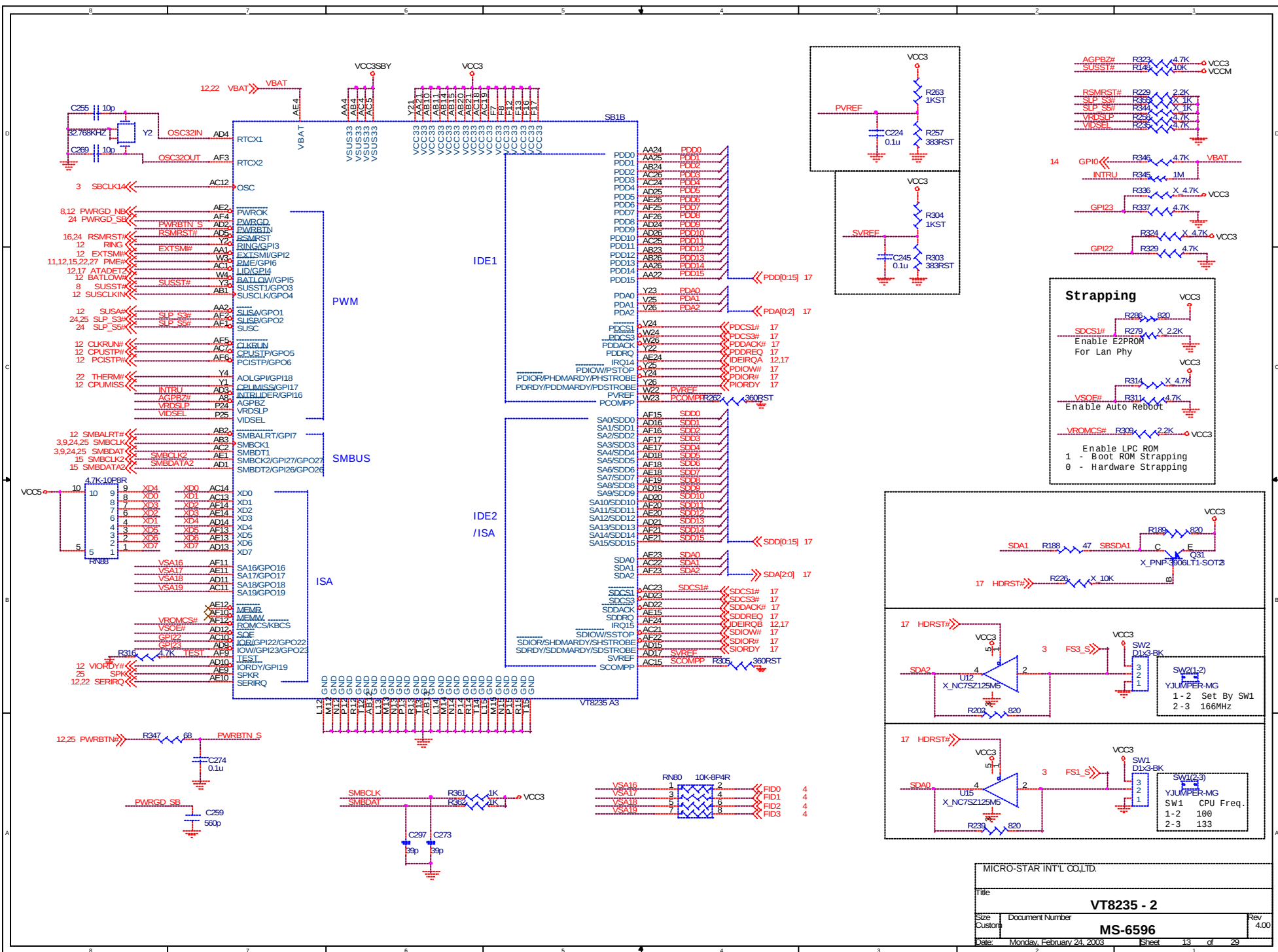
PASSWORD CLEAR JUMPER



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VT8235 - 1 & BATTERY			
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Strapping

SDCS1# R286 820 VCC3

Enable E2PROM For Lan Phy

VCC3

VCC3

VCC3

Enable Auto Reboot

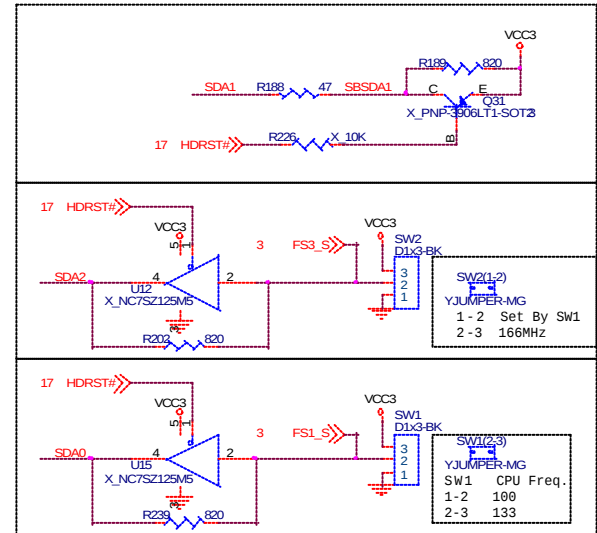
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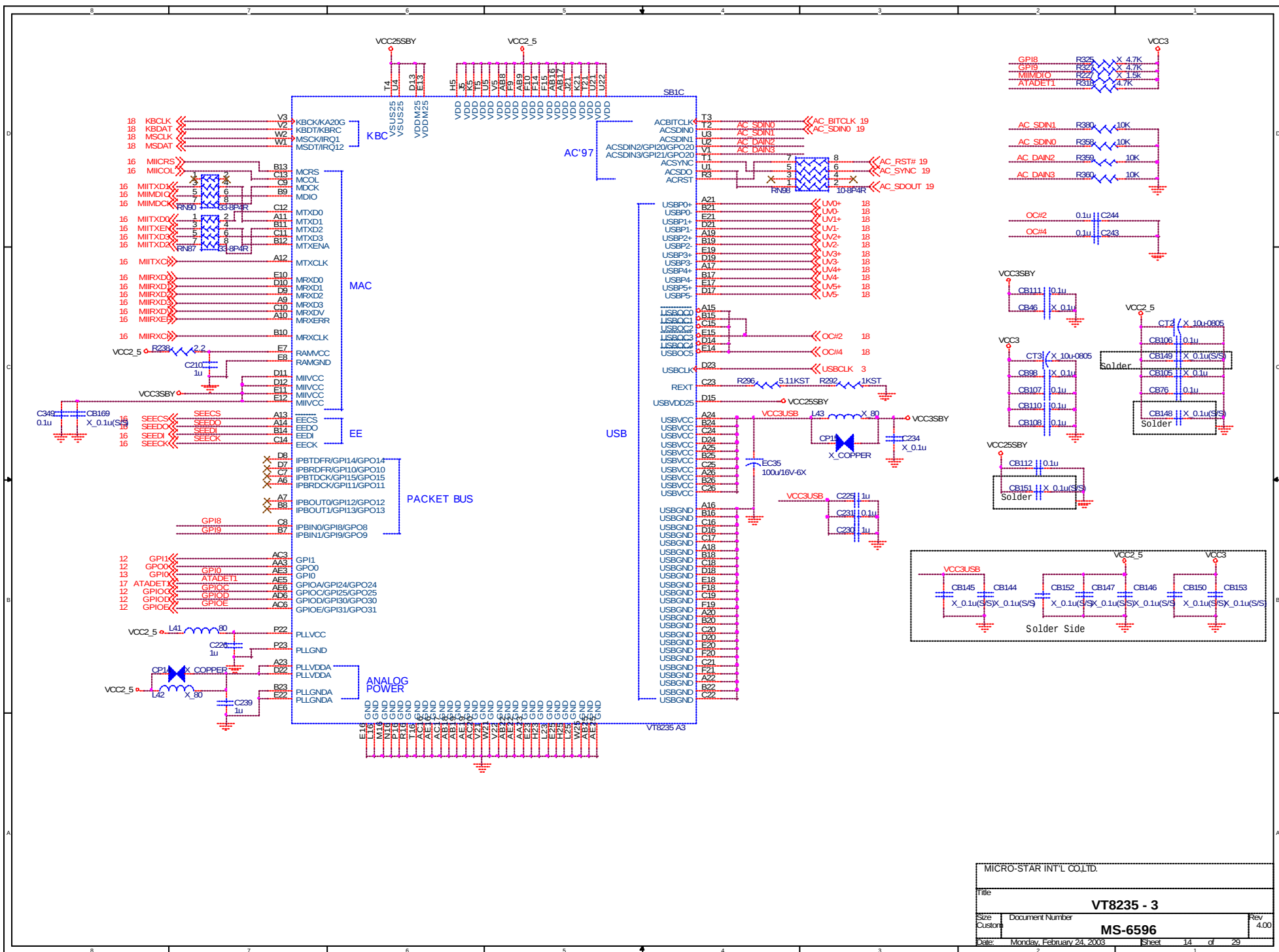
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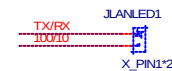
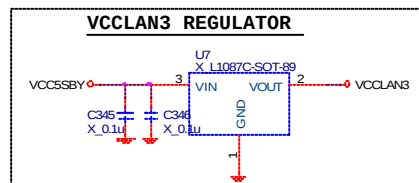
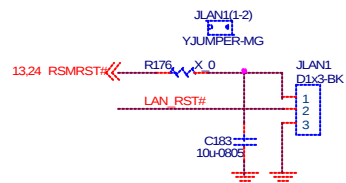
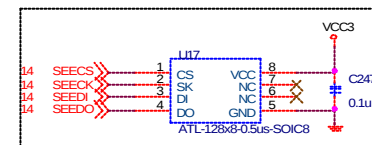
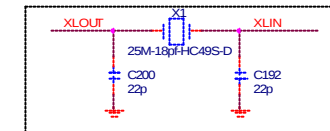
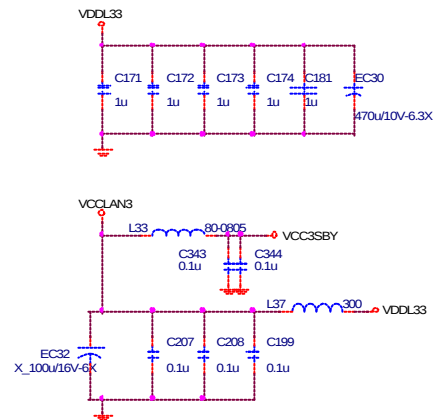
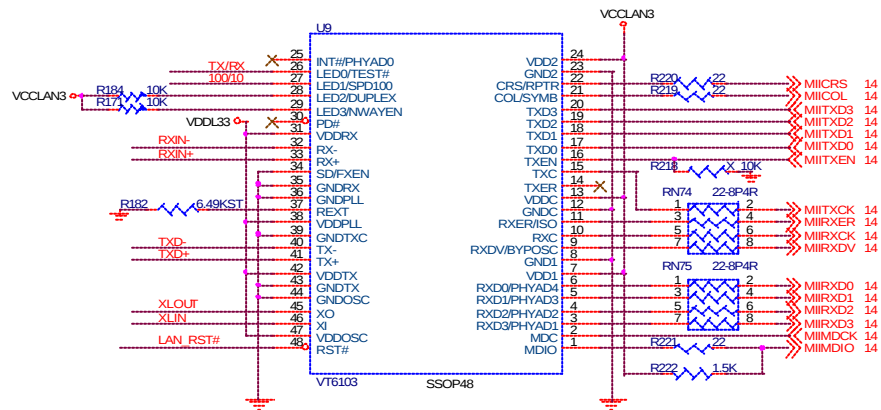
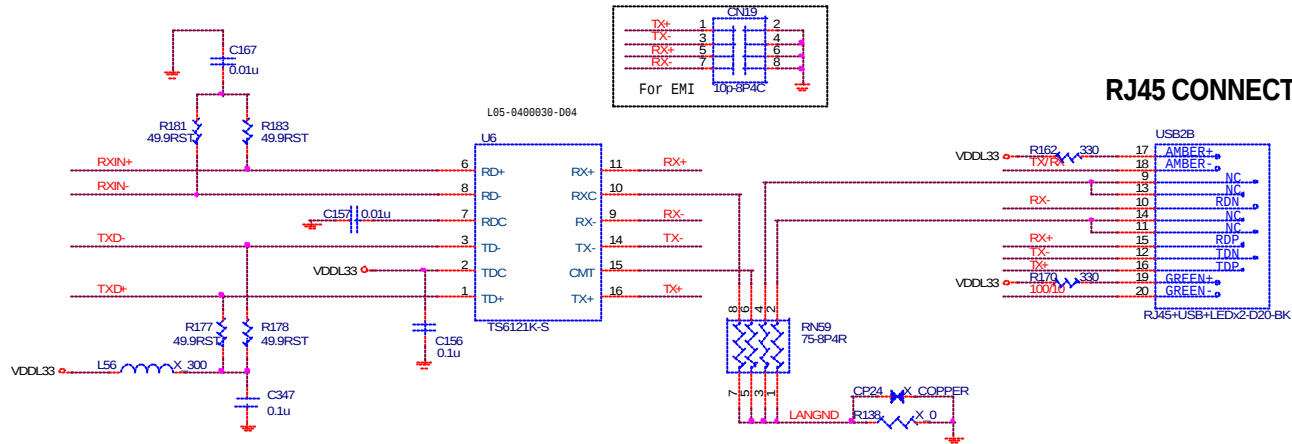
Enable LPC ROM

1 - Boot ROM Strapping

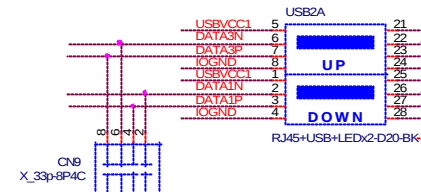
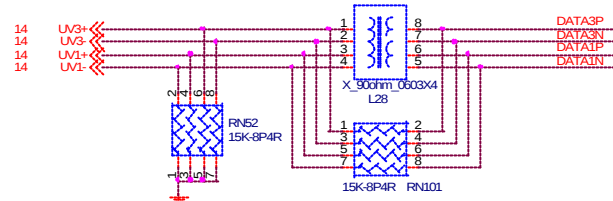
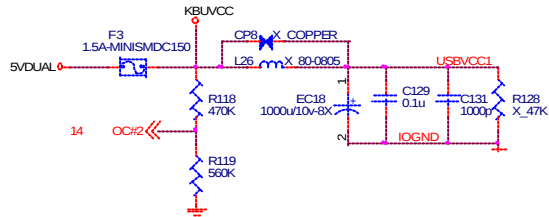
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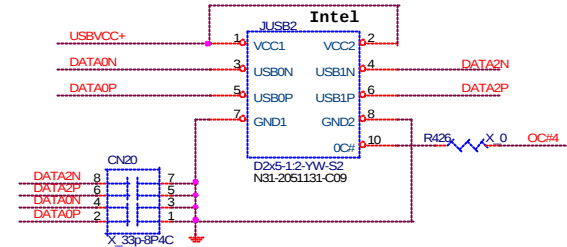
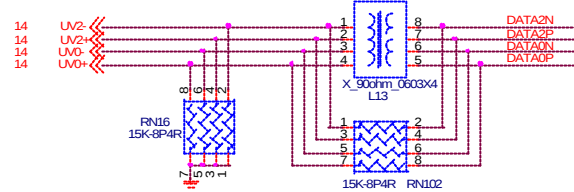
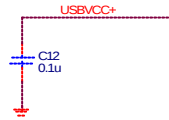




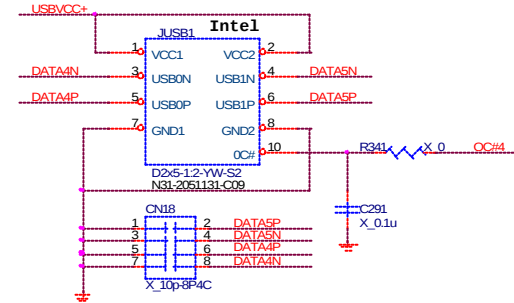
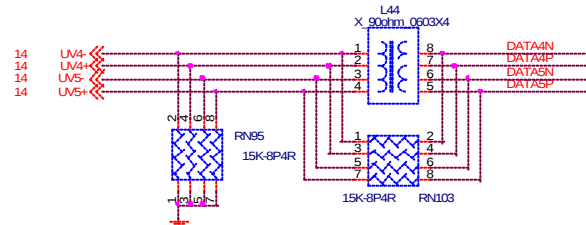
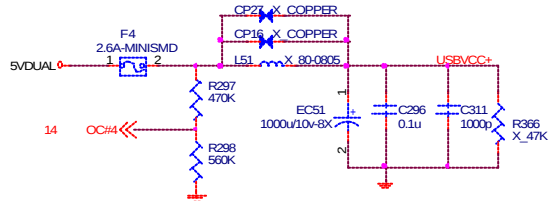
REAR PANEL LAN USB CONNECTOR FOR USB PORT 2,3



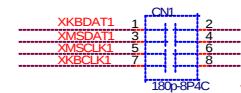
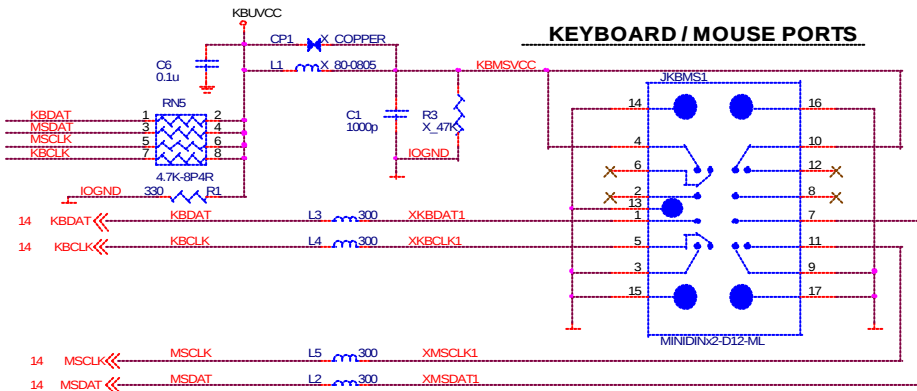
REAR PANEL USB2 CONNECTOR FOR USB PORT 0,1



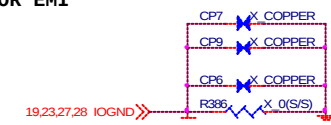
FRONT PANEL USB CONNECTOR FOR USB PORT 4,5



KEYBOARD / MOUSE PORTS

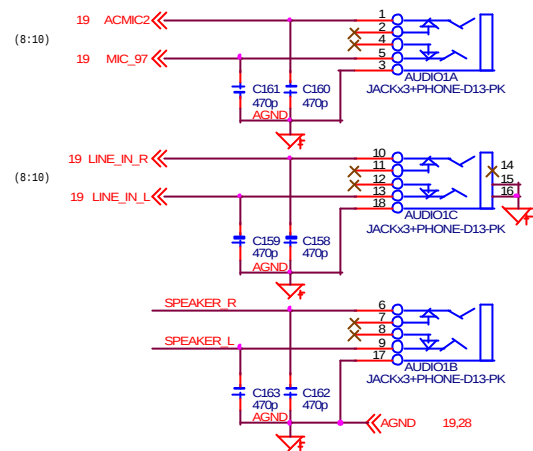
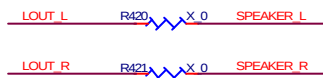


FOR EMI

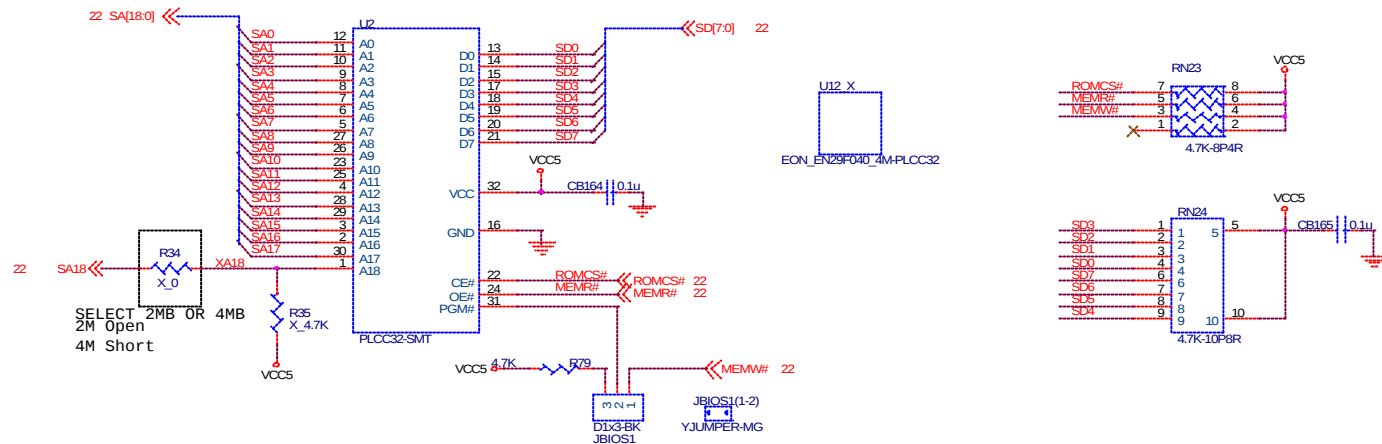


MICRO-STAR INT'L CO., LTD.

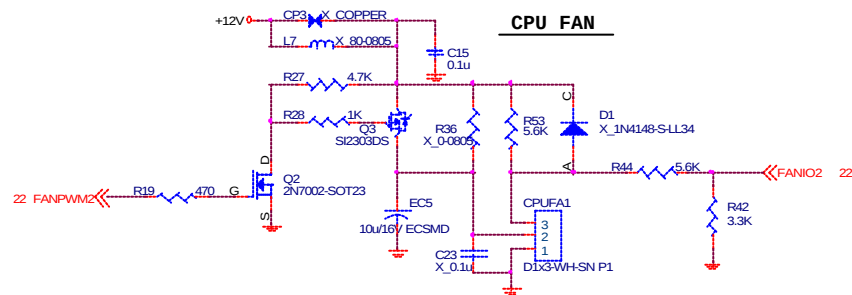
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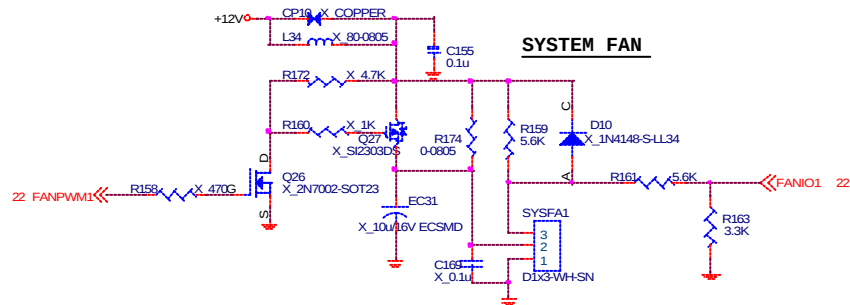
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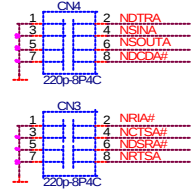
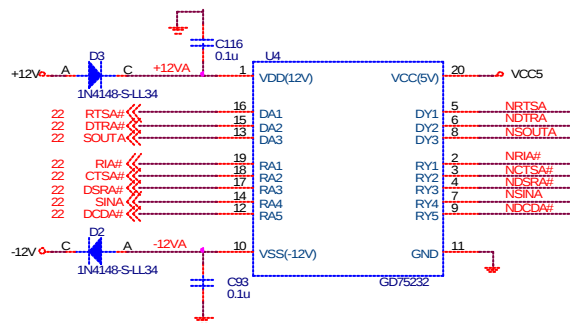
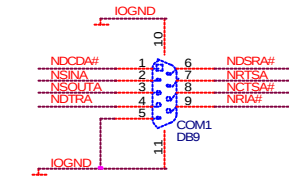
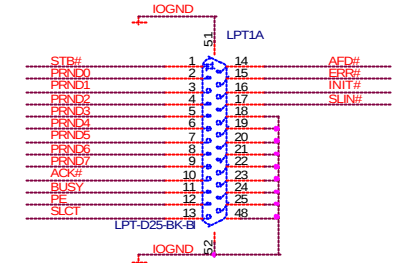
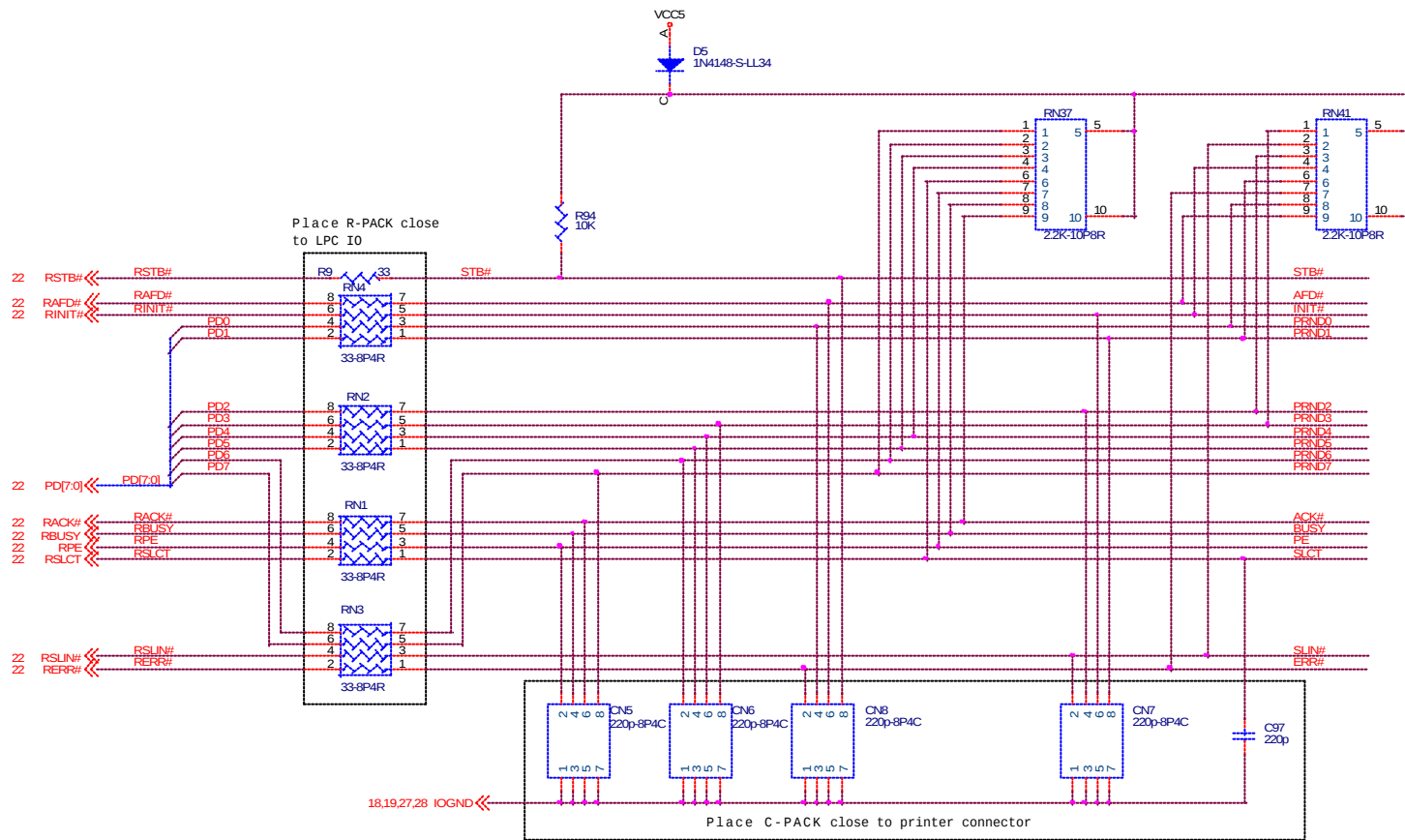


CPU FAN



SYSTEM FAN





FOR EMI

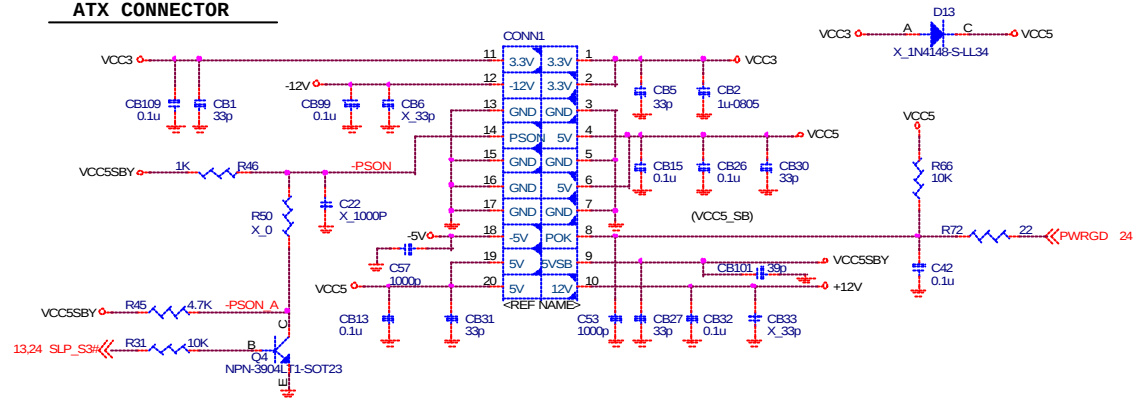
18,19,27,28 IOGND

CPS

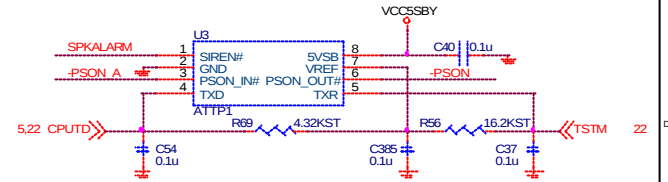
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MICRO-STAR INT'L CO.LTD.			
Title			
Parallel & Serial Conn.			
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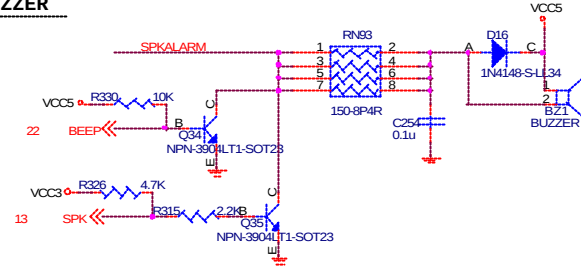
ATX CONNECTOR



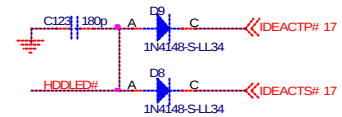
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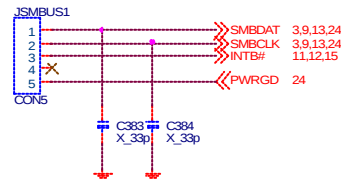
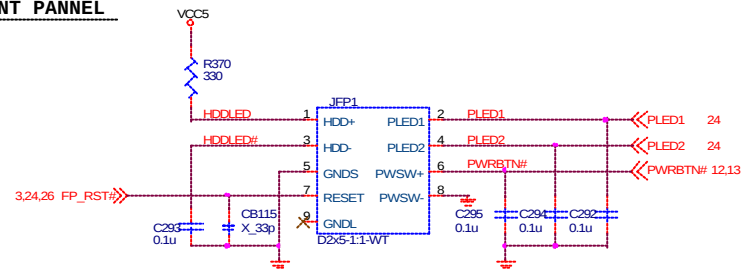
BUZZER



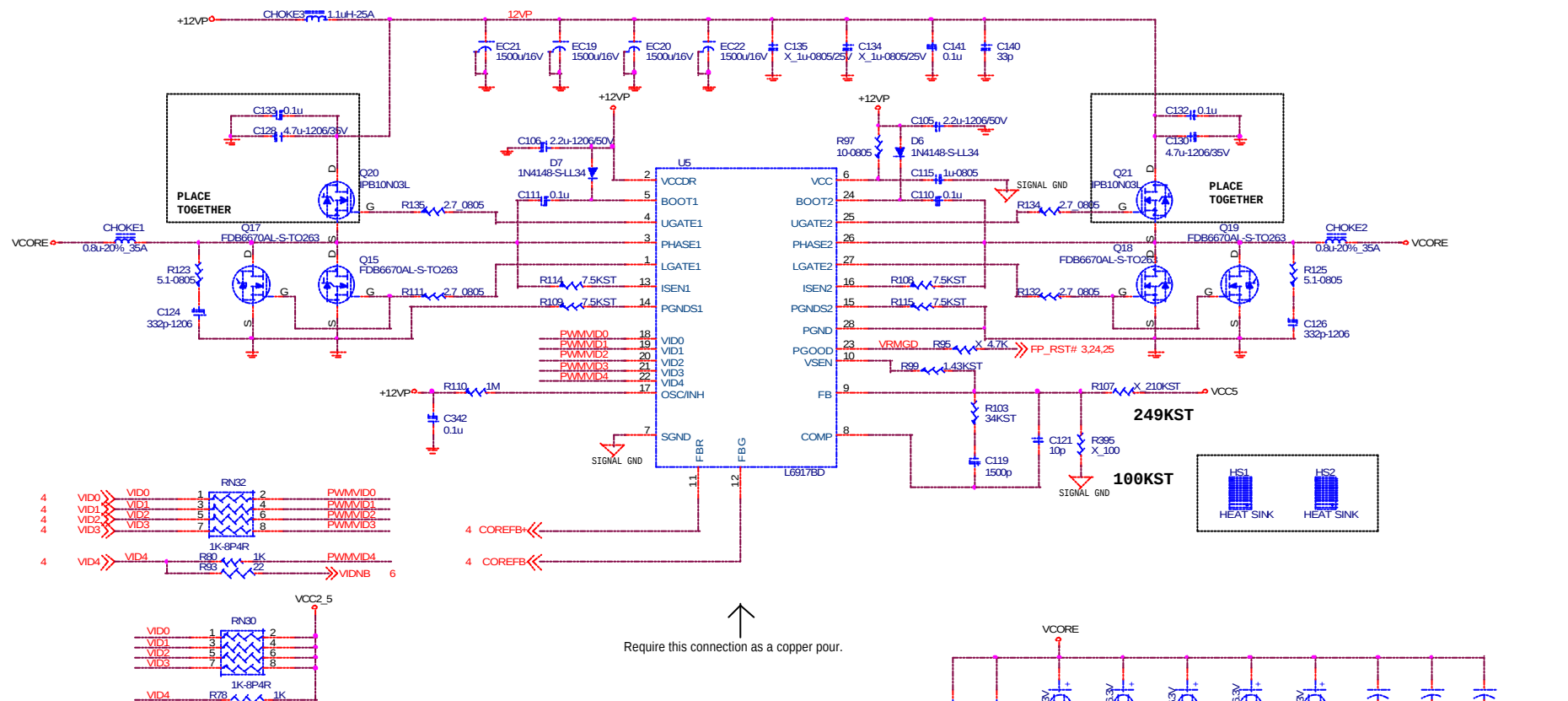
HDD LED



INTEL FRONT PANNEL



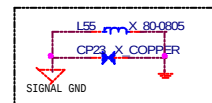
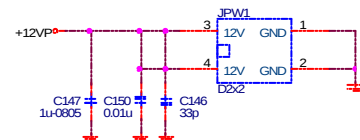
VRM 9.0



VID4	VID3	VID2	VID1	VID0	VDC(V)
1	1	1	1	0	1.100
1	1	1	0	1	1.125
1	1	1	0	0	1.150
1	1	0	1	1	1.175
1	1	0	1	0	1.200
1	1	0	0	1	1.225
1	1	0	0	0	1.250
1	0	1	1	1	1.275
1	0	1	1	0	1.300
1	0	1	0	1	1.325
1	0	1	0	0	1.350
1	0	0	1	1	1.375
1	0	0	1	0	1.400
1	0	0	0	1	1.425
1	0	0	0	0	1.450
0	1	1	1	1	1.475

VID4	VID3	VID2	VID1	VID0	VDC(V)
0	1	1	1	0	1.500
0	1	1	0	1	1.525
0	1	1	0	0	1.550
0	1	0	1	1	1.575
0	1	0	1	0	1.600
0	1	0	0	1	1.625
0	1	0	0	0	1.650
0	0	1	1	1	1.675
0	0	1	1	0	1.700
0	0	1	0	1	1.725
0	0	1	0	0	1.750
0	0	0	1	1	1.775
0	0	0	1	0	1.800
0	0	0	0	1	1.825
0	0	0	0	0	1.850
1	1	1	1	1	OFF

ATX12V POWER CONNECTOR



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Title

VRM 9.0

Size

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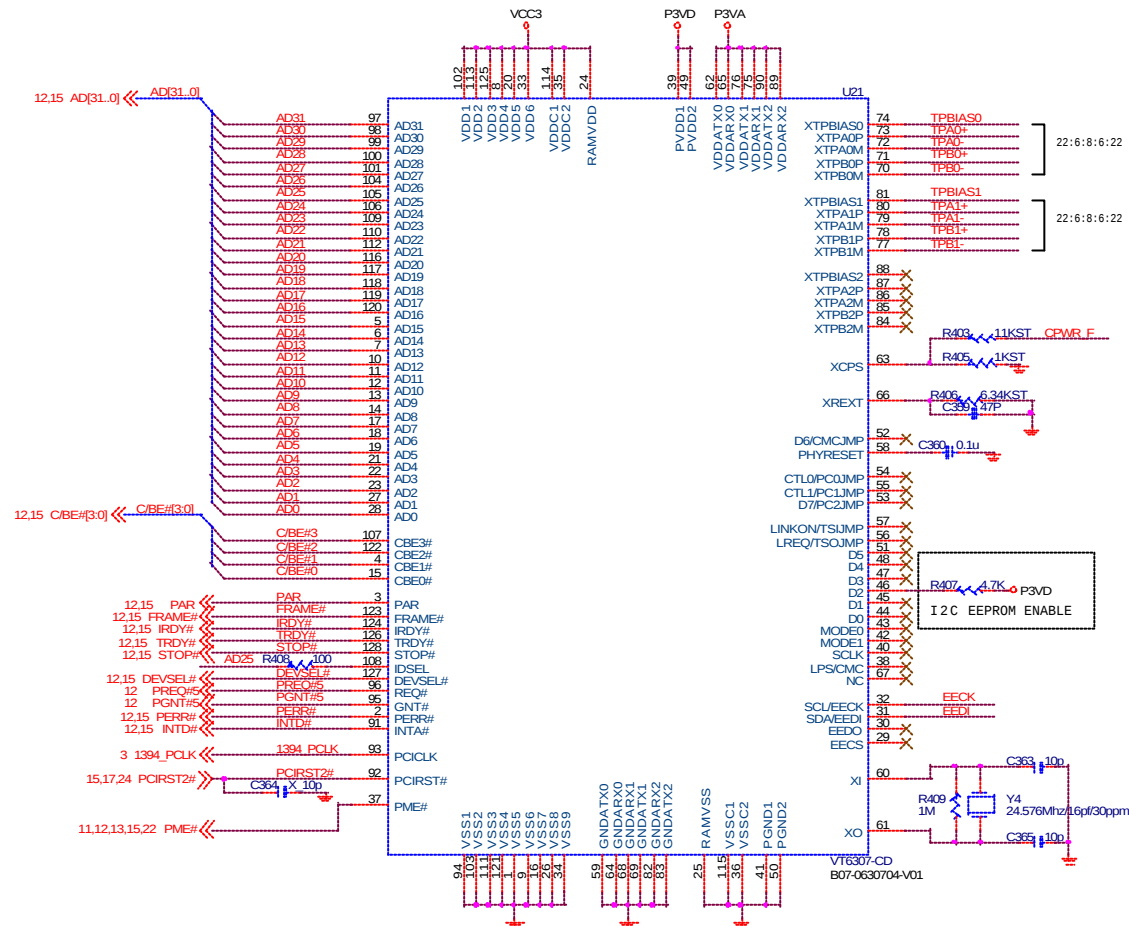
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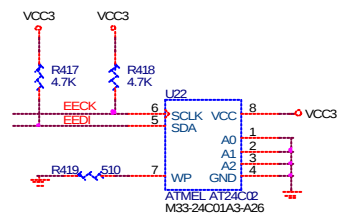
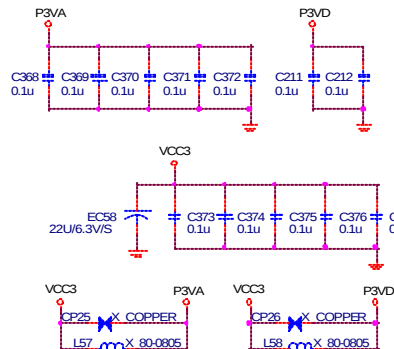
I1394a OHCI Link Layer Controller



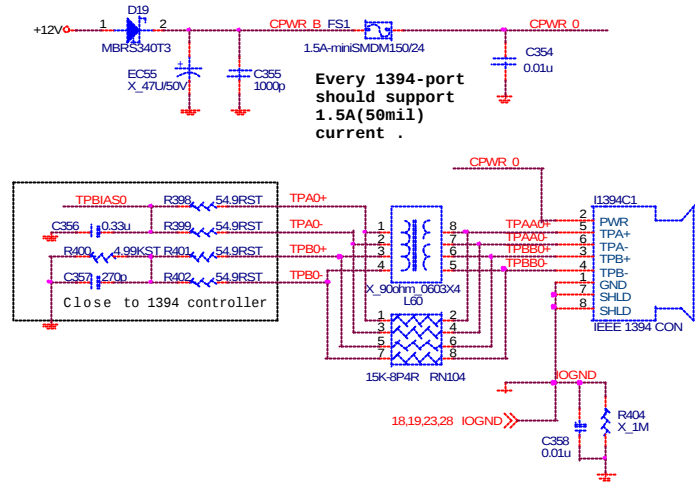
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MASTER = PREQ#5
PIRQ#D

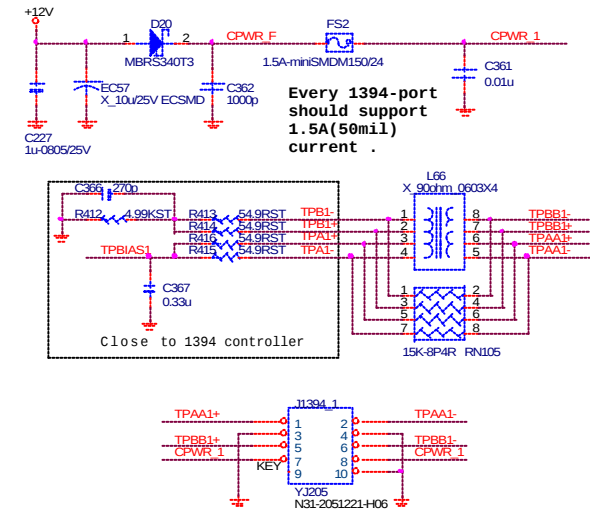
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1394 REAR CONNECTOR



1394 FRONT PIN HEADER

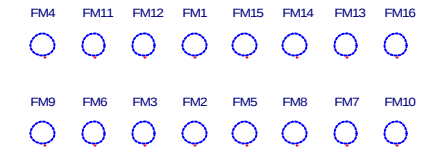
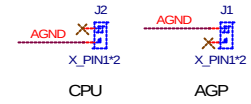
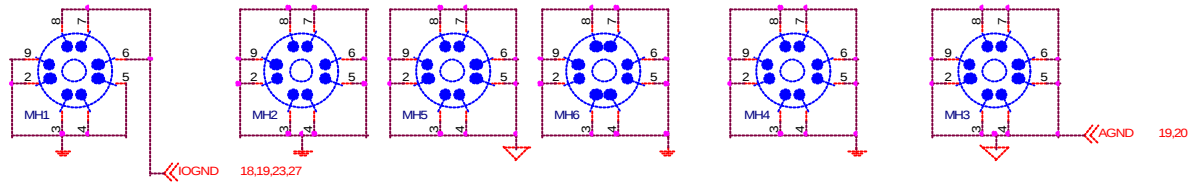


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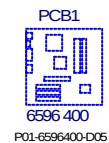
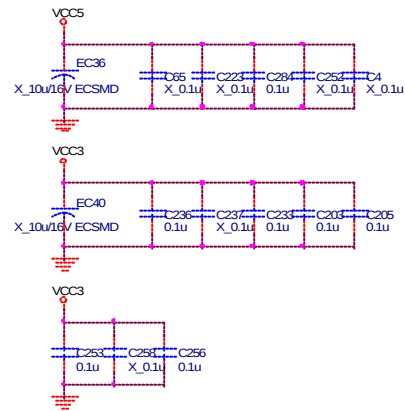
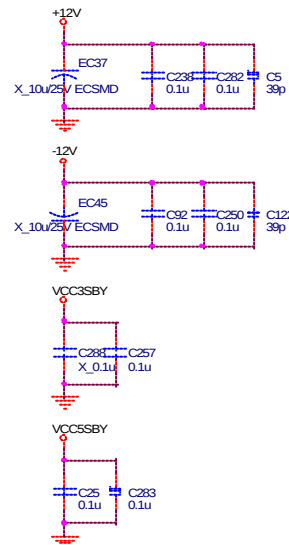
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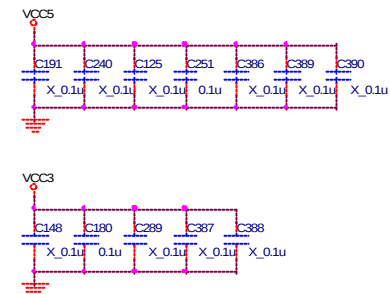
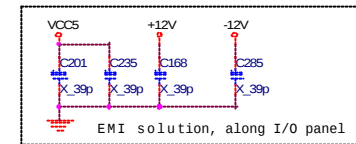
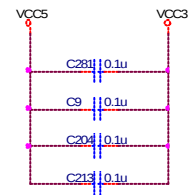
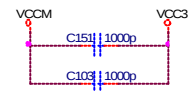
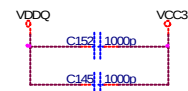
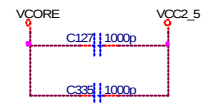
PCB OTHER COMPONENT



System Decoupling Capacitors



High Freq. return current decoupling



[illegible]

Page: 04 => Mount R48, R54.

Page:16 => Mount L33 and N/C U7.

Page:20 => Change net name from '+12VA' to '+12VAA'.

Page:22 => Add 1K(Reserve) pull down on signal

Page:24 => Change reference number of CE1.

Page:25 => Change BZ1 Part number from

Page:26 => Change EC2 placement for mechanical.

5					4					3					2					1																								
OA Page:03 => Change reference number of CE2. Page:04 => Mount R48, R54. Page:15 => Change reference number of U18. Page:16 => Mount L33 and N/C U7. Page:19 => Change CODEC(ALC650) from Rev:E to F. Page:20 => Change net name from '+12VA' to '+12VAA'. Page:22 => Add 1K(Reserve) pull down on signal "SOUTA", "DTRA", "RTSA". Change S/IO(W83697HF) from Rev:F toRev:UB. Page:24 => Change reference number of CE1. Page:25 => Change BZ1 Part number from D09-0100101-A17 to D09-0100101-H10. Page:26 => Change EC2 placement for mechanical.																																												
OB Page:14 => Add C349, CB169 for "VCC3SBY" ripple noise. Page:16 => Add CN19 for LAN signal. Page:19 => Change CODEC(ALC650) from Rev:E to F(B09-LC65034-R09). Page:26 => R107 N/C for VRM. Page:27 => Add I1394 schematics for customer request.																																												

Page:16 => Add CN19 for LAN signal.

Page:19 => Change CODEC(ALC650) from Rev:E to F(B09-LC65034-R09).

Page:26 => R107 N/C for VRM.

Page:27 => Add I1394 schematics for customer request.

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Title			
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