

Appendix B:Schematic Diagrams

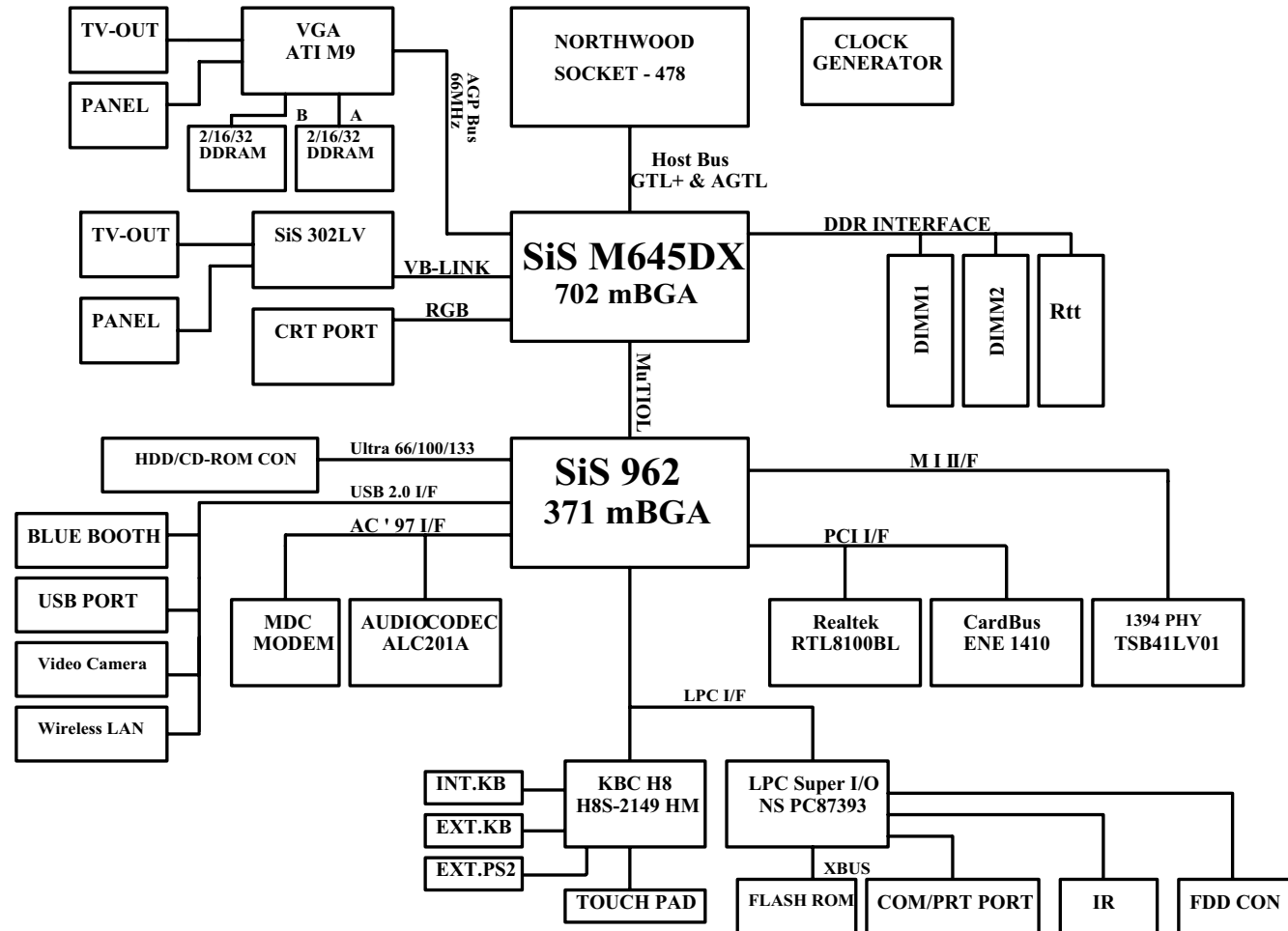
This appendix has circuit diagrams of the *D400E/D410E* notebook's PCB's. The following table indicates where to find the appropriate schematic diagram.

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Table 1
**Schematic
Diagrams**

Schematic Diagrams

System Block Diagram

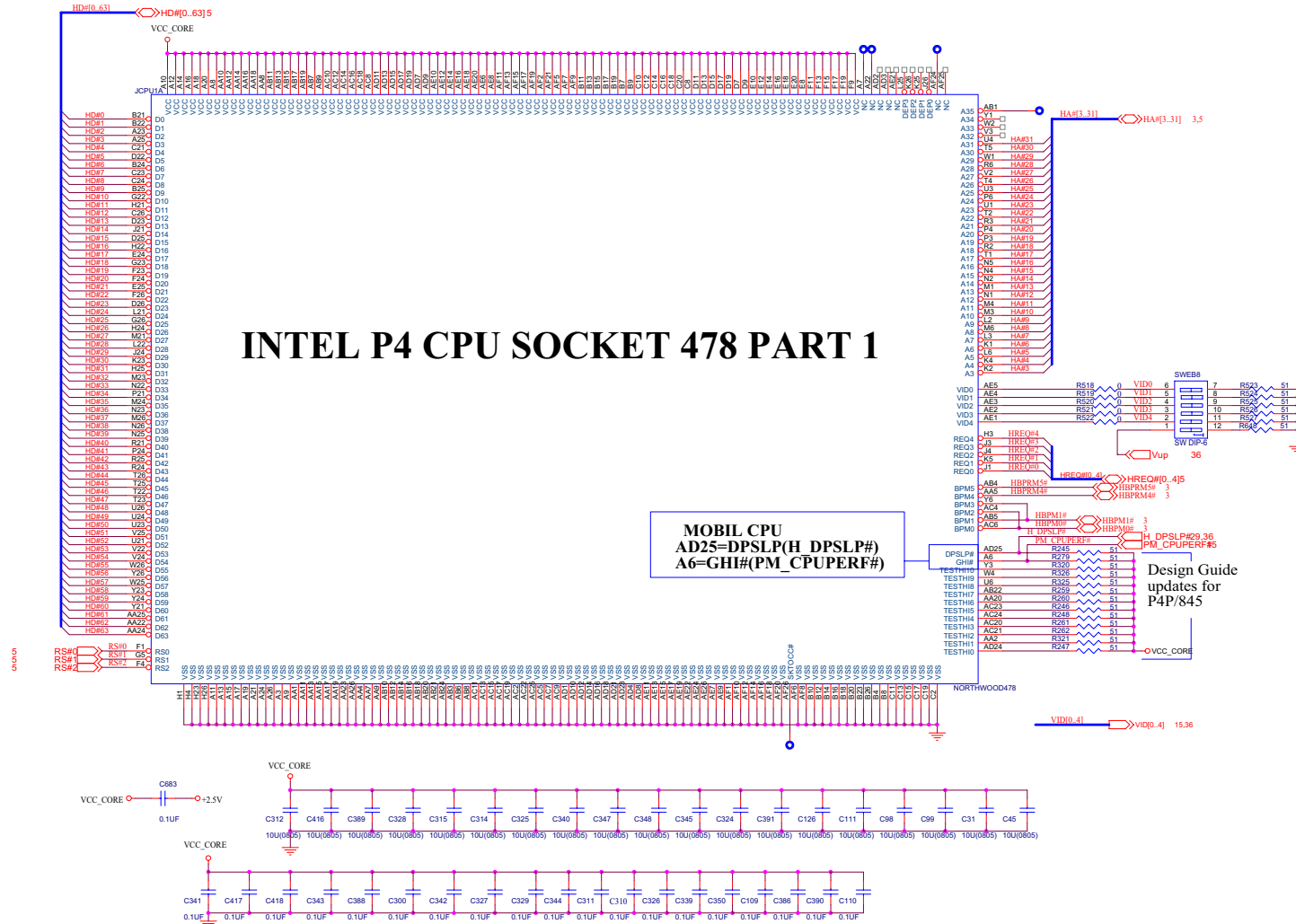


Sheet 1 of 41
System Block
Diagram

Socket 478 1 of 2

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Socket 478 1 of 2

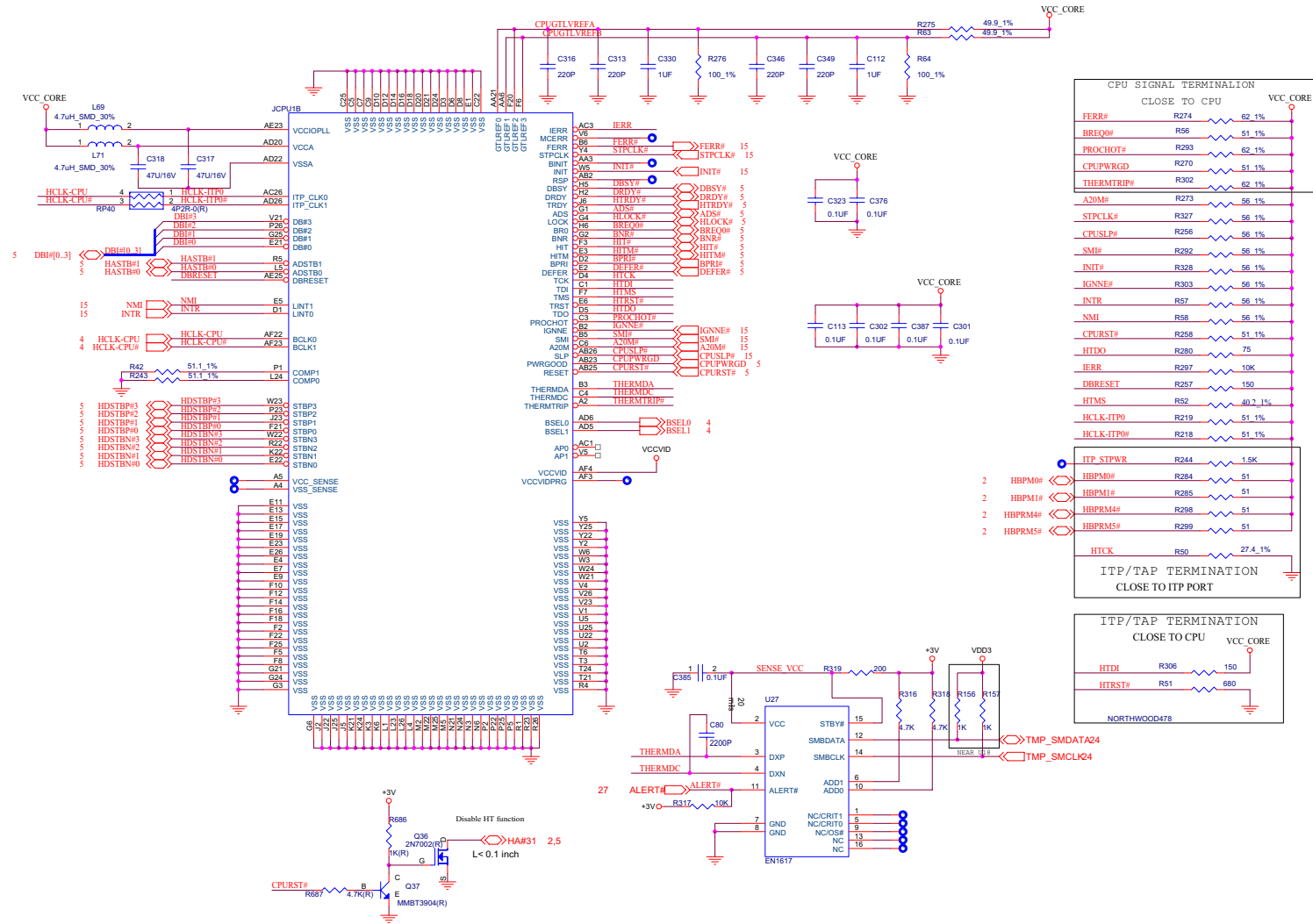
INTEL P4 CPU SOCKET 478 PART 1



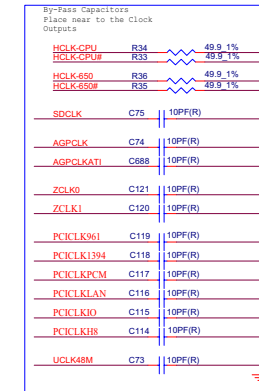
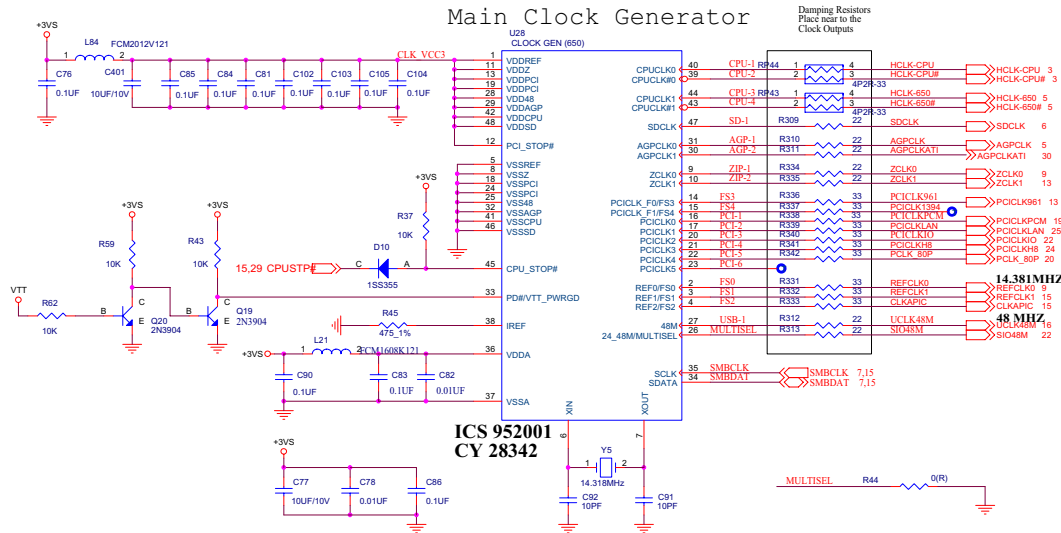
Schematic Diagrams

Socket 478 & ITP 2 of 2

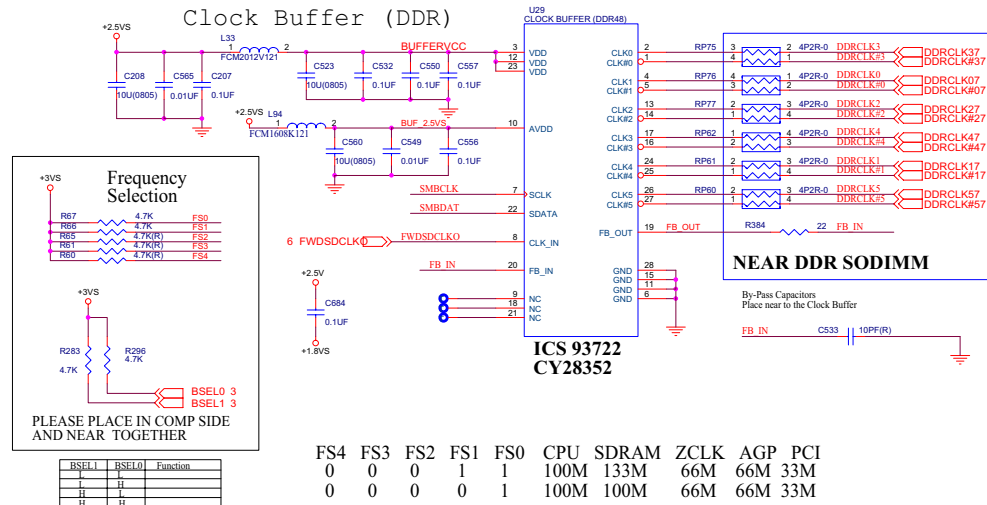
Sheet 3 of 41
Socket 478 & ITP
2 of 2



Clock Generator

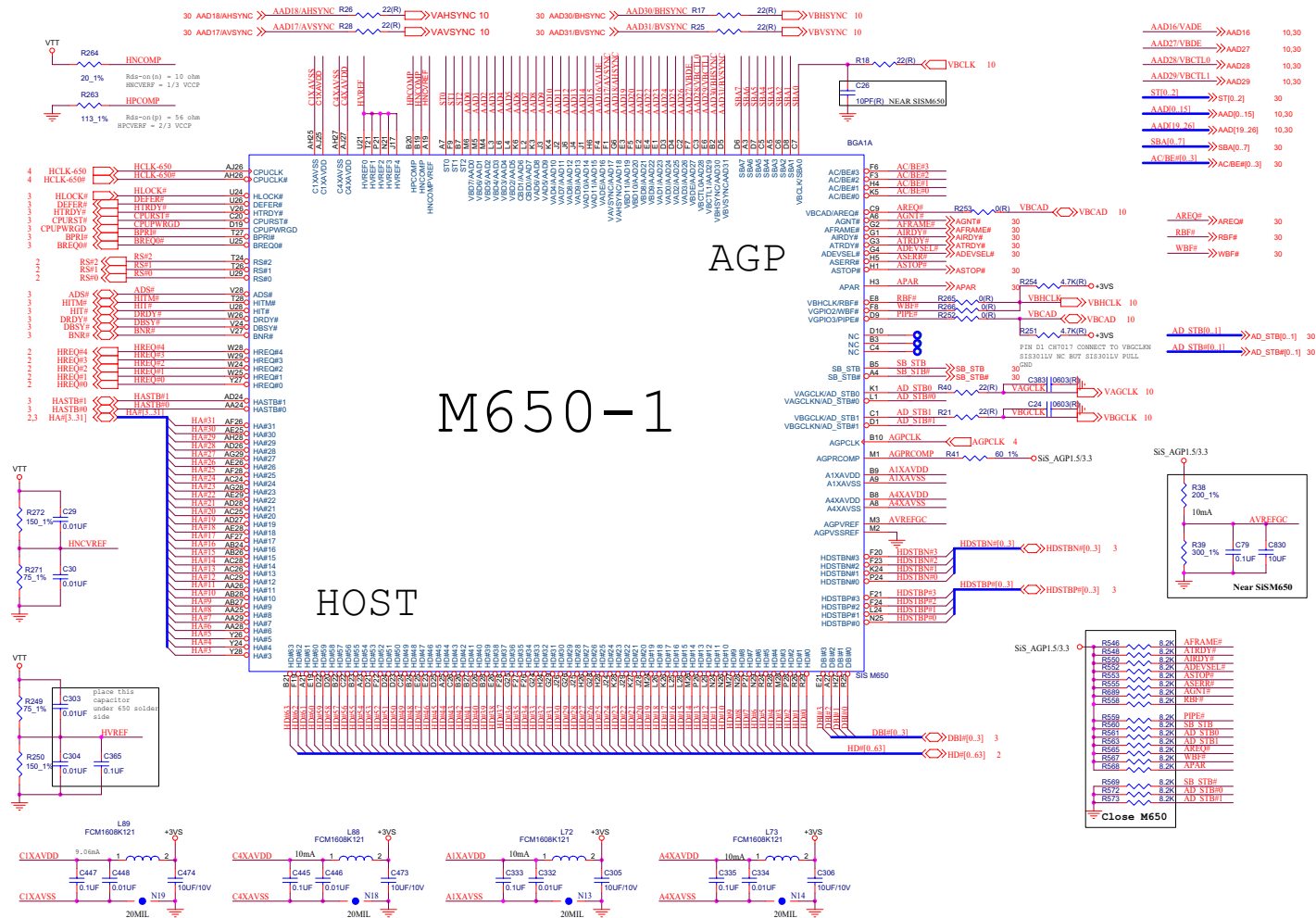


Sheet 4 of 41
Clock Generator

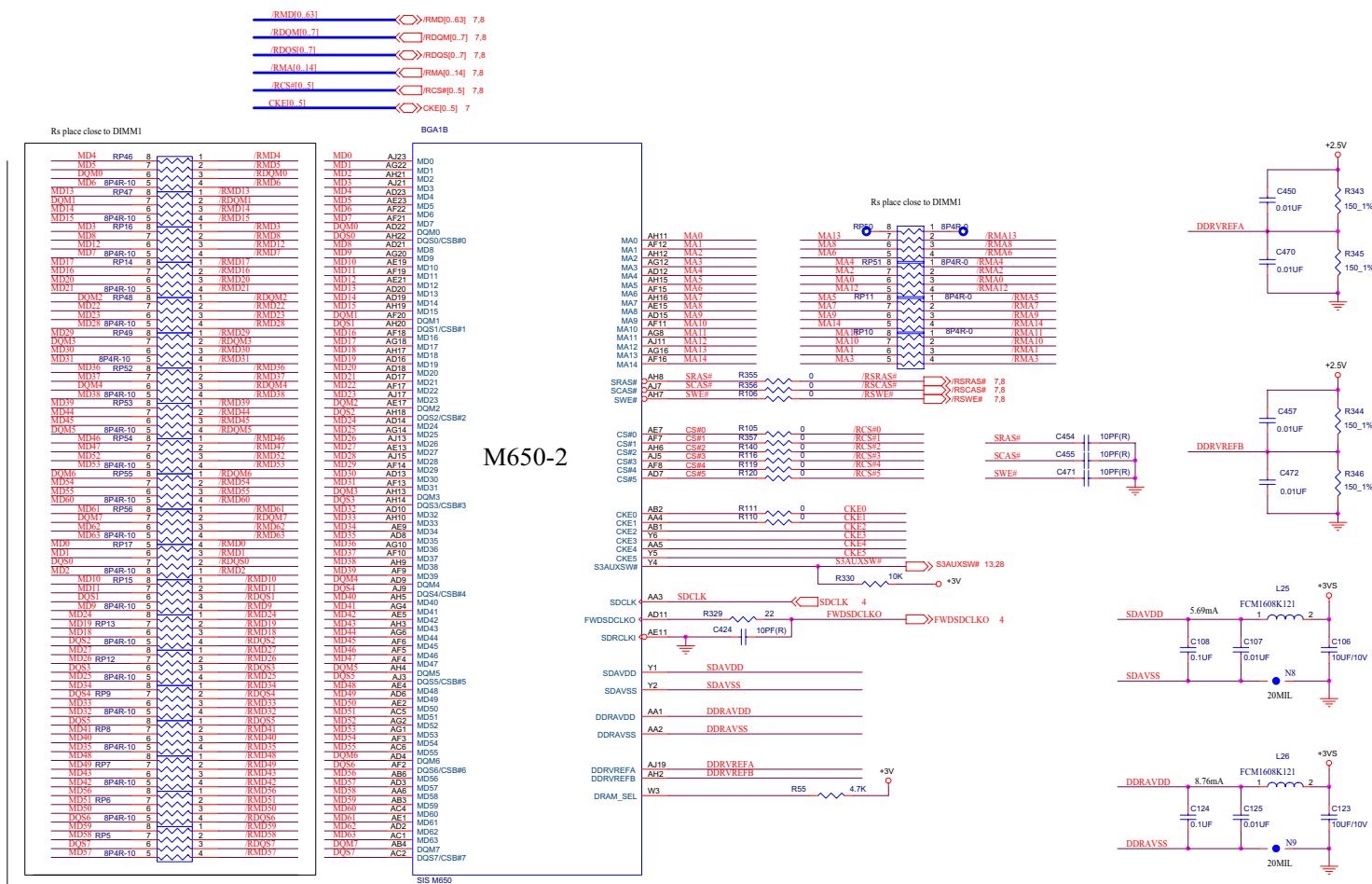


M645DX (Host/AGP) 1 of 4

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M650 (Host/AGP)
1 of 4



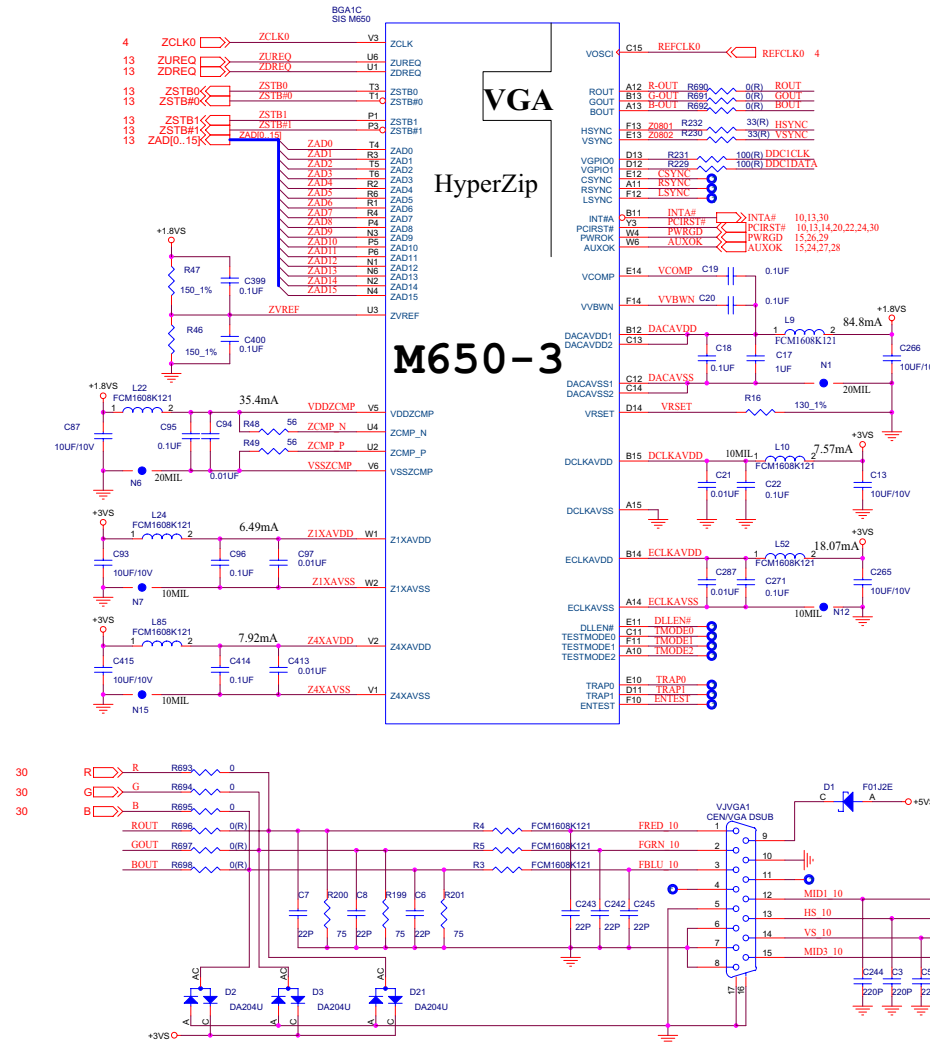
M645DX (Memory for DDR) 2 of 4



Sheet 6 of 41
M650
(Memory for DDR)
2 of 4

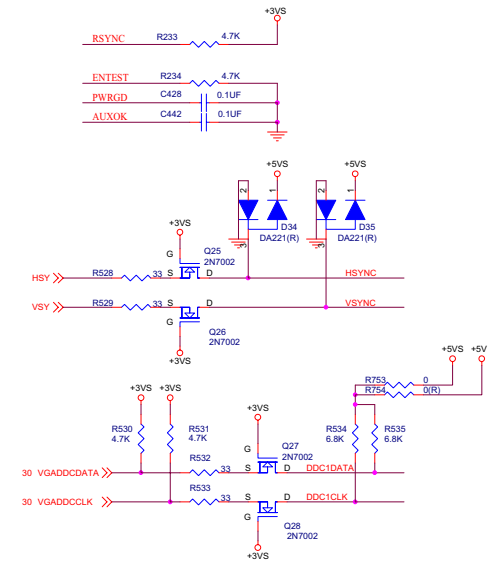
M645DX (& CRT Out) 3 of 4

Sheet 7 of 41
M650 & CRT Out
3 of 4

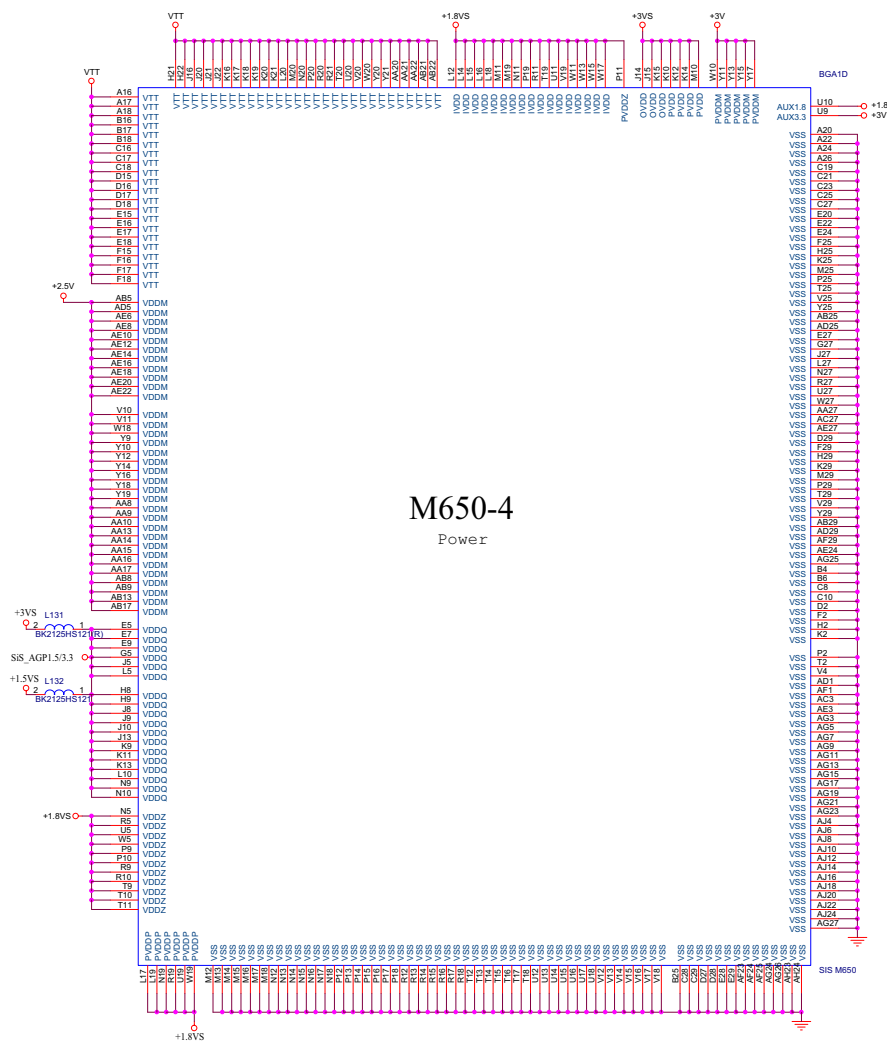


NOTE: This page is for universal PCB design(suitable for both 645 or 650)

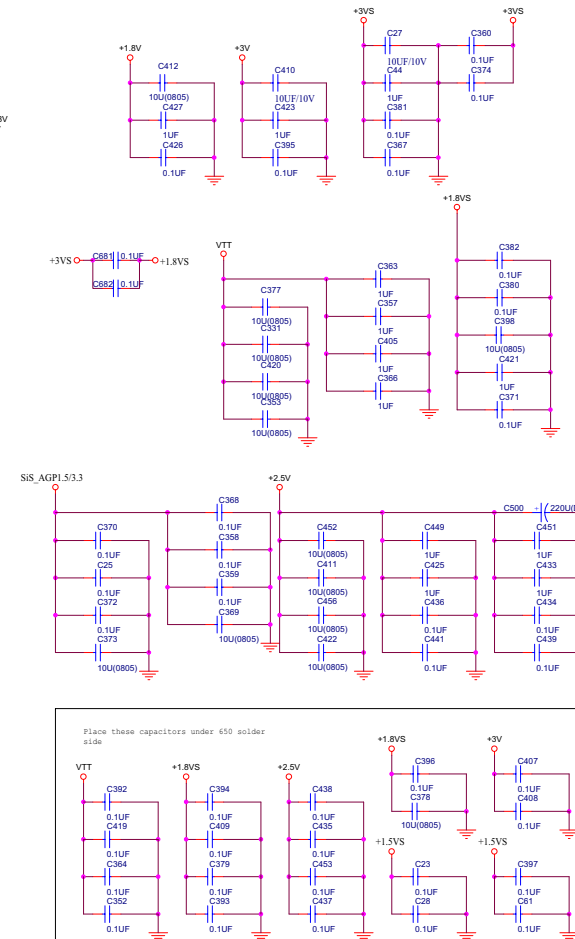
	0	1	Default	embedded pull-down (50-50k Ohm)
DLLEN#	enable	disable	PL	yes
DRAM_SEL	S0H	S1H	1 (f0H)	yes
TRAP0	normal	NB debug mode	0	yes
TRAP1	TV selection, NTSC/PAL(01)		0	yes
CSYNC	enable	VB		1
RSYNC	enable	VGA interface		1
LSYNC	enable	panel link		0



M645DX (Power) 4 of 4



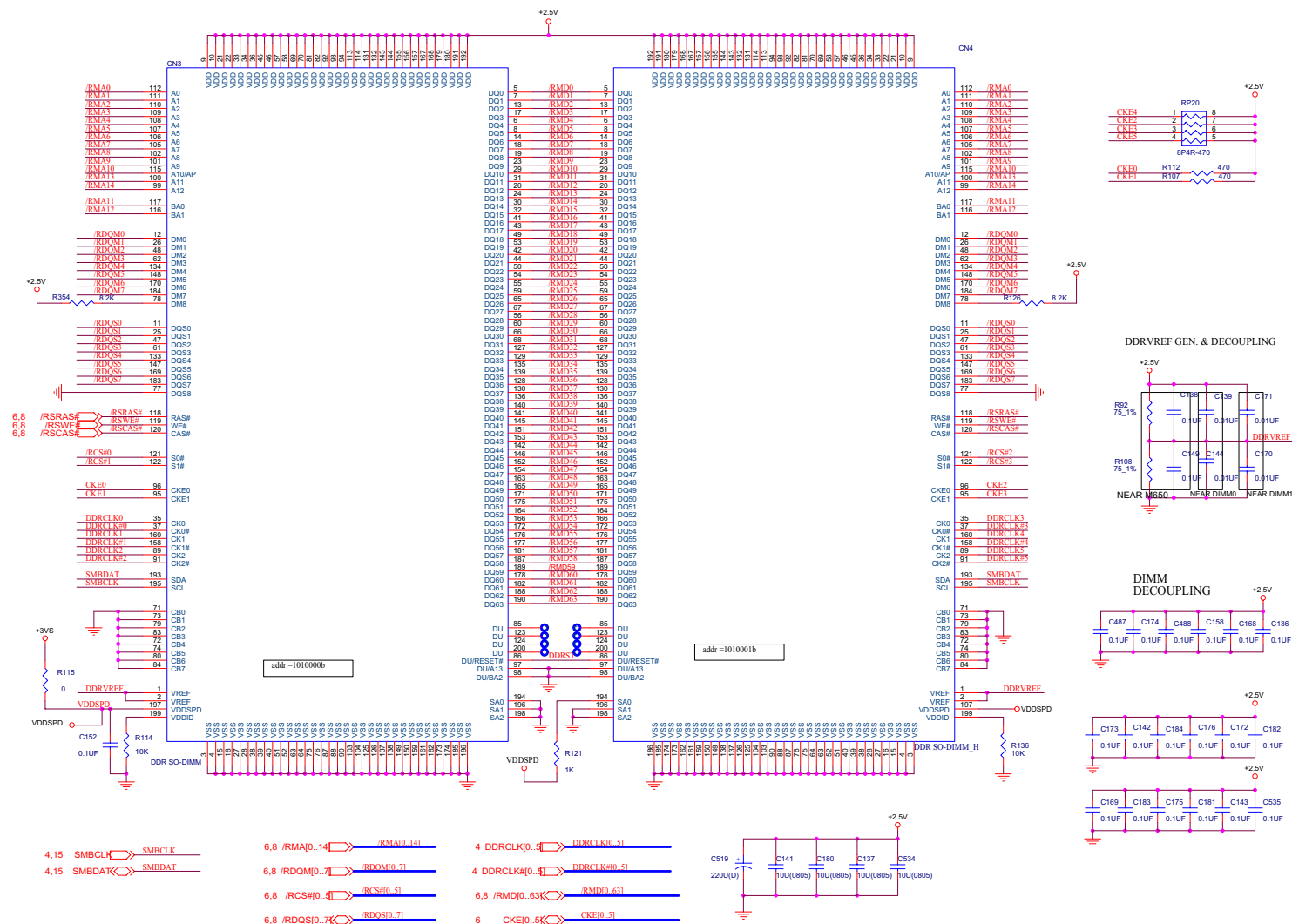
M650-4
Power



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M650 (Power)
4 of 4

B.Schematic Diagrams

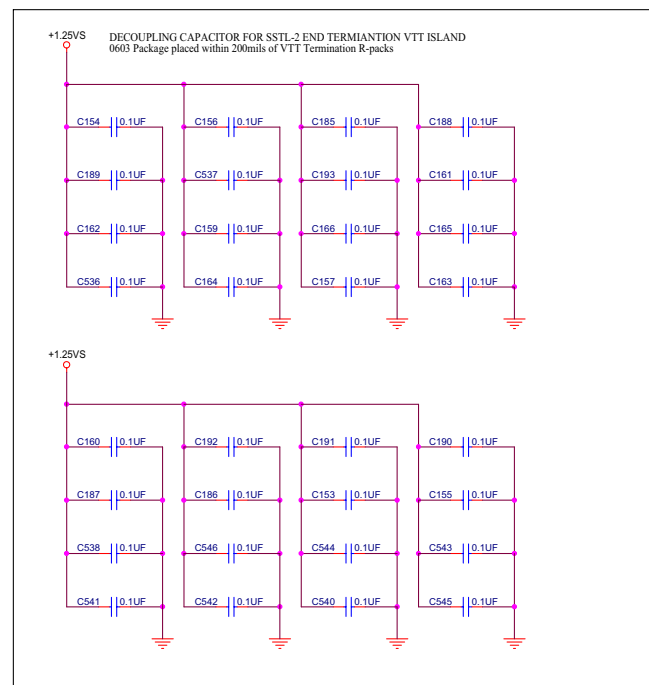
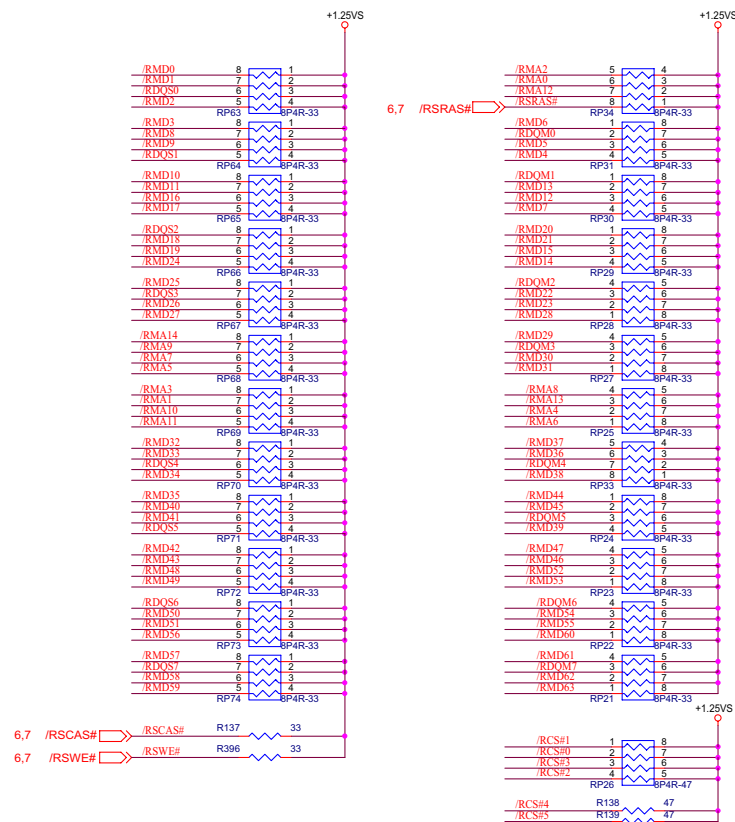
B.Schematic Diagrams



DDR SSTL-2 Termination

SSTL-2 Termination Resistors

	DDR	R _s	R _{tt}
MD/DQM(/DQS)	SSTL-2	10	33
MA/Control	SSTL-2	0	33
CS	SSTL-2	0	47
CKE	OD 2.5V		

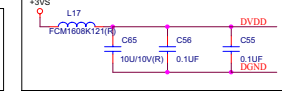
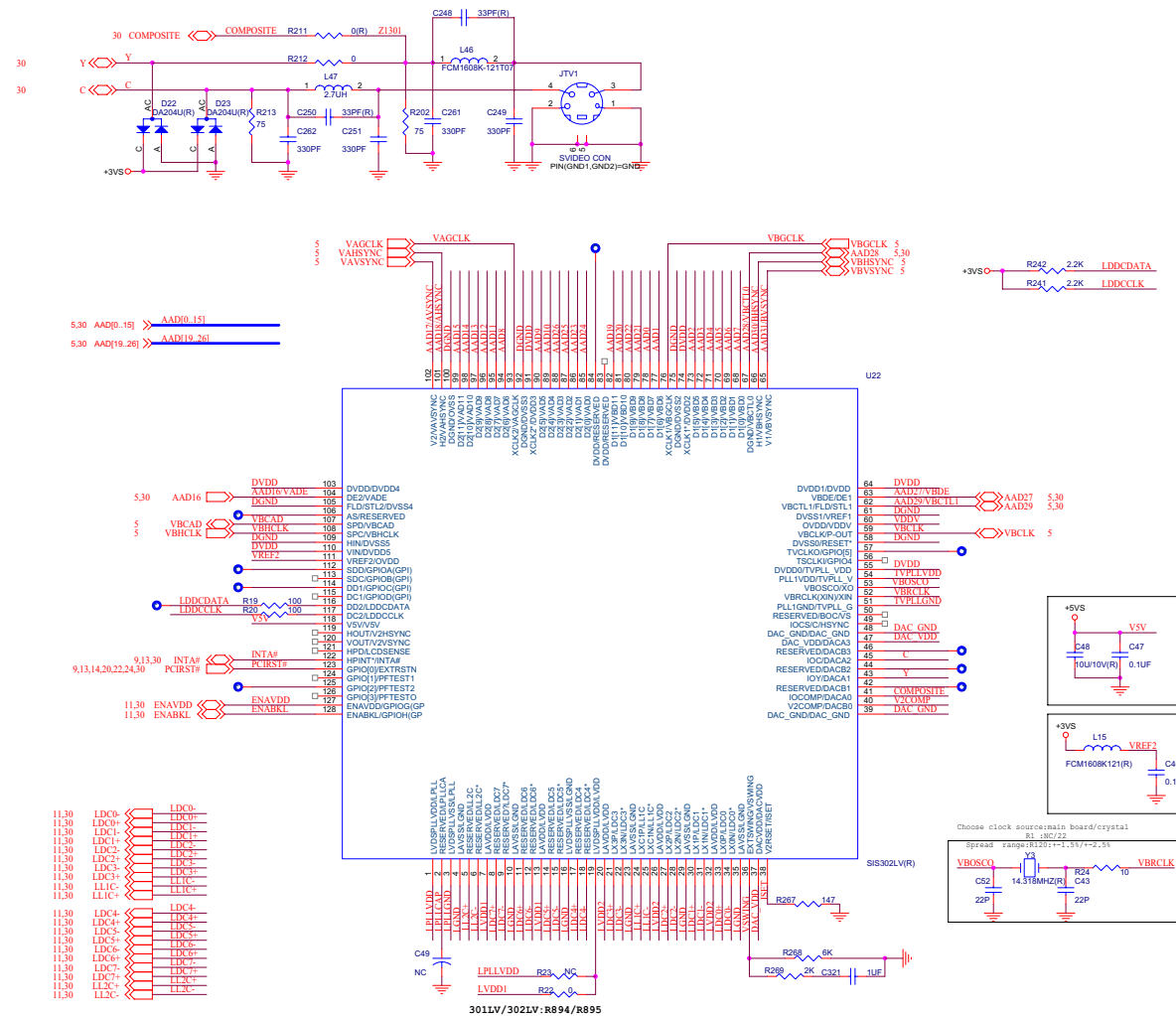


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DDR SSTL-2
Termination

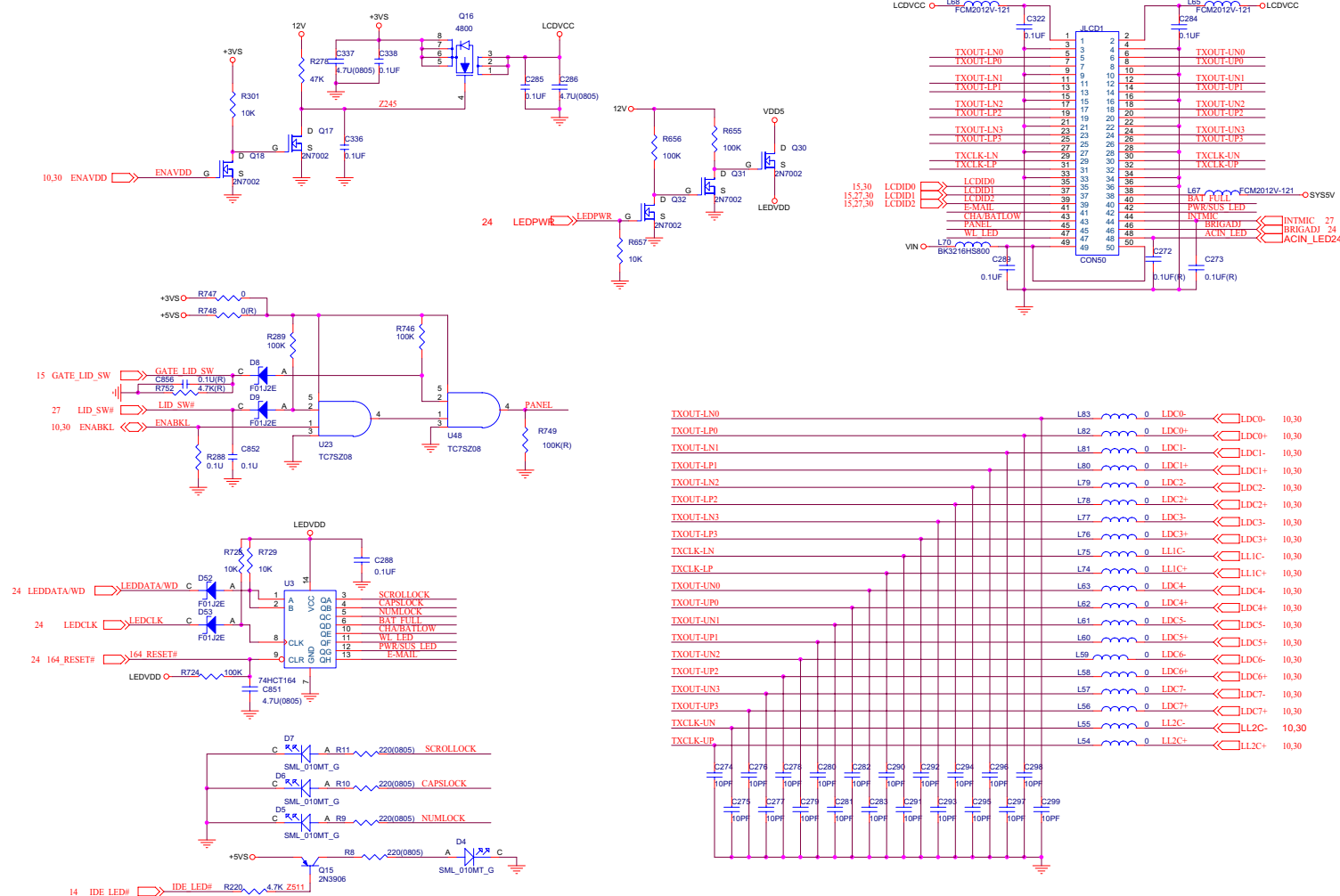
B. Schematic Diagrams

LVDS Interface (SiS302LV)

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LVDS interface
(SiS302LV)



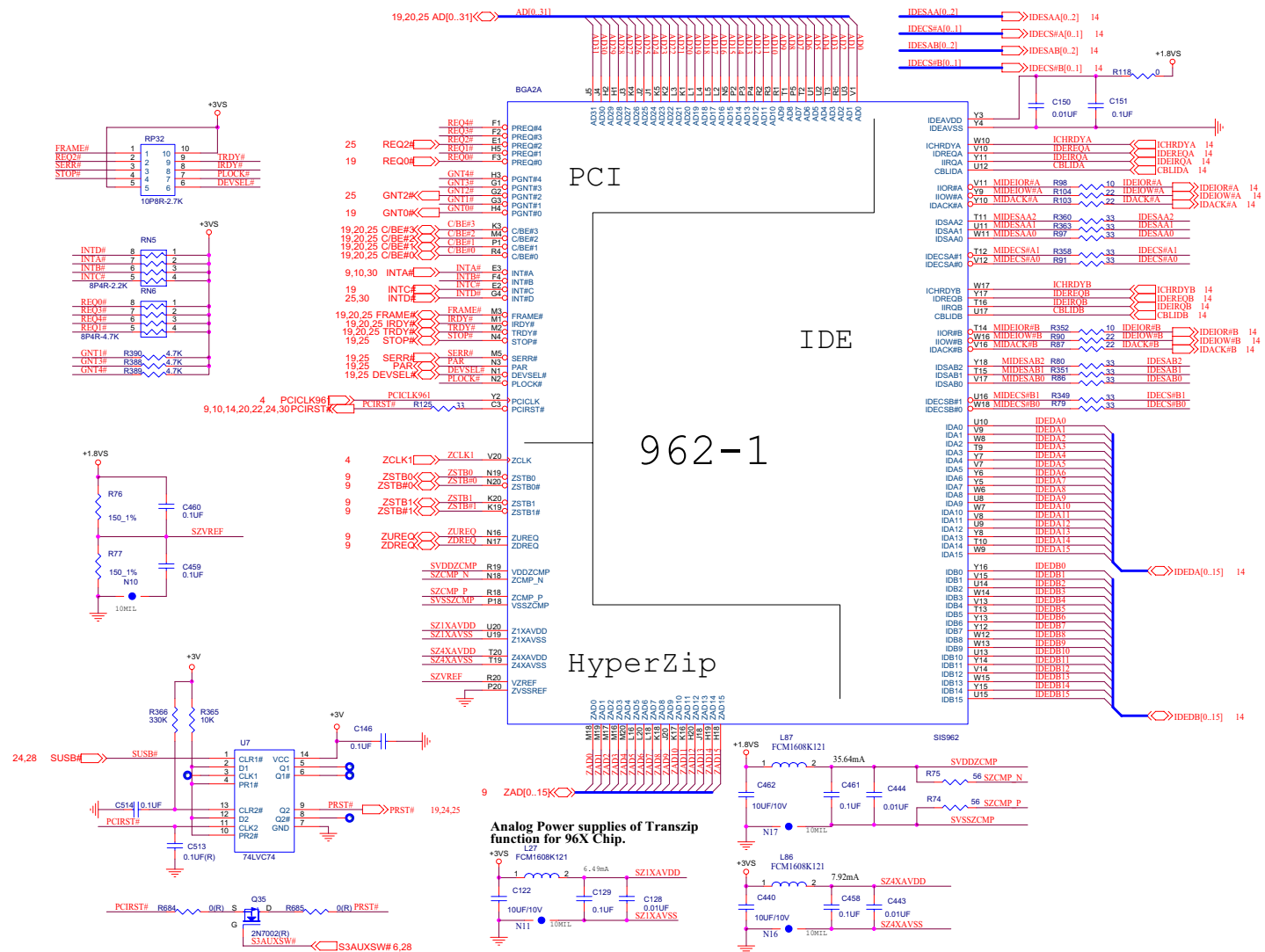
Panel Con & LED Indicator



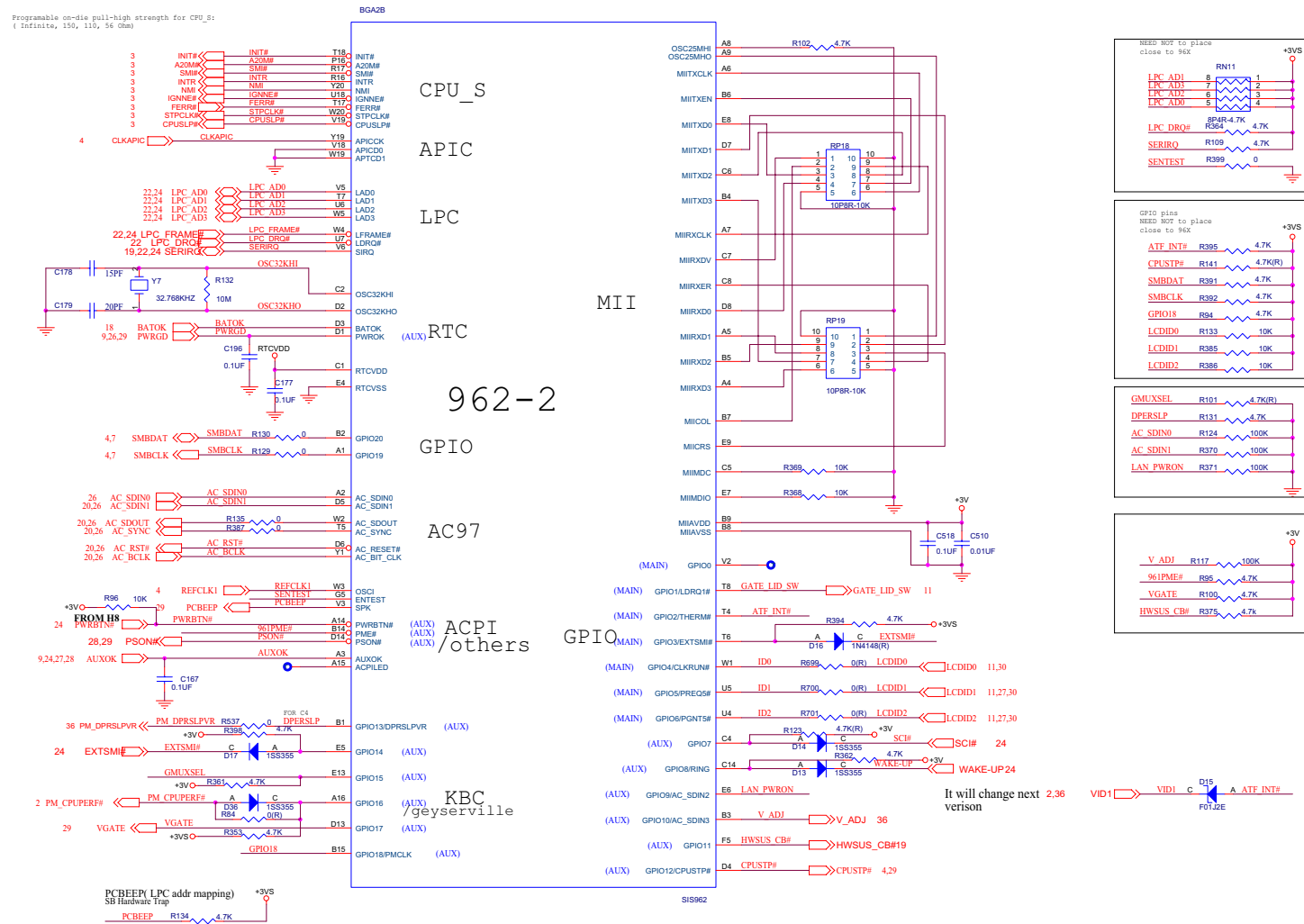
Sheet 12 of 41
Panel Con & LED
Indicator

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962 (PCI/IDE/
HyperZip)
1 of 4

B. Schematic Diagrams



962 (Misc Signals) 2 of 4

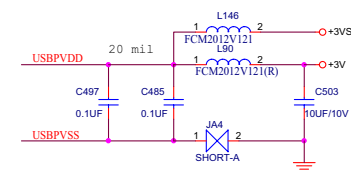
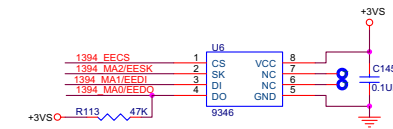
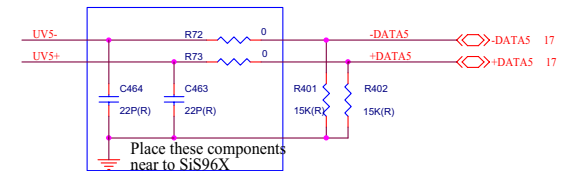
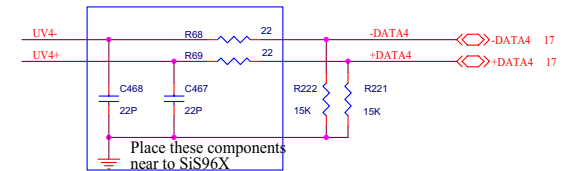
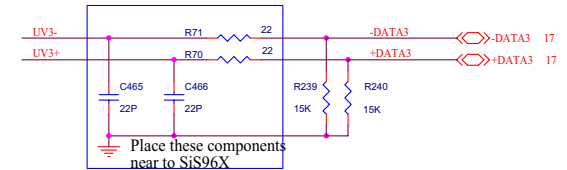
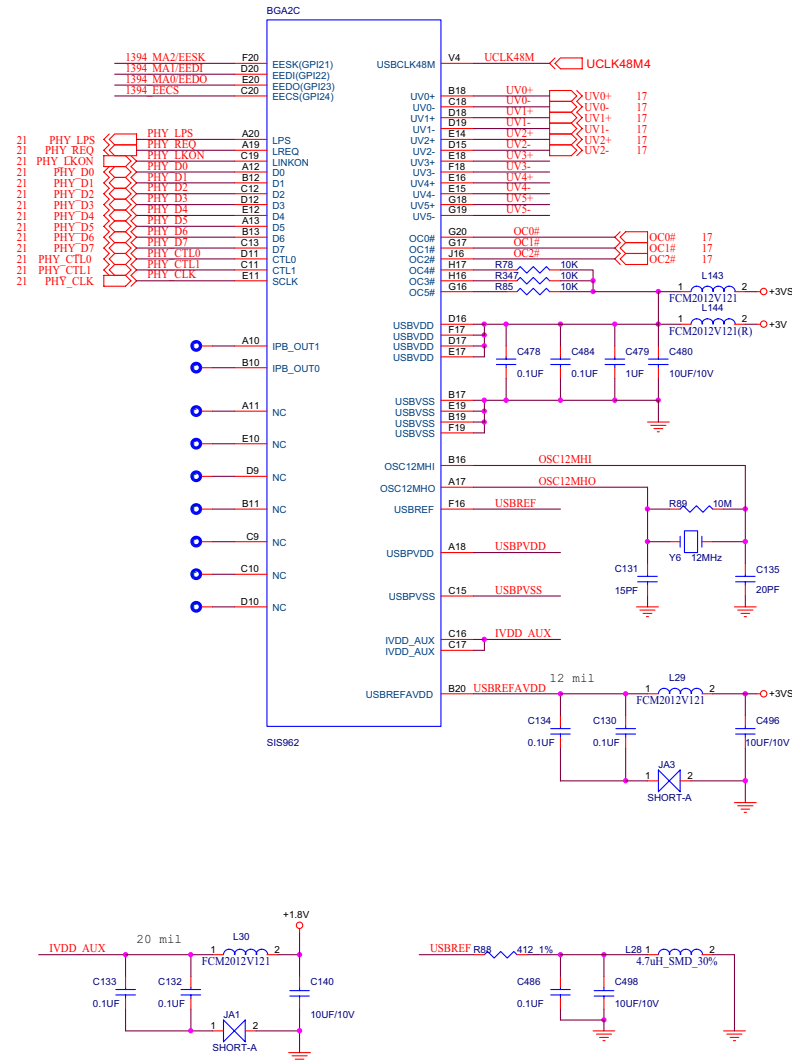


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962 (Misc Signals)
2 of 4

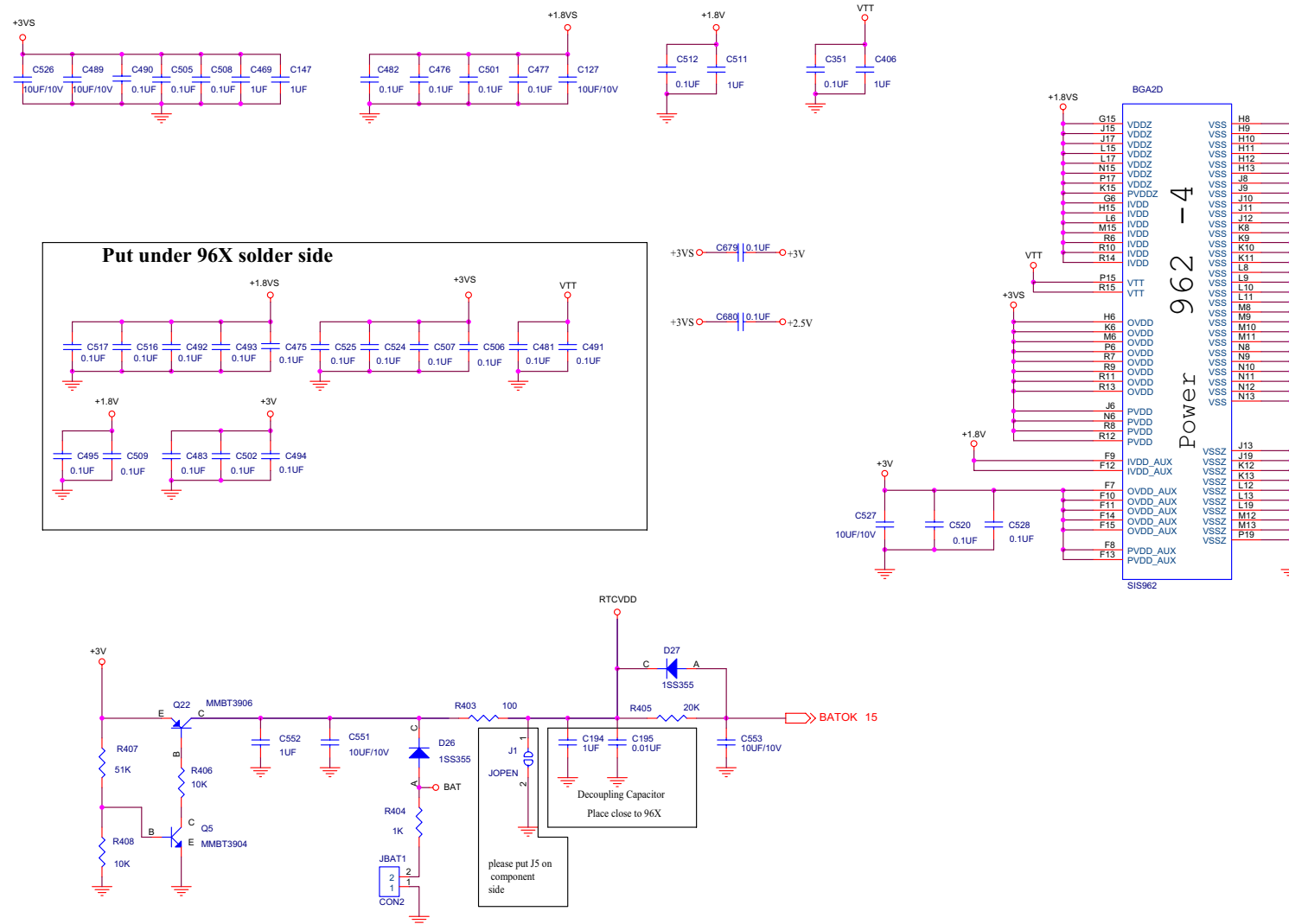
Schematic Diagrams

962 (USB I/F) 3 of 4

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962 (USB I/F)
3 of 4



962 (Power & RTC) 4 of 4

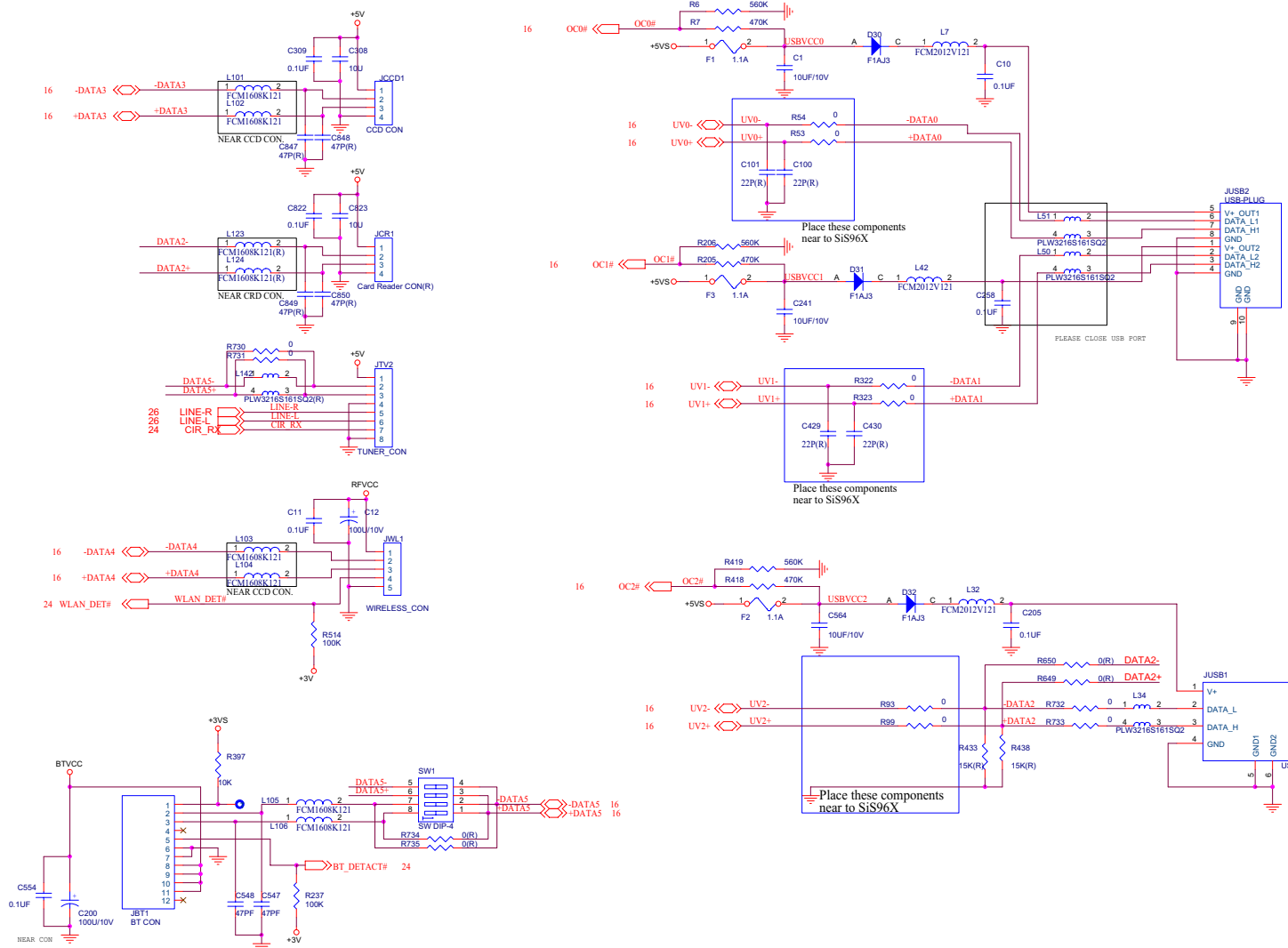


Sheet 16 of 41
962 (Power & RTC)
4 of 4

B.Schematic Diagrams

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USB Port



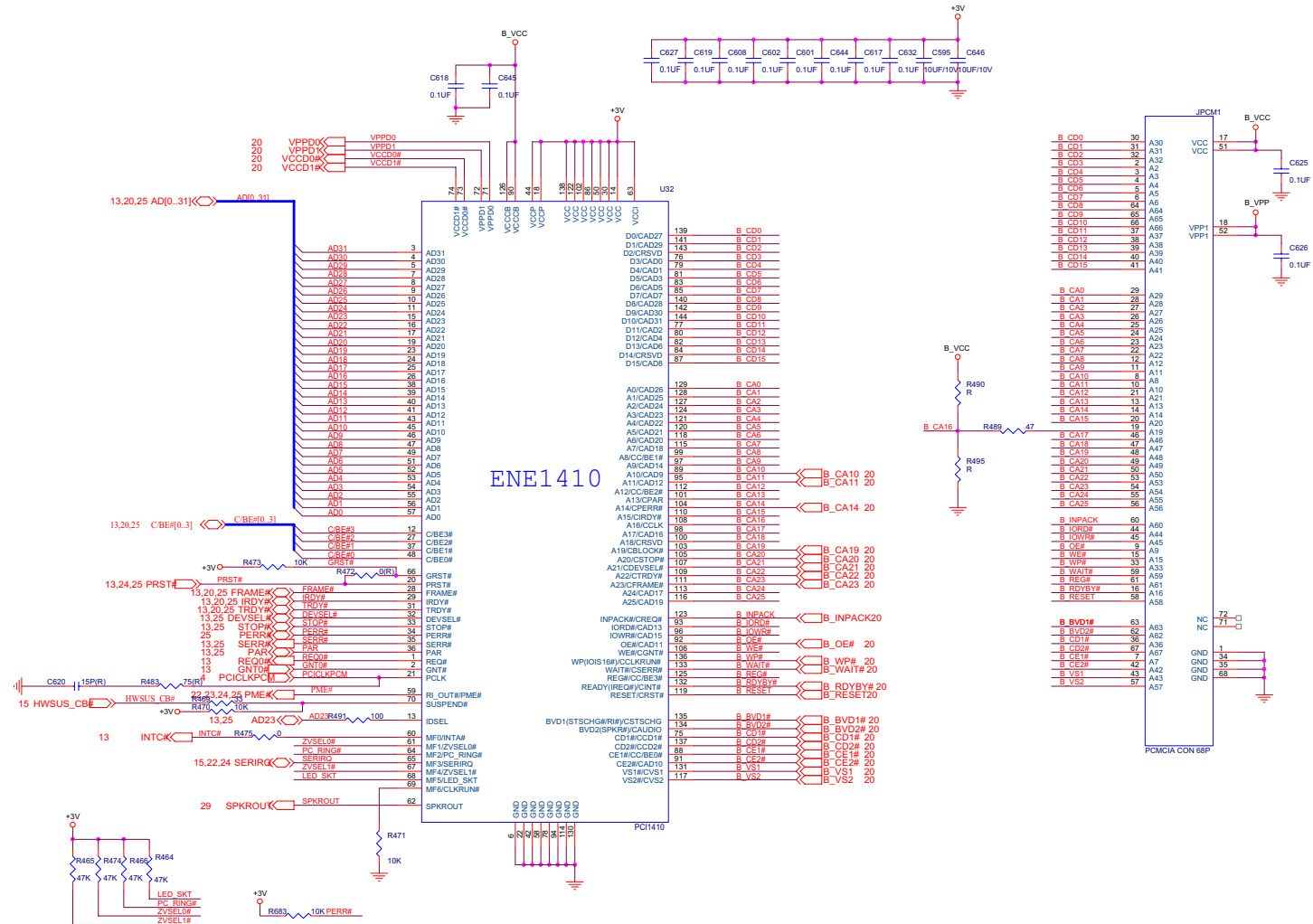
Sheet 18 of 41
USB Port

B.Schematic Diagrams

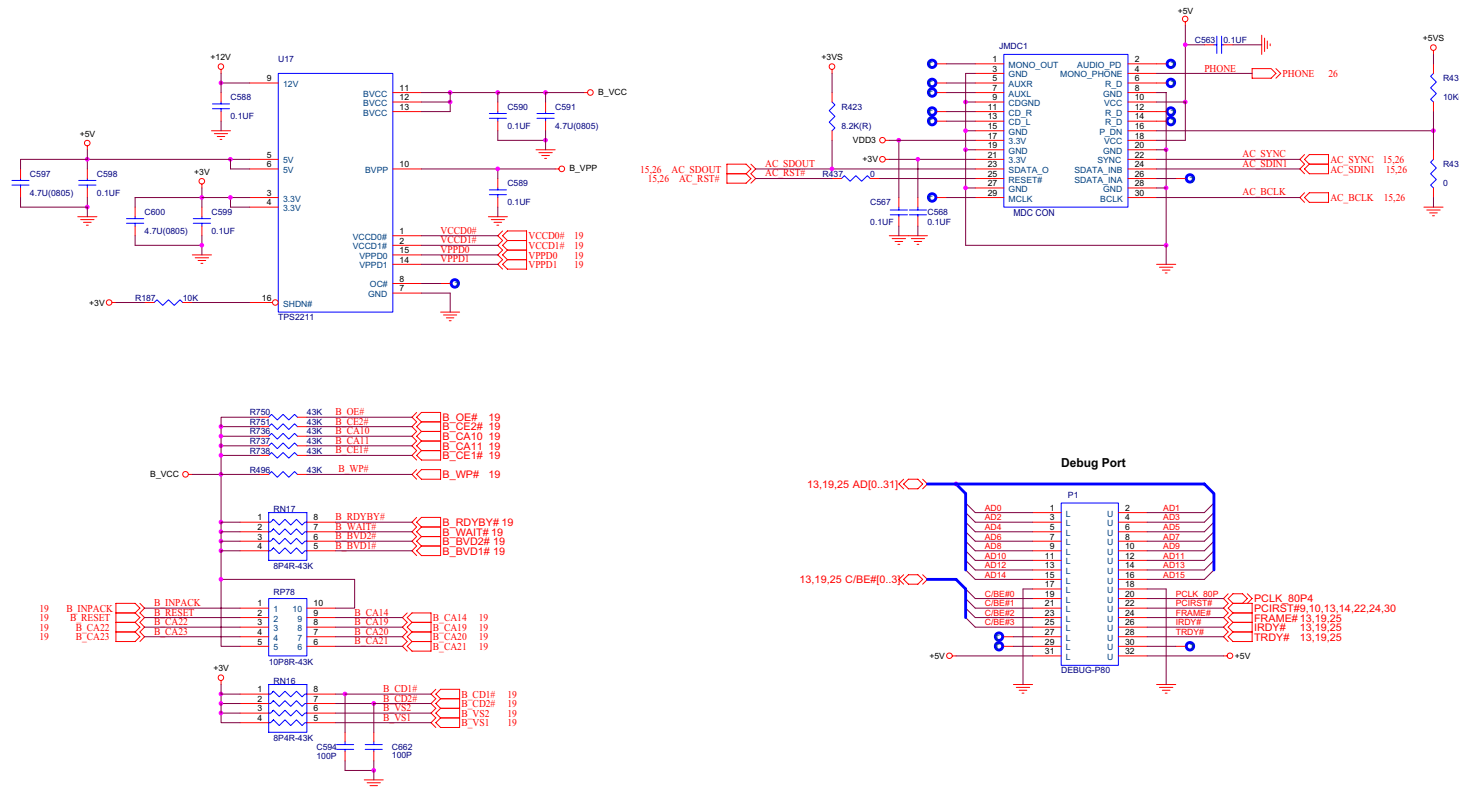
Schematic Diagrams

PCMCIA ENE CB1410

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PCMCIA TI1410



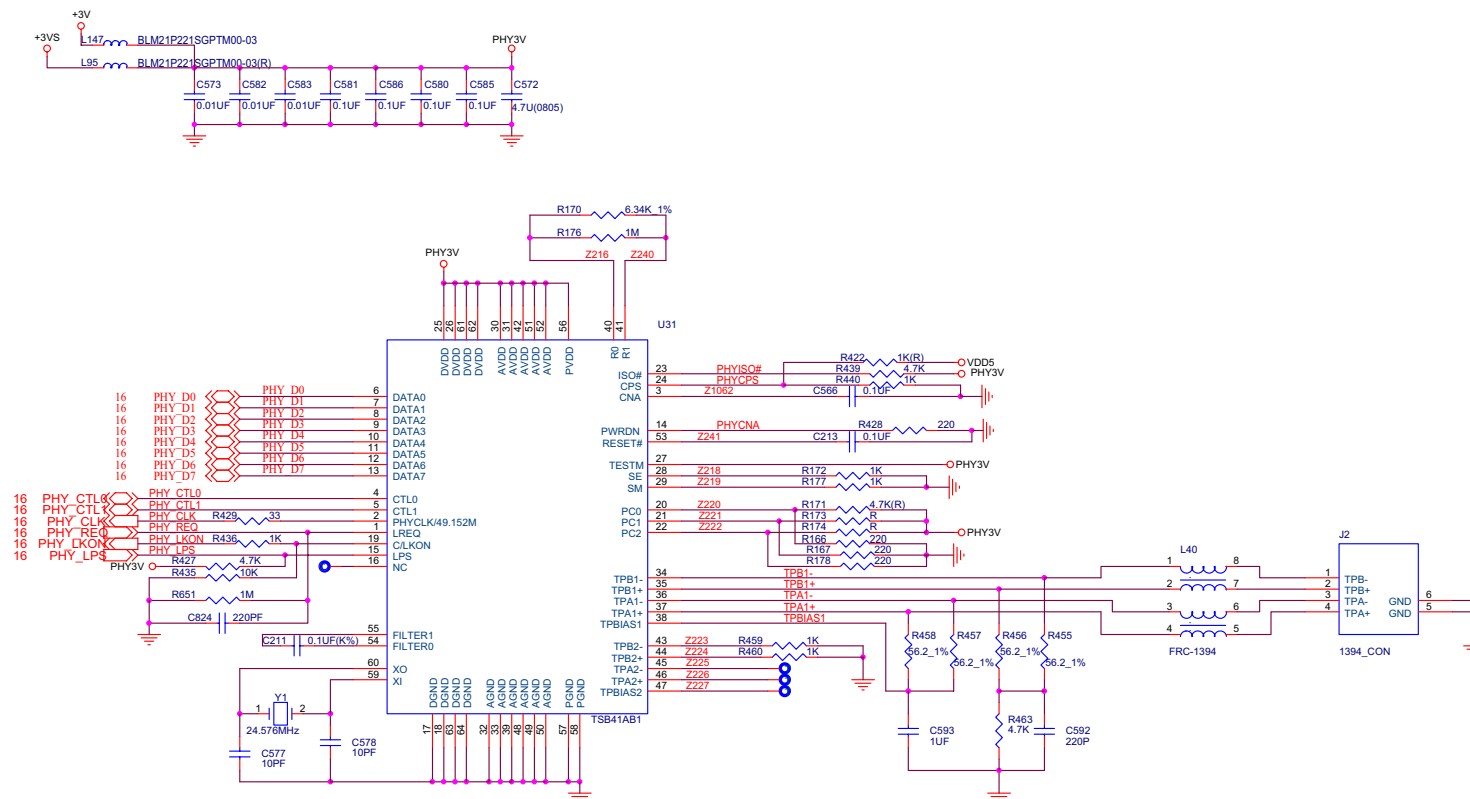
PCMCIA Power



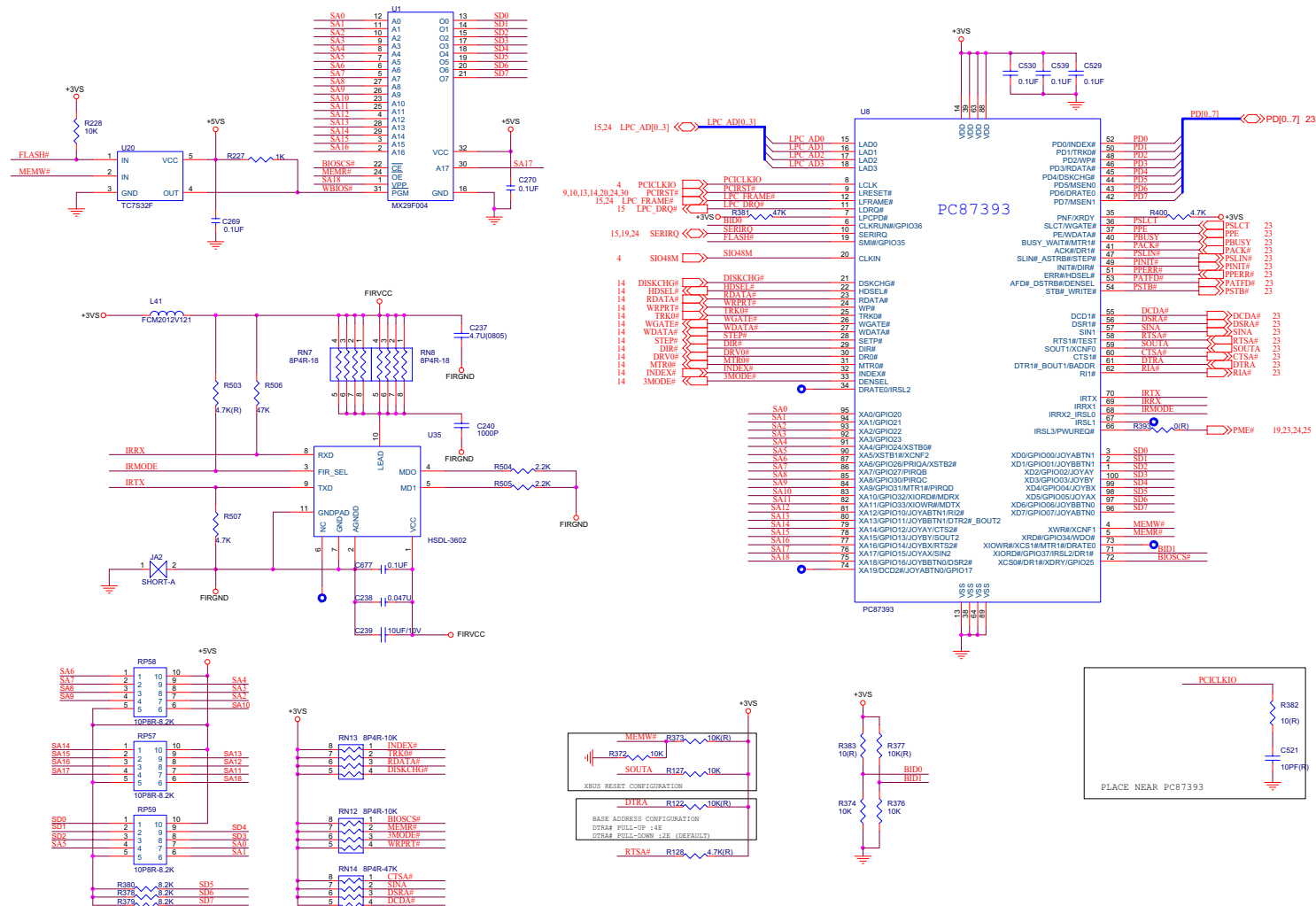
Sheet 20 of 41
PCMCIA Power

B. Schematic Diagrams

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1394 PHY
TSB41LV01

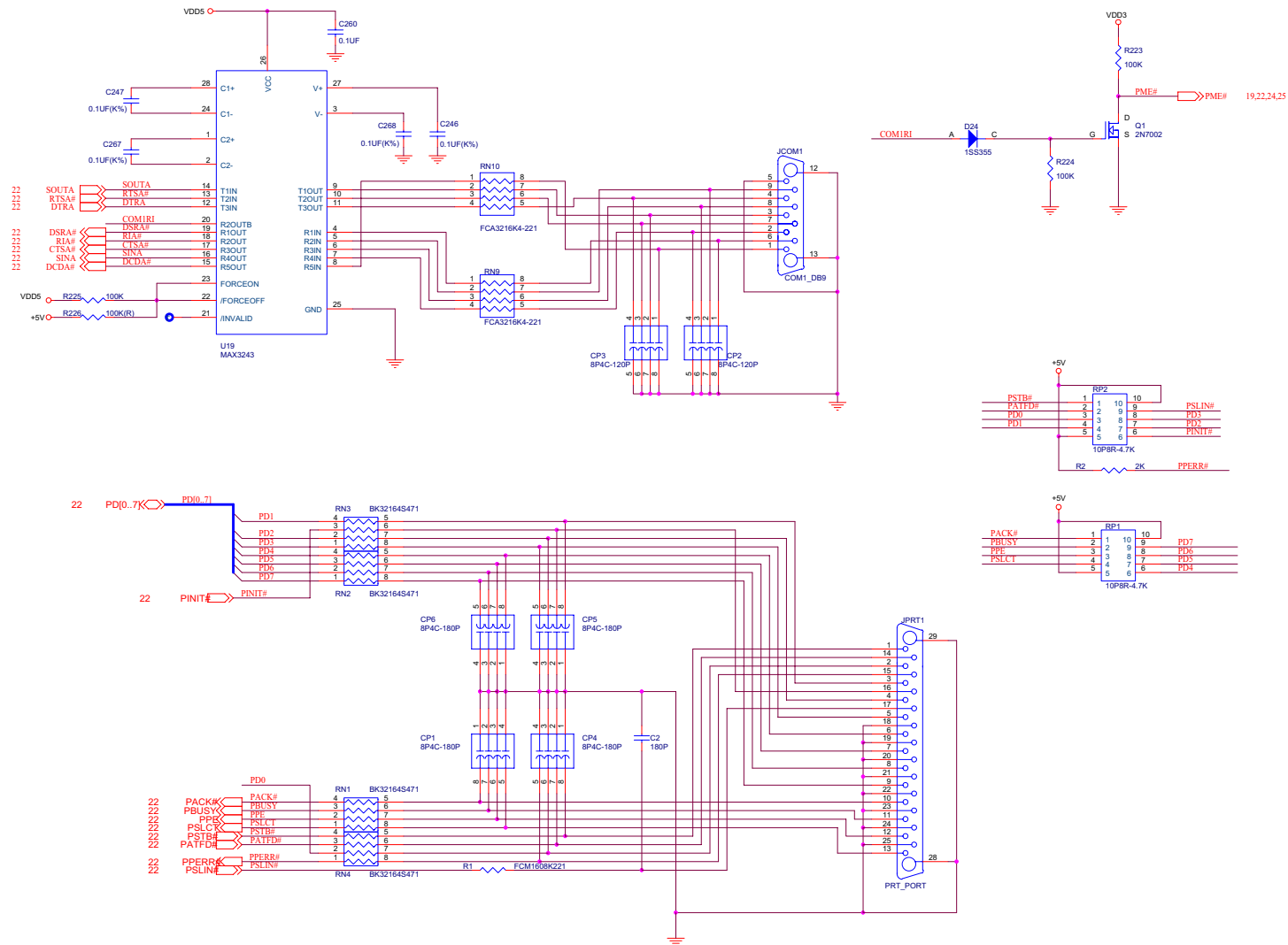


LPC Super I/O

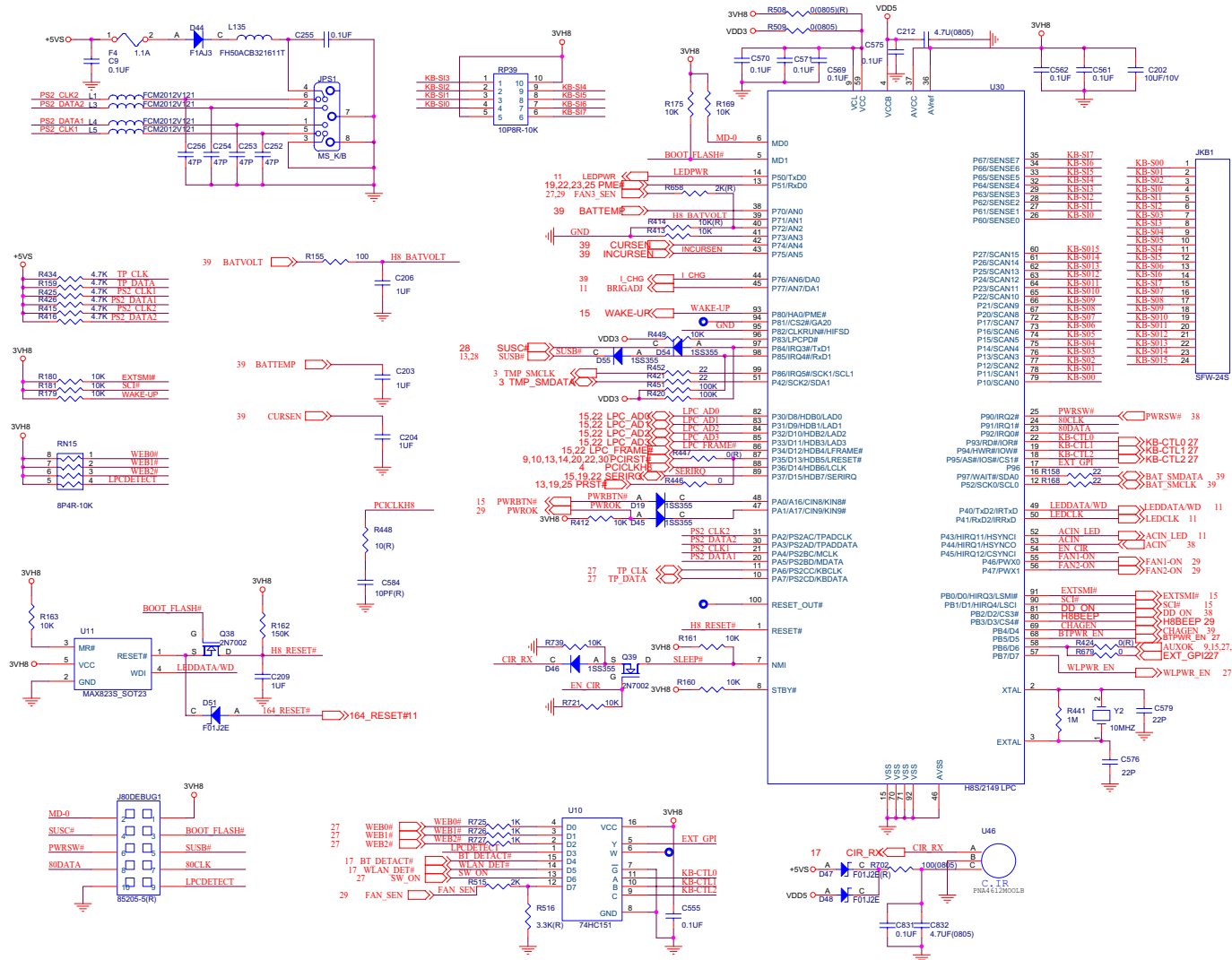


LPT/COM Port

B. Schematic Diagrams



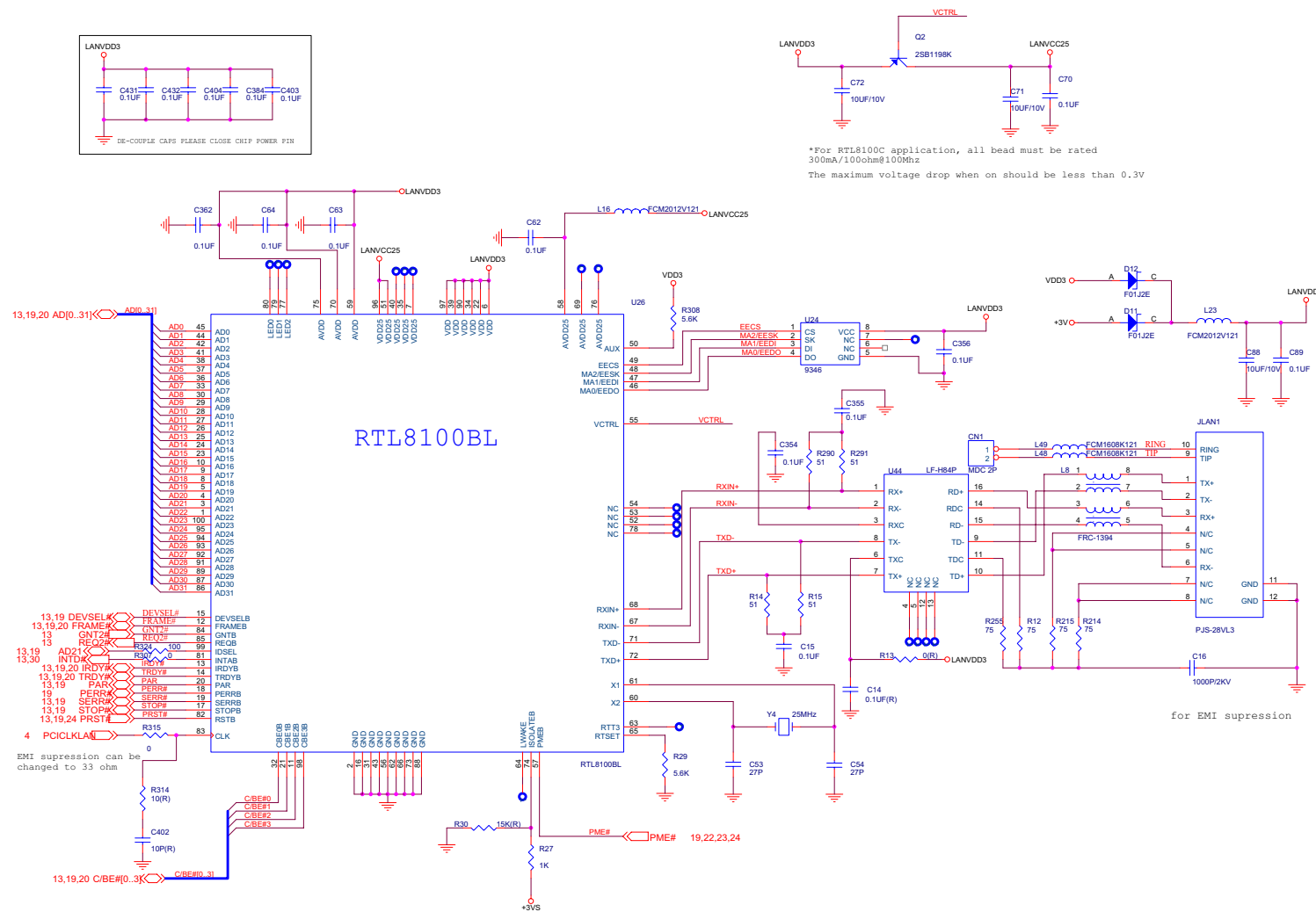
LPC H8



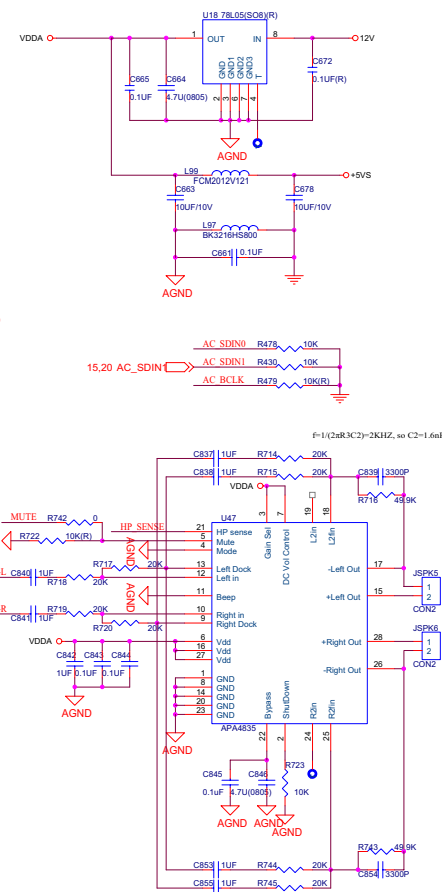
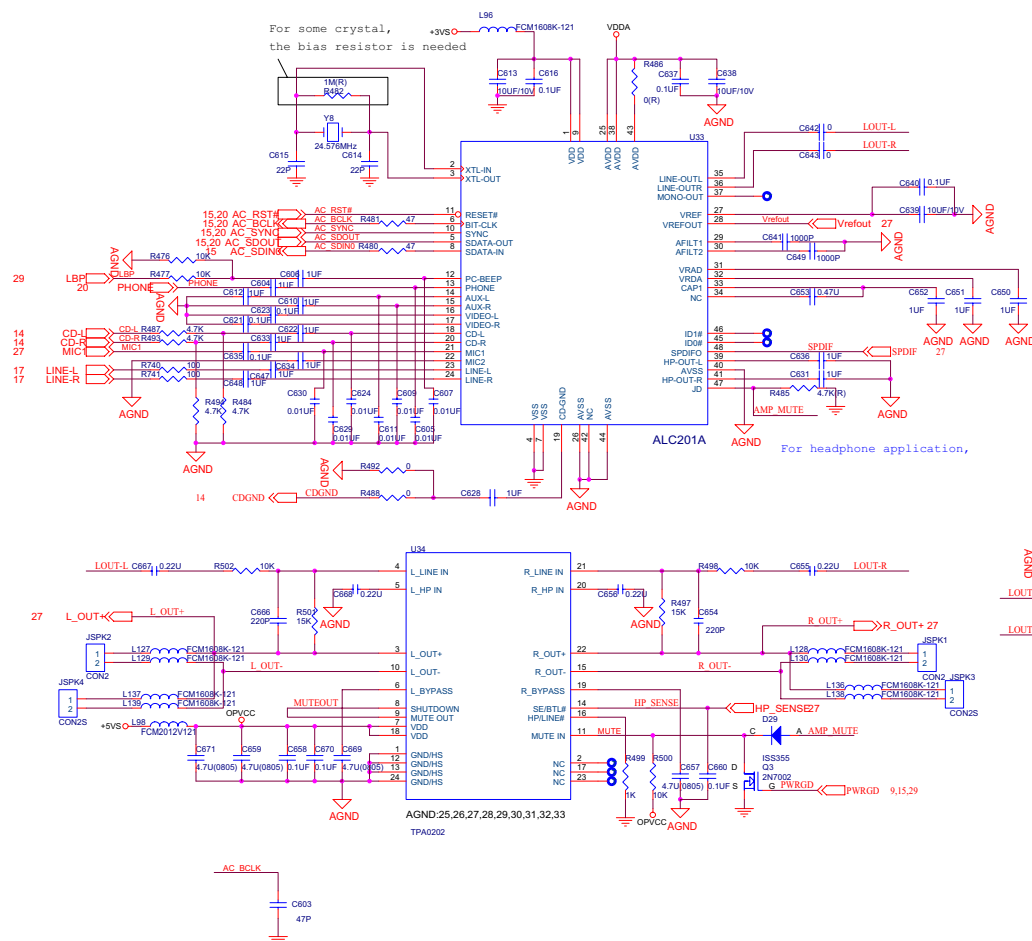
LAN RTL8100BL

Schematic Diagrams

Sheet 25 of 41
LAN RTL8100BL



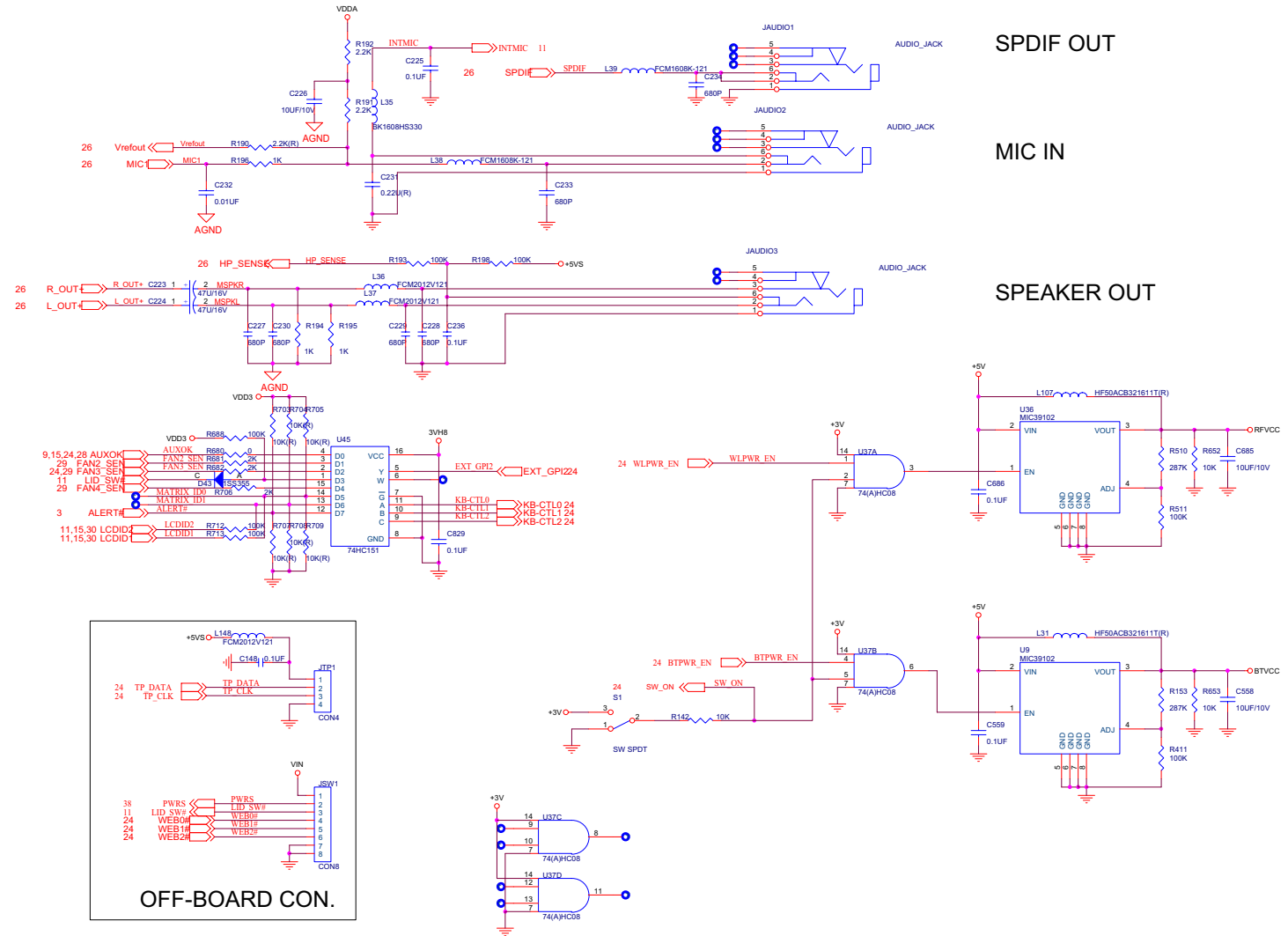
Audio Codec ALC201A



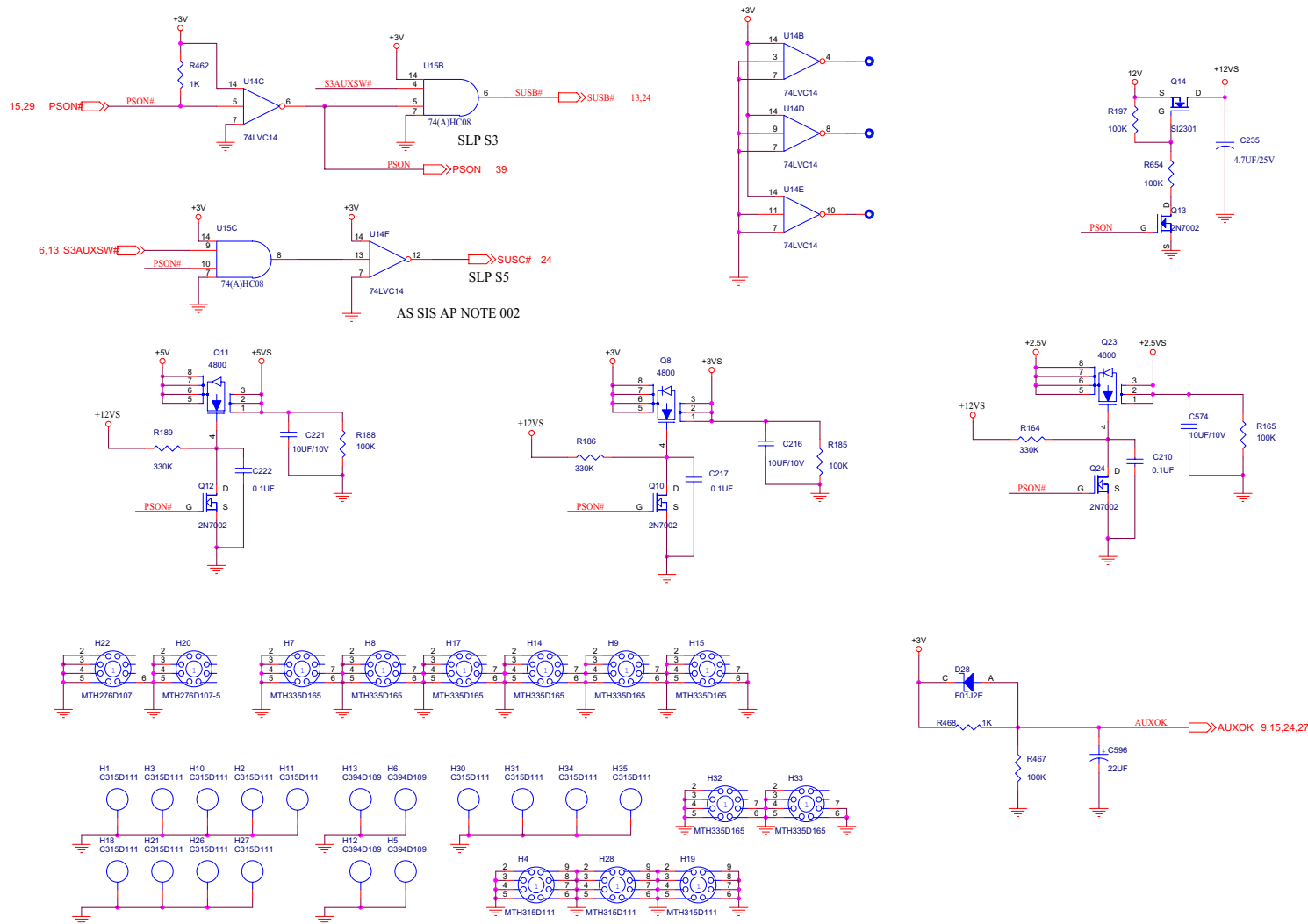
Sheet 26 of 41
Audio Codec
ALC201A

Schematic Diagrams

Audio Out & Off Board Connectors



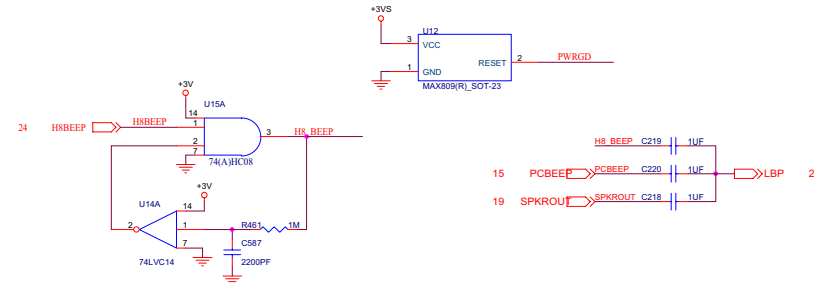
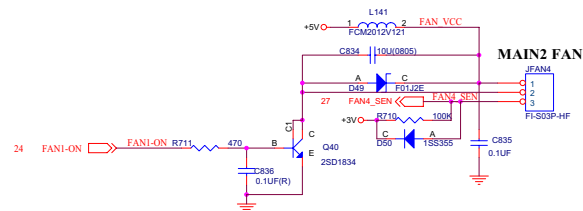
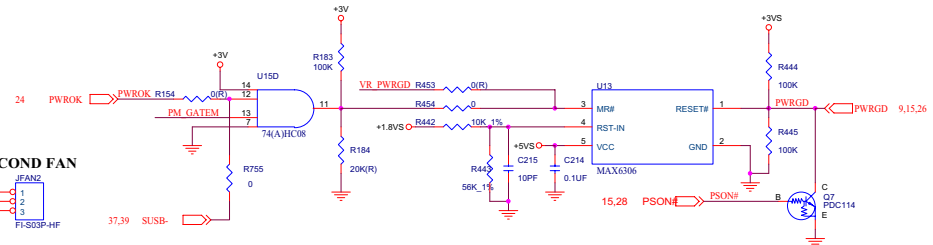
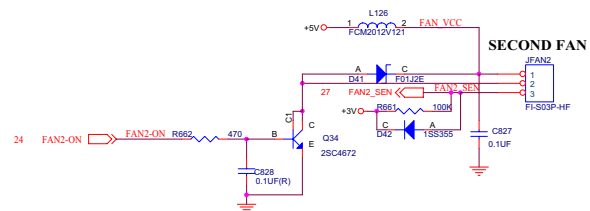
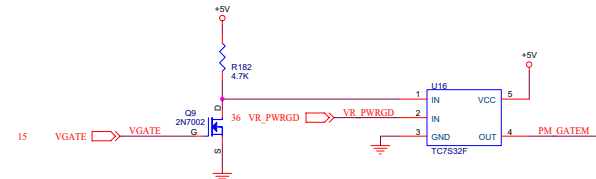
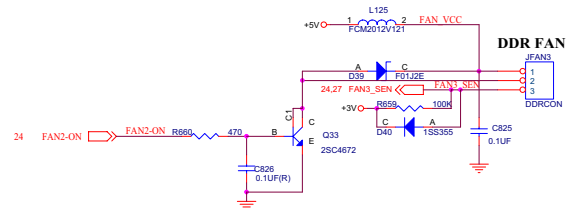
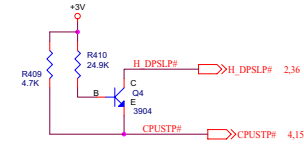
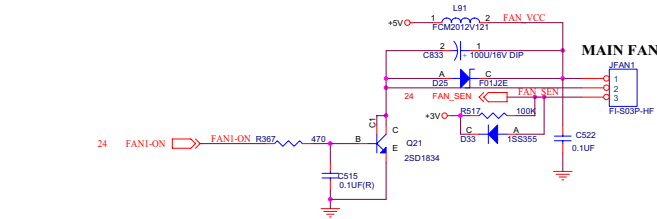
System Power Control



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System Power
Control

Schematic Diagrams

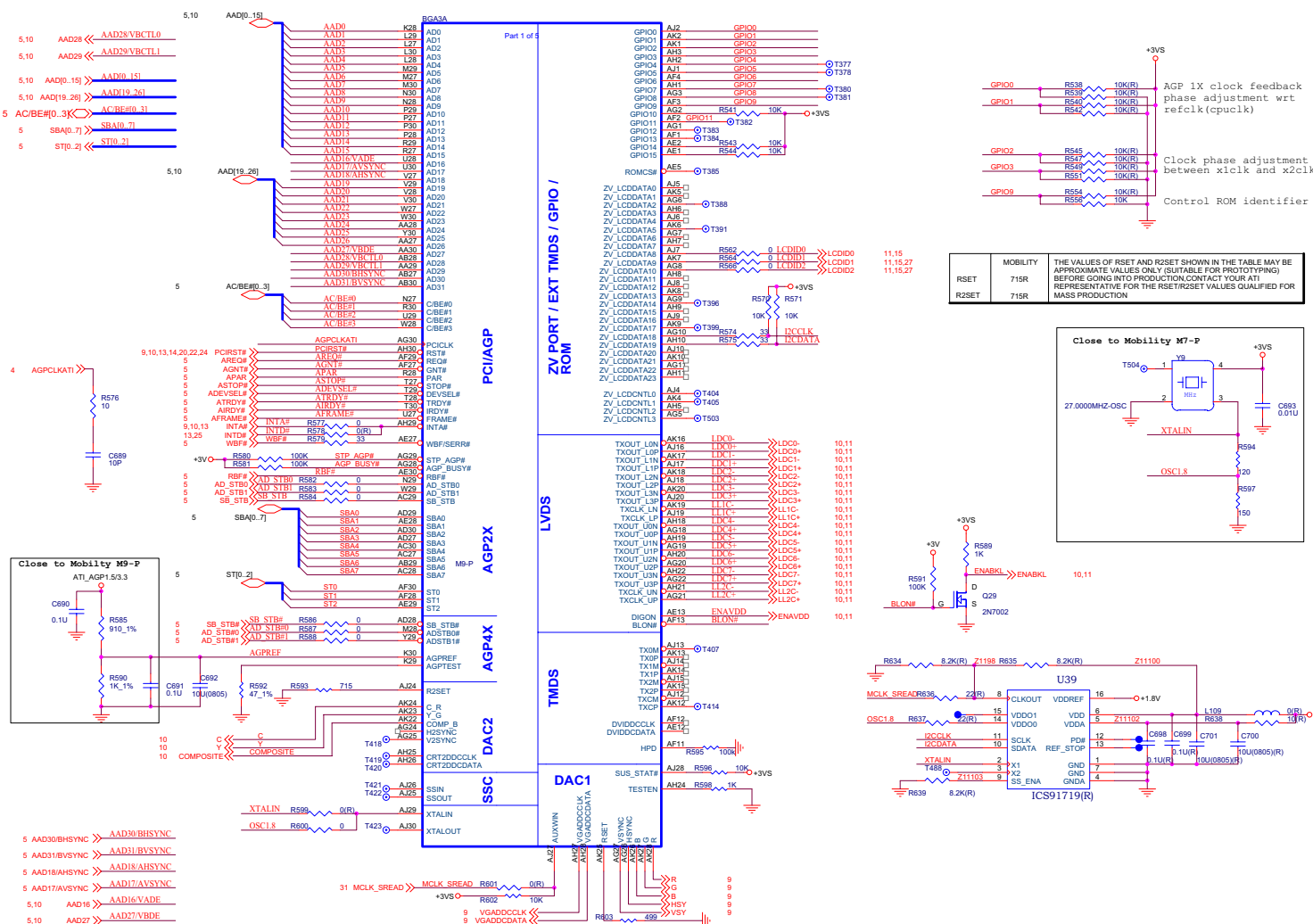
Fan Control and SpeedStep



Sheet 29 of 41
Fan Control &
SpeedStep

B.Schematic Diagrams

Mobility M9-P



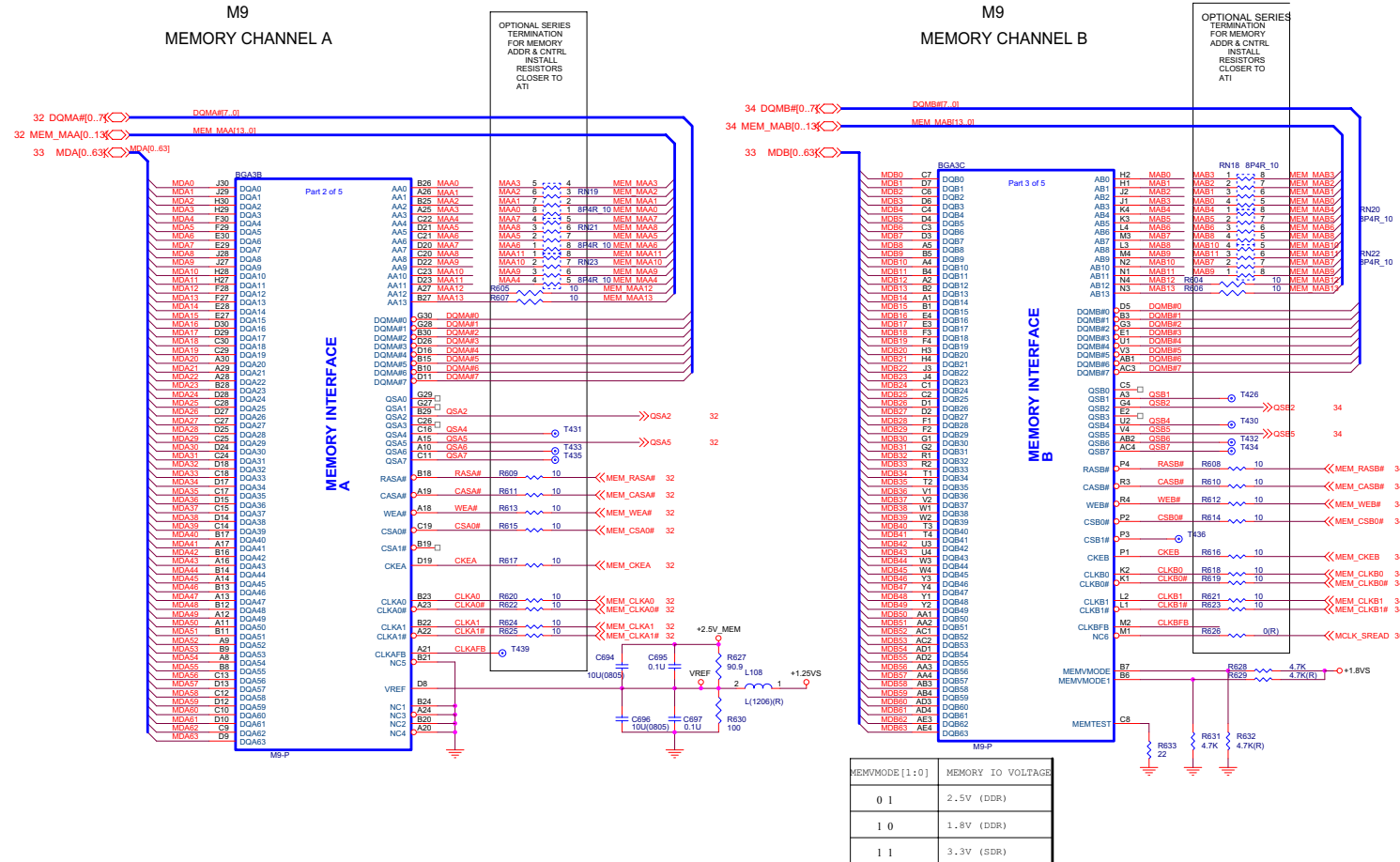
Sheet 30 of 41
Mobility M9-P

B. Schematic Diagrams

Schematic Diagrams

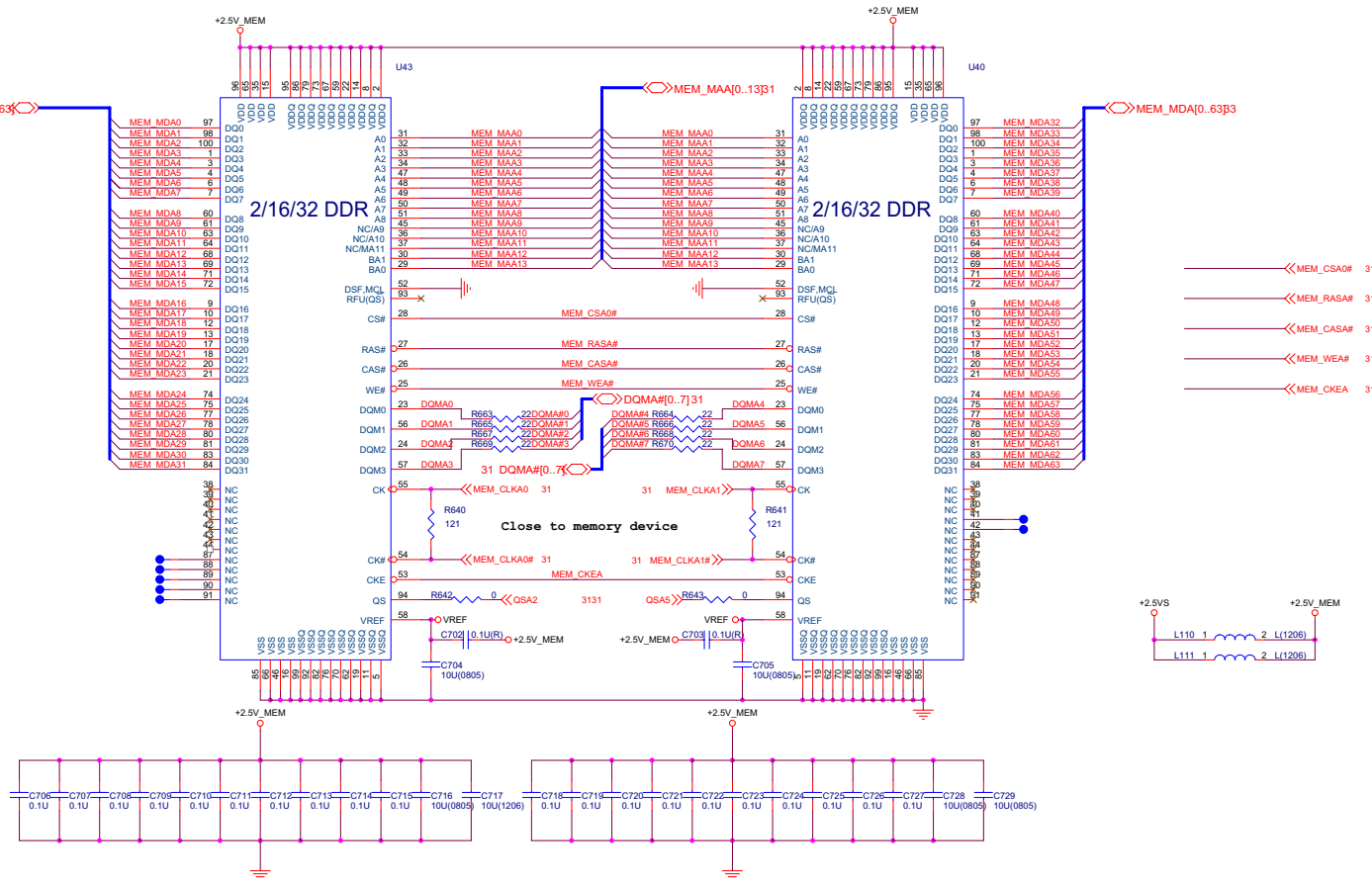
Mobility M9-P MEM A/B

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Mobility M9-P
MEM A/B



VGA DRAM 1 of 2

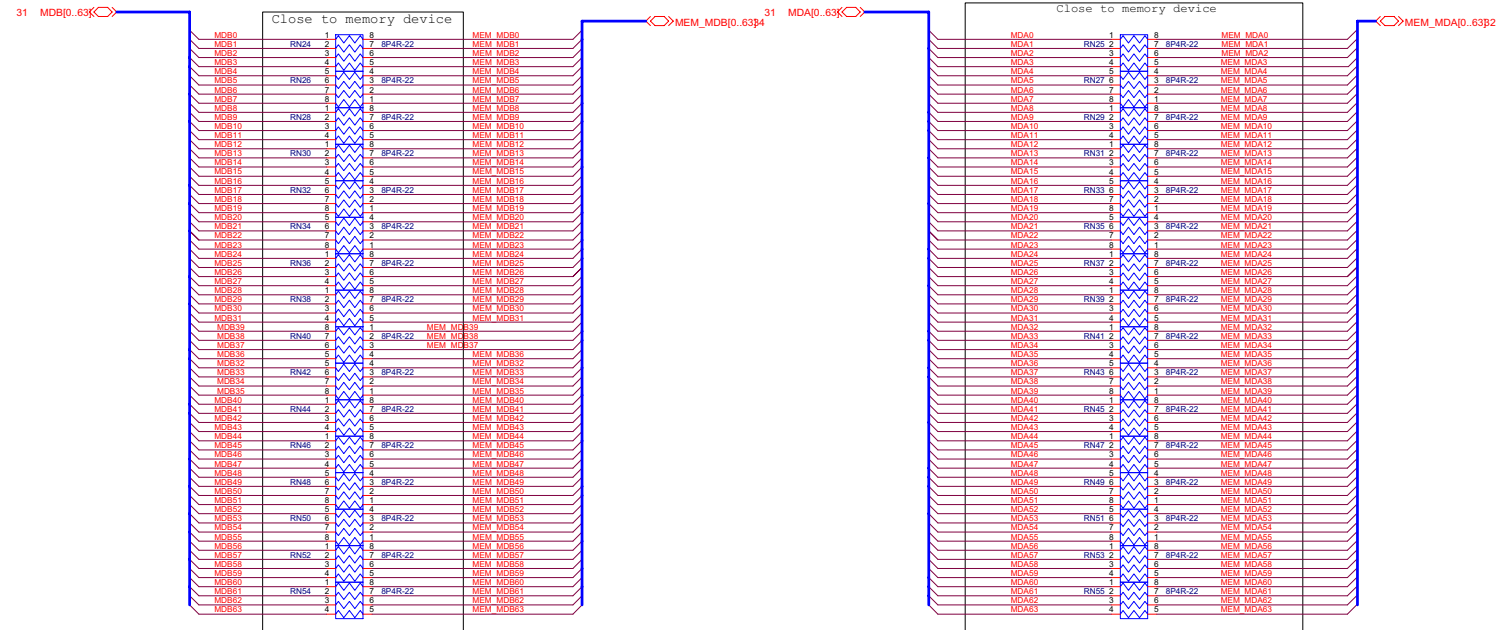
CHANNEL A



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VGA DRAM
1 of 2

Schematic Diagrams

VGA DRAM 1 of 2 - Termination

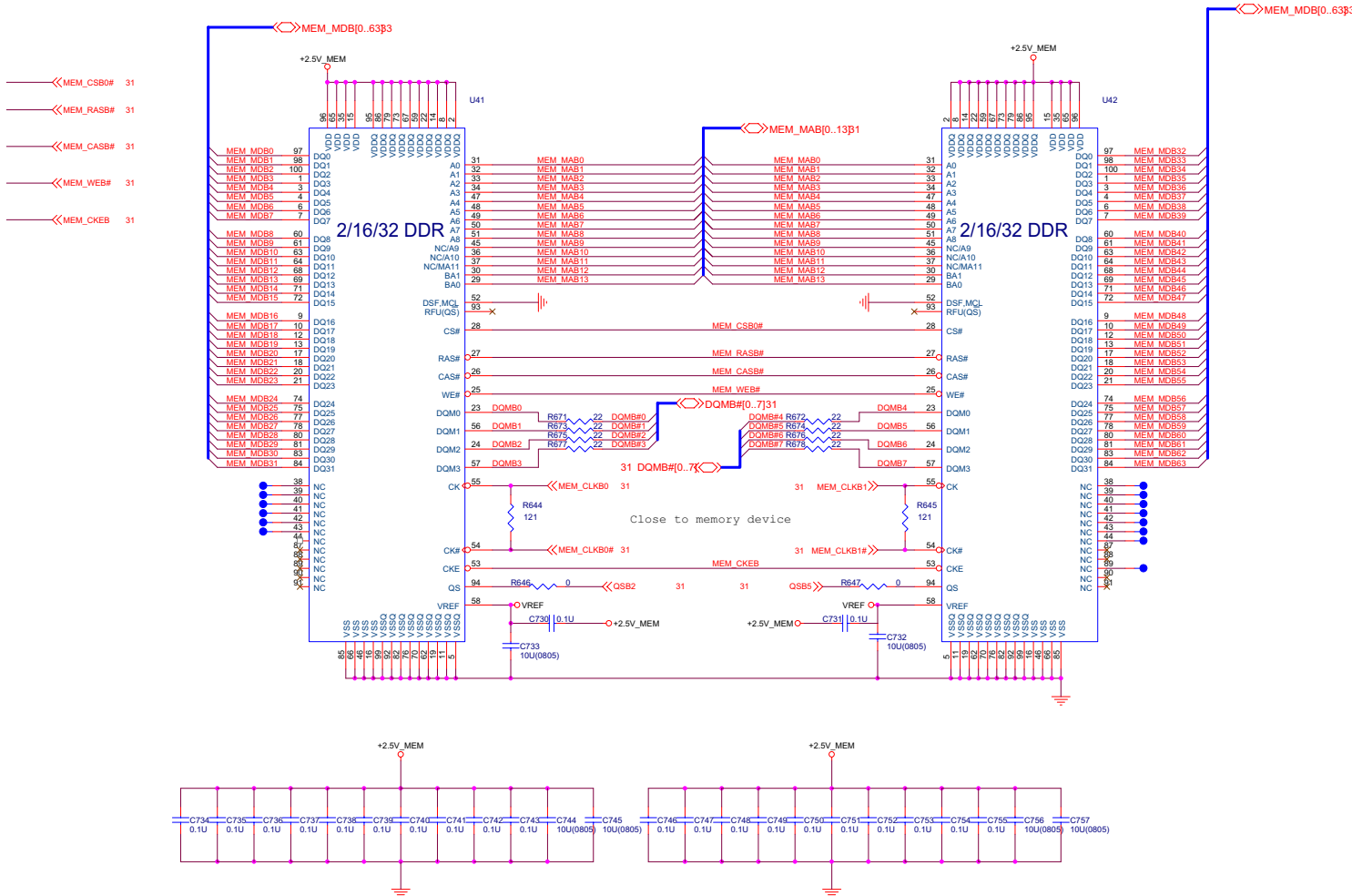


CHANNEL B

CHANNEL A

VGA DRAM 2 of 2

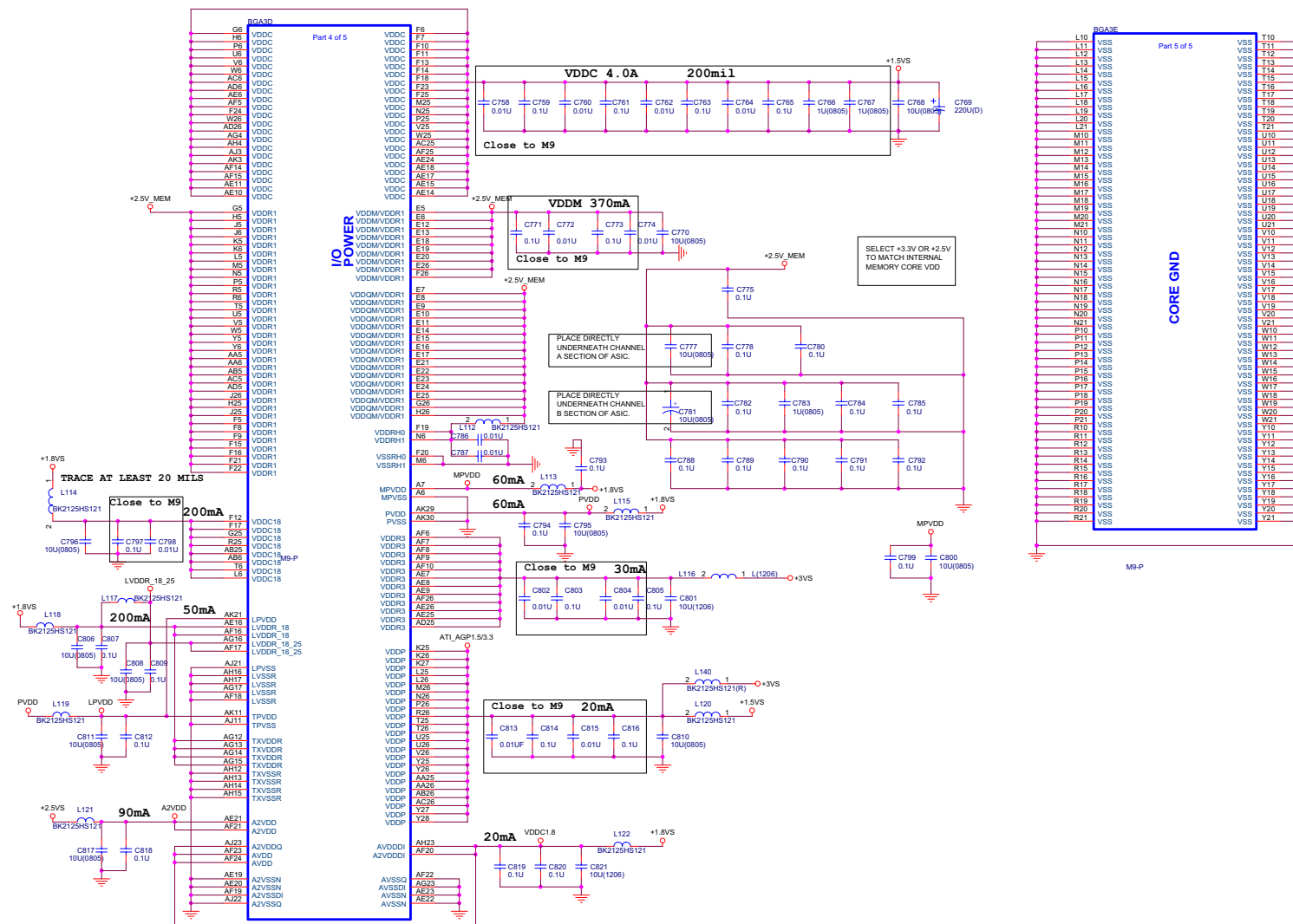
CHANNL B



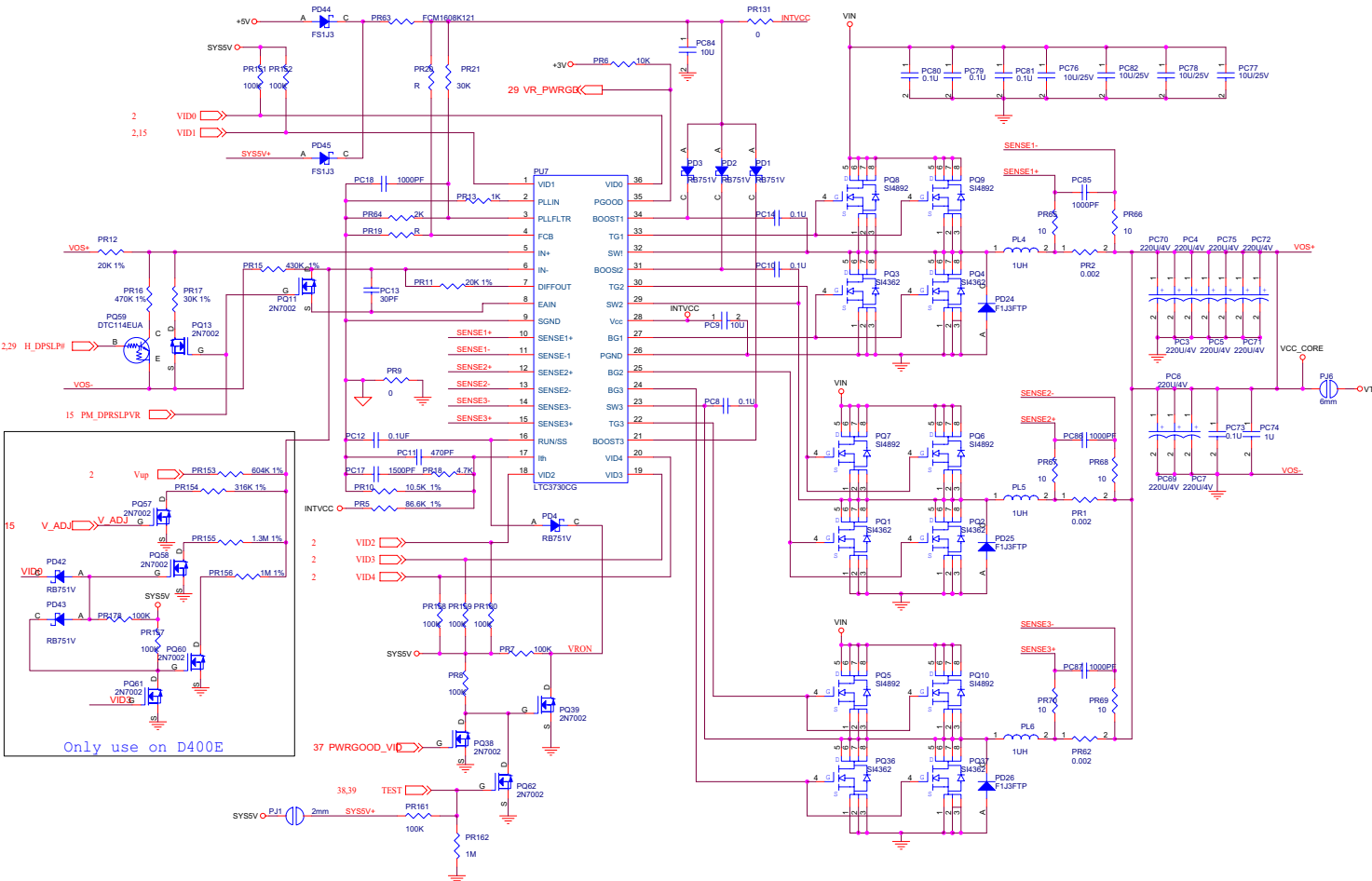
Sheet 34 of 41
VGA DRAM
2 of 2

Sheet 35 of 41
Mobility M9-P POW

B. Schematic Diagrams



VCORE

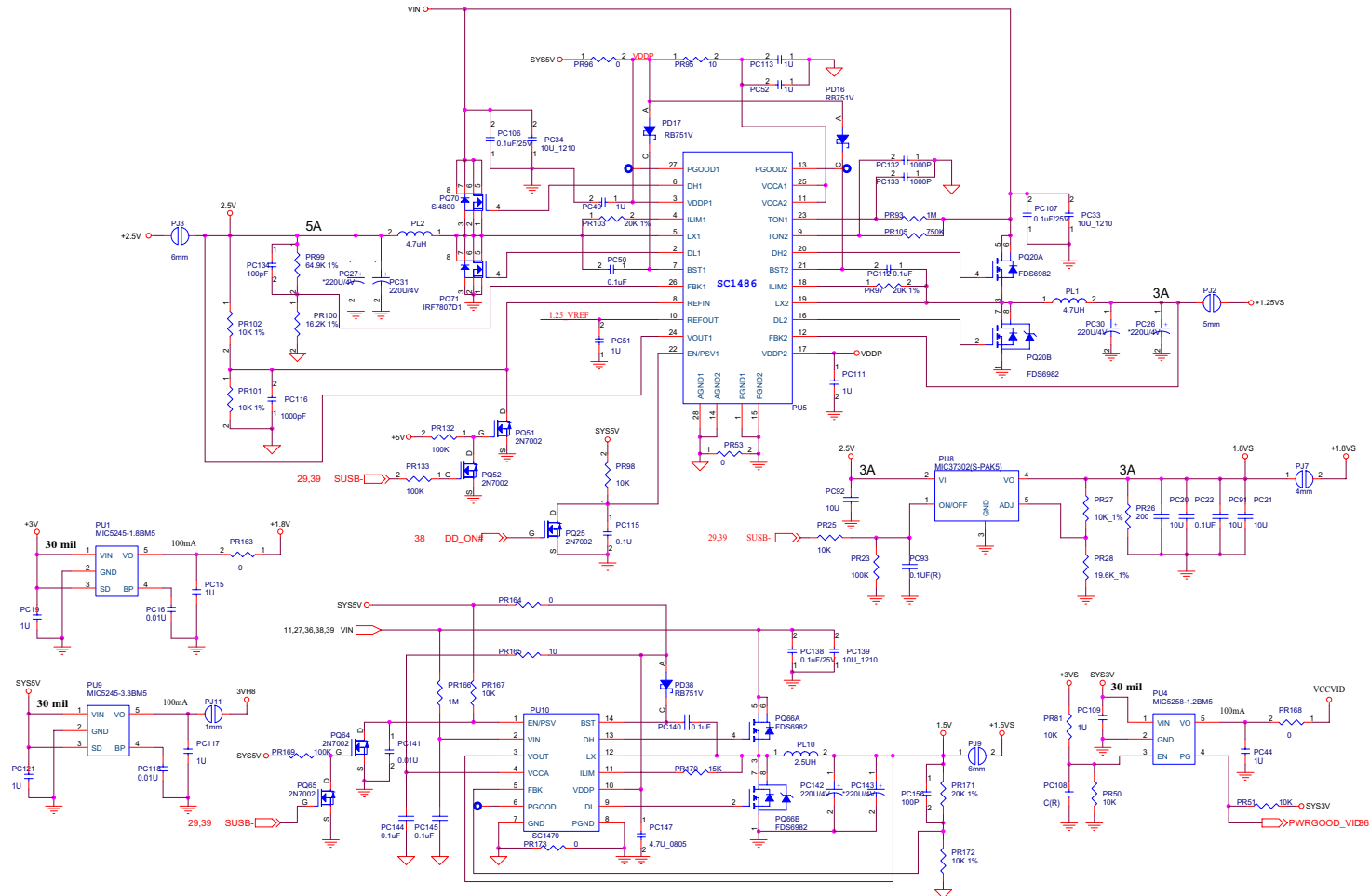


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VCORE

Schematic Diagrams

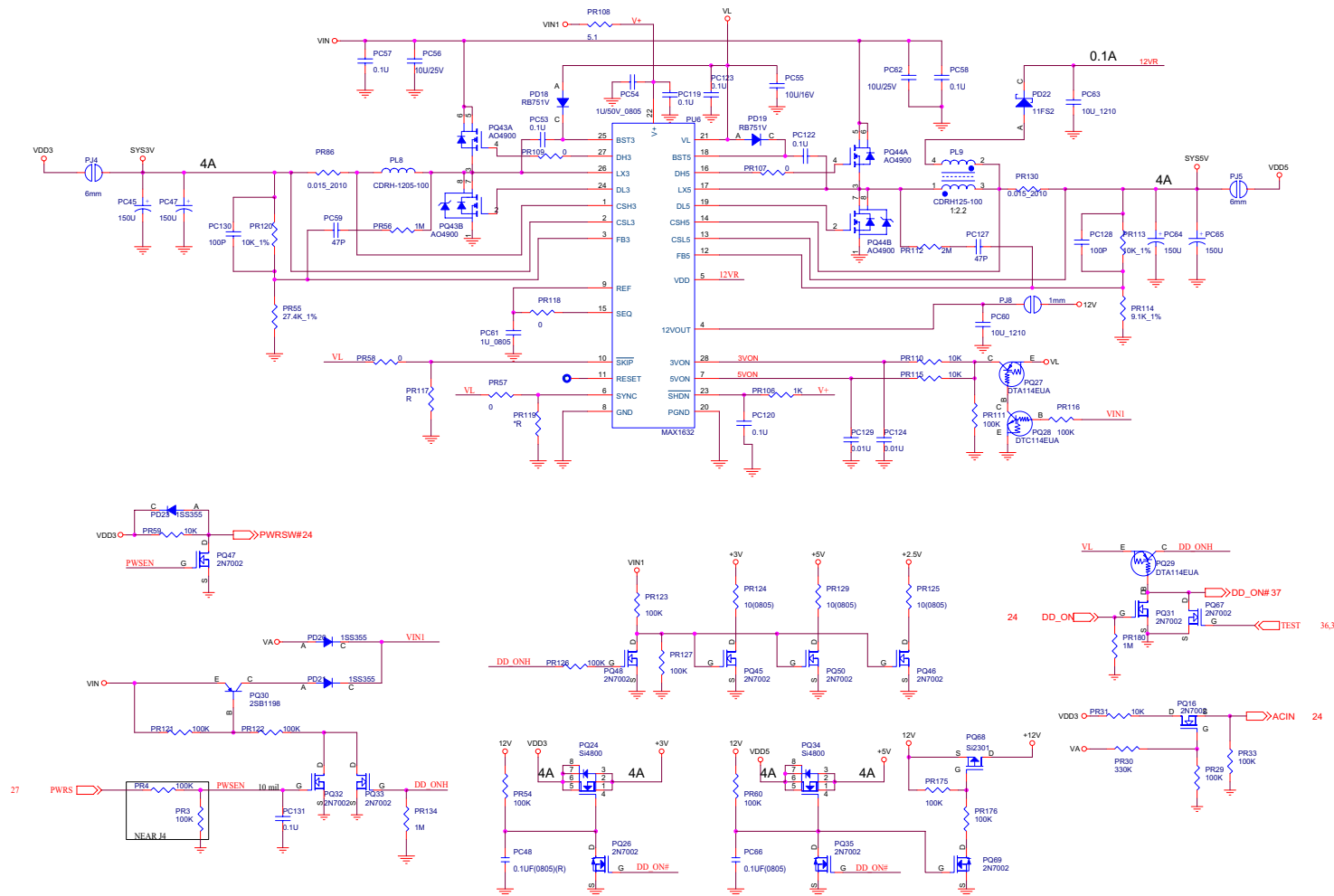
DDR Power

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DDR Power



System Power

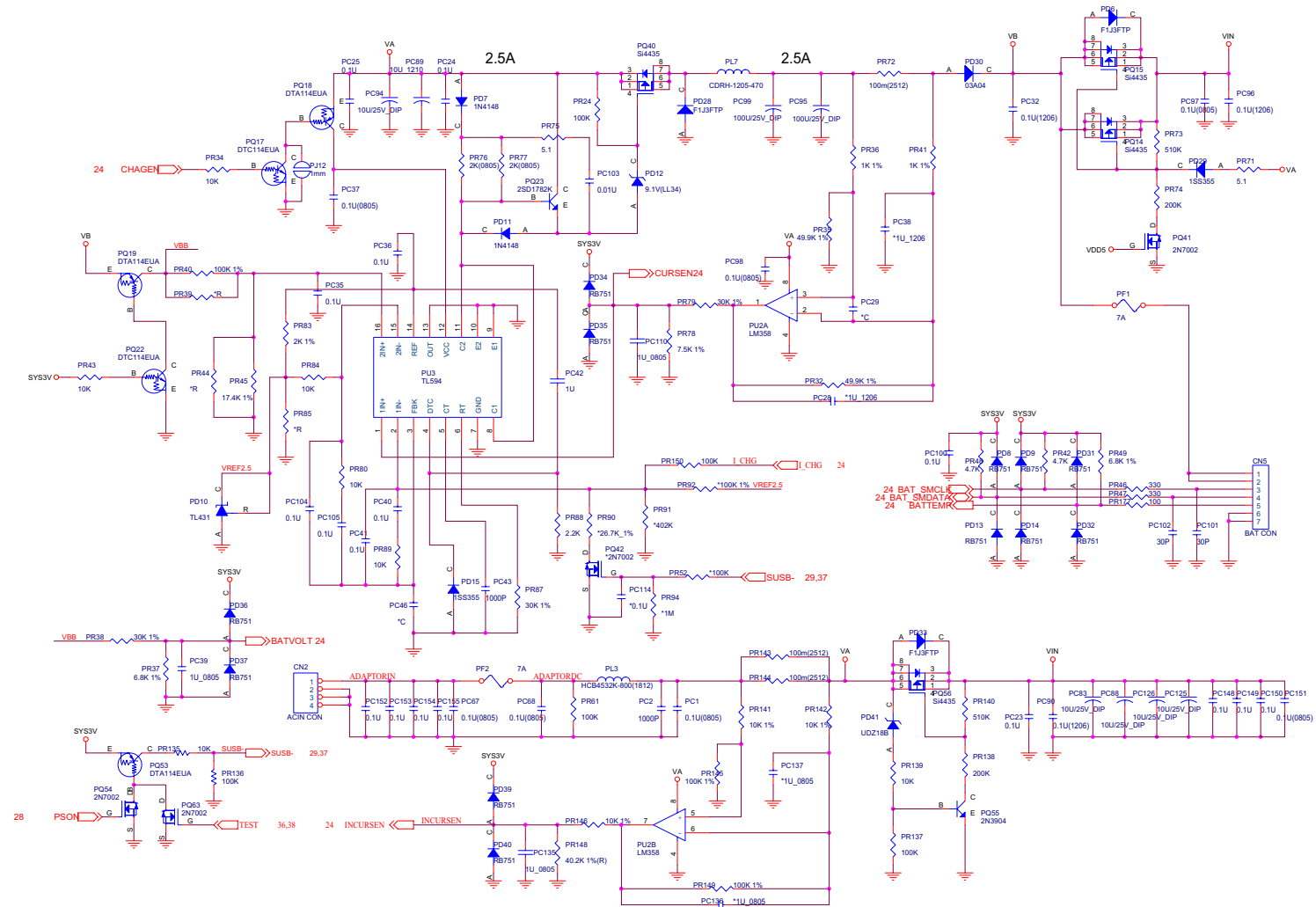
Sheet 38 of 41
System Power



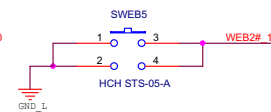
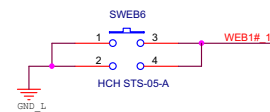
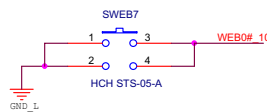
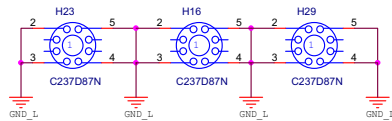
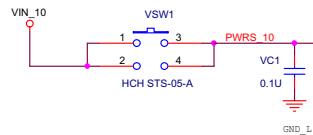
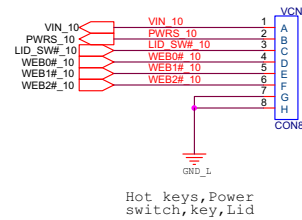
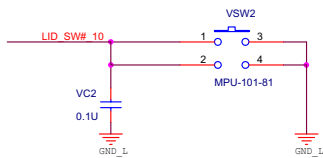
Schematic Diagrams

Charger

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Charger



SW Board and HotKey



Sheet 40 of 41
SW Board and
HotKey

Schematic Diagrams

TouchPad and Switch Board

Sheet 41 of 41
TouchPad and
Switch Board

