

CPU CORE
SENTECH
SC451ITSTR
Page: 23

SYSTEM 3V/5V
MAXIM
MAX1999
+3VPCU
+3V_S5/+3VSUS
+3V
+5VPCU
+5VSUS
+5V
+15V
Page: 24

+1.8VSUS
+1.8V
+0.9VSUS
+0.9V ON
NCP5214
+1.5V SENTECH
SC1470
+1.5V_S5
SI9183-AD
+2.5V SENTECH
SC1565
+1.05V SENTECH
SC4215
Page: 25

BATTERY CHARGER
MAXIM
MAX8724
Page: 26

CLOCK GEN
ICS954206
Page: 4

ZL8
CELERON-M/PENTIUM-M
INTEL Mobile_479 CPU
Page: 2, 3

DDR-II SODIMM1
Page: 10

DDR-II SODIMM2
Page: 10

NB
INTEL
ALVISO 915GM
Page: 5, 6, 7, 8

PATA HDD
Page: 16

IDE-ODD
Page: 16

SB
INTEL
ICH6-M
Page: 12, 13, 14

AUDIO CODEC
Realtek
ALC260 (ALC883)
Page: 19

AMP
MAX9755
Page: 20

MODEM
Page: 19

KBC
NS
PC97551
Page: 21

MIC IN
Page: 19

SPEAKER
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LINE OUT
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RJ11
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Touchpad
Page: 22

Keyboard
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FLASH
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FAN
Page: 22

CRT
Page: 11

LVDS
Page: 11

(Option)
MINI-PCIE slot
Wireless LAN
Page: 16

TI PCMCIA
PCI1510A (L-F)
AD17
REQ1# / GNT1#
INTC#
Page: 18

TYPE II
SLOT
Page: 18

MINI-PCI
Wireless LAN
AD20
REQ2# / GNT2#
INTB# , INTD#
Page: 16

REALTEK
RTL8100CL
AD24
REQ0# / GNT0#
INTA#
Page: 17

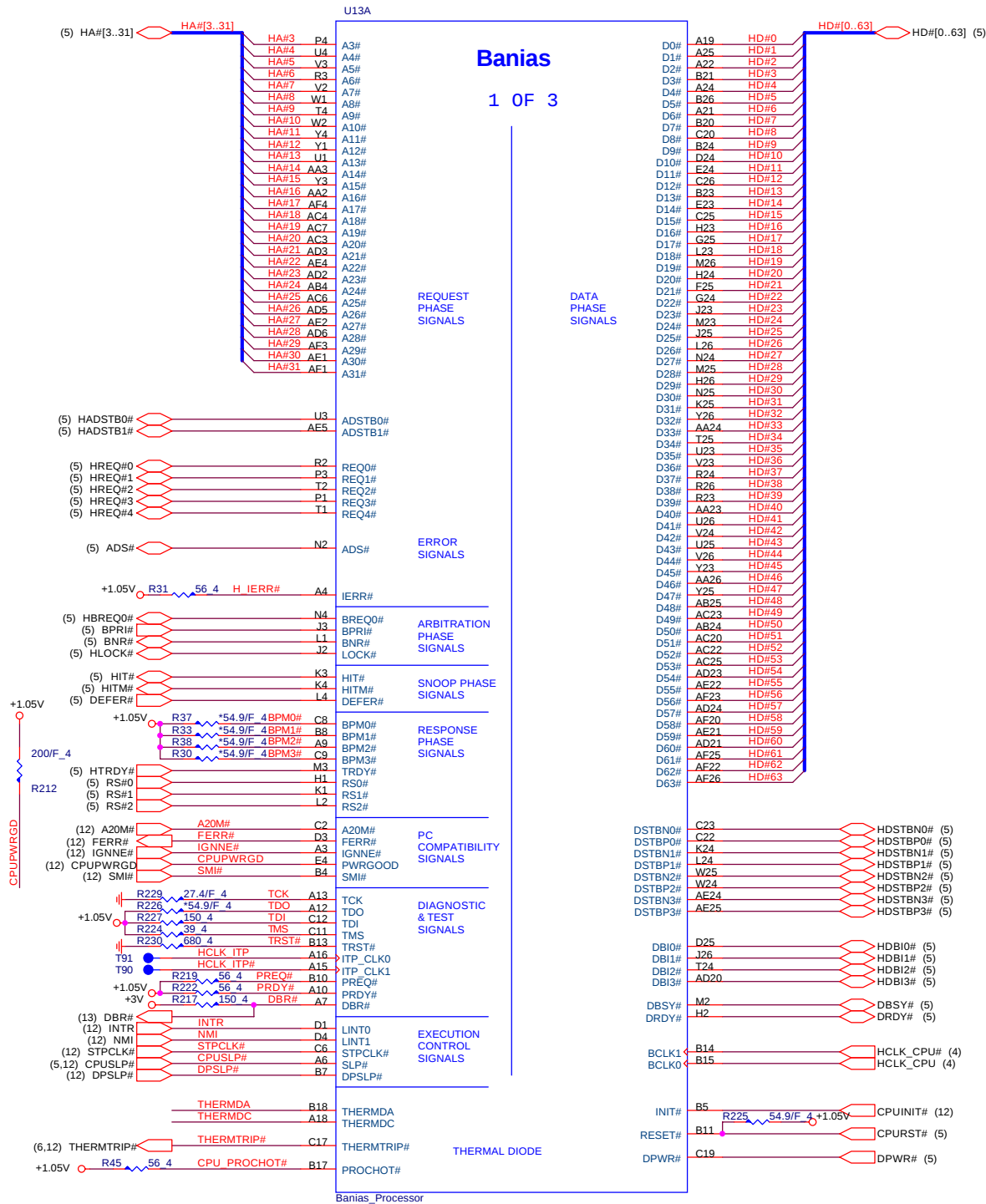
RJ45
Page: 17

SYSTEM
USB PORT *3
USB2, 3, 5
Page: 16

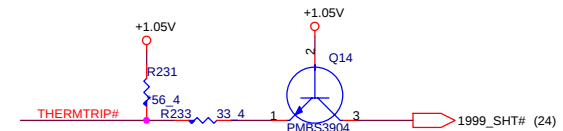
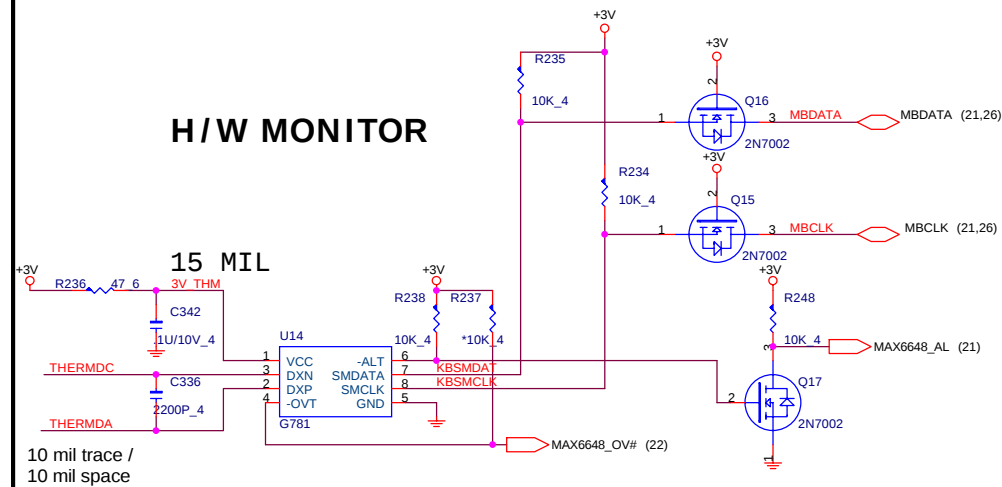
Bluetooth
USB
interface
USB4
Page: 16



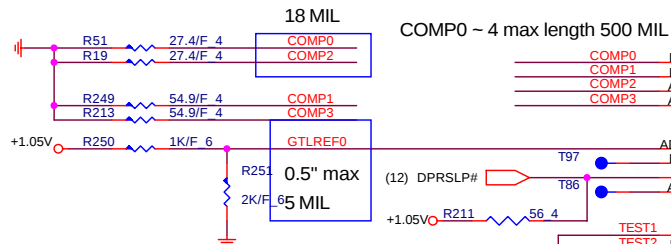
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H/W MONITOR



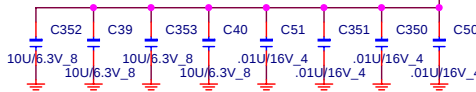
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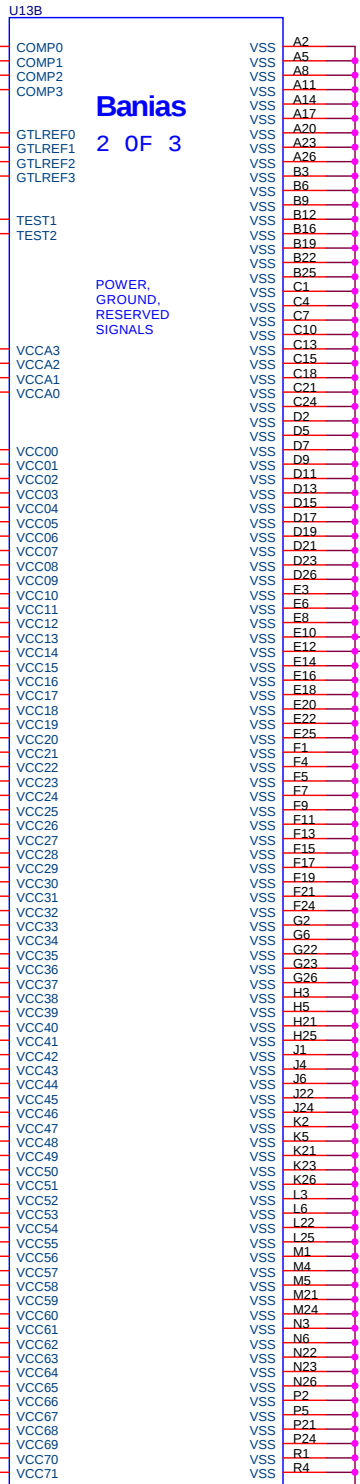
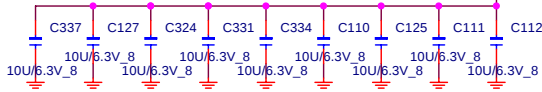
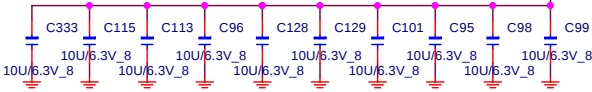
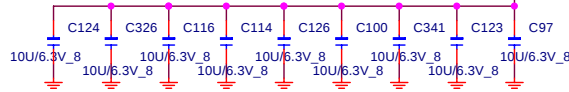
Banias
2 OF 3

POWER,
GROUND,
RESERVED
SIGNALS

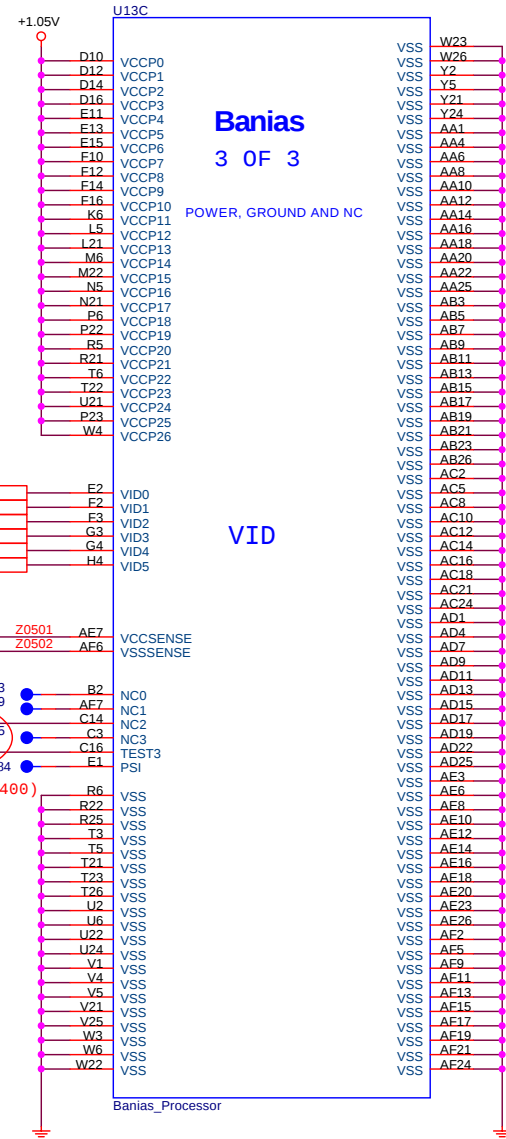
PLACE one 10U & one 0.01U for each VCCA pin



10U/6.3V/X5R(CC0805) *30



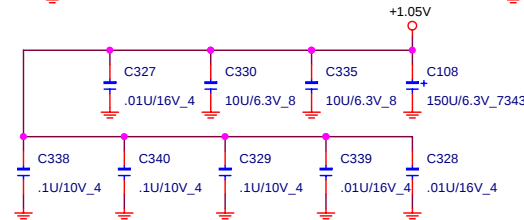
Banias_Processor



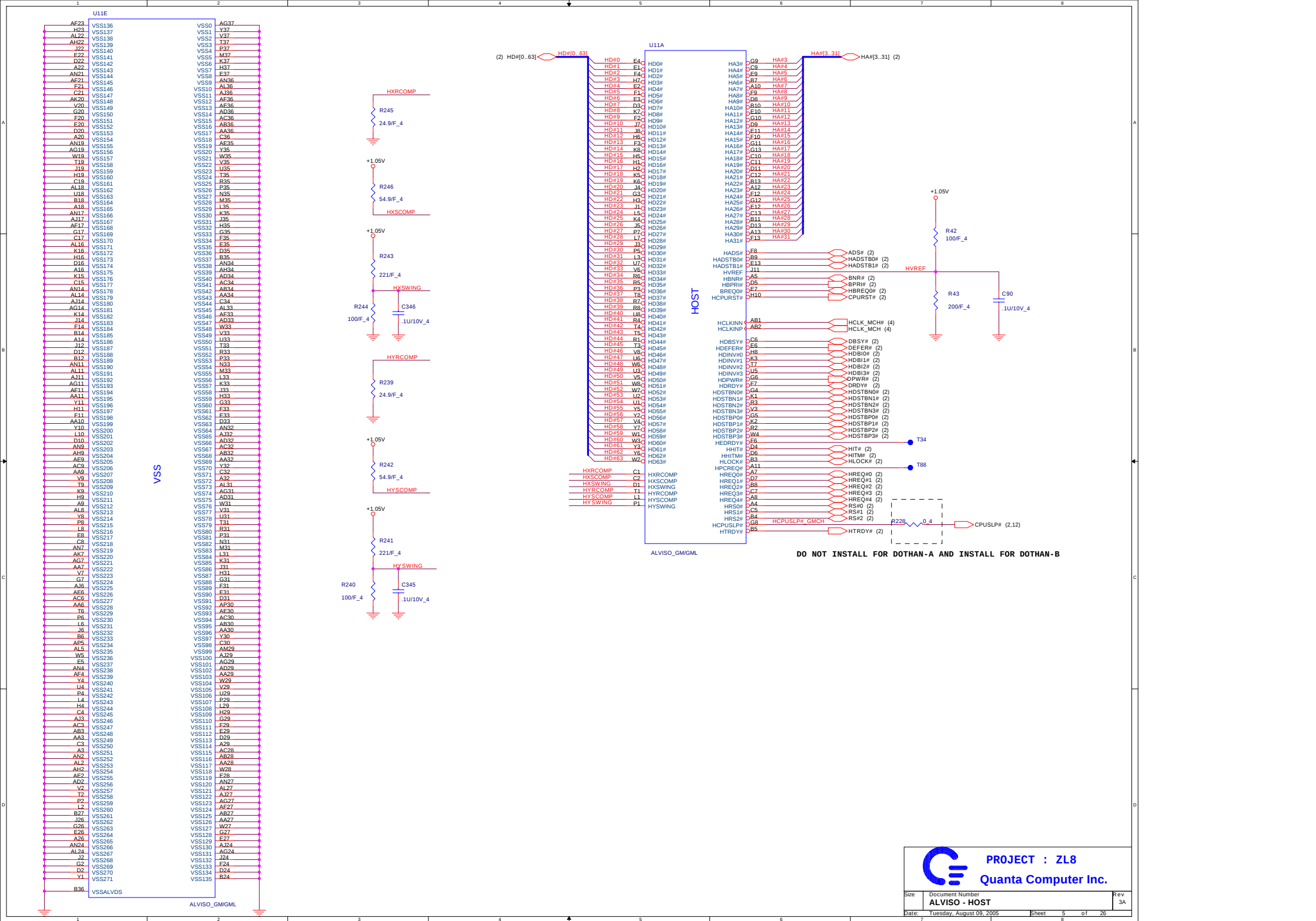
Banias
3 OF 3

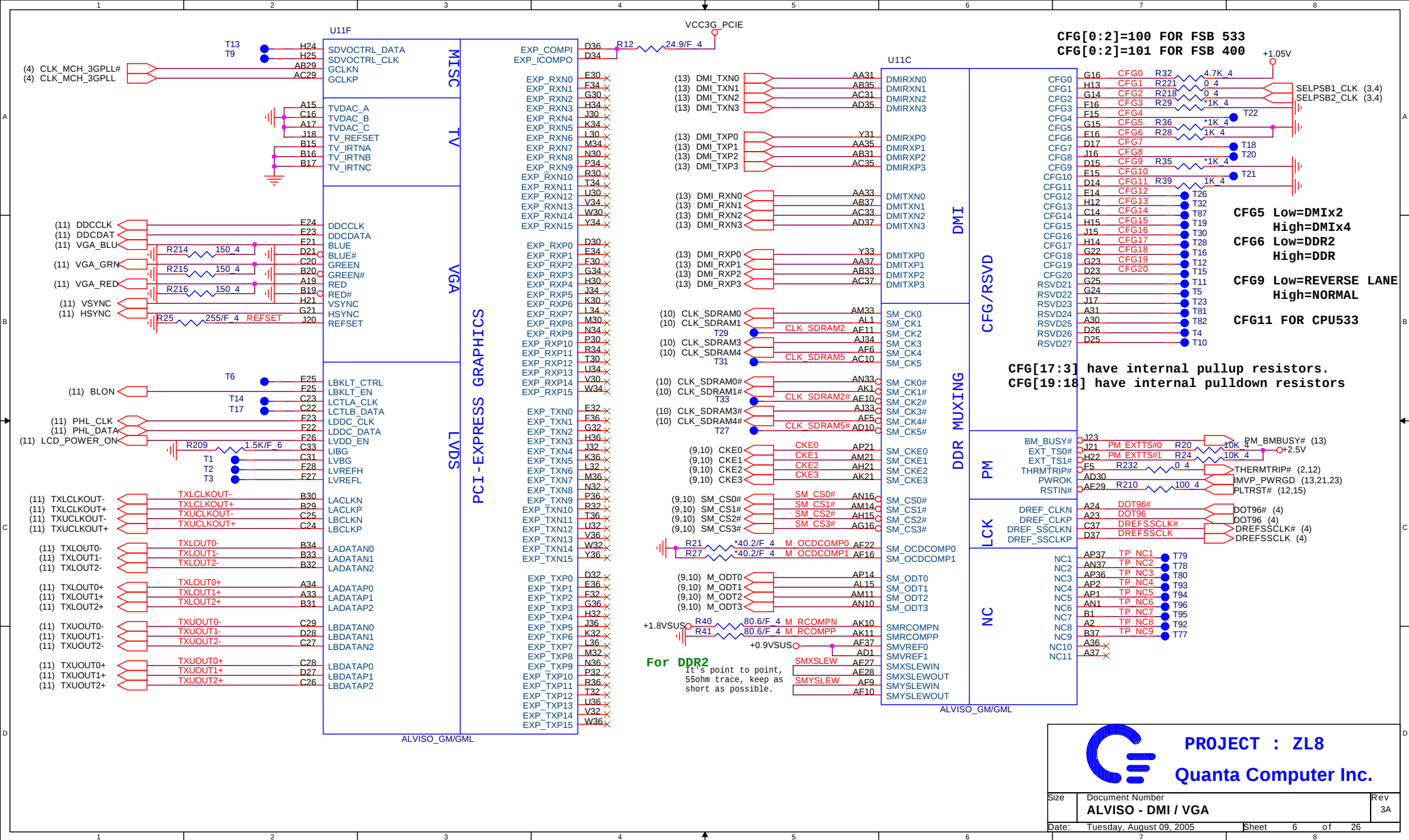
POWER, GROUND AND NC

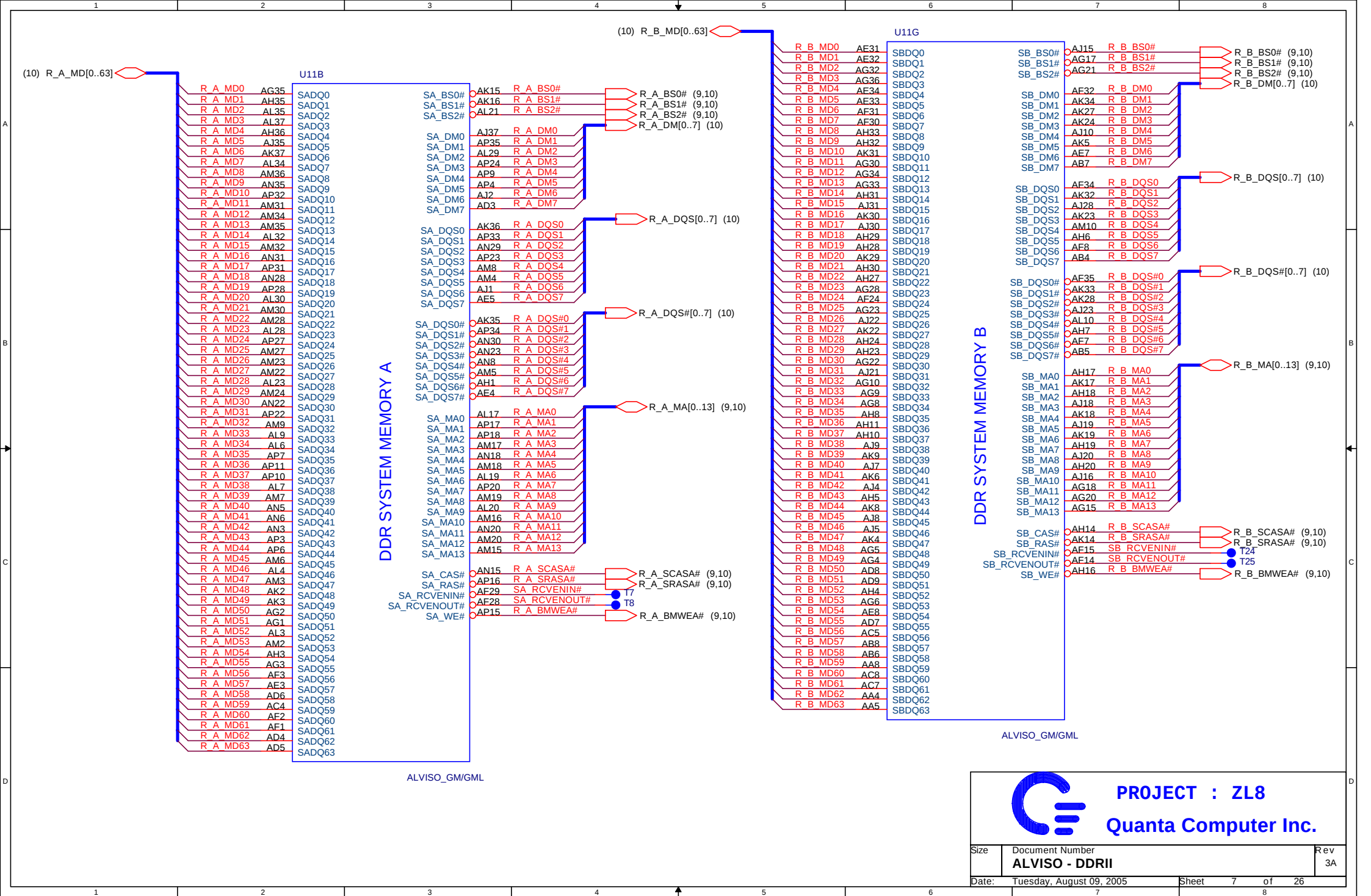
VID

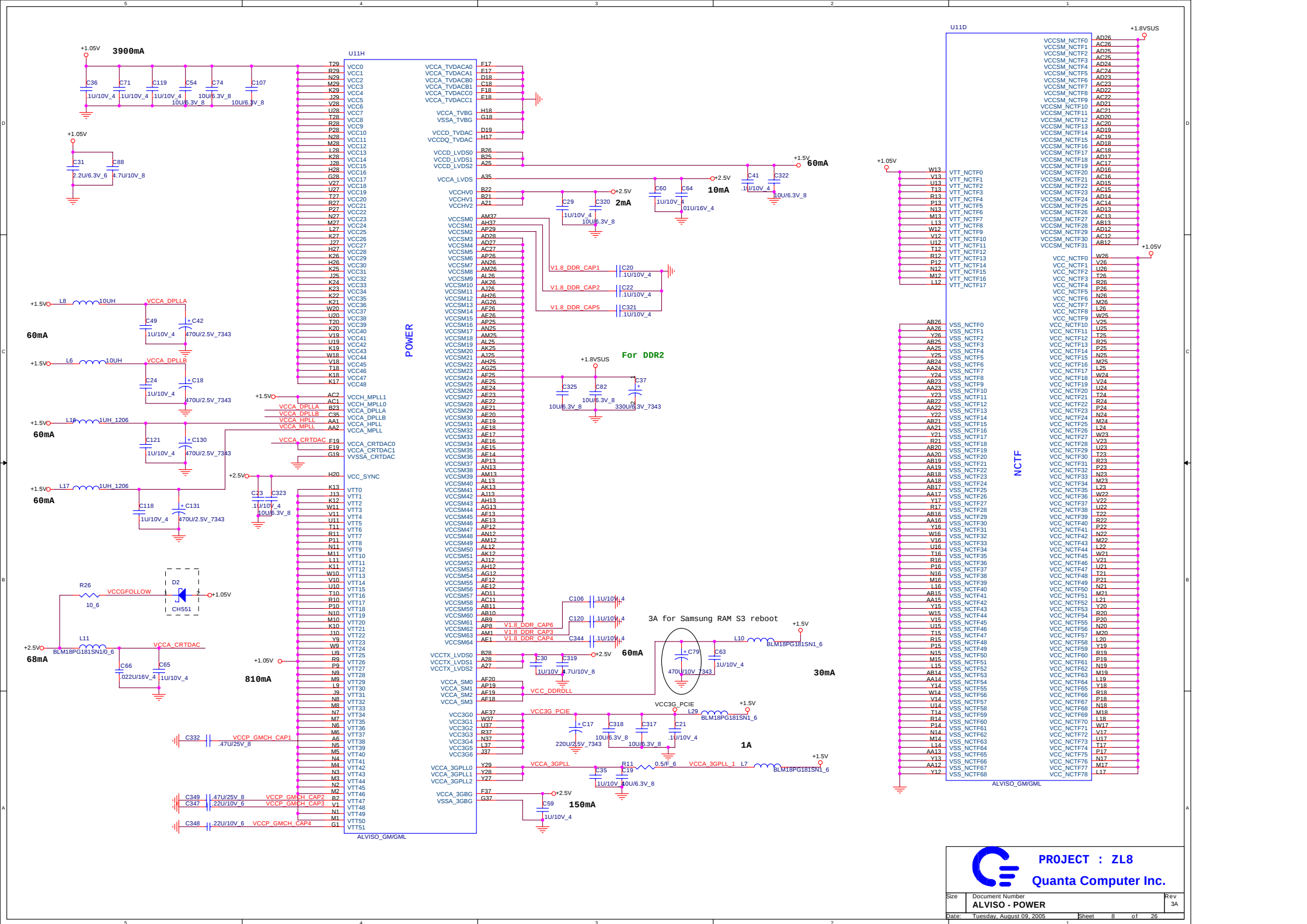


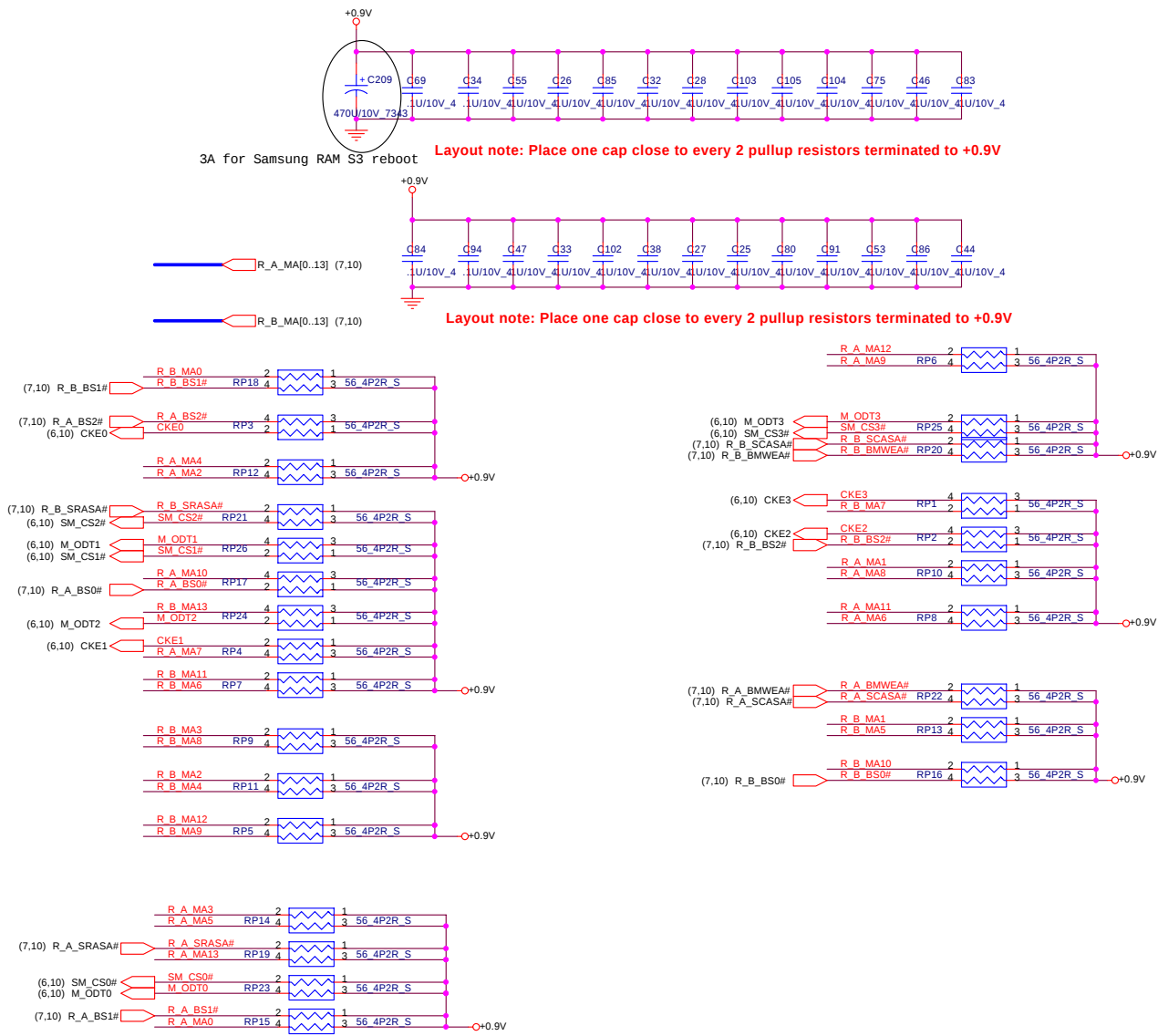
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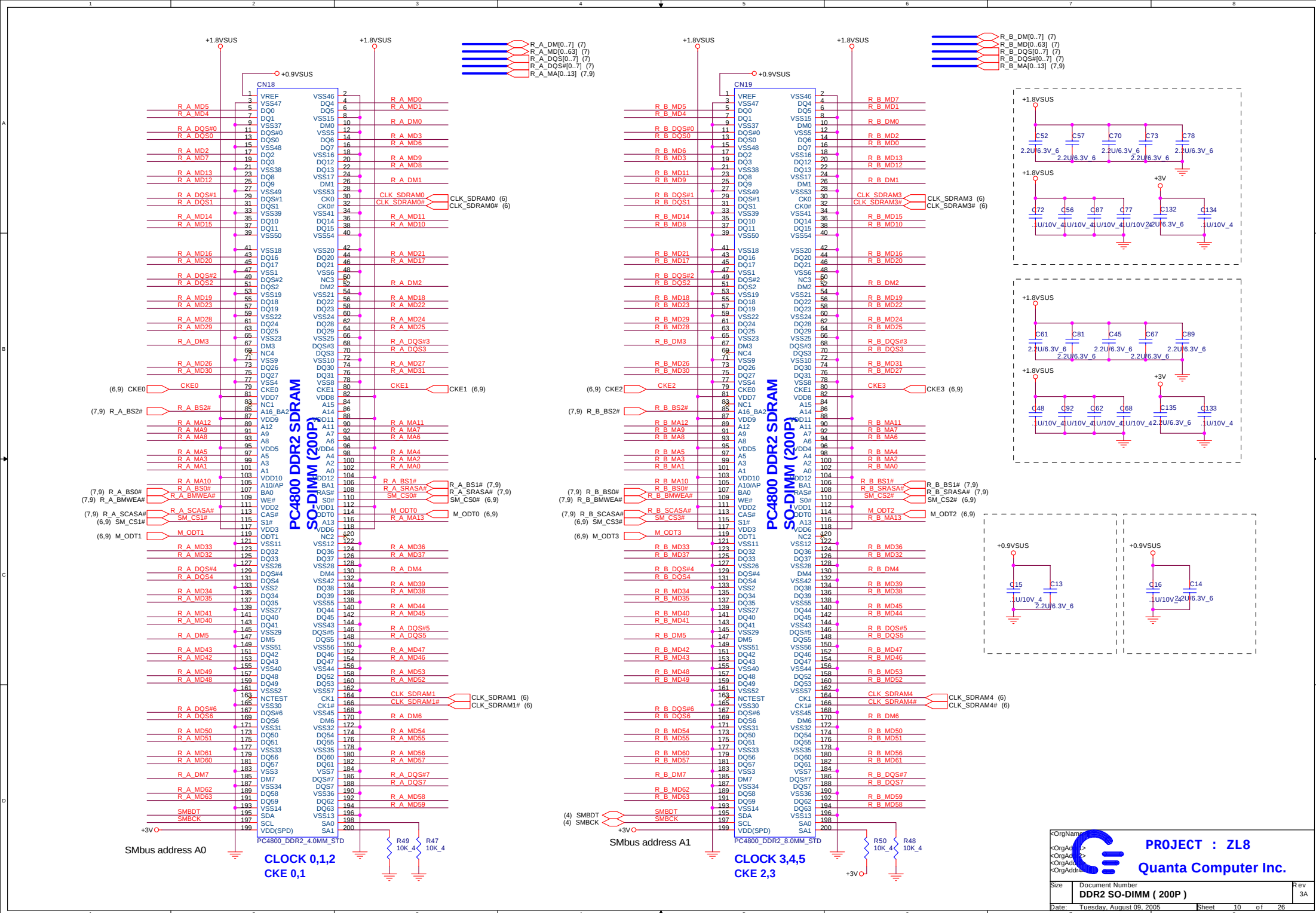




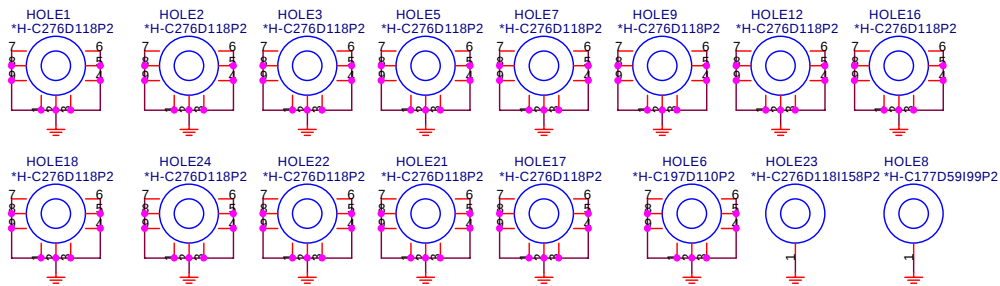
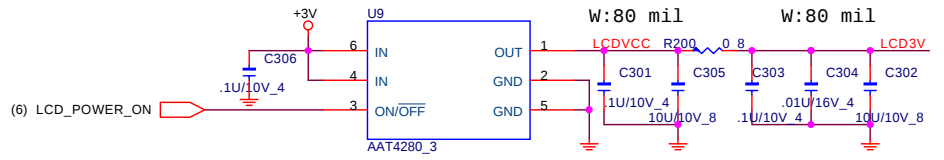
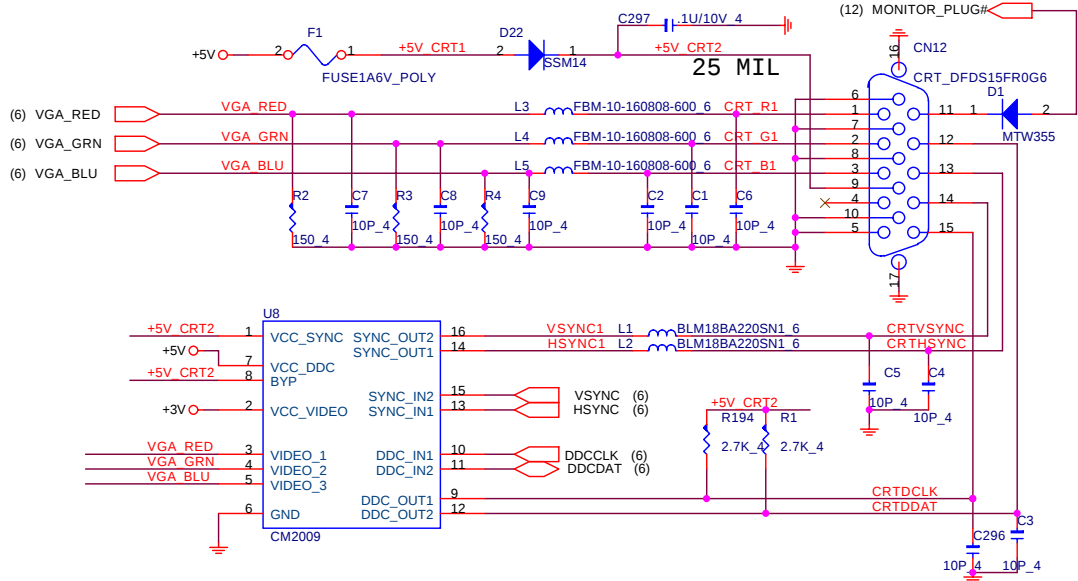




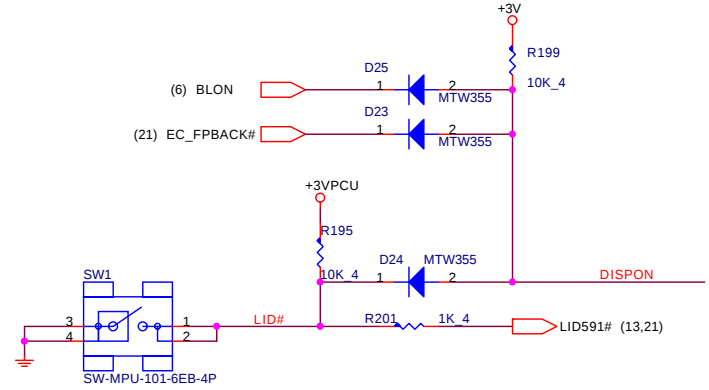




CRT PORT



PCIE-CARD NUT



MDC1.5 NUT NB HEATSINK NUT LED/B NUT CPU NUT

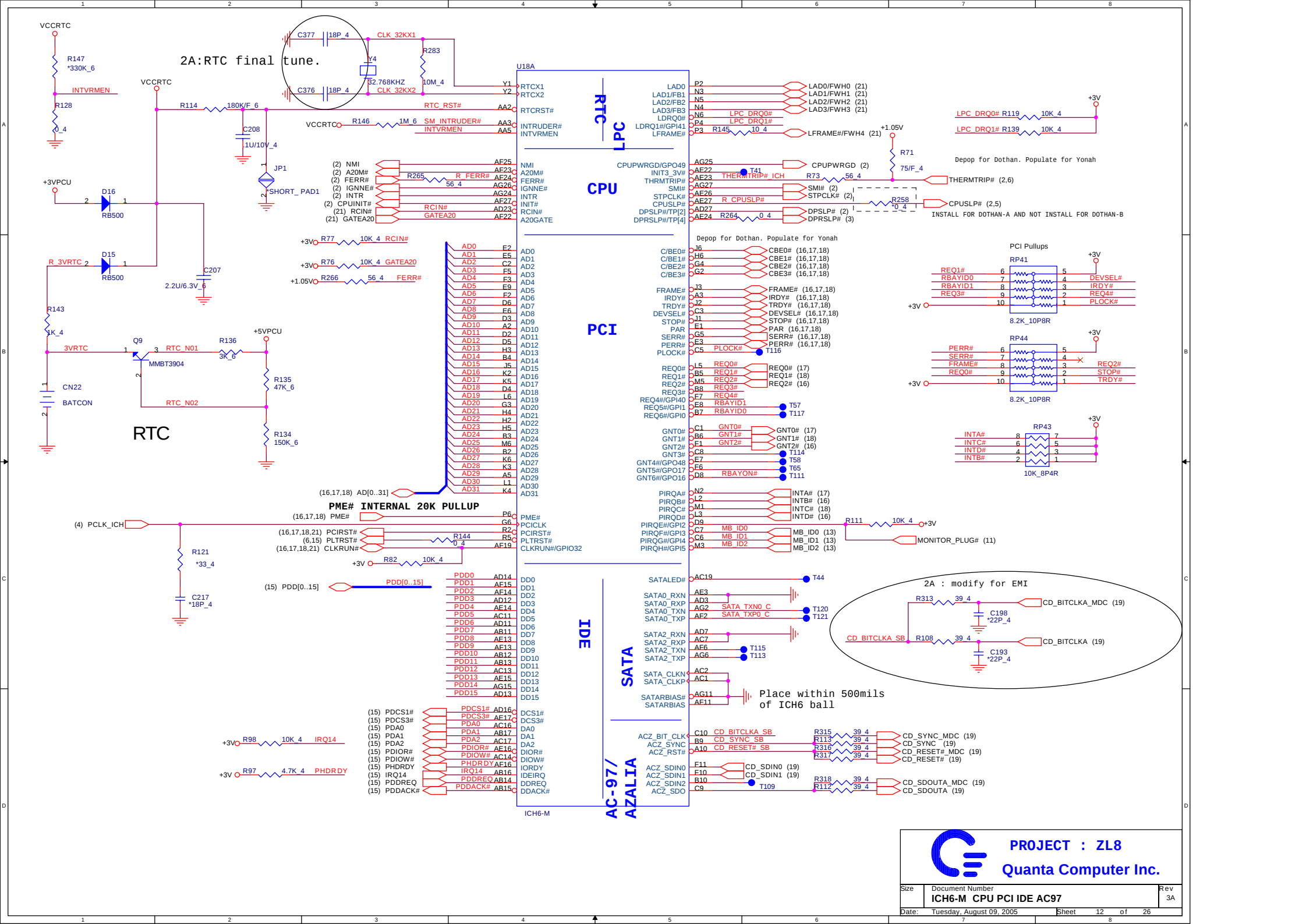


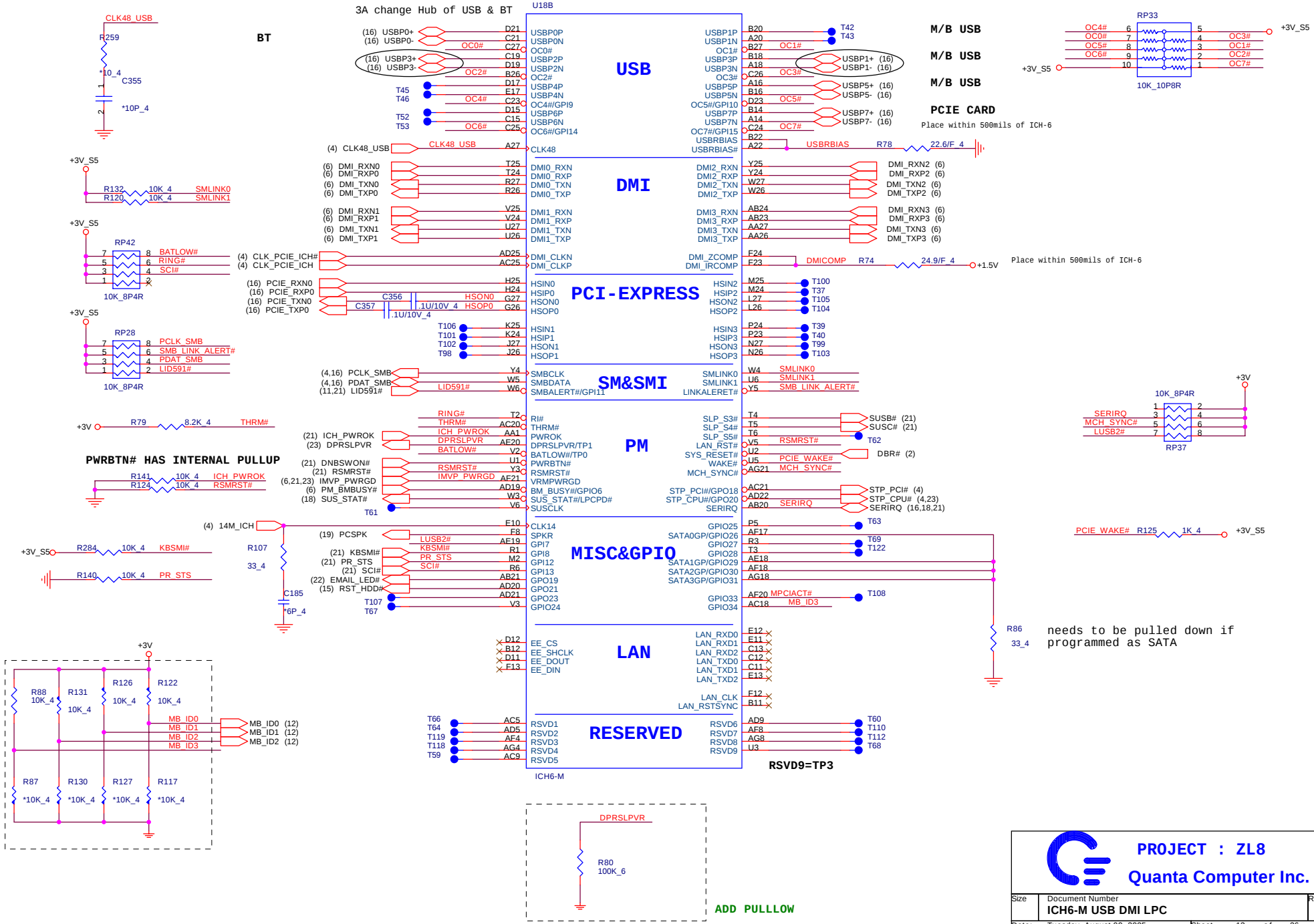
Lid Switch

PROJECT : ZL8

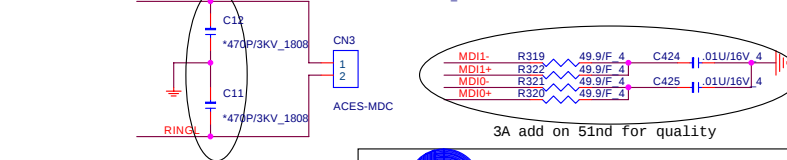
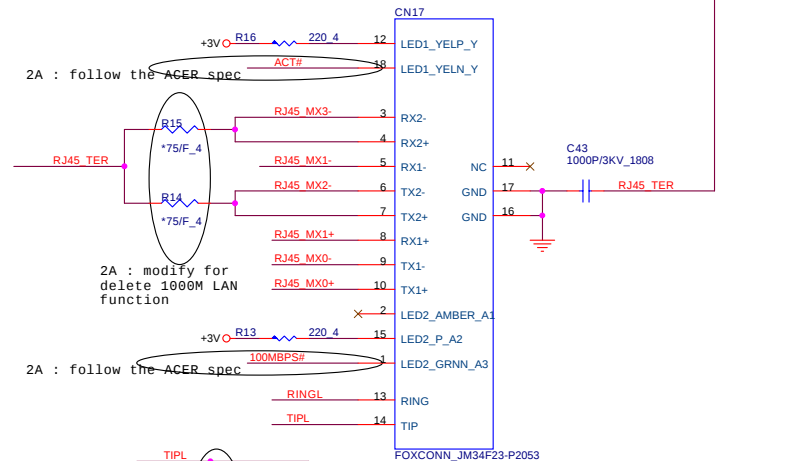
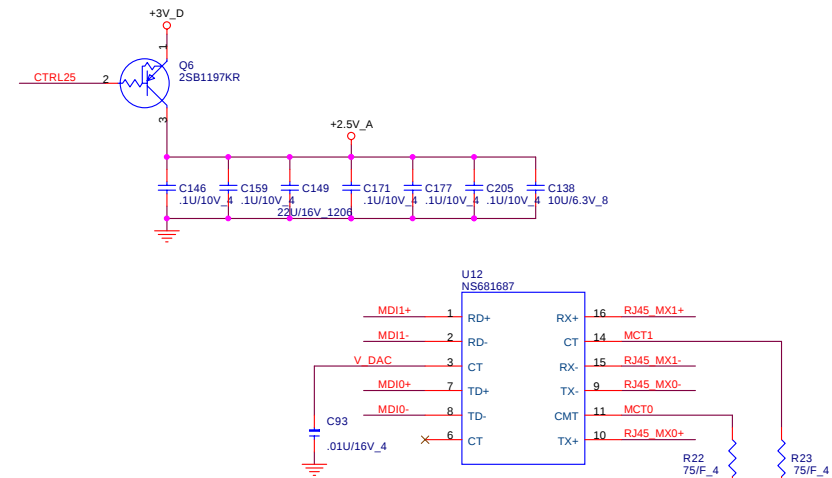
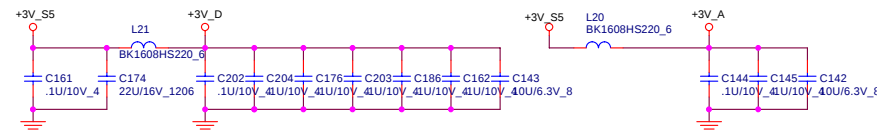
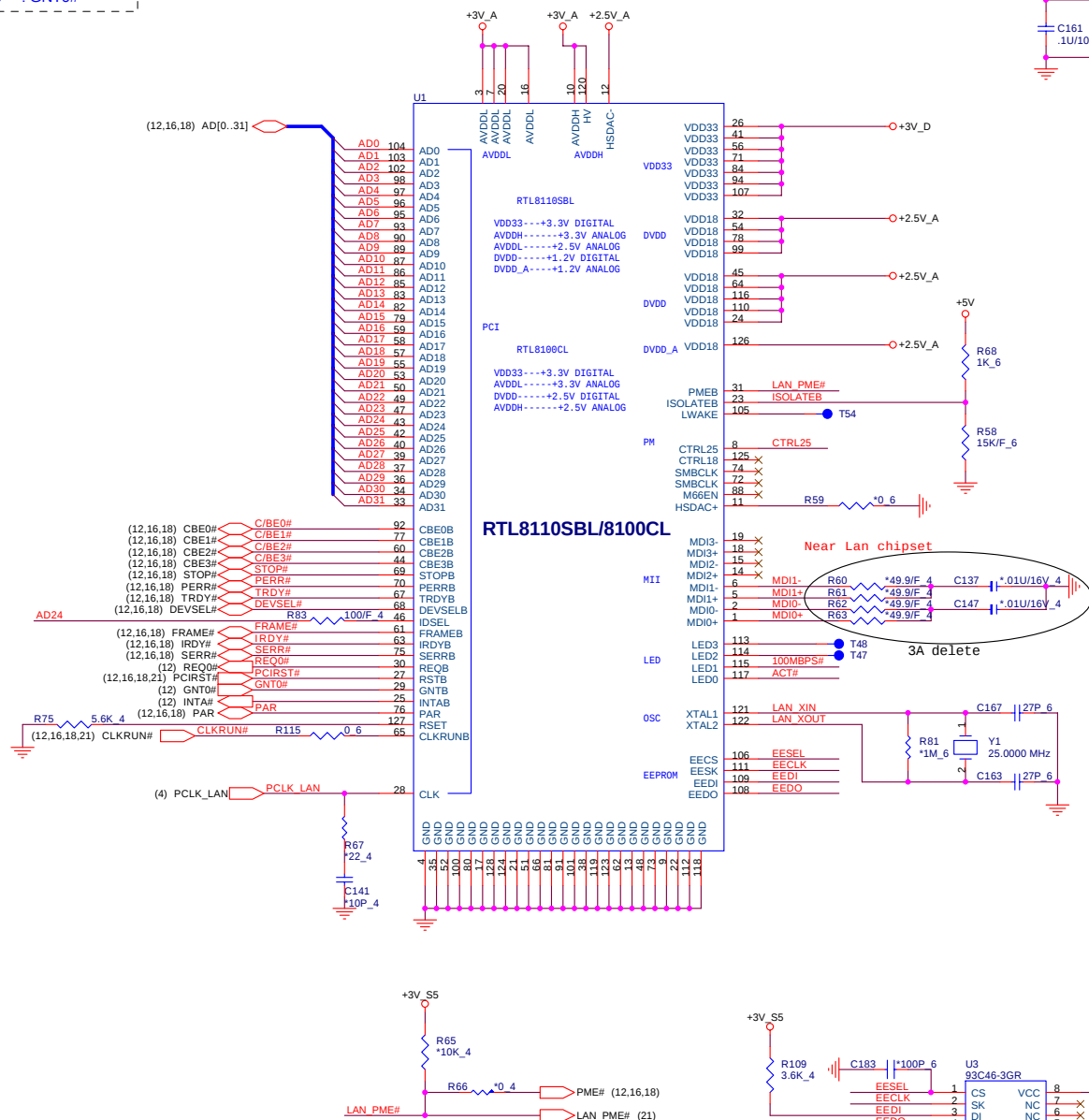
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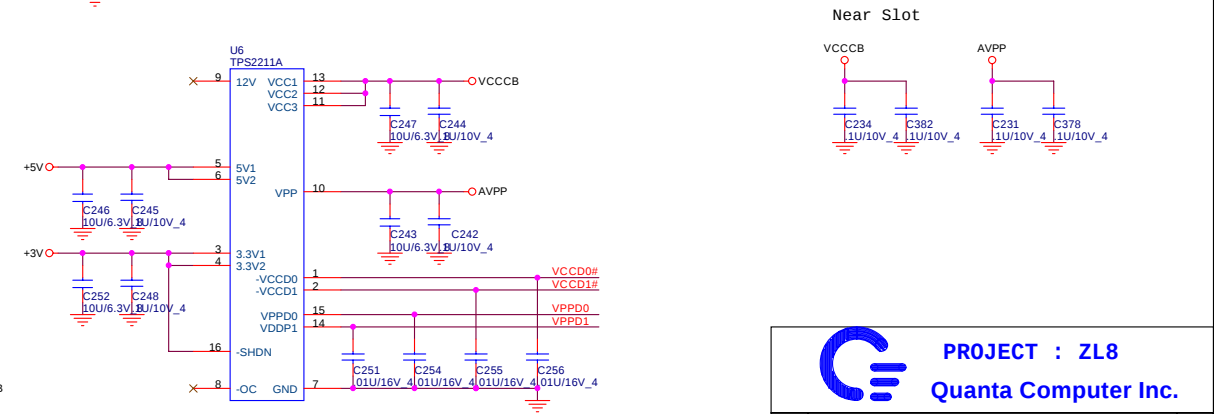
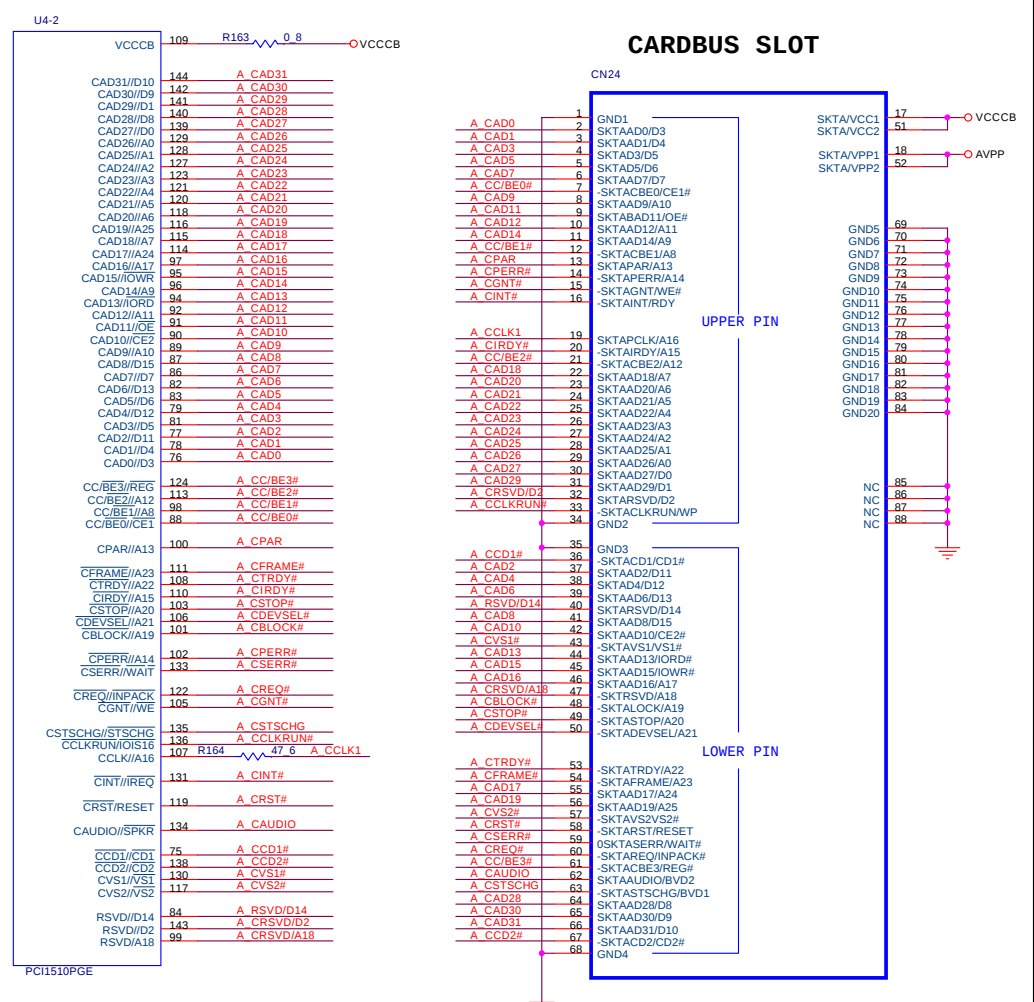
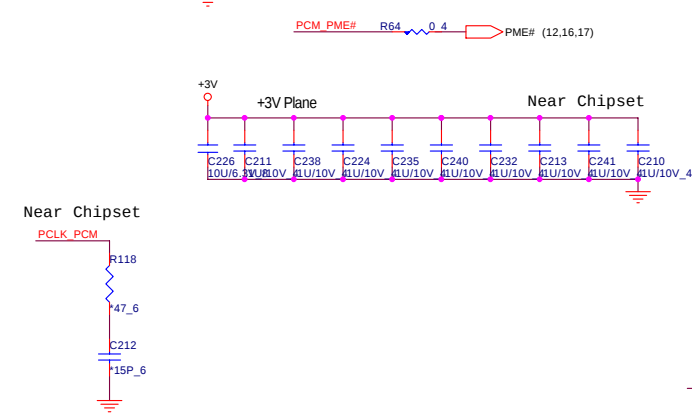
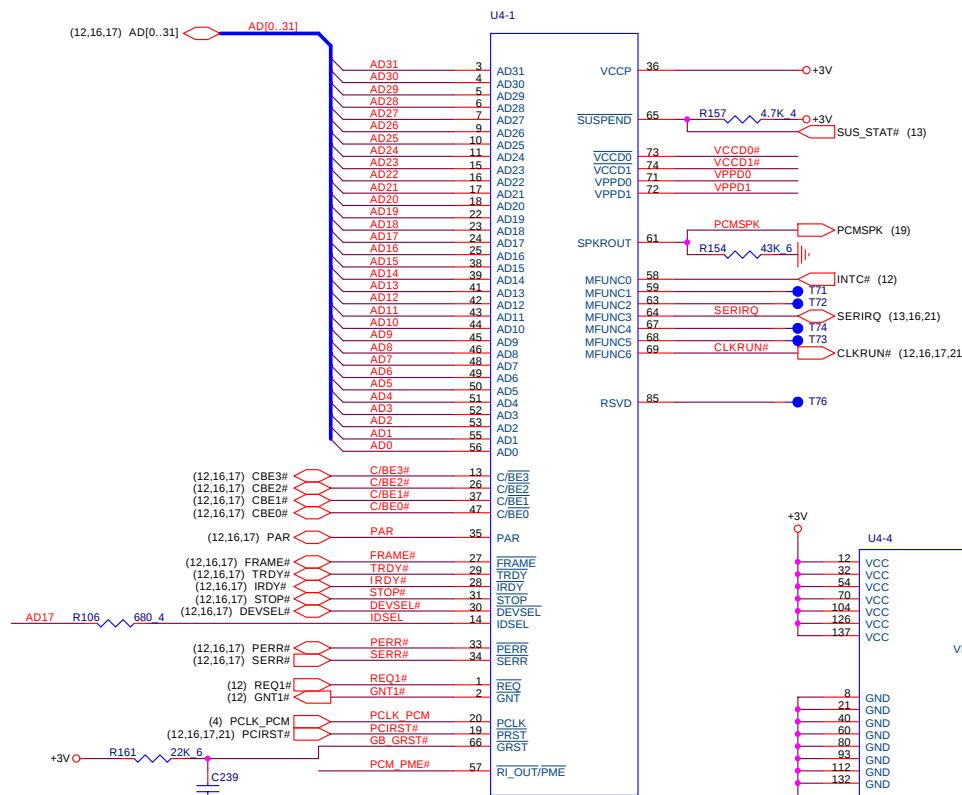
ID Select : AD24
Interrupt Pin : INTA#
Request Indicate : REQ0#
Grant Indicate : GNT0#

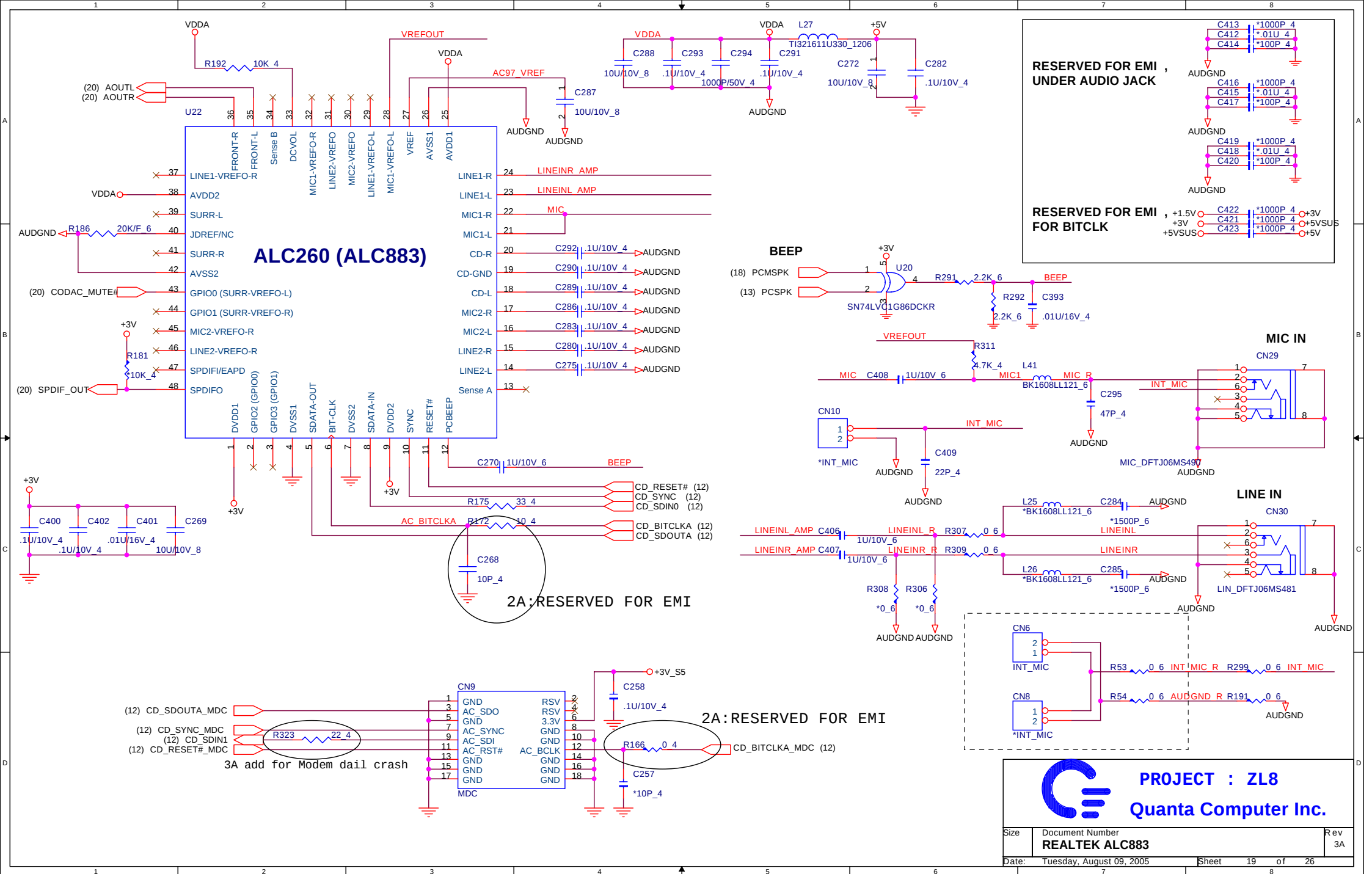


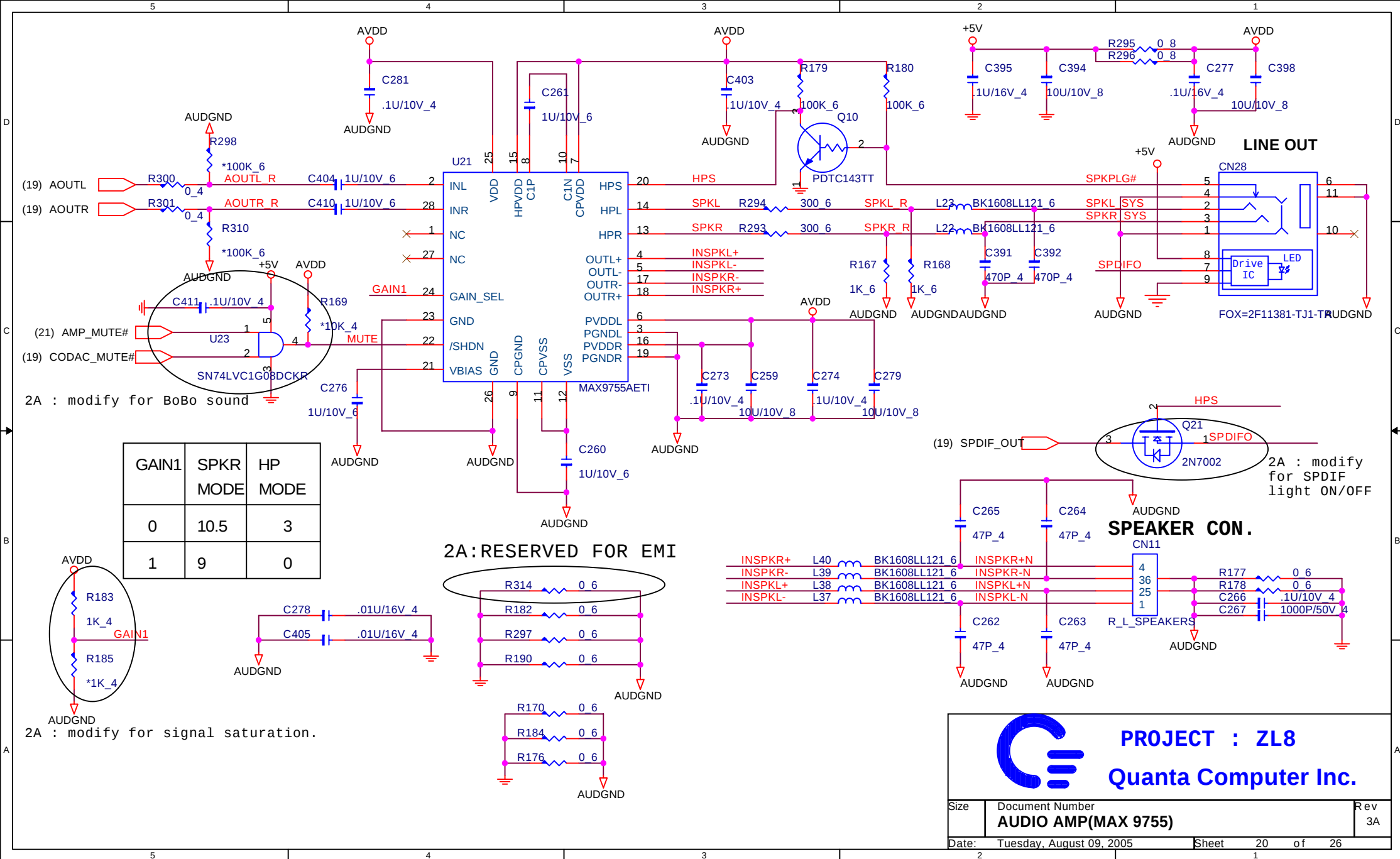
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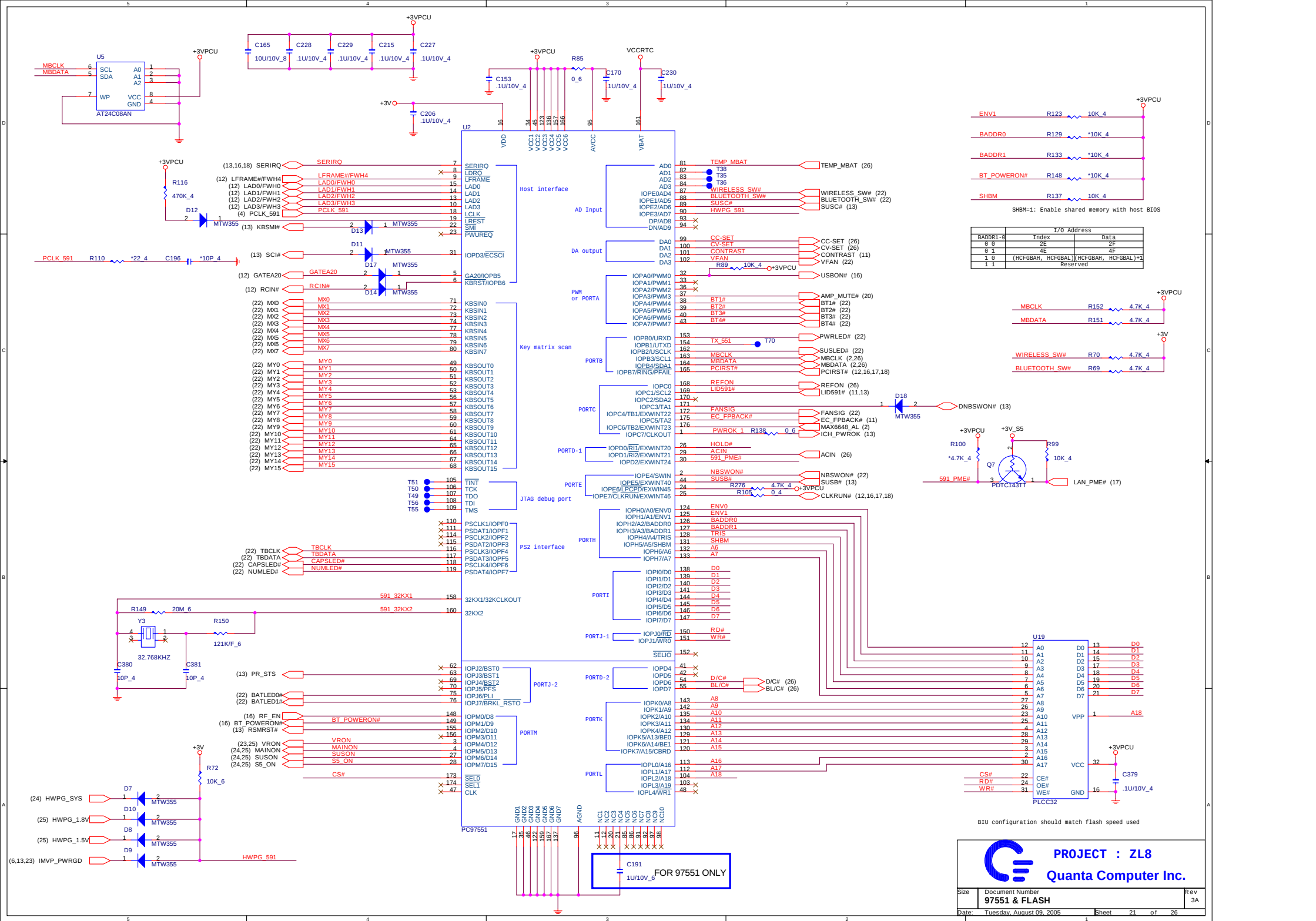
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ID Select : AD17
Interrupt Pin : INTC#
Request Indicate : REQ1#
Grant Indicate : GNT1#

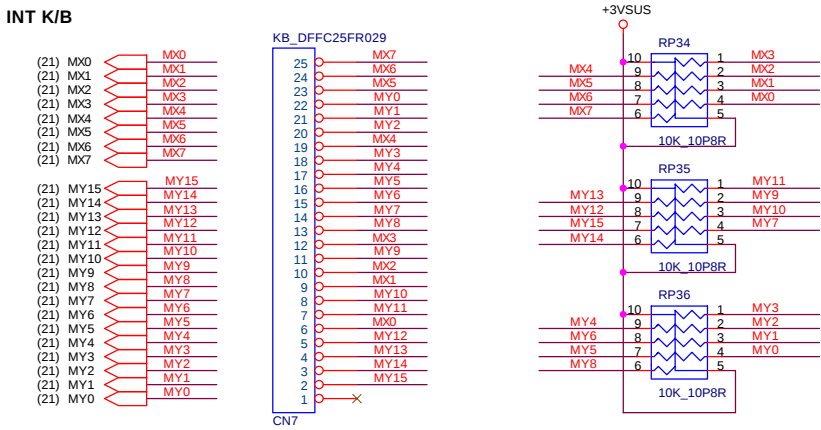




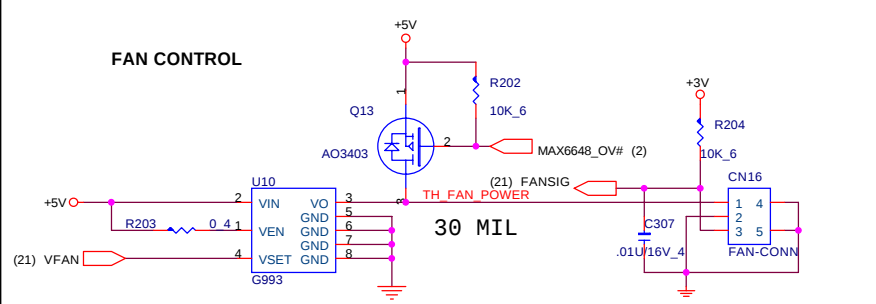




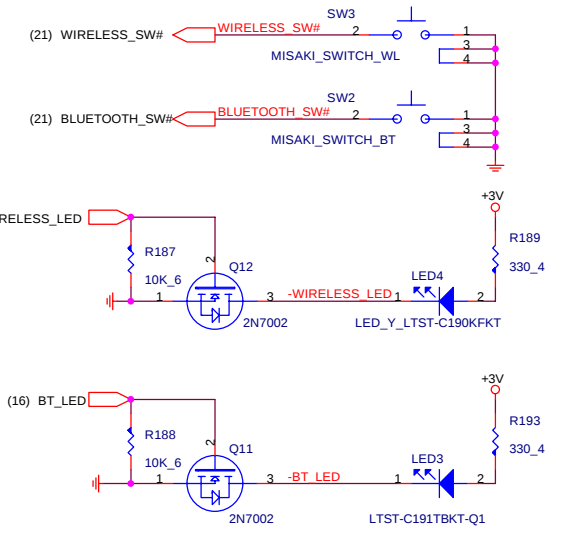
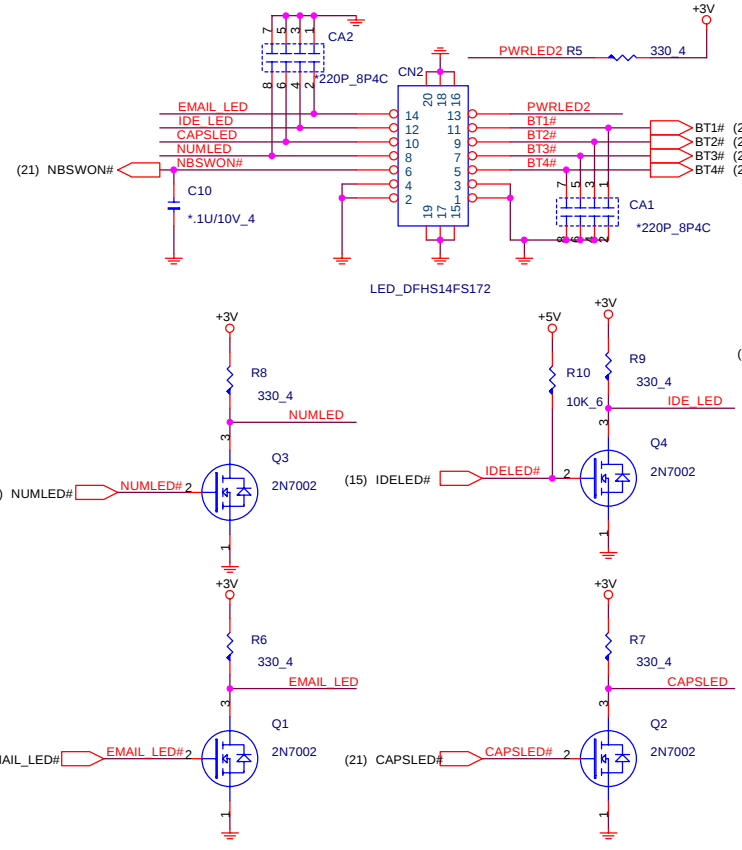
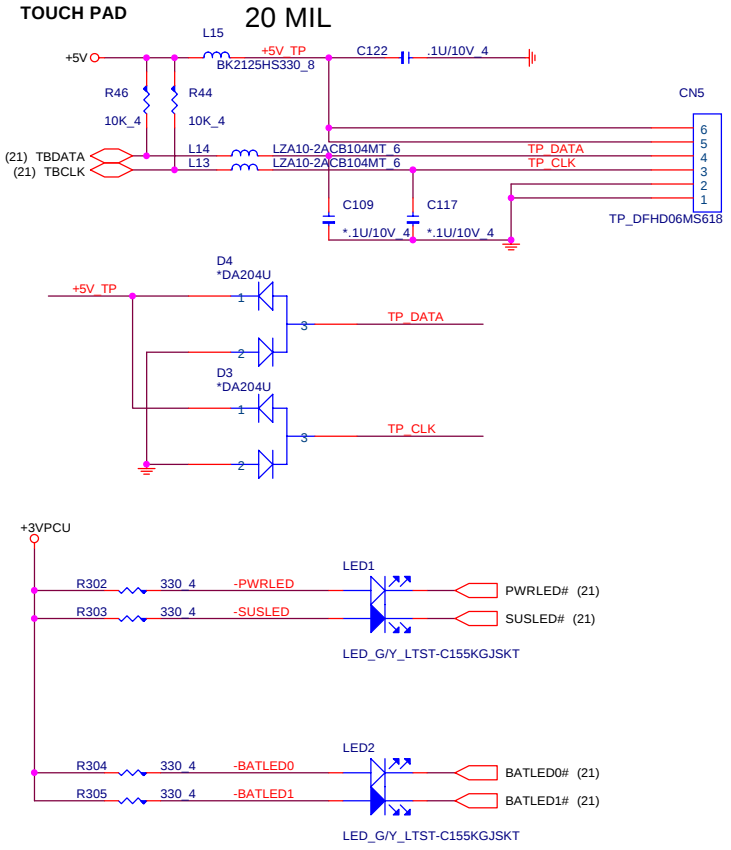
INT K/B



FAN CONTROL



TOUCH PAD





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	T/P,FAN,SWITCH,LED,K/B	3A
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value provided
2.67% offset;
old value was
for old 4.62%
offset.

BG waveforms
improved. may
delete from
future
revision.

3A change Footprint

3A change Footprint

160mi1

20 mil Trace list for layout

Added filter
for
PBOOT

100 mil Trace list for layout

10 mil Trace list for layout

DH_VCORE
LX_VCORE
DL_VCORE
DH_VCORE2
LX_VCORE2
DL_VCORE2

V I D							Vcore
VID 5	VID 4	VID 3	VID 2	VID 1	VID 0	V	
0	1	0	1	1	1	1.340	
0	1	1	0	0	0	1.324	
0	1	1	0	1	0	1.292	
0	1	1	1	0	0	1.260	
0	1	1	1	0	1	1.244	
0	1	1	1	1	1	1.212	
1	0	0	0	0	1	1.180	
1	0	0	0	1	1	1.148	
1	0	0	1	1	0	1.100	
1	0	1	0	0	1	1.052	
1	0	1	0	1	1	1.020	
1	0	1	1	1	0	0.972	
1	1	0	0	0	0	0.940	

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	CPU CORE (SC451)	3A
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A04916 Rds on = 27mOhm
ILOAD * Rds on * 10 = ILIM
ILIM5 = 1.485V Current limit 5.5A
ILIM3 = 1.35V Current limit 5A

