PEGATRON CONFIDENTIAL

MODEL NAME :

PCB NO :

69- P/N :

BA52_CP Colay Schematic

Intel Arrandale rPGA-989
PCH BGA 1071

2011-0503

REV :R2.0

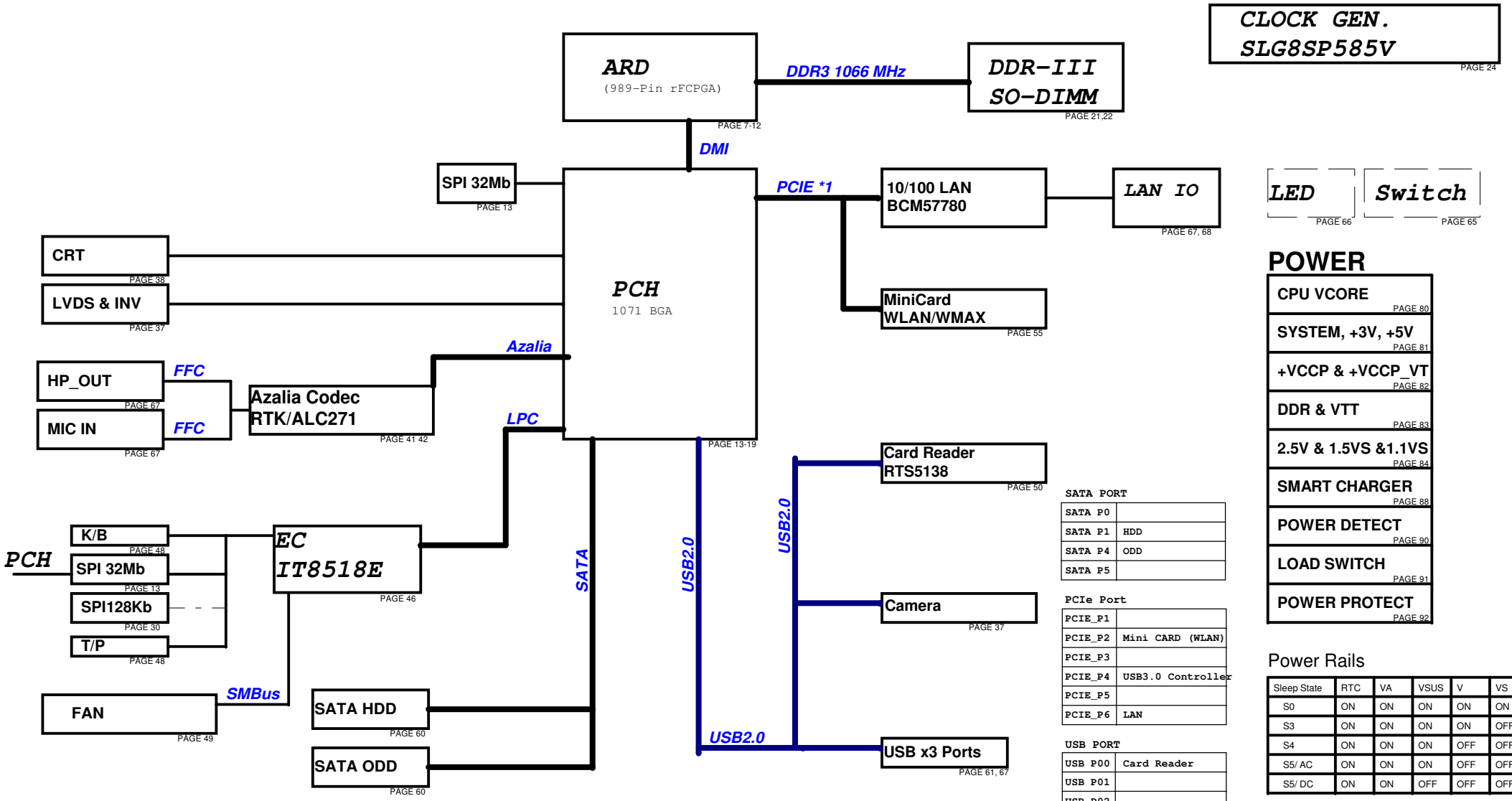
PEGATRON Title : Cover Page

BU1-RD Div.1-HW RD Dept.1 Engineer: Elmer Chiu

Size	Project Name	Rev
Custom	BIC50	2.0

Date: Wednesday, May 18, 2011 Sheet 1 of 77

BA52_CP BLOCK DIAGRAM



POWER

- CPU VCORE — PAGE 80
- SYSTEM, +3V, +5V — PAGE 81
- +VCCP & +VCCP_VT — PAGE 82
- DDR & VTT — PAGE 83
- 2.5V & 1.5VS &1.1VS — PAGE 84
- SMART CHARGER — PAGE 88
- POWER DETECT — PAGE 90
- LOAD SWITCH — PAGE 91
- POWER PROTECT — PAGE 92

SATA PORT

SATA P0	
SATA P1	HDD
SATA P4	ODD
SATA P5	

PCIe Port

PCIE_P1	
PCIE_P2	Mini CARD (WLAN)
PCIE_P3	
PCIE_P4	USB3.0 Controller
PCIE_P5	
PCIE_P6	LAN

USB PORT

USB P00	Card Reader
USB P01	
USB P02	
USB P03	
USB P04	
USB P05	
USB P08	WiFi
USB P09	External Entry
USB P10	Camera
USB P11	External Main
USB P12	External Main
USB P13	External Main/Entry

Power Rails

Sleep State	RTC	VA	VSUS	V	VS
S0	ON	ON	ON	ON	ON
S3	ON	ON	ON	ON	OFF
S4	ON	ON	ON	OFF	OFF
S5/ AC	ON	ON	ON	OFF	OFF
S5/ DC	ON	ON	OFF	OFF	OFF

PEGATRON Title : BLOCK DIAGRAM
BU1-RD Div.1-HW RD Dept.1 Engineer: Elmer Chiu
Size: Custom | Project Name: BIC50 | Rev: 2.0
Date: Tuesday, May 03, 2011 | Sheet 2 of 77

SCHEMATIC INDEX V1.0

PAGE#	Description	NOTE
01	Cover Page	
02	Block Diagram	
03	PAGE INDEX	
04	Bus connection	
05	SMBus Diagram	
06	Power Rail	
07-10	CPU	
11-16	GMCH	
17-20	ICH	
21-23	DDR2/3 SO-DIMM	
24	Clock Generator	
25-33	Reserved	
34	Power Express/ SLI Logic	
35-36	Reserved VGA port	
37	LVDS CON	
38	RGB CON	
39	HDMI (Level shift for UMA)	
40	Dispaly port	
41-45	AUDIO CODEC & AMP & Jack	
46-48	EC ITE8512E / FLASH / KB / TP	
49	THERMAL / FAN	
50-52	CARD READER / 1394	
53	Smart Card	
54	PCI-Express Card	
55	MINI CARD -WUSB /UPCONVERT	
56	MINI CARD -WWAN	
57	MINI CARD -WiFi/WMAX	
58-59	Reserve	
60	SATA(HDD & CD_ROM)	
61-62	USB (Jacks & Camera & BT & FP con & eSATA)	
63-64	DC-IN / Discharge / NVM	Reserved
65-66	CIR, LID, MDC, SW, LED, Power BTN, Debug	Other int CONNs
67-68	LAN / RJ45 / RJ11	

PAGE#	Description	NOTE
69	3D sensor	
70	CAP sense	
71	FM tunner	
72	SCREW PAD	
73	NAND FLASH/ HYPER FLASH	
74	Reserved	
75	XDP	
76	Port Docking	
77	DC-IN & BAT connector and discharge	
78	Power Sequence Logic	
79	POWER LOAD SWITCH	
80-100	POWER schematics	
101-	Daughter Board Combined Solutions	

PEGATRON Title : PAGE INDEX

BU1-RD Div.1-HW RD Dept.1 Engineer: Elmer Chiu

Size	Project Name	Rev
Custom	BIC50	2.0

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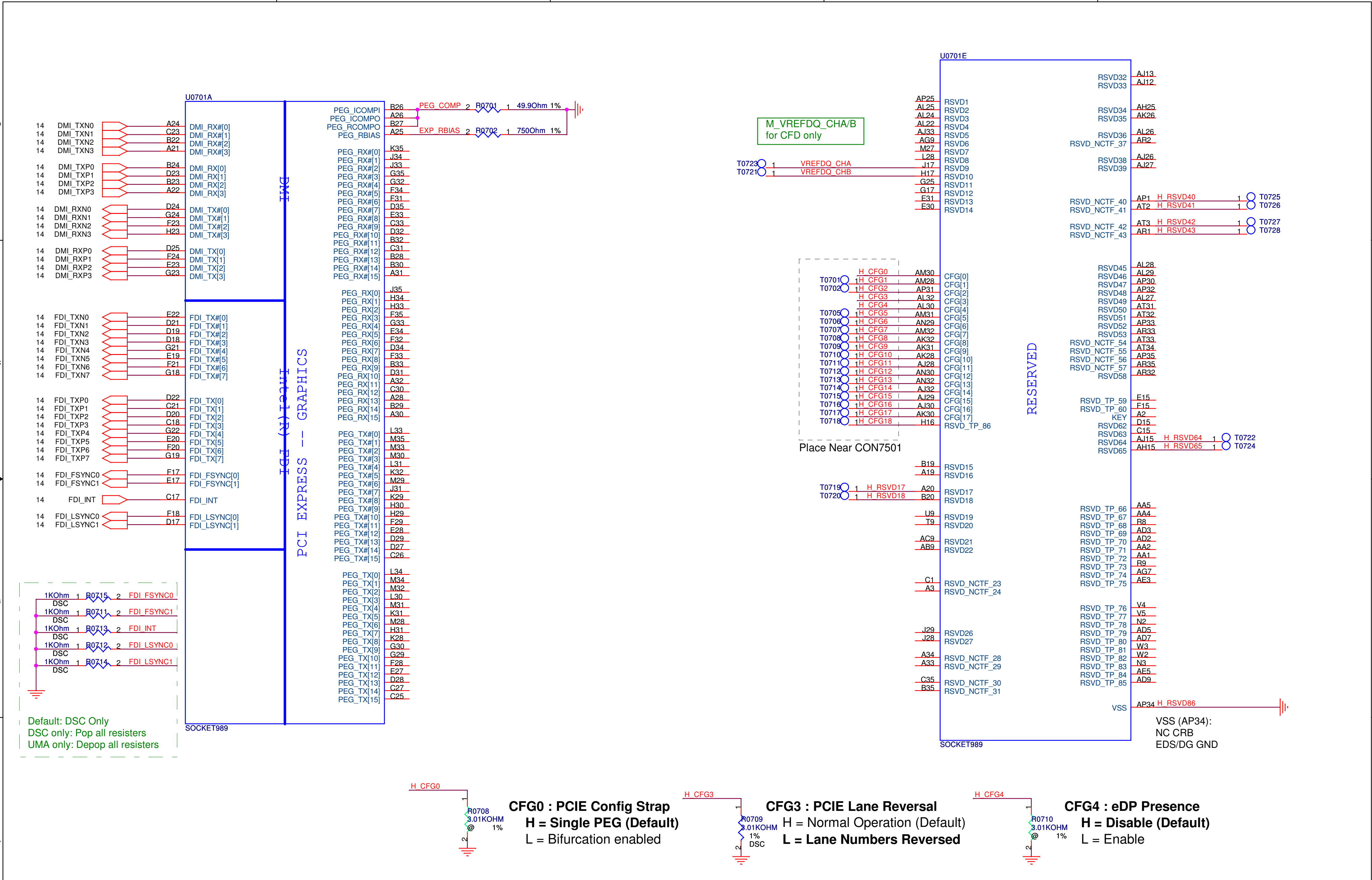
U0701A
DMI
PCI EXPRESS -- GRAPHICS
Intel(R) FDI
SOCKET989
PEG_ICOMPI
PEG_ICOMPO
PEG_RCOMPO
PEG_RBIAS
PEG_COMP
EXP_RBIAS
R0701 49.9Ohm 1%
R0702 750Ohm 1%
DMI_TXN0 DMI_TXN1 DMI_TXN2 DMI_TXN3
DMI_TXP0 DMI_TXP1 DMI_TXP2 DMI_TXP3
DMI_RXN0 DMI_RXN1 DMI_RXN2 DMI_RXN3
DMI_RXP0 DMI_RXP1 DMI_RXP2 DMI_RXP3
FDI_TXN0 FDI_TXN1 FDI_TXN2 FDI_TXN3 FDI_TXN4 FDI_TXN5 FDI_TXN6 FDI_TXN7
FDI_TXP0 FDI_TXP1 FDI_TXP2 FDI_TXP3 FDI_TXP4 FDI_TXP5 FDI_TXP6 FDI_TXP7
FDI_FSYNC0 FDI_FSYNC1
FDI_INT
FDI_LSYNC0 FDI_LSYNC1
1KOhm R0715 DSC FDI_FSYNC0
1KOhm R0711 DSC FDI_FSYNC1
1KOhm R0713 DSC FDI_INT
1KOhm R0712 DSC FDI_LSYNC0
1KOhm R0714 DSC FDI_LSYNC1
Default: DSC Only
DSC only: Pop all resisters
UMA only: Depop all resisters
M_VREFDQ_CHA/B
for CFD only
VREFDQ_CHA
VREFDQ_CHB
U0701E
RESERVED
Place Near CON7501
H_CFG0 ... H_CFG18
H_RSVD17 H_RSVD18
H_RSVD40 H_RSVD41 H_RSVD42 H_RSVD43
H_RSVD64 H_RSVD65
H_RSVD86
VSS (AP34):
NC CRB
EDS/DG GND
R0708 3.01KOHM 1%
CFG0 : PCIE Config Strap
H = Single PEG (Default)
L = Bifurcation enabled
R0709 3.01KOHM 1% DSC
CFG3 : PCIE Lane Reversal
H = Normal Operation (Default)
L = Lane Numbers Reversed
R0710 3.01KOHM 1%
CFG4 : eDP Presence
H = Disable (Default)
L = Enable

PEGATRON Title : CPU(1)

BU1-RD Div.1-HW RD Dept.1 Engineer: Elmer Chiu

Size	Project Name	Rev
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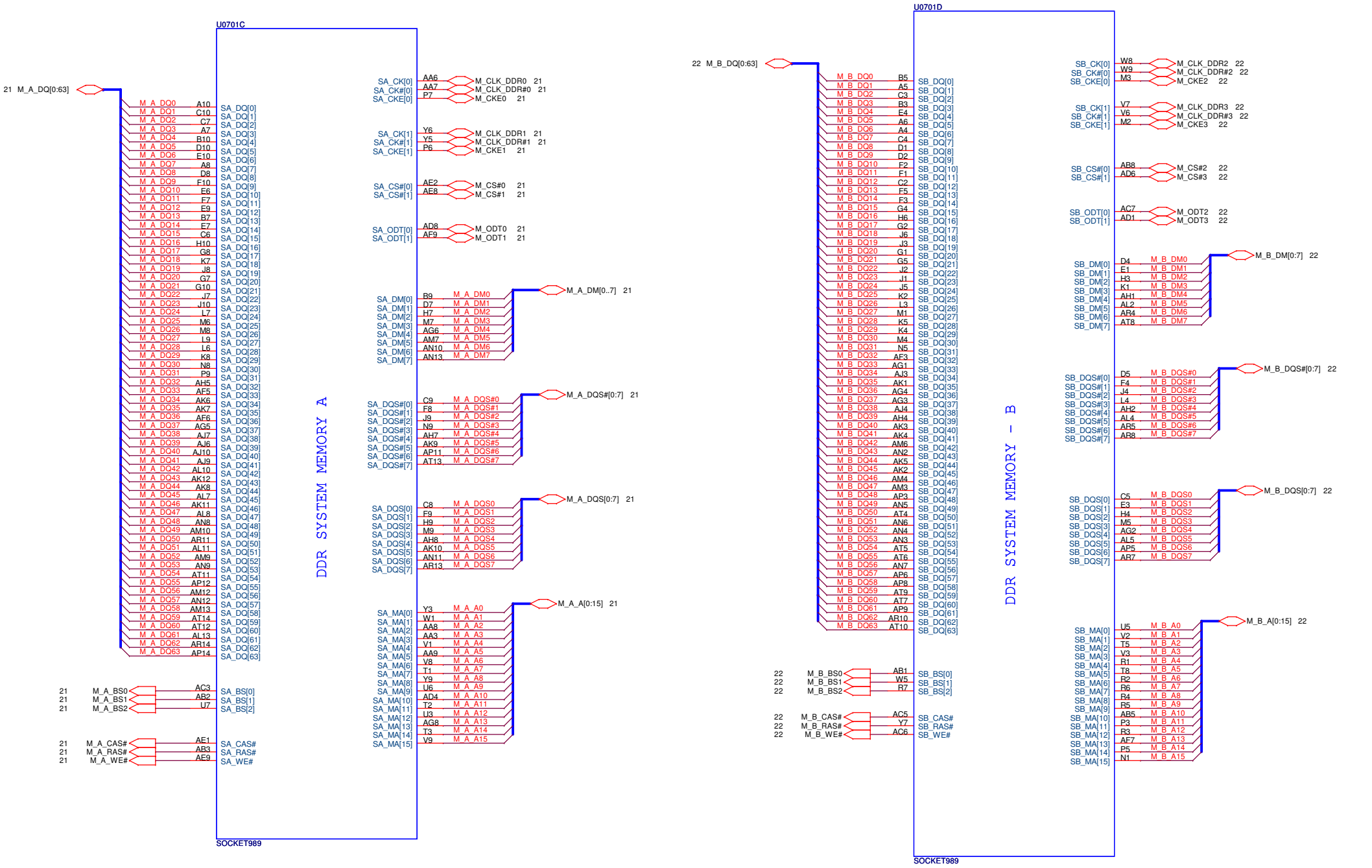
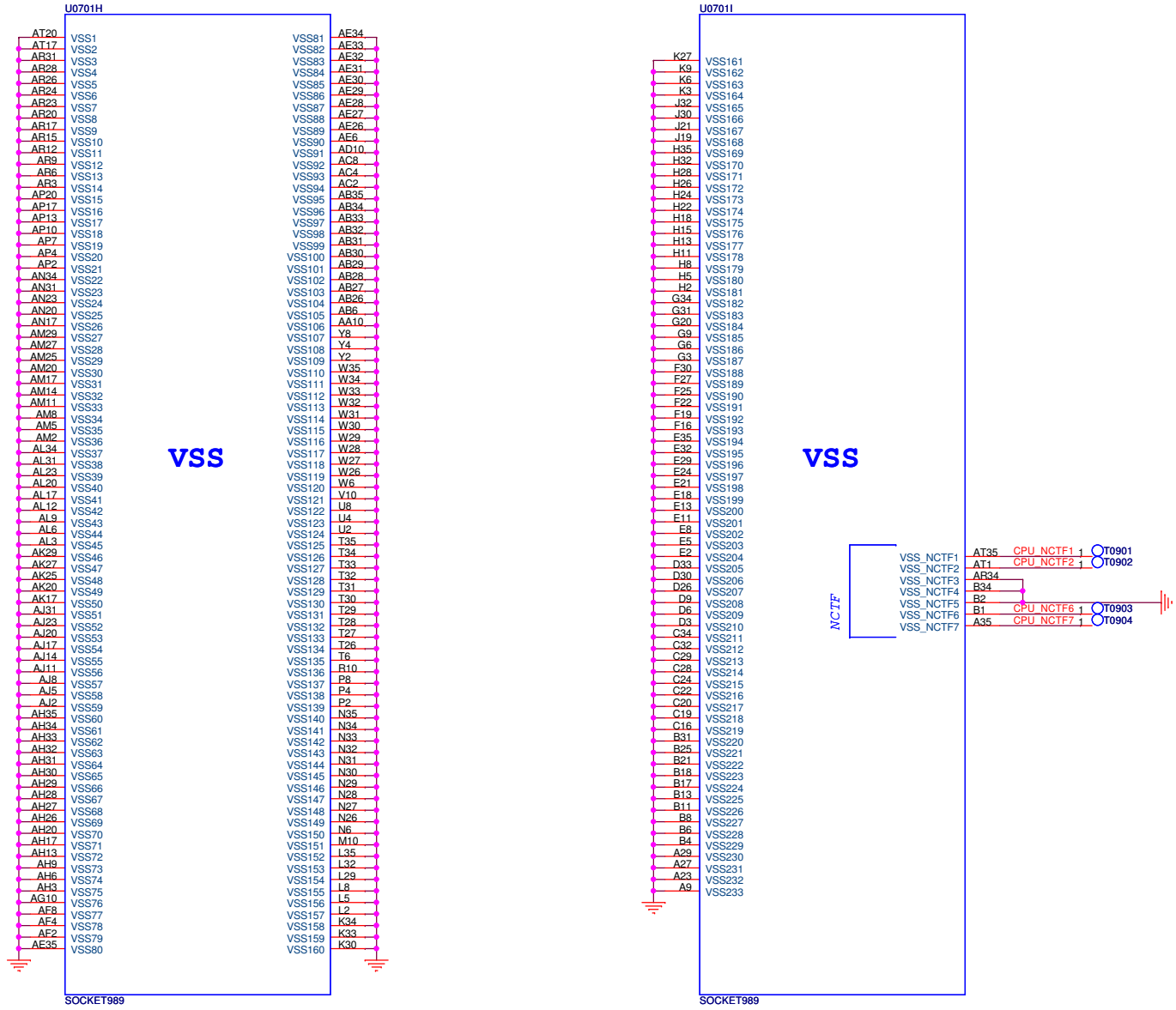


PEGATRON Title : CPU CLK/MISC/JTAG

BU1-RD Div.1-HW RD Dept.1 Engineer: Elmer Chiu

Size	Project Name	Rev
Custom	BIC50	2.0

Date: Tuesday, May 03, 2011 Sheet 8 of 77



PEGATRON Title : CPU GND

BU1-RD Div.1-HW RD Dept.1 Engineer: Elmer Chiu

Size	Project Name	Rev
Custom	BIC50	2.0

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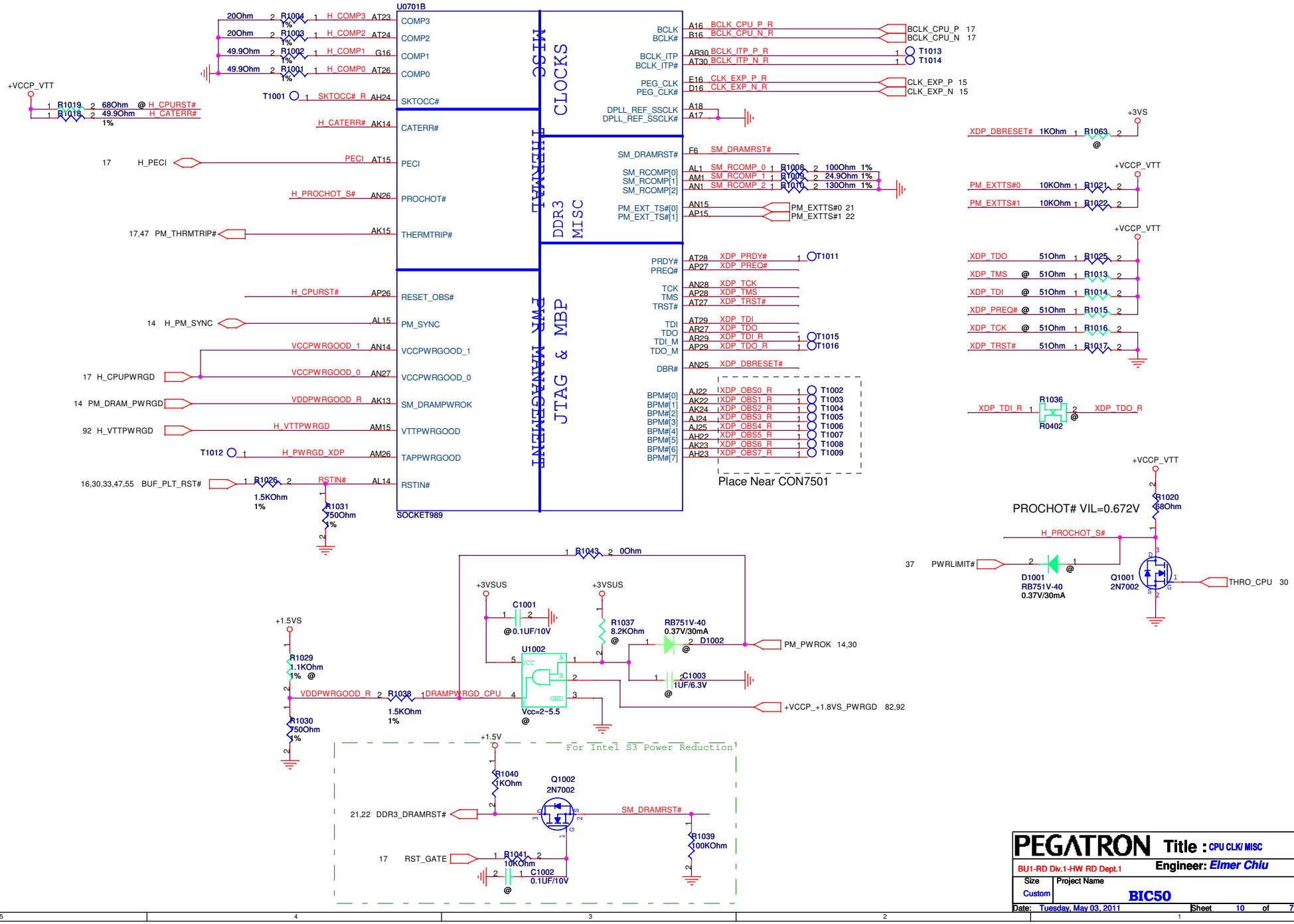
U0701B
MISC CLOCKS
DDR3 MISC
THERMAL PWR MANAGEMENT
JTAG & MBP
SOCKET989
COMP3
COMP2
COMP1
COMP0
SKTOCC#
CATERR#
PECI
PROCHOT#
THERMTRIP#
RESET_OBS#
PM_SYNC
VCCPWRGOOD_1
VCCPWRGOOD_0
SM_DRAMPWROK
VTTPWRGOOD
TAPPWRGOOD
RSTIN#
BCLK
BCLK#
BCLK_ITP
BCLK_ITP#
PEG_CLK
PEG_CLK#
DPLL_REF_SSCLK
DPLL_REF_SSCLK#
SM_DRAMRST#
SM_RCOMP[0]
SM_RCOMP[1]
SM_RCOMP[2]
PM_EXT_TS#[0]
PM_EXT_TS#[1]
PRDY#
PREQ#
TCK
TMS
TRST#
TDI
TDO
TDI_M
TDO_M
DBR#
BPM#[0]
BPM#[1]
BPM#[2]
BPM#[3]
BPM#[4]
BPM#[5]
BPM#[6]
BPM#[7]
Place Near CON7501
PROCHOT# VIL=0.672V
D1001
RB751V-40
0.37V/30mA
Q1001
2N7002
Q1002
2N7002
For Intel S3 Power Reduction
U1002
Vcc=2~5.5
PEGATRON
Title : CPU CLK/ MISC
BU1-RD Div.1-HW RD Dept.1
Engineer: Elmer Chiu
Size
Custom
Project Name
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2.0
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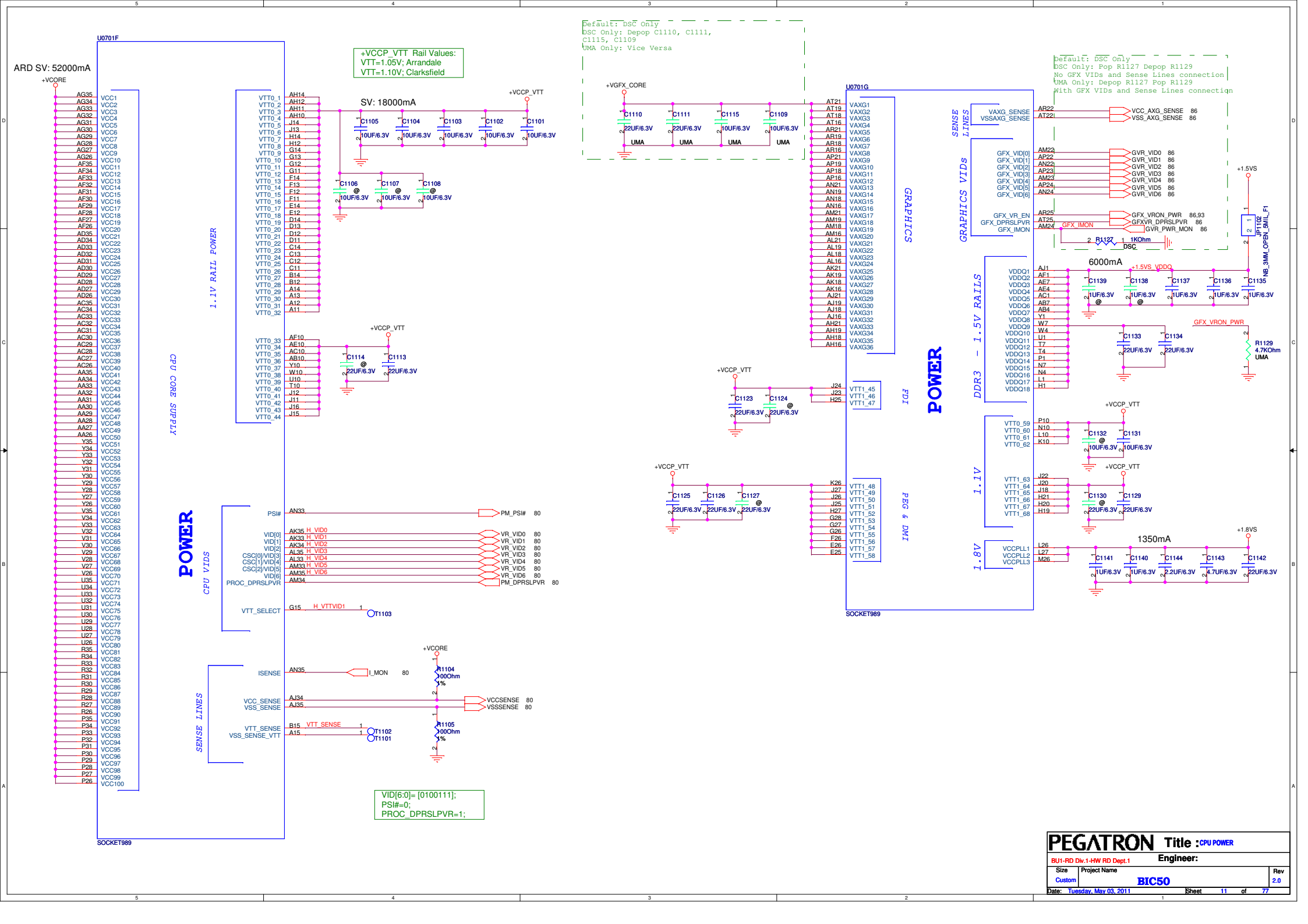
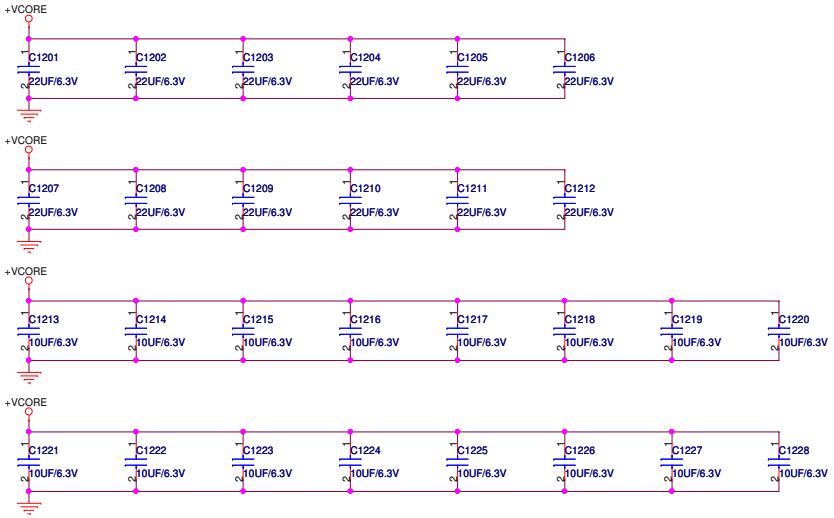


PEGATRON	Title : CPU POWER	
BU1-RD Div.1-HW RD Dept.1	Engineer:	
Size: Custom	Project Name: BIC50	Rev: 2.0
Date: Tuesday, May 03, 2011	Sheet 11 of 77	

Decoupling guide from INTEL

VCORE	10uF	x 16pcs
	22uF	x 12pcs



PEGATRON Title : CPU CAPS

BU1-RD Div.1-HW RD Dept.1 Engineer:

Size	Project Name	Rev
Custom	BIC50	2.0

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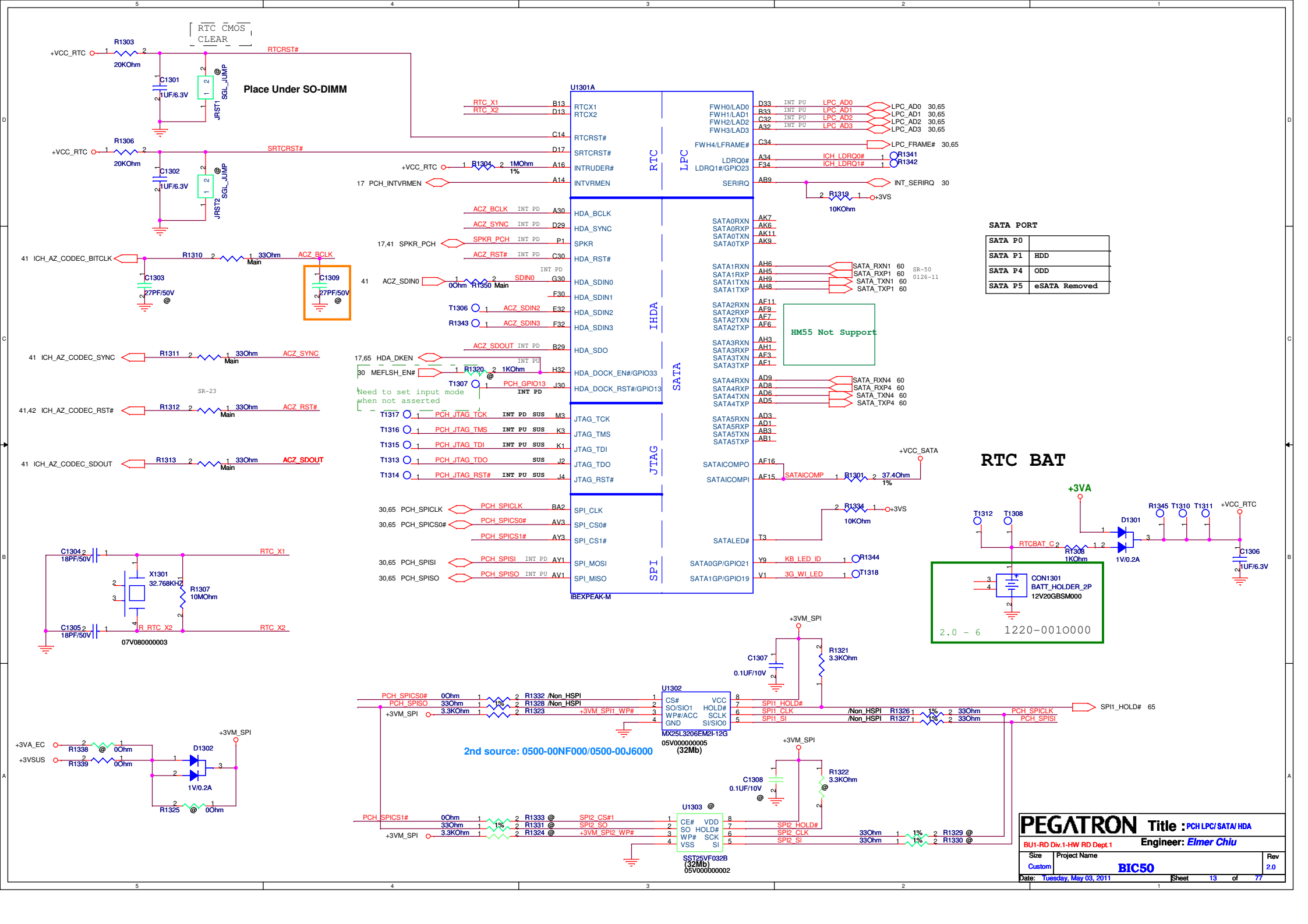
RTC CMOS CLEAR
Place Under SO-DIMM
U1301A
RTC
LPC
IHDA
SATA
JTAG
SPI
IBEXPEAK-M
HM55 Not Support
SATA PORT
SATA P0
SATA P1 HDD
SATA P4 ODD
SATA P5 eSATA Removed
RTC BAT
CON1301 BATT_HOLDER_2P 12V20GBSM000
2nd source: 0500-00NF000/0500-00J6000
PEGATRON
Title : PCH LPC/ SATA/ HDA
BU1-RD Div.1-HW RD Dept.1
Engineer: Elmer Chiu
Project Name BIC50
Rev 2.0
Date: Tuesday, May 03, 2011
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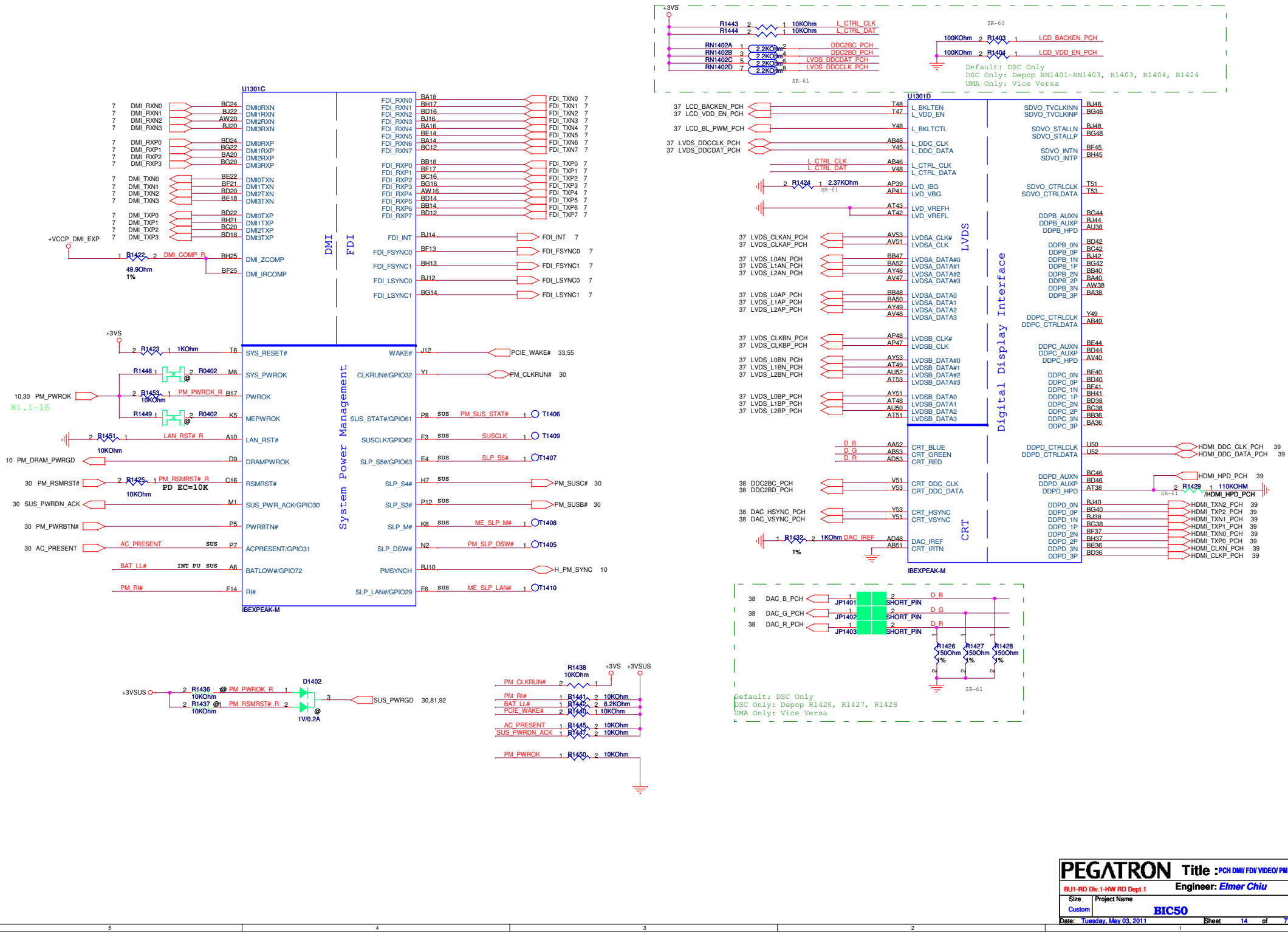
U1301C
DMI
FDI
System Power Management
IBEXPEAK-M
U1301D
LVDS
Digital Display Interface
CRT
IBEXPEAK-M
SR-60
SR-61
Default: DSC Only
DSC Only: Depop RN1401~RN1403, R1403, R1404, R1424
UMA Only: Vice Versa
Default: DSC Only
DSC Only: Depop R1426, R1427, R1428
UMA Only: Vice Versa
PEGATRON
Title : PCH DMI/ FDI/ VIDEO/ PM
BU1-RD Div.1-HW RD Dept.1
Engineer: Elmer Chiu
Size
Custom
Project Name
BIC50
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2.0
Date: Tuesday, May 03, 2011
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PCIE 1	
PCIE 2	Mini CARD (WLAN)
PCIE 3	
PCIE 4	
PCIE 5	
PCIE 6	LAN

U1301B

IBEXPEAK-M

PCI-E*

SMBus

C-Link

PEG

Clock Inputs from CLK BUFFER

Clock Flex

HM55 Not Support

PU +3VSUS at CON5501

Damping CPU Side

PU EC

Title :	PCH CLK/ USB/ PCIE/ NVM
Engineer:	Elmer Chiu
BU1-RD Div.1-HW RD Dept.1	
Size: Custom	Project Name: BIC50
Rev:	2.0
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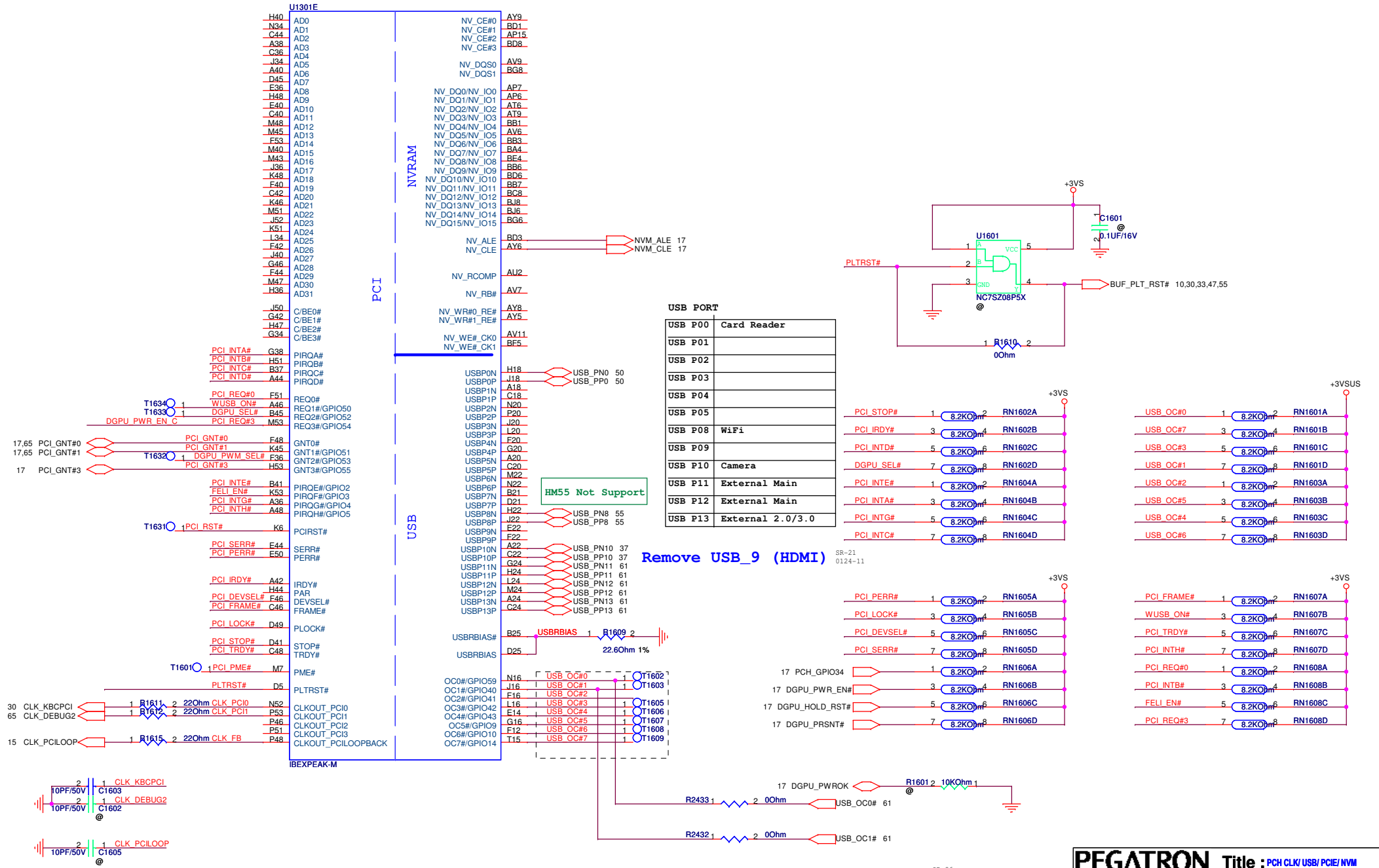

PEGATRON Title : PCH CLK/ USB/ PCIE/ NVM

BU1-RD Div.1-HW RD Dept.1 Engineer: Elmer Chiu

Size	Project Name	Rev
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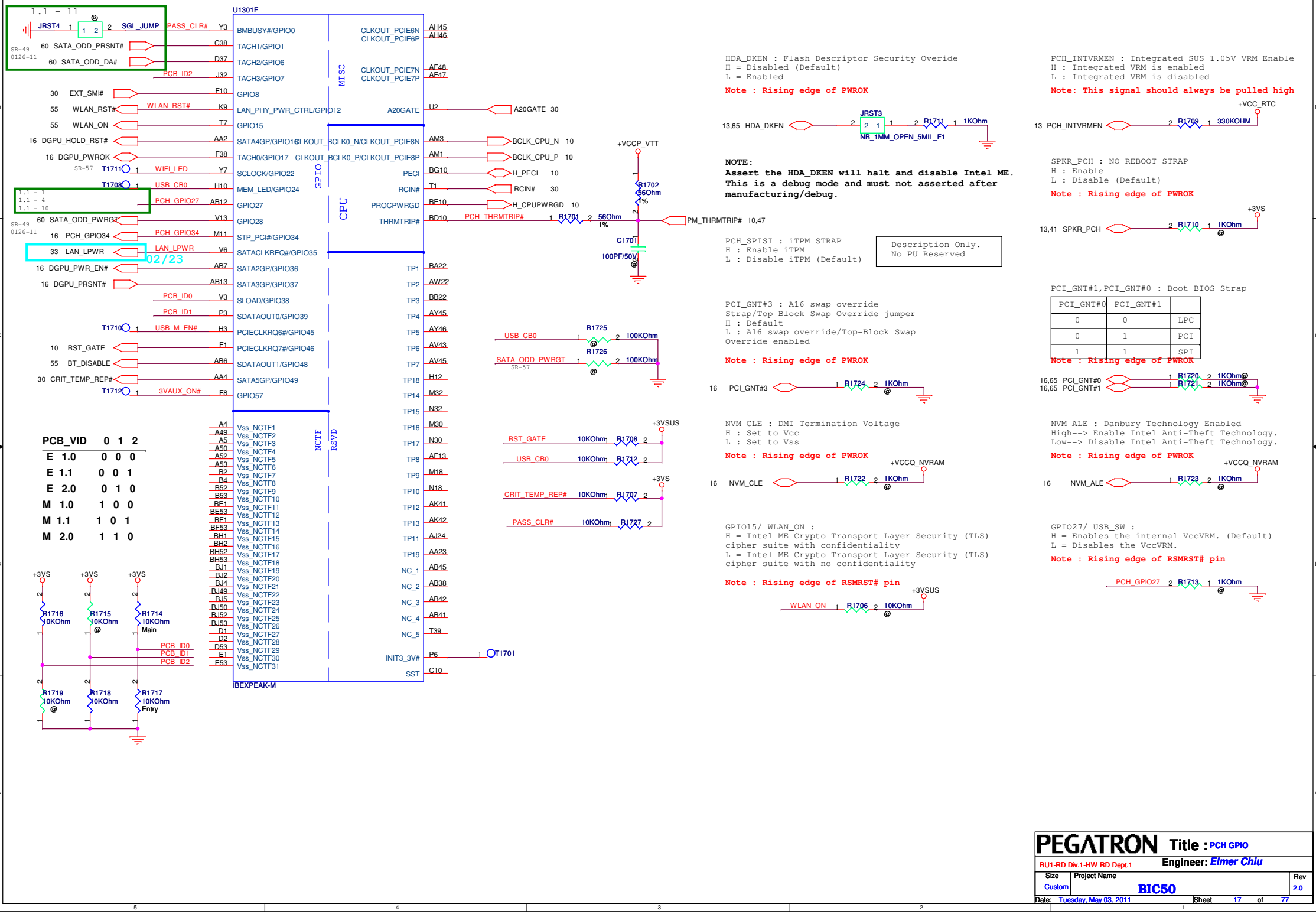
U1301F
IBEXPEAK-M
BMBUSY#/GPIO0
TACH1/GPIO1
TACH2/GPIO6
TACH3/GPIO7
GPIO8
LAN_PHY_PWR_CTRL/GPIO12
GPIO15
SATA4GP/GPIO16
TACH0/GPIO17
SCLOCK/GPIO22
MEM_LED/GPIO24
GPIO27
GPIO28
STP_PCI#/GPIO34
SATACLKREQ#/GPIO35
SATA2GP/GPIO36
SATA3GP/GPIO37
SLOAD/GPIO38
SDATAOUT0/GPIO39
PCIECLKRQ6#/GPIO45
PCIECLKRQ7#/GPIO46
SDATAOUT1/GPIO48
SATA5GP/GPIO49
GPIO57
MISC
GPIO
CPU
NCTF
RSVD
CLKOUT_PCIE6N
CLKOUT_PCIE6P
CLKOUT_PCIE7N
CLKOUT_PCIE7P
A20GATE
CLKOUT_BCLK0_N/CLKOUT_PCIE8N
CLKOUT_BCLK0_P/CLKOUT_PCIE8P
PECI
RCIN#
PROCPWRGD
THRMTRIP#
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP18
TP14
TP15
TP16
TP17
TP8
TP9
TP10
TP12
TP13
TP11
TP19
NC_1
NC_2
NC_3
NC_4
NC_5
INIT3_3V#
SST
Vss_NCTF1
Vss_NCTF2
Vss_NCTF3
Vss_NCTF4
Vss_NCTF5
Vss_NCTF6
Vss_NCTF7
Vss_NCTF8
Vss_NCTF9
Vss_NCTF10
Vss_NCTF11
Vss_NCTF12
Vss_NCTF13
Vss_NCTF14
Vss_NCTF15
Vss_NCTF16
Vss_NCTF17
Vss_NCTF18
Vss_NCTF19
Vss_NCTF20
Vss_NCTF21
Vss_NCTF22
Vss_NCTF23
Vss_NCTF24
Vss_NCTF25
Vss_NCTF26
Vss_NCTF27
Vss_NCTF28
Vss_NCTF29
Vss_NCTF30
Vss_NCTF31
JRST4
SGL_JUMP
PASS_CLR#
SATA_ODD_PRSNT#
SATA_ODD_DA#
PCB_ID2
EXT_SMI#
WLAN_RST#
WLAN_ON
DGPU_HOLD_RST#
DGPU_PWROK
WIFI_LED
USB_CB0
PCH_GPIO27
SATA_ODD_PWRGT
PCH_GPIO34
LAN_LPWR
DGPU_PWR_EN#
DGPU_PRSNT#
PCB_ID0
PCB_ID1
USB_M_EN#
RST_GATE
BT_DISABLE
CRIT_TEMP_REP#
3VAUX_ON#
BCLK_CPU_N
BCLK_CPU_P
H_PECI
RCIN#
H_CPUPWRGD
PCH_THRMTRIP#
PM_THRMTRIP# 10,47
+VCCP_VTT
R1702 56Ohm 1%
C1701 100PF/50V
R1701 56Ohm 1%
R1725 100KOhm
R1726 100KOhm
R1708 10KOhm
R1712 10KOhm
R1707 10KOhm
R1727 10KOhm
+3VSUS
+3VS
R1716 10KOhm
R1715 10KOhm @
R1714 10KOhm Main
R1719 10KOhm @
R1718 10KOhm
R1717 10KOhm Entry
T1701
T1710
T1711
T1712
PCB_VID 0 1 2
E 1.0 0 0 0
E 1.1 0 0 1
E 2.0 0 1 0
M 1.0 1 0 0
M 1.1 1 0 1
M 2.0 1 1 0
HDA_DKEN : Flash Descriptor Security Overide
H = Disabled (Default)
L = Enabled
Note : Rising edge of PWROK
13,65 HDA_DKEN
JRST3
R1711 1KOhm
NB_1MM_OPEN_5MIL_F1
NOTE:
Assert the HDA_DKEN will halt and disable Intel ME. This is a debug mode and must not asserted after manufacturing/debug.
PCH_SPISI : iTPM STRAP
H : Enable iTPM
L : Disable iTPM (Default)
Description Only.
No PU Reserved
PCI_GNT#3 : A16 swap override
Strap/Top-Block Swap Override jumper
H : Default
L : A16 swap override/Top-Block Swap Override enabled
Note : Rising edge of PWROK
16 PCI_GNT#3
R1724 1KOhm @
NVM_CLE : DMI Termination Voltage
H : Set to Vcc
L : Set to Vss
Note : Rising edge of PWROK
+VCCQ_NVRAM
16 NVM_CLE
R1722 1KOhm @
GPIO15/ WLAN_ON :
H = Intel ME Crypto Transport Layer Security (TLS) cipher suite with confidentiality
L = Intel ME Crypto Transport Layer Security (TLS) cipher suite with no confidentiality
Note : Rising edge of RSMRST# pin
WLAN_ON
R1706 10KOhm @
PCH_INTVRMEN : Integrated SUS 1.05V VRM Enable
H : Integrated VRM is enabled
L : Integrated VRM is disabled
Note: This signal should always be pulled high
+VCC_RTC
13 PCH_INTVRMEN
R1709 330KOHM
SPKR_PCH : NO REBOOT STRAP
H : Enable
L : Disable (Default)
Note : Rising edge of PWROK
+3VS
13,41 SPKR_PCH
R1710 1KOhm @
PCI_GNT#1,PCI_GNT#0 : Boot BIOS Strap
PCI_GNT#0 PCI_GNT#1
0 0 LPC
0 1 PCI
1 1 SPI
Note : Rising edge of PWROK
16,65 PCI_GNT#0
16,65 PCI_GNT#1
R1720 1KOhm@
R1721 1KOhm@
NVM_ALE : Danbury Technology Enabled
High--> Enable Intel Anti-Theft Technology.
Low--> Disable Intel Anti-Theft Technology.
Note : Rising edge of PWROK
+VCCQ_NVRAM
16 NVM_ALE
R1723 1KOhm @
GPIO27/ USB_SW :
H = Enables the internal VccVRM. (Default)
L = Disables the VccVRM.
Note : Rising edge of RSMRST# pin
PCH_GPIO27
R1713 1KOhm @
PEGATRON
Title : PCH GPIO
BU1-RD Div.1-HW RD Dept.1
Engineer: Elmer Chiu
Size Custom
Project Name BIC50
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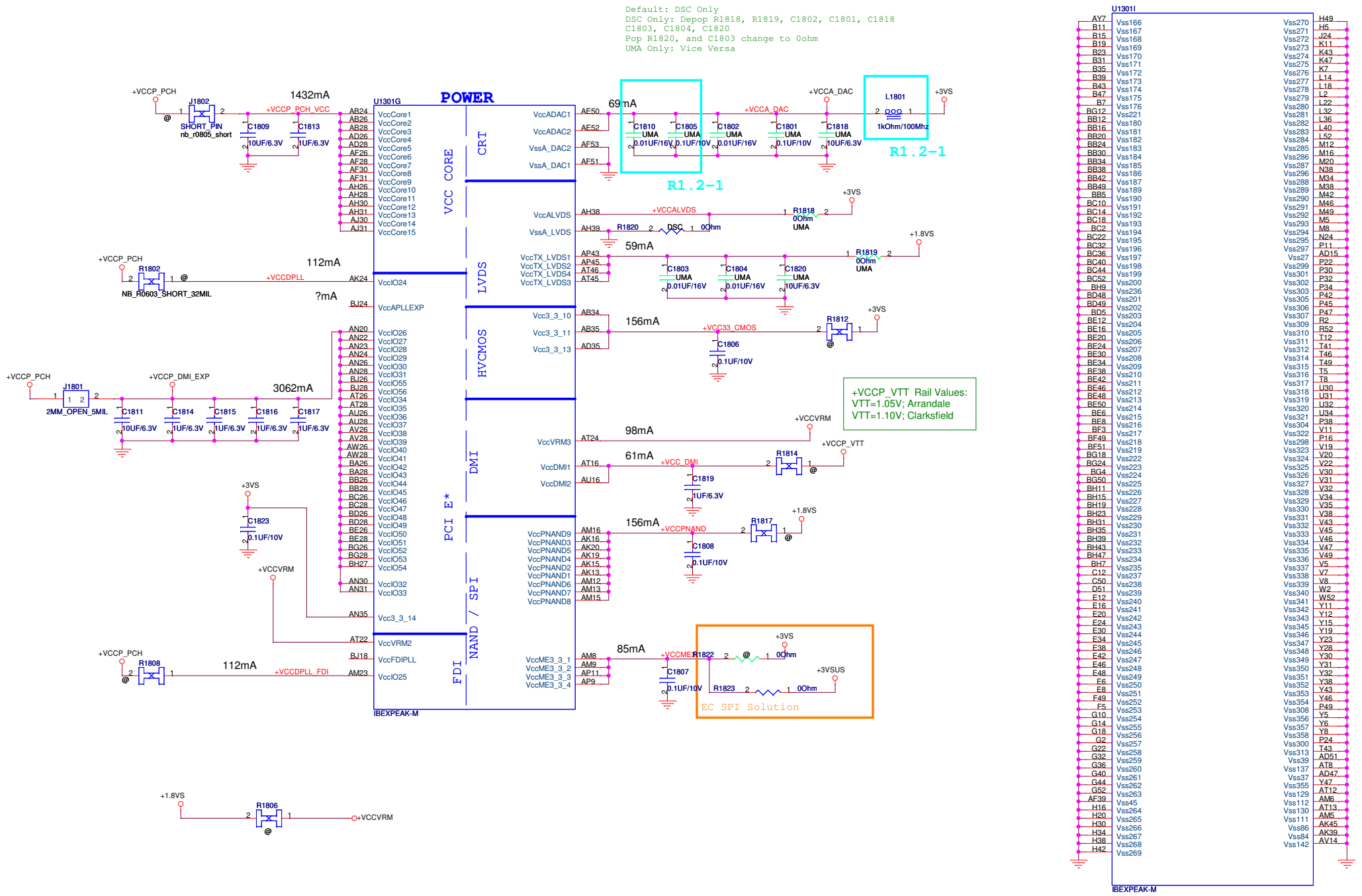

PEGATRON	Title : PCH PWR(1)		
BU1-RD Div.1-HW RD Dept.1	Engineer: Elmer Chiu		
Size: Custom	Project Name: BIC50	Rev: 2.0	
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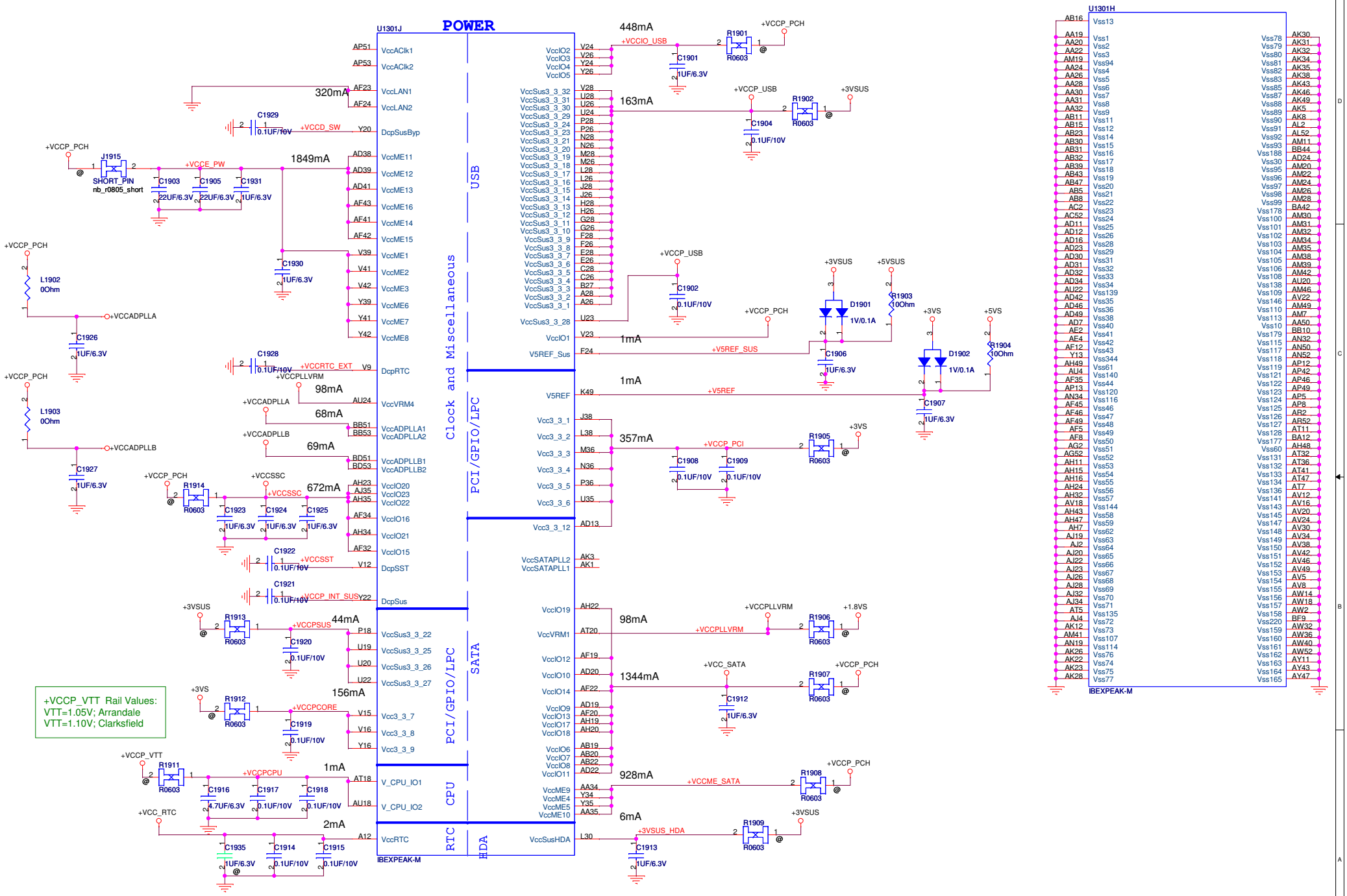
POWER
U1301J
IBEXPEAK-M
Clock and Miscellaneous
USB
PCI/GPIO/LPC
SATA
PCI/GPIO/LPC
CPU
RTC
HDA
U1301H
IBEXPEAK-M
+VCCP_VTT Rail Values:
VTT=1.05V; Arrandale
VTT=1.10V; Clarksfield
PEGATRON
Title : PCH PWR
BU1-RD Div.1-HW RD Dept.1
Engineer: Elmer Chiu
Size
Custom
Project Name
BIC50
Rev
2.0
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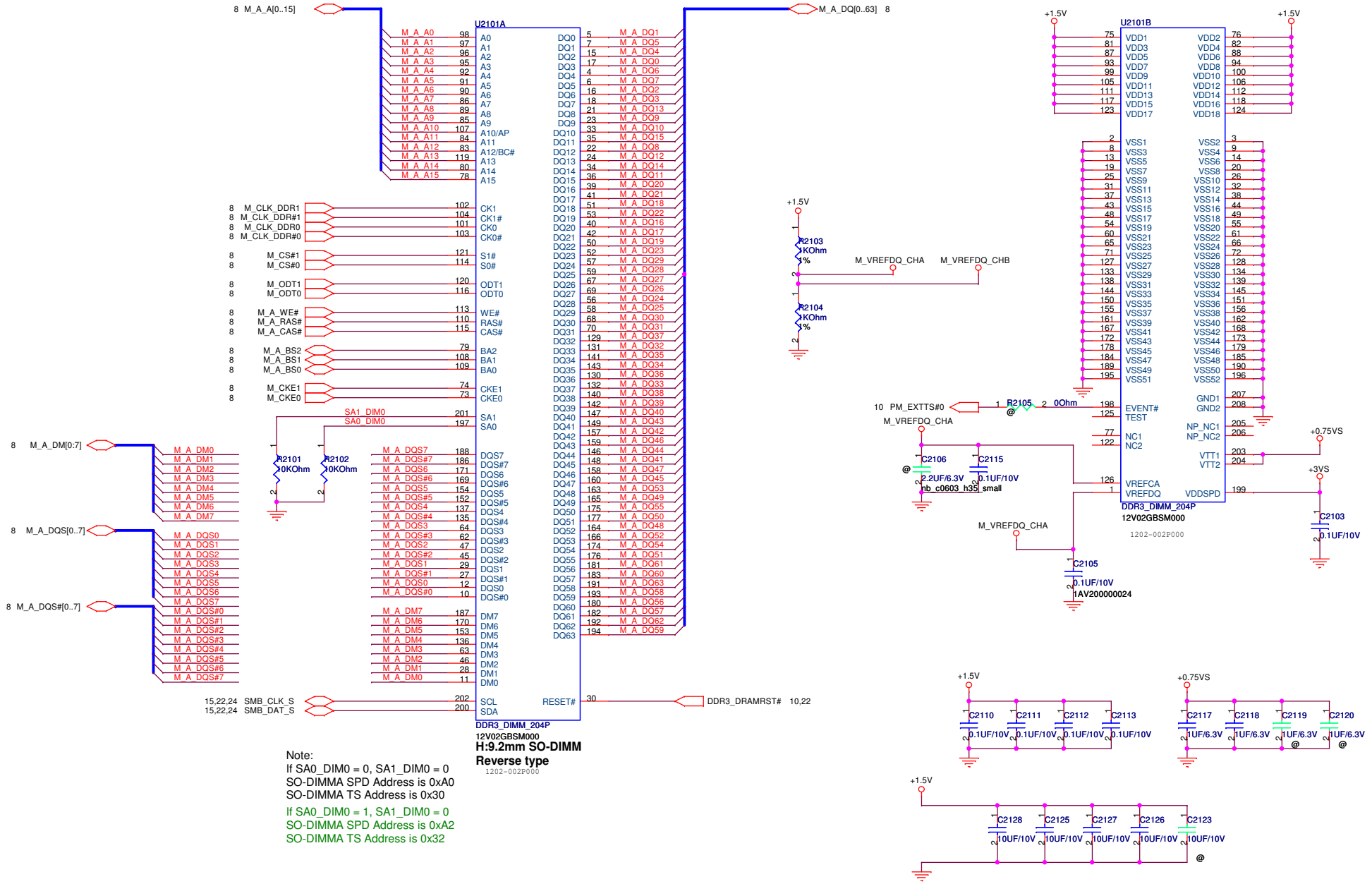

PEGATRON Title : DDR3 SO-DIMM-Channel A

BU1-RD Div.1-HW RD Dept.1 Engineer: Elmer Chiu

Size	Project Name	Rev
Custom	BIC50	2.0

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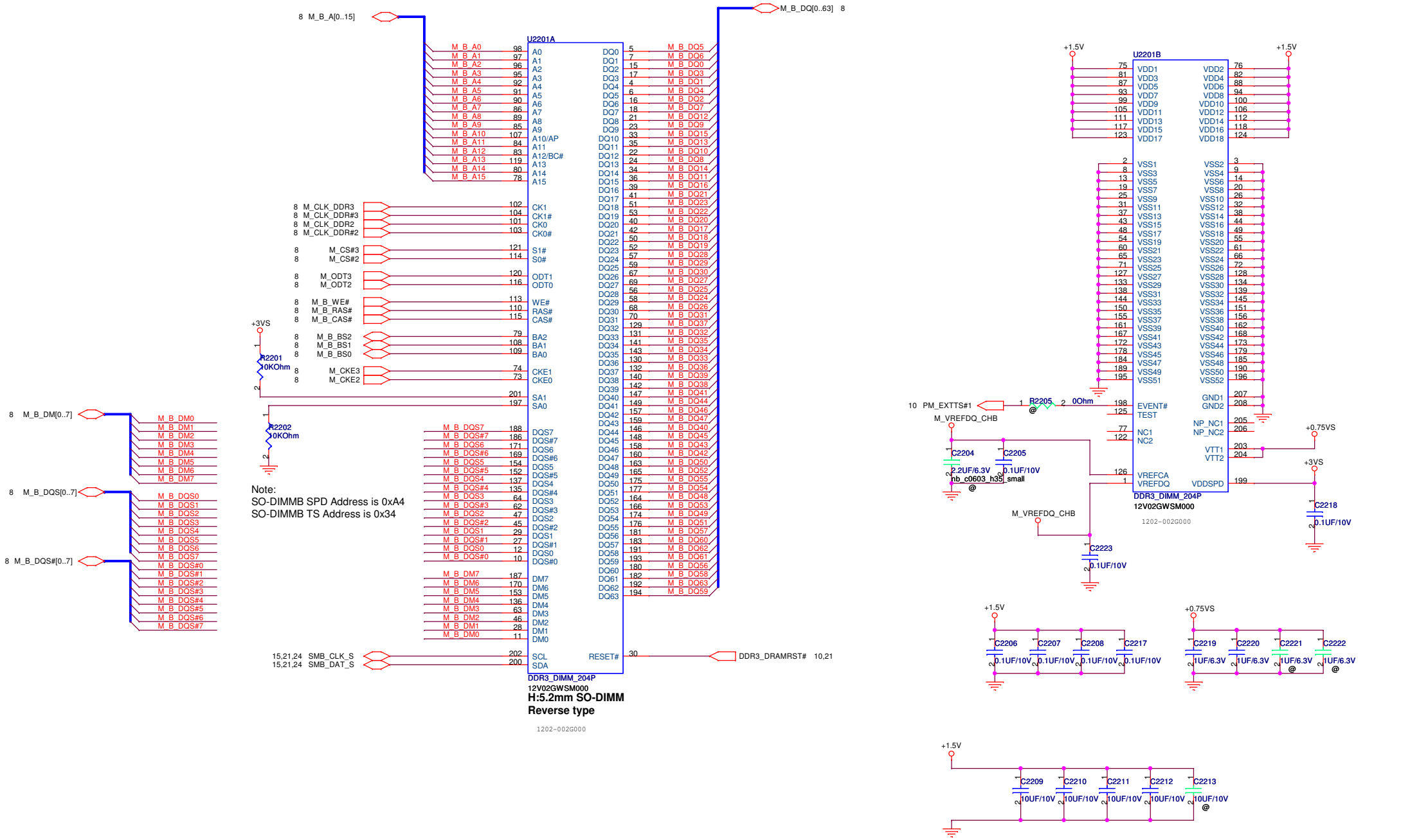

PEGATRON	Title : DDR3 SO-DIMM-Channel B	
BU1-RD Div.1-HW RD Dept.1	Engineer: Elmer Chiu	
Size: Custom	Project Name: BIC50	Rev: 2.0
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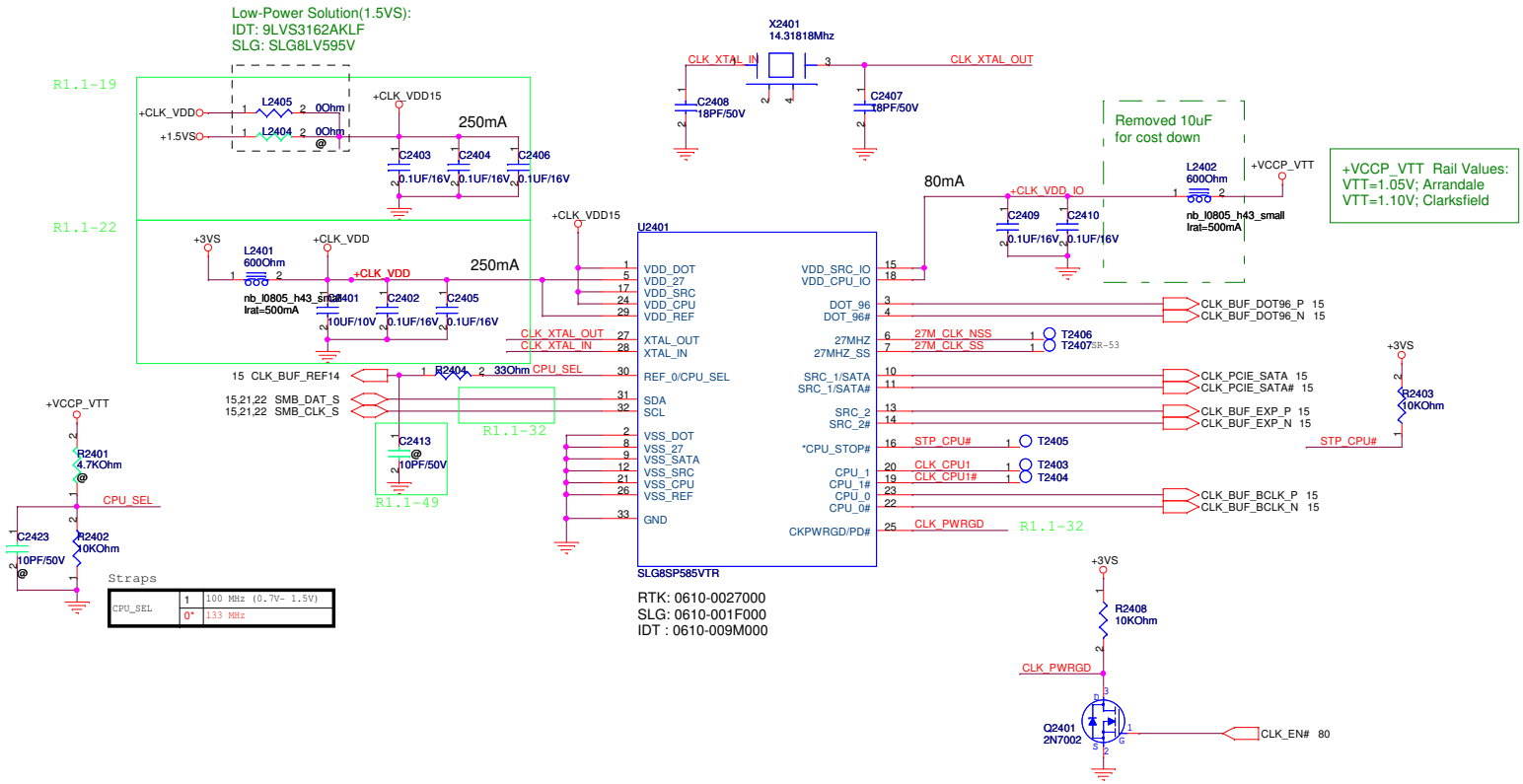
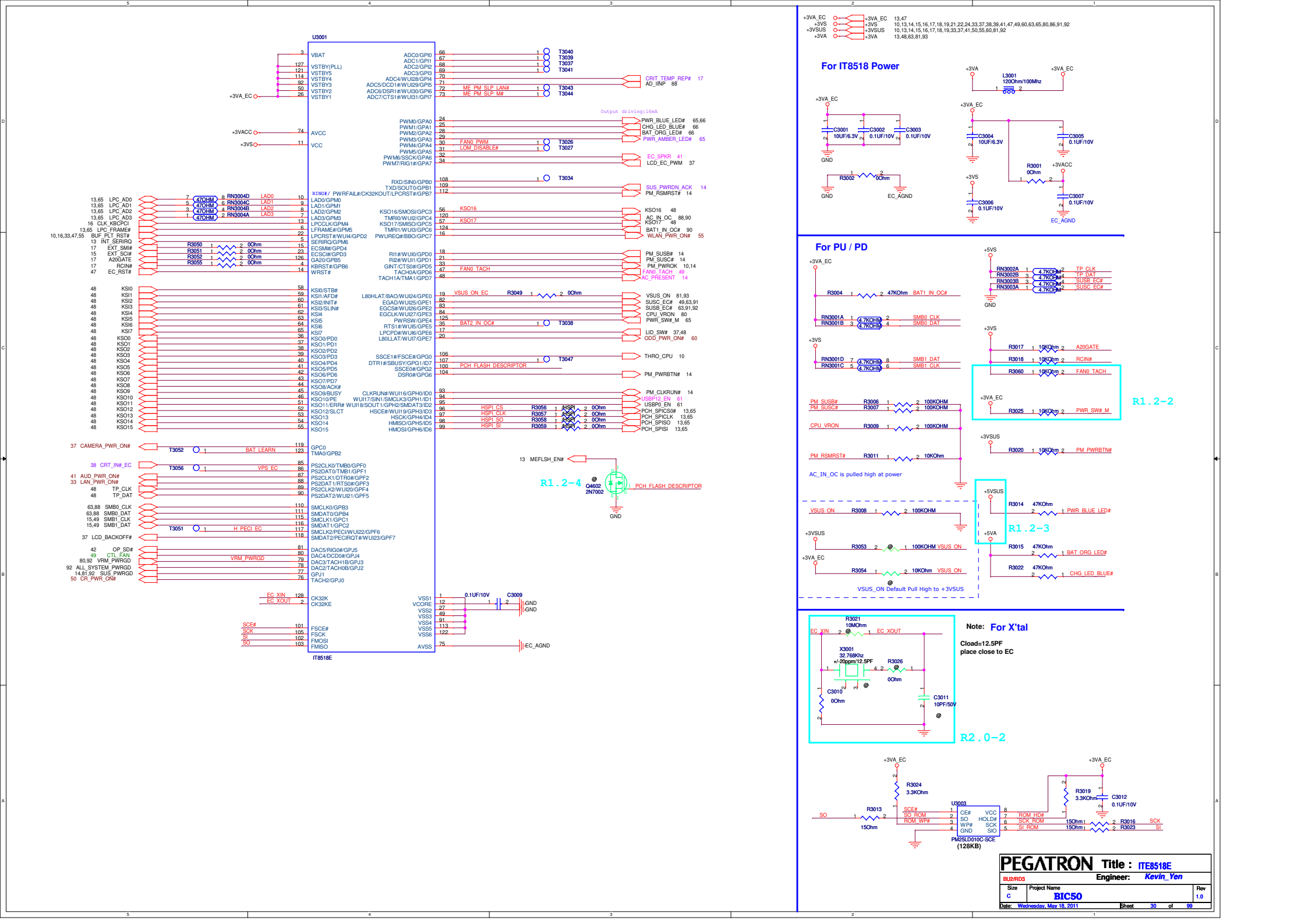
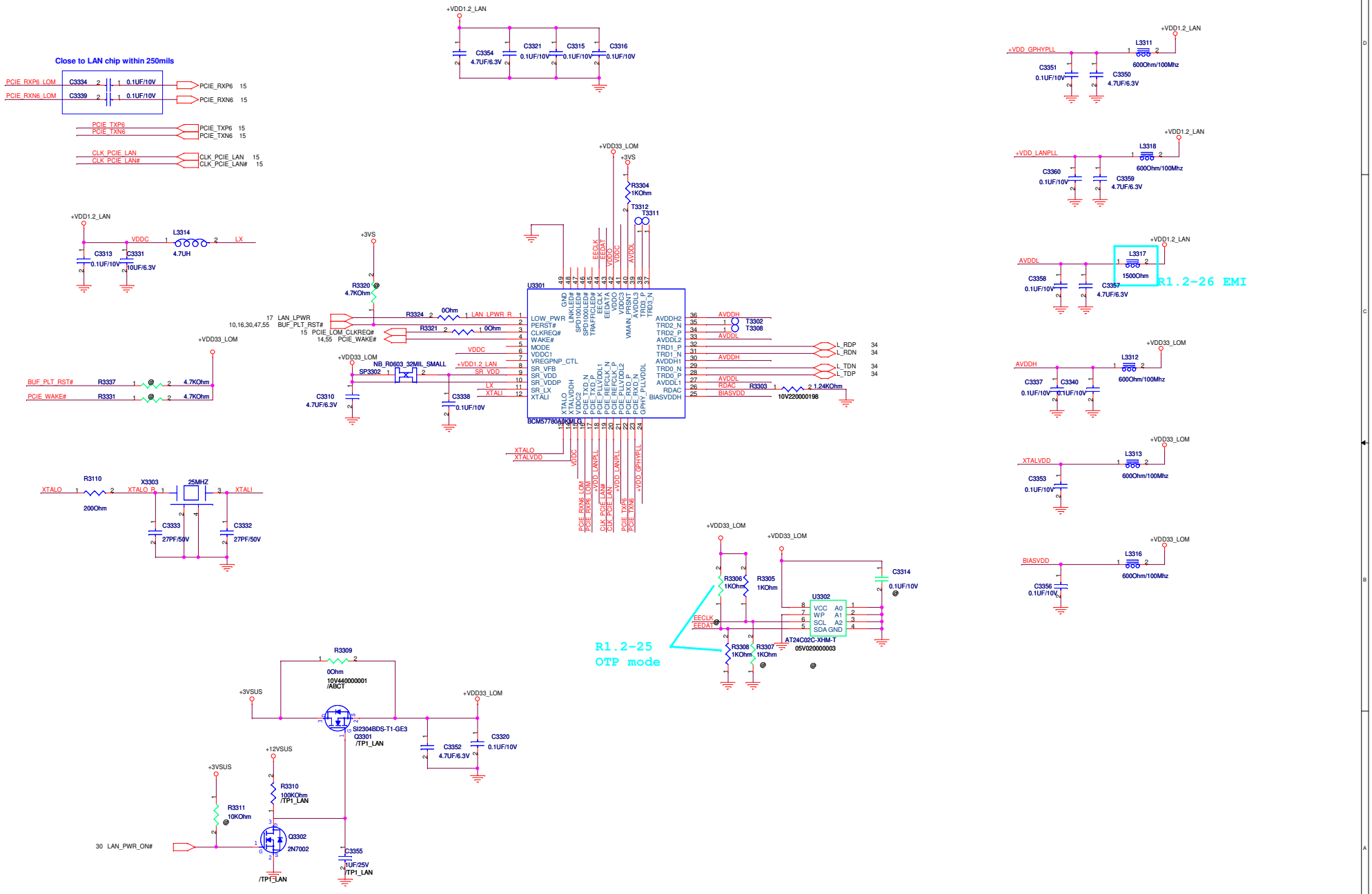


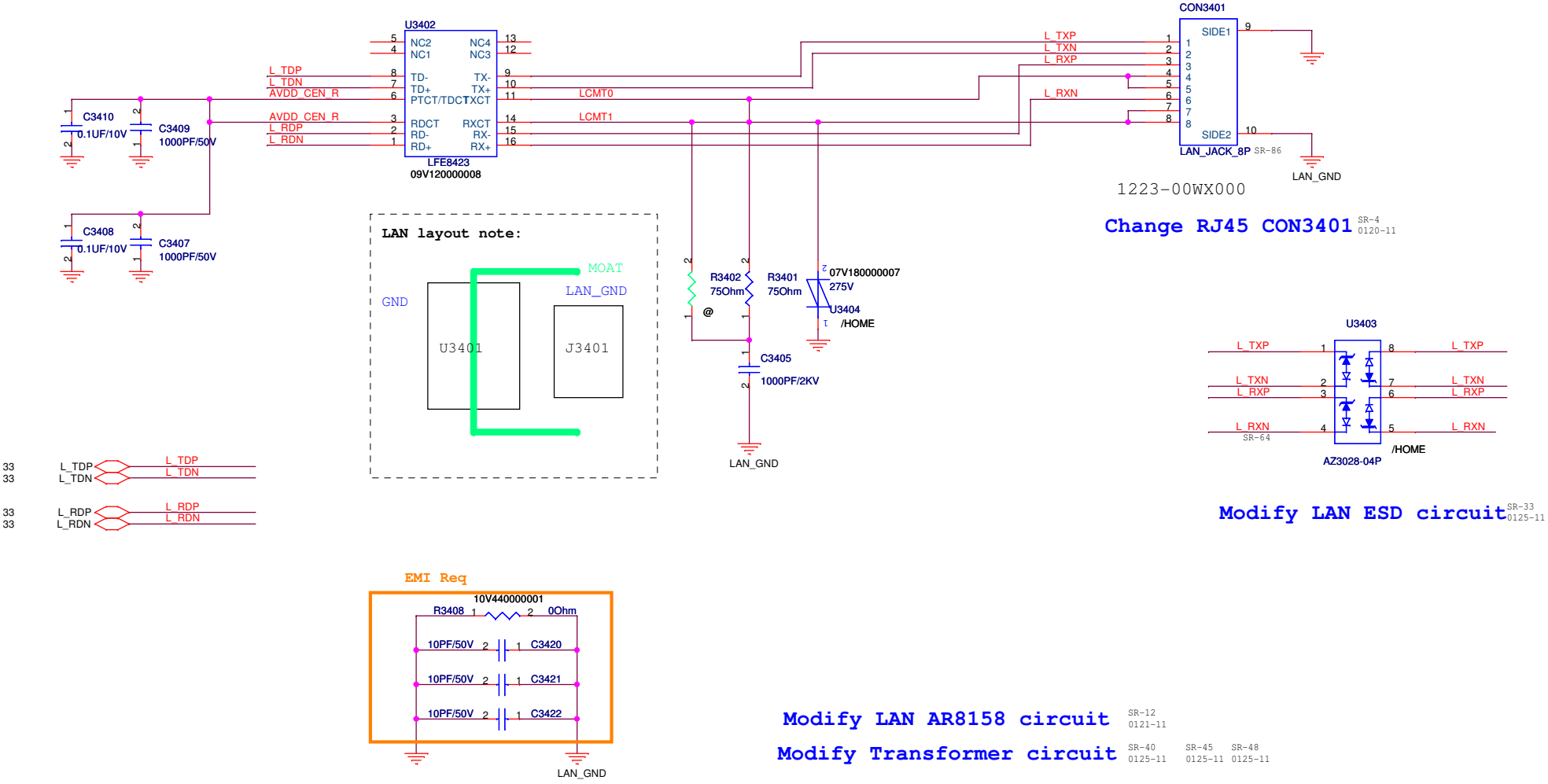
PEGATRON	Title : CLK GEN. SLG8SP585V		
BU1-RD Div.1-HW RD Dept.1	Engineer: Elmer Chiu		
Size: Custom	Project Name: BIC50		Rev: 2.0
Date: Tuesday, May 03, 2011	Sheet 24 of 77		


U3001
IT8518E
For IT8518 Power
For PU / PD
AC_IN_OC is pulled high at power
VSUS_ON Default Pull High to +3VSUS
R1.2-4
R1.2-2
R1.2-3
R2.0-2
Note: For X'tal
Cload=12.5PF
place close to EC
PM25LD010C-SCE
(128KB)
PEGATRON Title : ITE8518E
Engineer: Kevin_Yen
BIC50
Date: Wednesday, May 18, 2011
Sheet 30 of 99



PEGATRON	Title : LAN_BCM57780		
BG1-HW RD Div.2-NB RD Dept.5	Engineer: Elmer Chiu		
Size: C	Project Name: BIC50	Rev: 1.0	
Date: Tuesday, May 03, 2011	Sheet 33 of 77		

RJ45



Change RJ45 CON3401 SR-4 0120-11

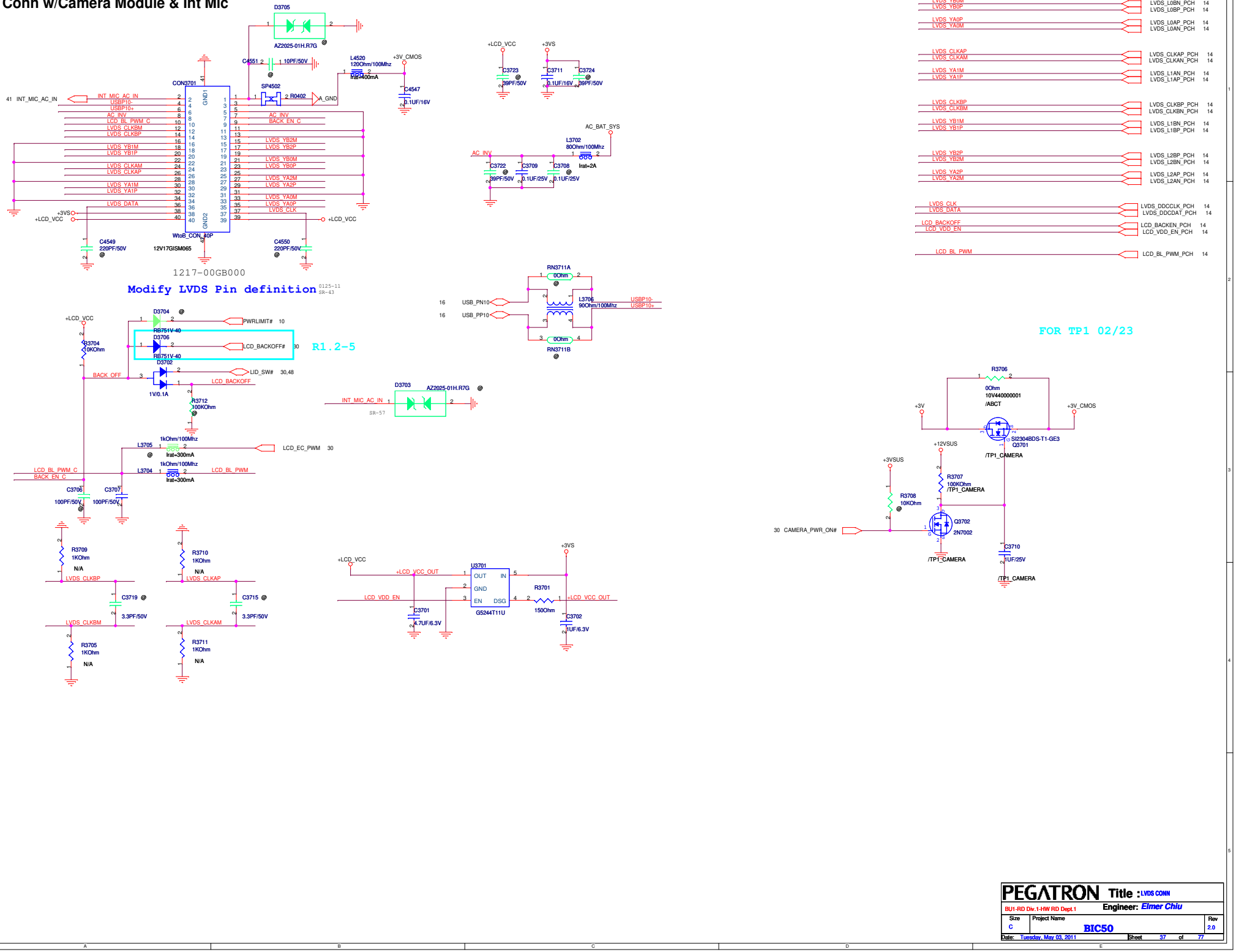
Modify LAN ESD circuit SR-33 0125-11

Modify LAN AR8158 circuit SR-12 0121-11

Modify Transformer circuit SR-40 0125-11 SR-45 0125-11 SR-48 0125-11

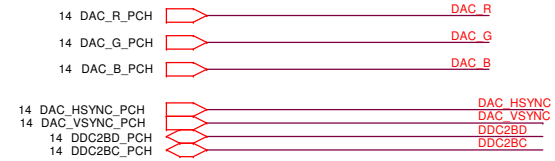
PEGATRON	Title : RJ45	
BG1-HW RD Div.2-NB RD Dept.5	Engineer: Elmer Chiu	
Size: B	Project Name: BIC50	Rev: 1.0
Date: Tuesday, May 03, 2011	Sheet 34 of 77	

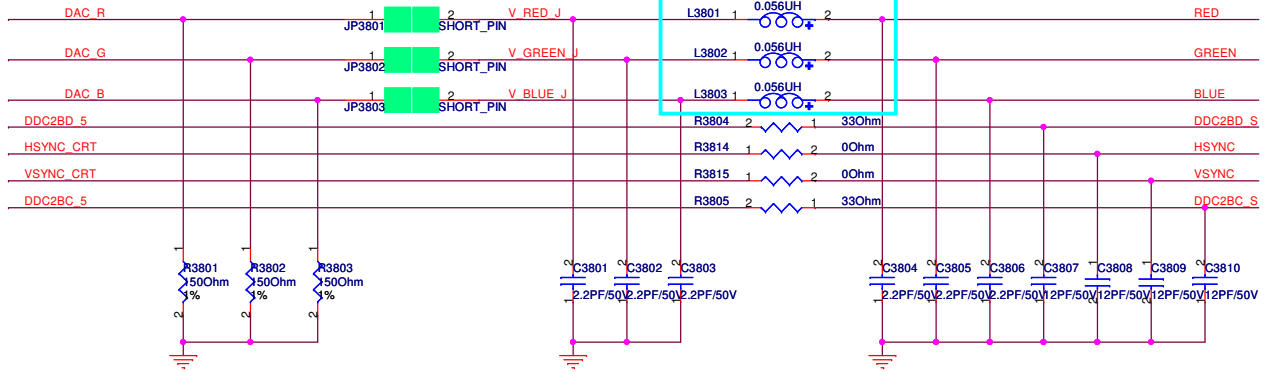
LVDS Conn w/Camera Module & Int Mic

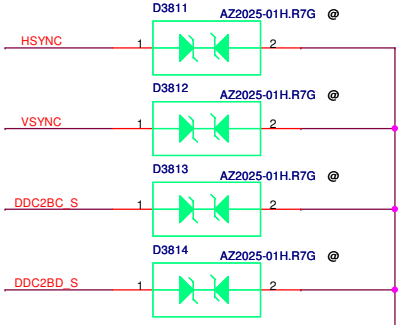


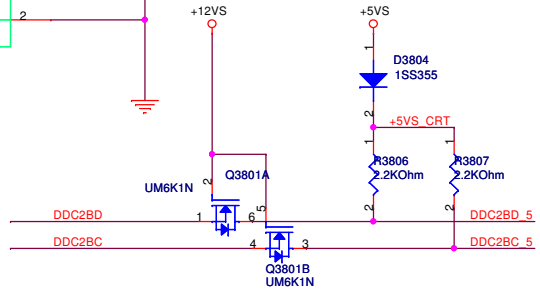
PEGATRON	Title : LVDS CONN		
BU1-RD Div.1-HW RD Dept.1	Engineer: Elmer Chiu		
Size: C	Project Name: BIC50		Rev: 2.0
Date: Tuesday, May 03, 2011	Sheet 37 of 77		

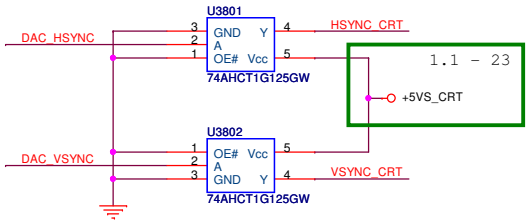
R1.2-27 For EMI & EA test

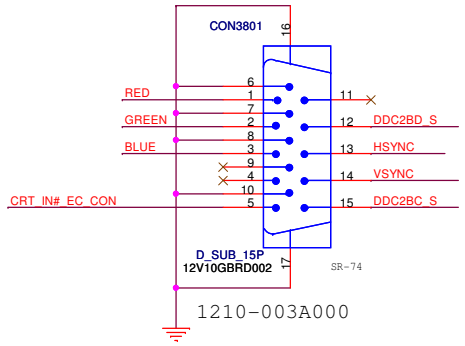




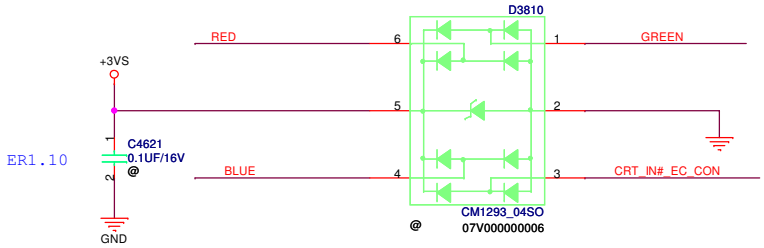


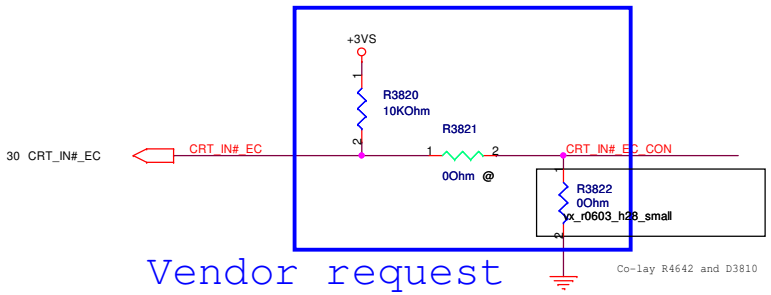






Del F3801, C3811 ADD CRT IN SR-36 0125-11





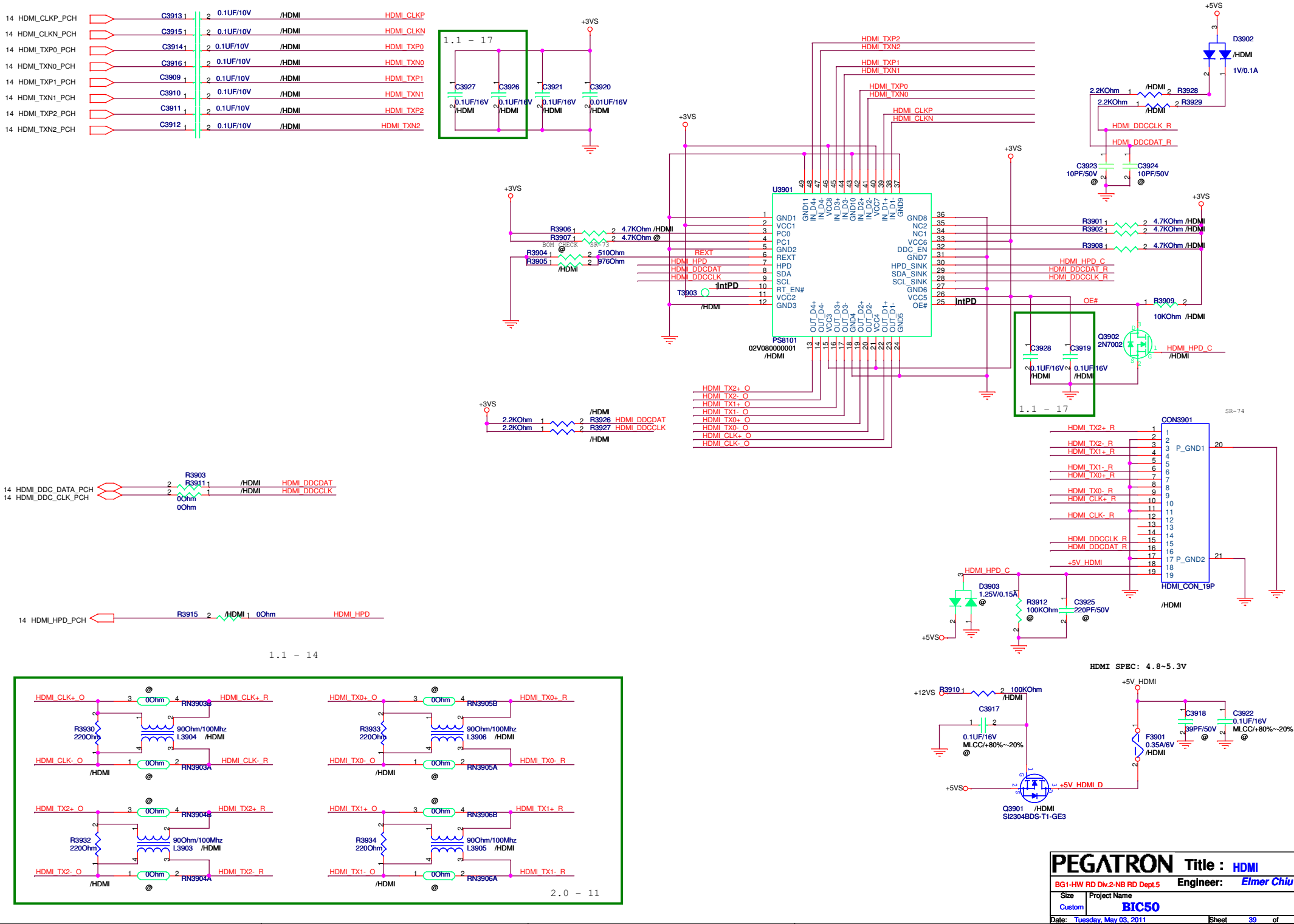
Vendor request

PEGATRON Title : CRT

BU1-RD Div.1-HW RD Dept.1 Engineer: Elmer Chiu

Size	Project Name	Rev
Custom	BIC50	2.0

Date: Wednesday, May 04, 2011 Sheet 38 of 77



PEGATRON	Title : HDMI		
BG1-HW RD Div.2-NB RD Dept.5	Engineer: Elmer Chiu		
Size: Custom	Project Name: BIC50		Rev: 2.0
Date: Tuesday, May 03, 2011	Sheet 39 of 77		

PEGATRON

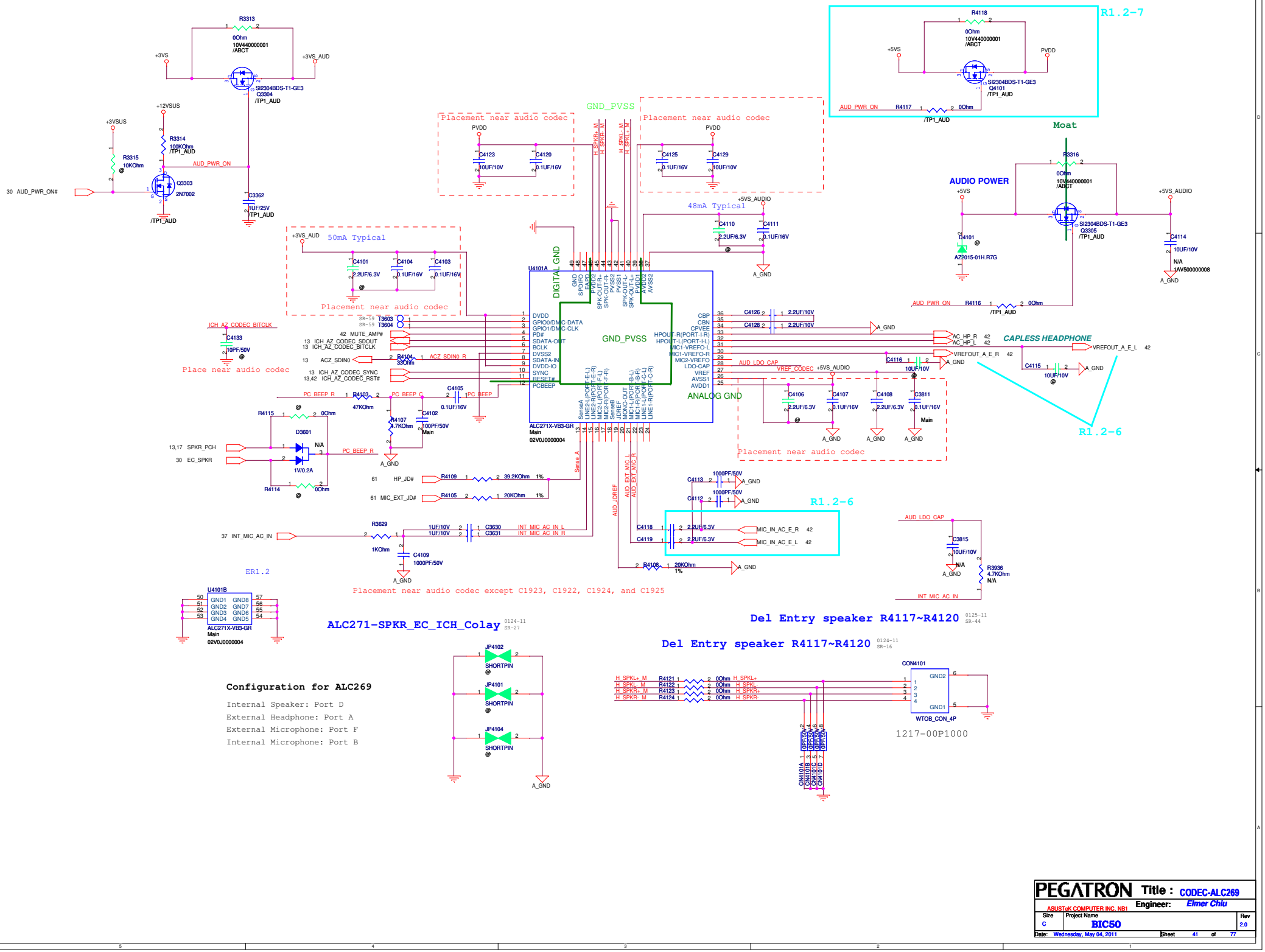
Title : Display Port

BU1-RD Div.1-HW RD Dept.1

Engineer: Elmer Chiu

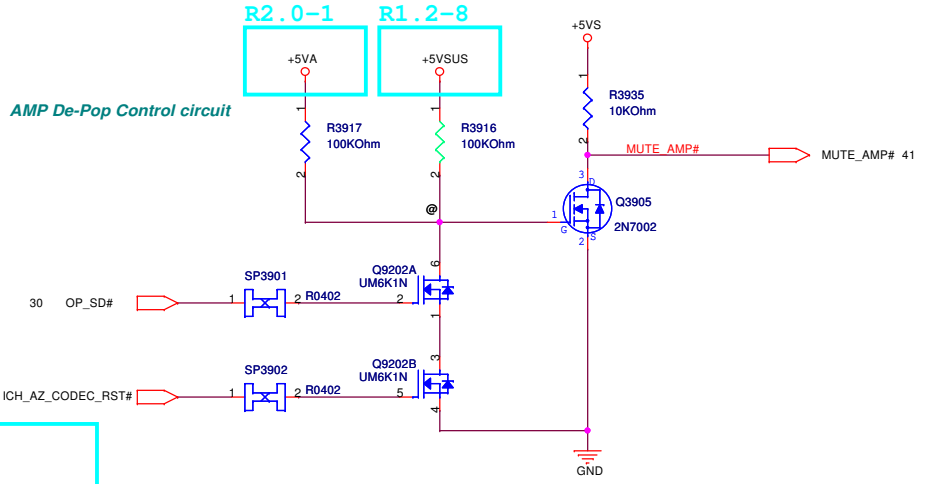
Size	Project Name	Rev
Custom	BIC50	2.0

Date: Tuesday, May 03, 2011 Sheet 40 of 77

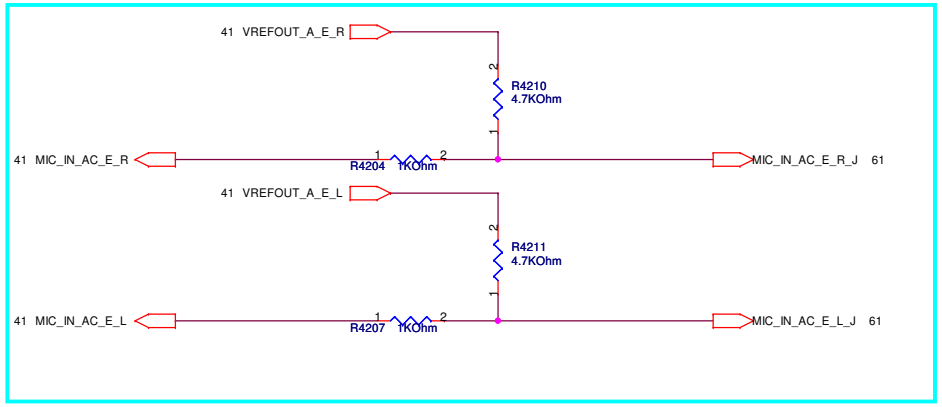

R1.2-7
R1.2-6
R1.2-6
Moat
AUDIO POWER
CAPLESS HEADPHONE
Placement near audio codec
Placement near audio codec except C1923, C1922, C1924, and C1925
GND_PVSS
DIGITAL GND
ANALOG GND
48mA Typical
50mA Typical
ALC271-SPKR_EC_ICH_Colay
Del Entry speaker R4117~R4120
Del Entry speaker R4117~R4120
Configuration for ALC269
Internal Speaker: Port D
External Headphone: Port A
External Microphone: Port F
Internal Microphone: Port B
1217-00P1000
PEGATRON
Title : CODEC-ALC269
Engineer: Elmer Chiu
ASUSTeK COMPUTER INC. NB1
Size C
Project Name BIC50
Rev 2.0
Date: Wednesday, May 04, 2011
Sheet 41 of 77

R2.0-1 R1.2-8

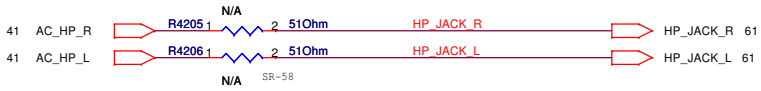
AMP De-Pop Control circuit



Modify De-Pop circuit SR-43 0125-11



R1.2-6
Change to stereo MIC



PEGATRON Title : AUDIO ALC269

BU1-RD Div.1-HW RD Dept.1 Engineer: *Elmer Chiu*

Size	Project Name	Rev
Custom	BIC50	2.0

Date: Tuesday, May 03, 2011 Sheet 42 of 77

PEGATRON

Title : MDC CONN

BG1-HW RD Div.2-NB RD Dept.5

Engineer: *Elmer Chiu*

Size	Project Name	Rev
C	BIC50	2.0

Date: Tuesday, May 03, 2011 Sheet 43 of 77

Del Entry audio circuit

SR-8
0121-11

PEGATRON Title : CODEC-ALC269

ASUSTeK COMPUTER INC. NB1 Engineer: Elmer Chiu

Size	Project Name	Rev
Custom	BIC50	2.0

Date: Tuesday, May 03, 2011 Sheet 44 of 77

Del Entry audio circuit

SR-8
0121-11

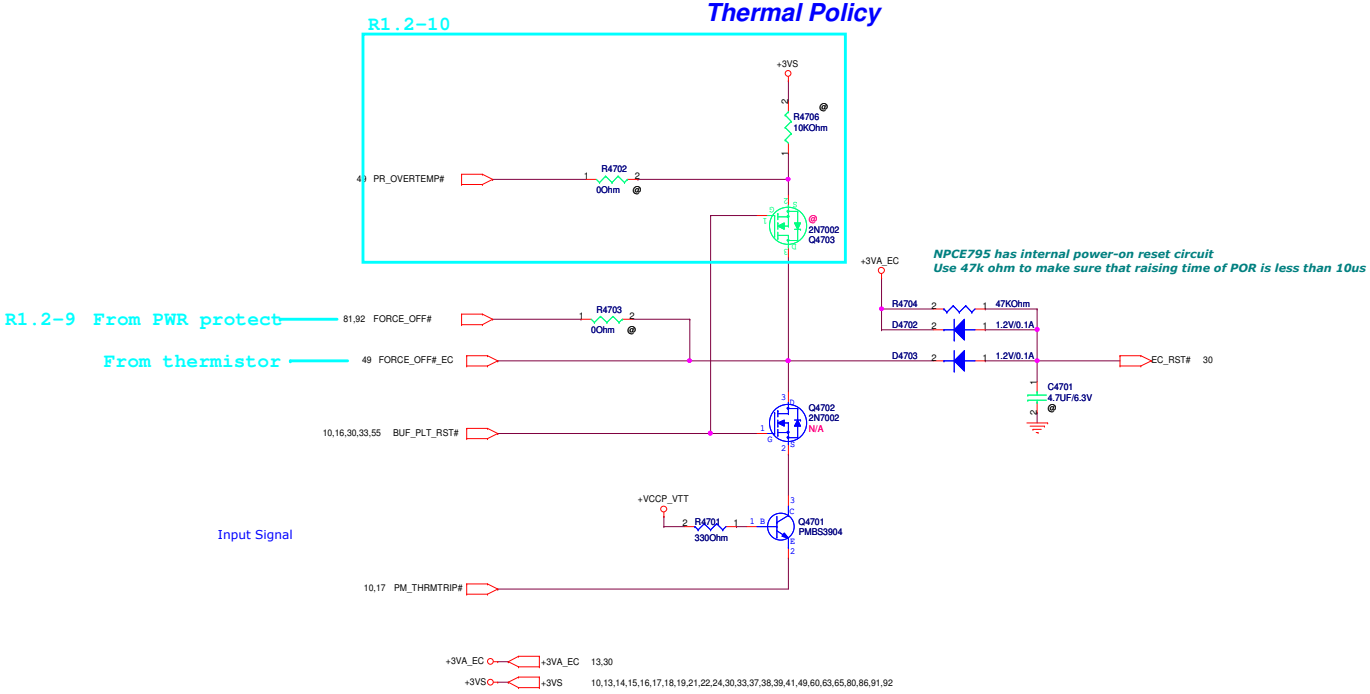
PEGATRON Title : AUDIO ALC269

BU1-RD Div.1-HW RD Dept.1 Engineer: Elmer Chiu

Size	Project Name	Rev
Custom	BIC50	2.0

Date: Tuesday, May 03, 2011 Sheet 45 of 77

Thermal Policy



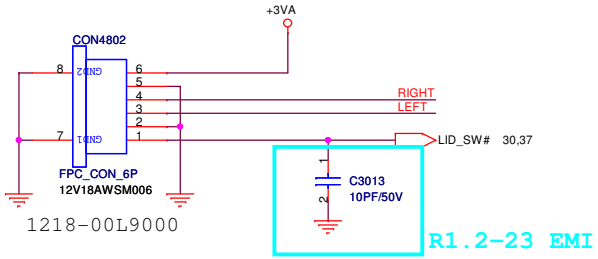
PEGATRON Title : RST_Reset Circuit

BG1-HW RD Div.2-NB RD Dept.5 Engineer: Elmer Chiu

Size	Project Name	Rev
C	BIC50	2.0

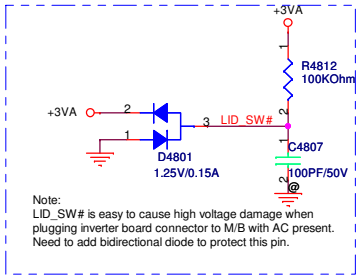
Date: Tuesday, May 03, 2011 Sheet 47 of 77

Touch Pad Button/ Hall Sensor

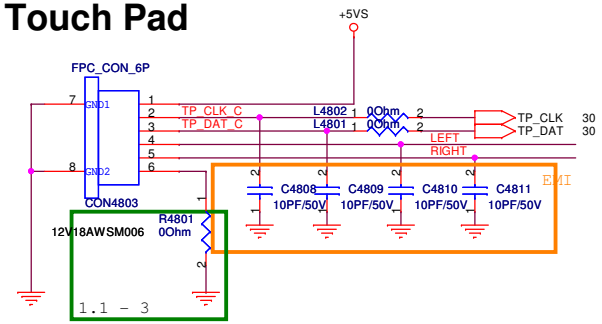


1218-00L9000

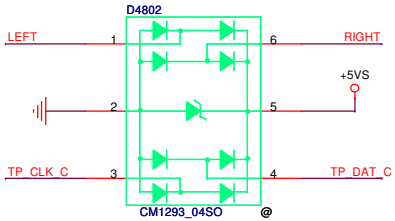
close toU4601



Touch Pad

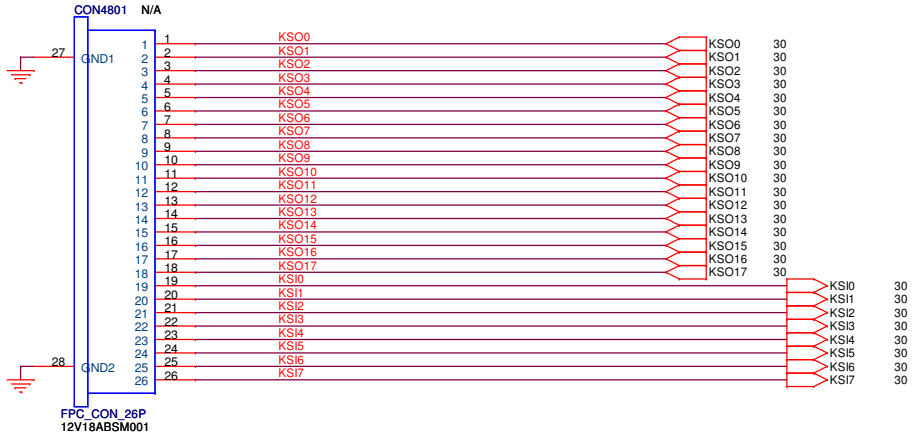


1218-00L9000

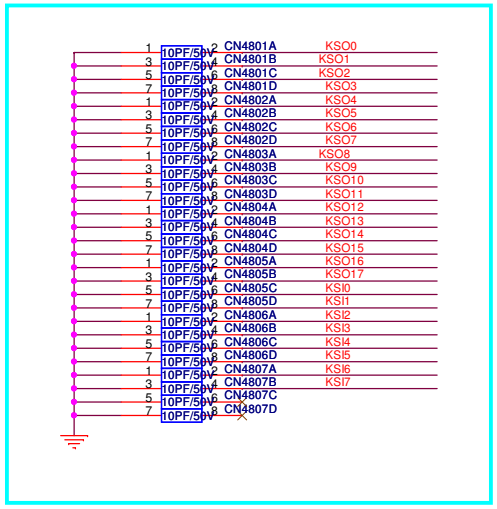


Remove TP button circuit SR-22 0124-11

Keyboard



1218-00MW000



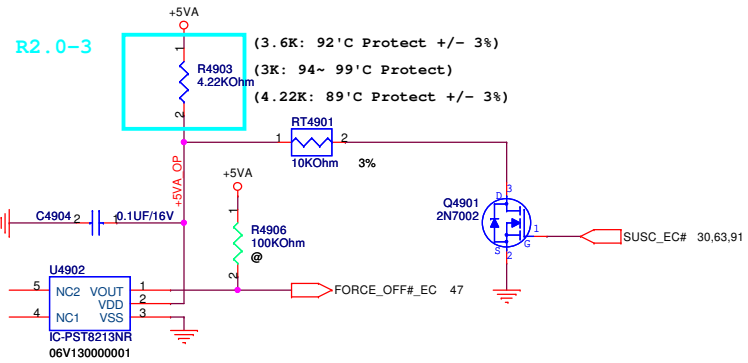
PEGATRON Title : KB/ TP/ FLASH

BU1-RD Div.1-HW RD Dept.1 Engineer: Elmer Chiu

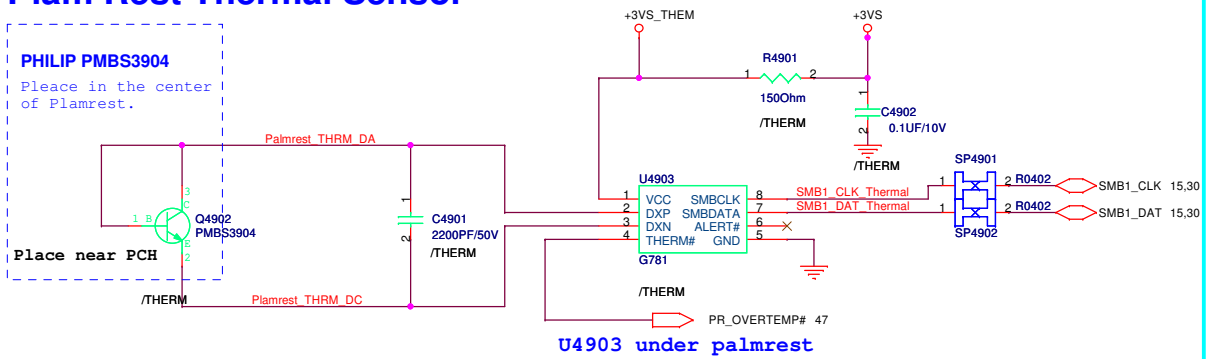
Size	Project Name	Rev
Custom	BIC50	2.0

Date: Tuesday, May 03, 2011 Sheet 48 of 77

Thermister



Plam Rest Thermal Sensor



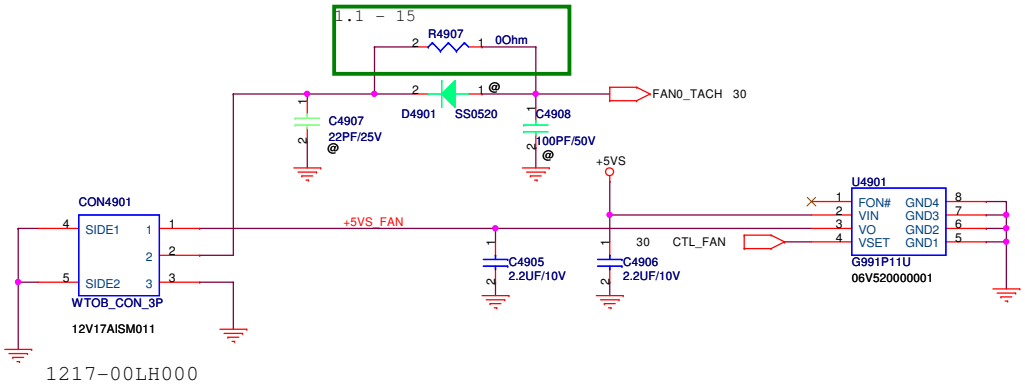
U4903 under palmrest

SMBUS addr=1001100x (98)

U4903: Remote(Local) thermal sensor,use remote mode.

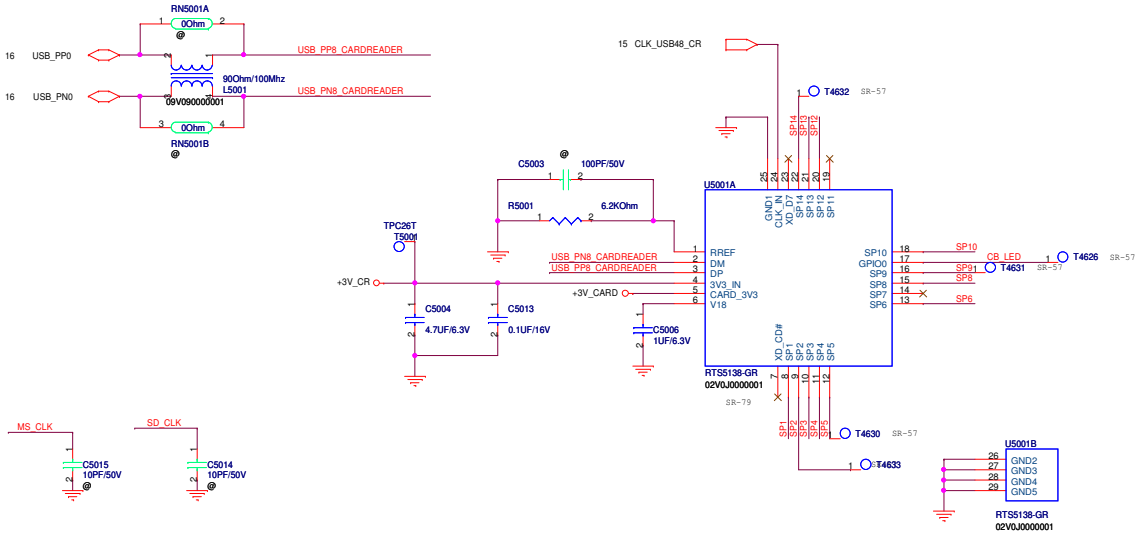
R1.2-10

FAN



1217-00LH000

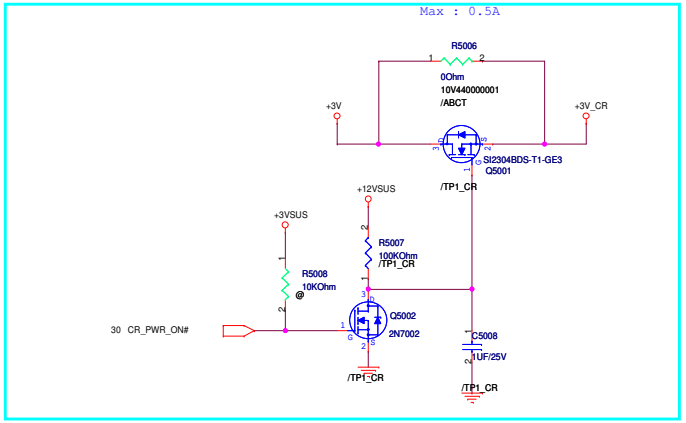
PEGATRON	Title : THERMAL/ FAN	
BU1-RD Div.1-HW RD Dept.1	Engineer: Elmer Chiu	
Size: Custom	Project Name: BIC50	Rev: 2.0
Date: Wednesday, May 18, 2011	Sheet 49 of 77	

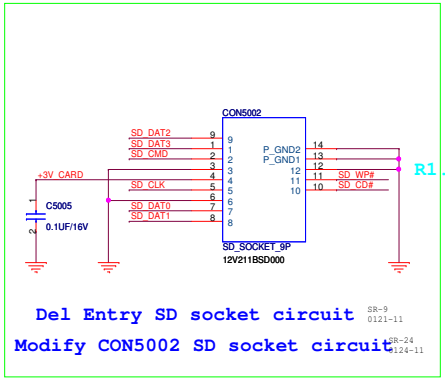


Pin Name	Description
SP1	SDWP# / MSCLK
SP2	MS_INS#
SP3	SD_DAT1
SP4	SD_DAT0
SP5	MS_D3
SP6	SD_CD#
SP8	SD_CLK / MS_D2
SP9	MS_D0
SP10	SD_CMD
SP12	SD_DAT3 / MS_D1
SP13	SD_DAT2
SP14	MS_BS

SP1	SD_WP#	MS_CLK
SP2		MS_INS#
SP3	SD_DAT1	
SP4	SD_DAT0	
SP5		MS_D3
SP6	SD_CD#	
SP8	SD_CLK	MS_D2
SP9		MS_D0
SP10	SD_CMD	
SP12	SD_DAT3	MS_D1
SP13	SD_DAT2	
SP14		MS_BS

FOR TP1 02/23





R1.2-11

Del Entry SD socket circuit SR-9 0121-11

Modify CON5002 SD socket circuit SR-24 0124-11

PEGATRON Title : Realtek_RTS5138

BG1-HW RD Div.2-NB RD Dept.5 Engineer: Elmer Chiu

Size	Project Name	Rev
C	BIC50	2.0

Date: Tuesday, May 03, 2011 Sheet 50 of 77

PEGATRON Title : USB3.0 uPD720200

BG1\HW1 Engineer: Elmer Chiu

Size	Project Name	Rev
C	BIC50	2.0

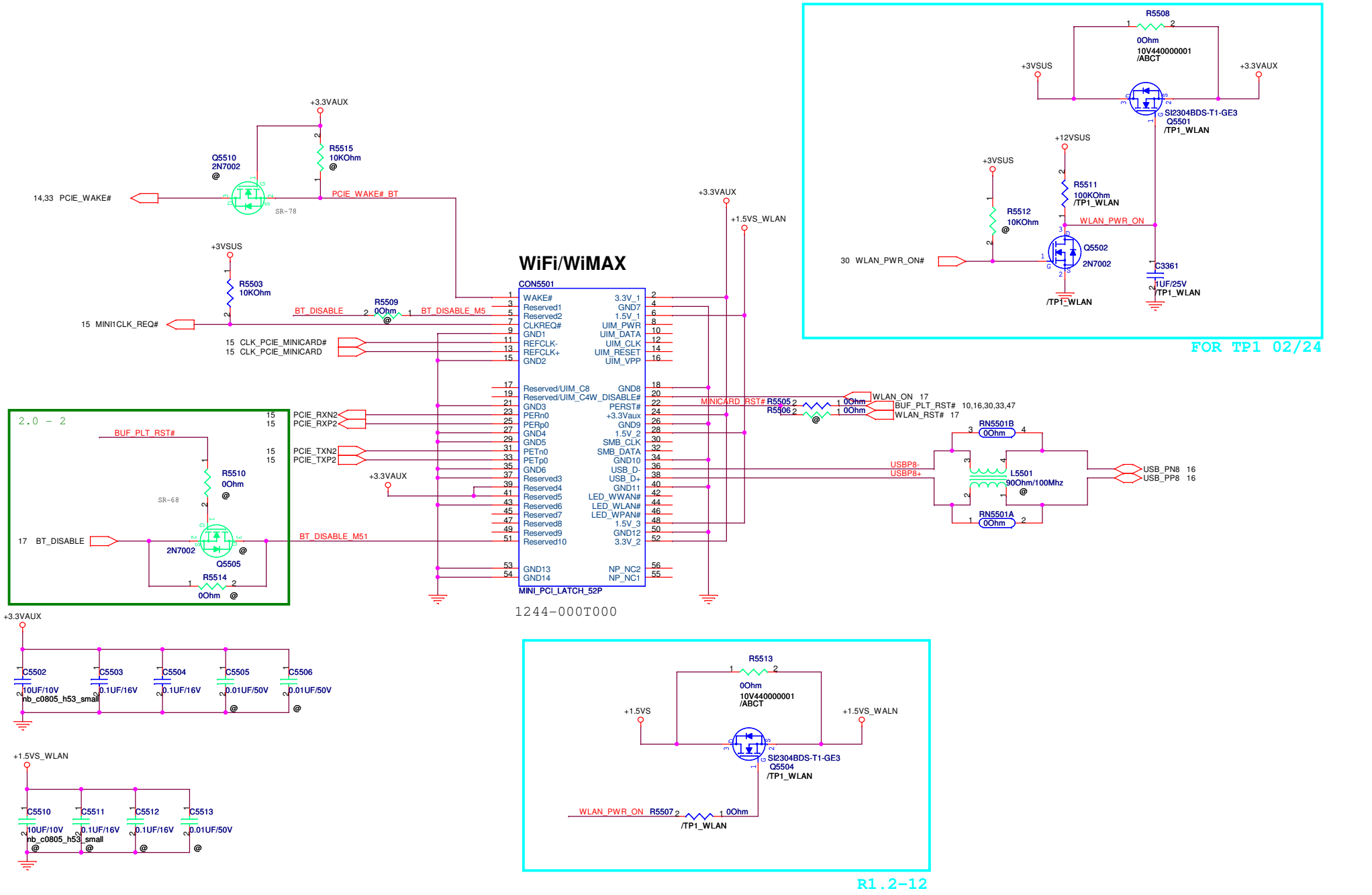
Date: Tuesday, May 03, 2011 Sheet 53 of 77

PEGATRON Title : PCIE NEW CARD

BU1-RD Div.1-HW RD Dept.1 Engineer: Elmer Chiu

Size	Project Name	Rev
Custom	BIC50	2.0

Date: Tuesday, May 03, 2011 Sheet 54 of 77



PEGATRON Title : WiFi/WiMAX

BU1-RD Div.1-HW RD Dept.1 Engineer:

Size	Project Name	Rev
Custom	BIC50	2.0

Date: Tuesday, May 03, 2011 Sheet 55 of 77

PEGATRON

Title : MINICARD (WWAN)

BU1-RD Div.1-HW RD Dept.1

Engineer:

Size	Project Name	Rev
Custom		2.0

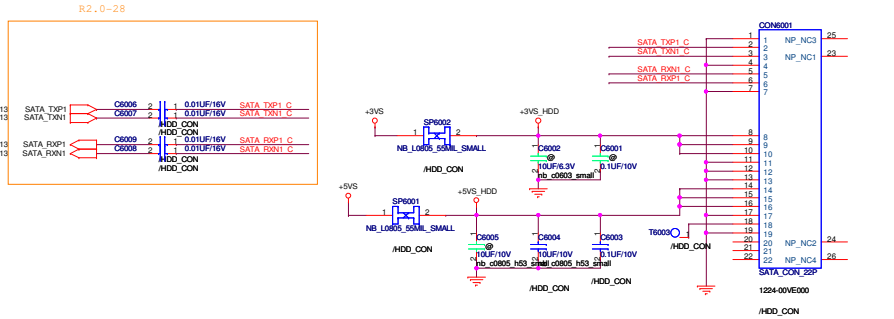
Date: Tuesday, May 03, 2011 Sheet 56 of 77

PEGATRON Title : MINICARD (WUSB /UPCONVERT)

BU1-RD Div.1-HW RD Dept.1 Engineer: Elmer Chiu

Size	Project Name	Rev
Custom	BIC50	2.0

Date: Tuesday, May 03, 2011 Sheet 57 of 77

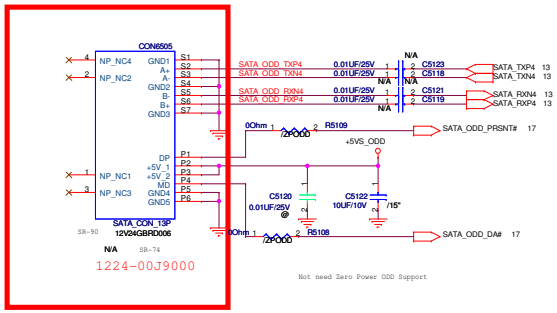


Change HDD CON6001 02/17

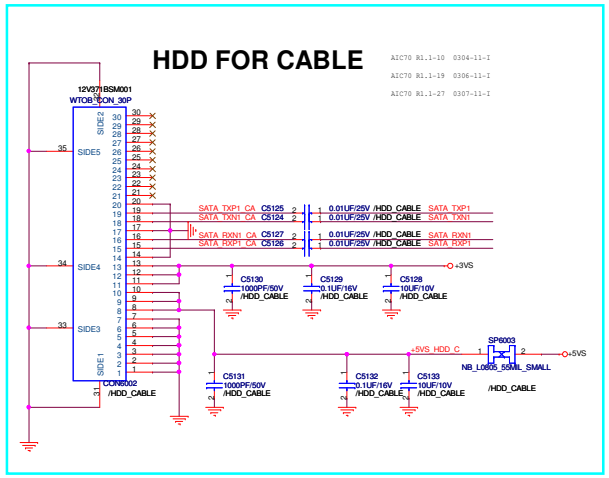
HDD

SSD

ODD



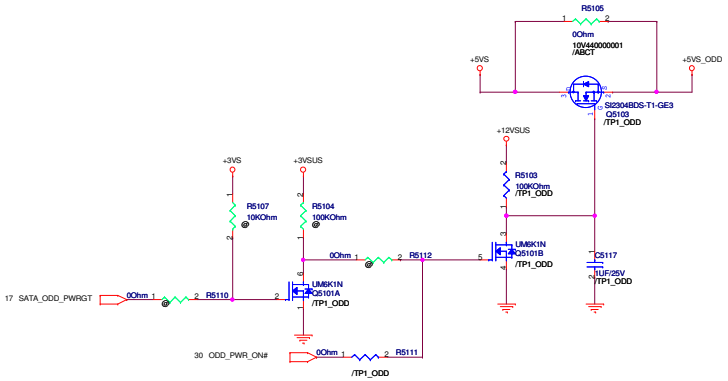
HDD FOR CABLE



R1.2-13

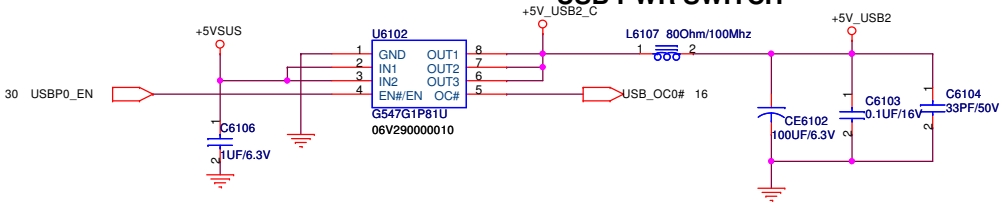
ZERO POWER ODD SUPPORT

support Hokey turn off ODD power



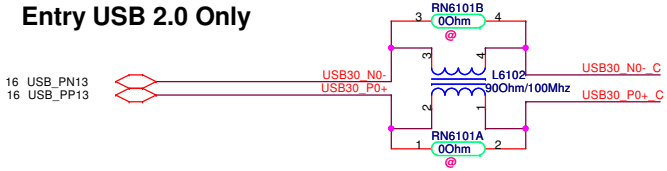
PEGATRON	Title : SATA HDD/ ODD		
BU1-RD Div.1-HW RD Dept.1	Engineer: Elmer Chiu		
Size	Project Name		Rev
Custom	BIC50		2.0
Date: Tuesday, May 03, 2011	Sheet 60 of 77		

USB PWR SWITCH



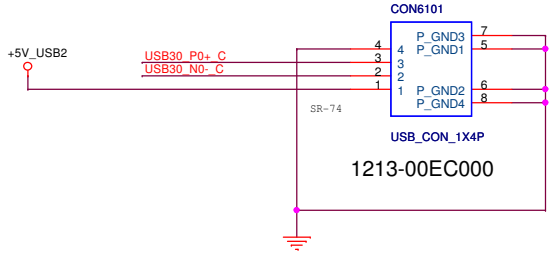
change USB power switch circuit SR-1 0120-11 SR-26 0124-11 SR-34 0125-11

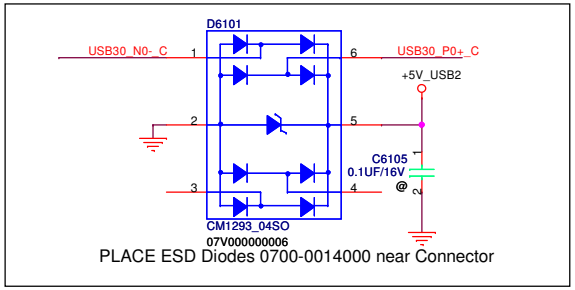
Entry USB 2.0 Only



Modify D6101, RN6101, RN6105, RN6106 SR-30 0125-11

USB 2.0

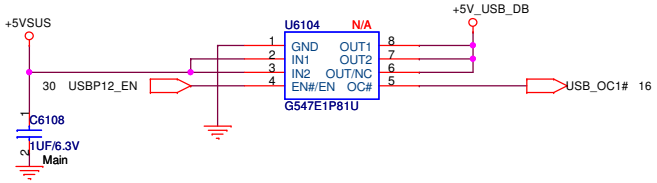




USB Conn. for Entry colay HDMI USB 2.0

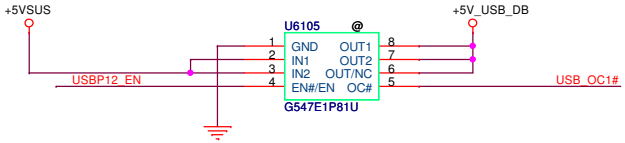
Remove USB_9 (HDMI) SR-21 0124-11

USB Power Switch for USB DB Main



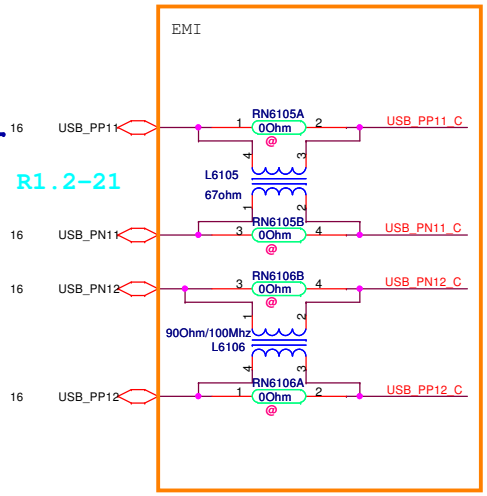
change USB power switch circuit SR-26 0124-12 SR-38 0125-13

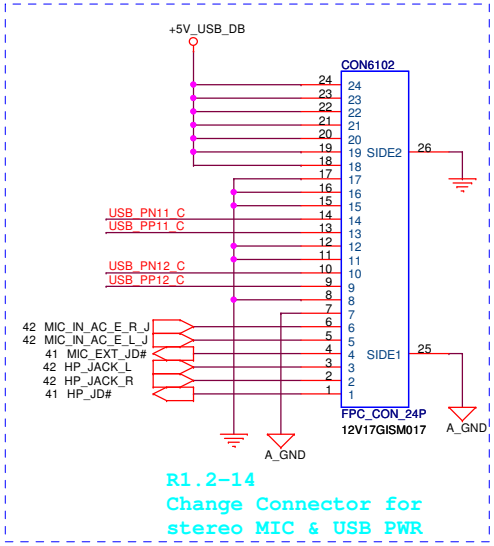
R1.2-14



Reserve U6105 for reduceing conduction loss

AUDIO BOARD/w USB2.0 x2





R1.2-14
Change Connector for stereo MIC & USB PWR

PEGATRON Title : USB PORTS/ eSATA
BU1-RD Div.1-HW RD Dept.1 Engineer: Elmer Chiu
Size: Custom Project Name: BIC50 Rev: 2.0
Date: Tuesday, May 03, 2011 Sheet 61 of 77

TouchPanel CON

Camera Module CON

B/T MODULE

FELICA MODULE

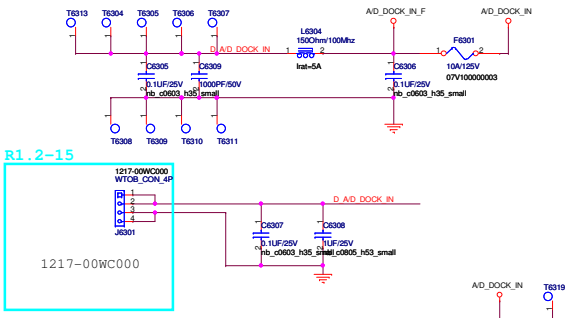
PEGATRON Title : Camera/ BT/ FL CONN

BU1-RD Div.1-HW RD Dept.1 Engineer: Elmer Chiu

Size	Project Name	Rev
Custom	BIC50	2.0

Date: Tuesday, May 03, 2011 Sheet 62 of 77

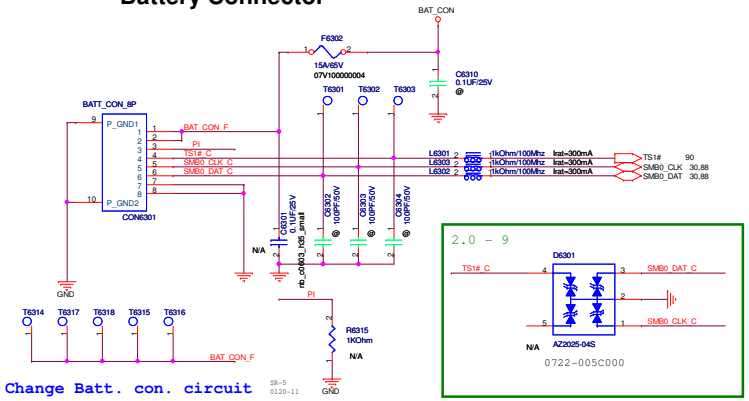
DC IN



Change DC con. as VP part
Reverse J6301

SR-13 0123-11
SR-37 0125-11
SR-51 0126-11

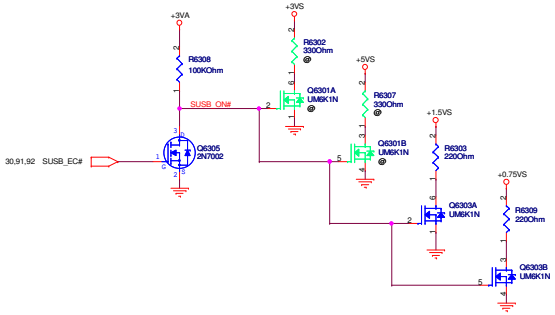
Battery Connector

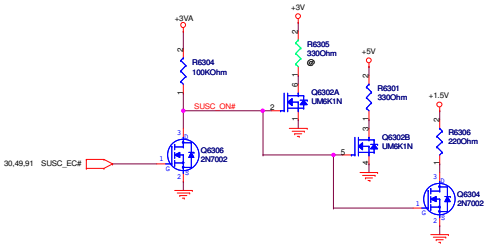


Change Batt. con. circuit

SR-5 0120-11

Discharge Circuit





PEGATRON
Title : DC-IN/ DISCHARGE
BU1-RD Div.1-HW RD Dept.1
Engineer: Elmer Chiu
Size: Custom
Project Name: BIC50
Rev: 2.0
Date: Tuesday, May 03, 2011
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Notes:
BRAIDWOOD right angled Connector (1.8V keyed)
Compatible BRAIDWOOD Modules
1.8V Mobile NVM 4GB 31.60mm x21.5mm
1.8V Mobile NVM 8GB 31.60mm x 21.5mm
1.8V Mobile NVM 16GB 31.60mm x 32.5mm

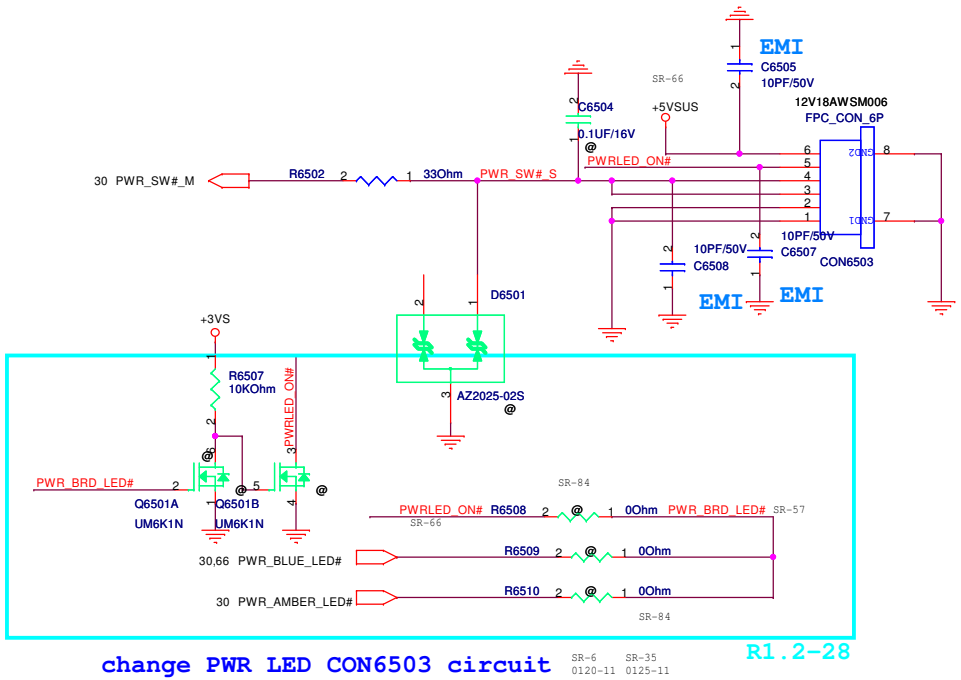
PEGATRON Title : NVM

BU1-RD Div.1-HW RD Dept.1 Engineer: Elmer Chiu

Size	Project Name	Rev
Custom	BIC50	2.0

Date: Tuesday, May 03, 2011 Sheet 64 of 77

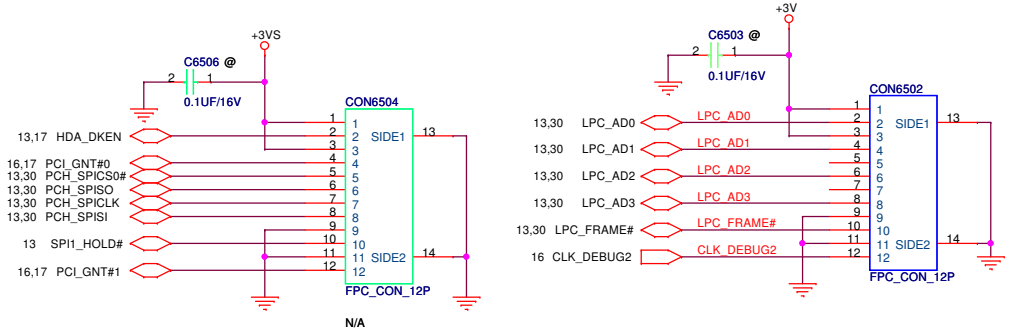
PWR BRD/ AMBIENT/ HALL CONN.



MODEM MODULE

KILL SWITCH.

DEBUG CARD CONN.



PEGATRON Title : MDC/ PWR SW/ Debug

BU1-RD Div.1-HW RD Dept.1 Engineer: Elmer Chiu

Size	Project Name	Rev
Custom	BIC50	2.0

Date: Wednesday, May 11, 2011 Sheet 65 of 77

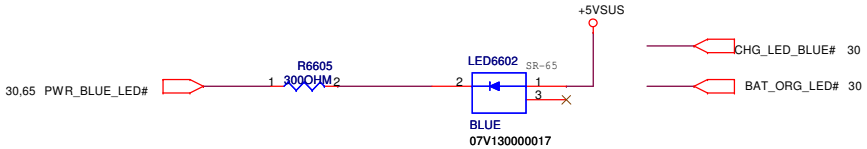
LED (Main)

Left ⟷ Right

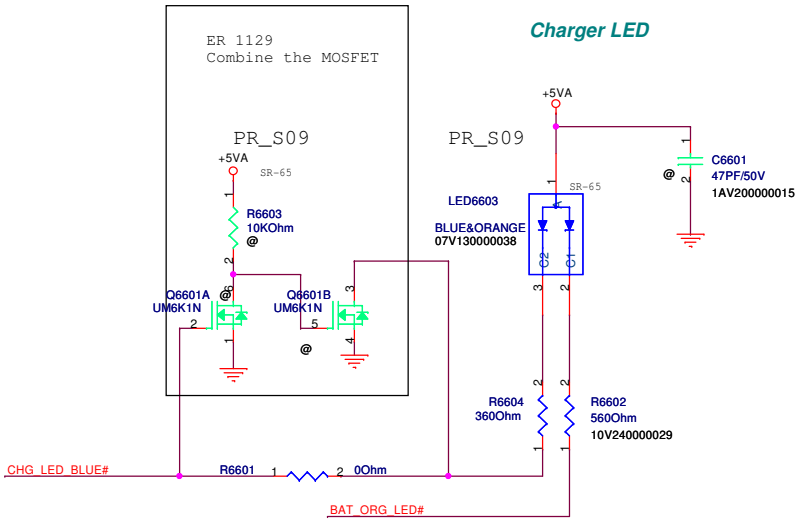
DC-IN	Power	Main Battery	HDD/ODD	Bridge Media	WiFi
White	White Amber (Blink)	White Amber (Blink)	White	White	Amber

Battery

Power LED



Charger LED



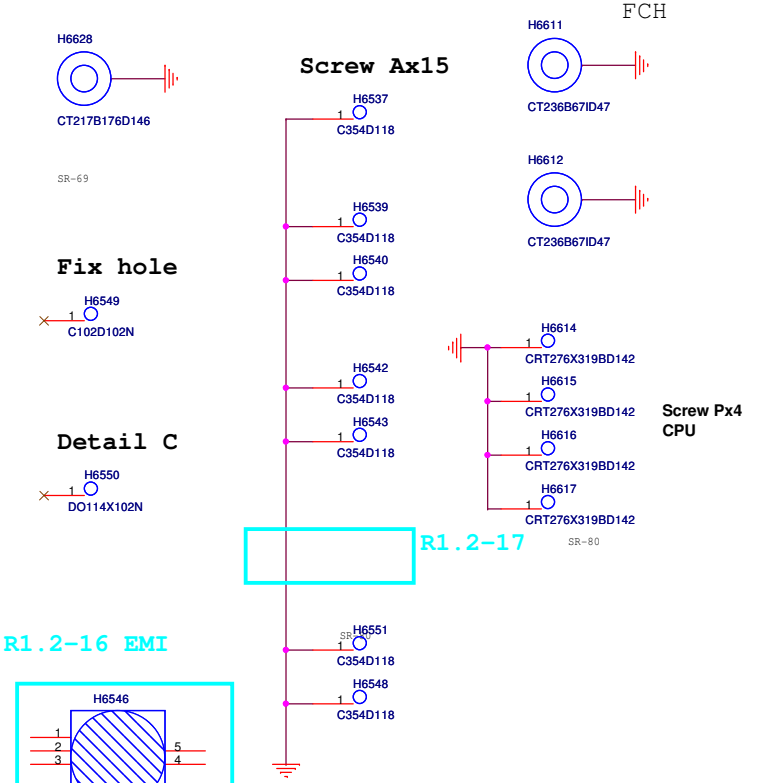
Remover LED circuit SR-18 0124-11

Modify LED circuit SR-28 0124-11 SR-39 0125-11

PCH Local Side Symbol

WLAN NUT

FCH



PEGATRON	Title : LED/ CIR/ FN/ SCREW	
BU1-RD Div.1-HW RD Dept.1	Engineer: Elmer Chiu	
Size: Custom	Project Name: BIC50	Rev: 2.0
Date: Wednesday, May 18, 2011	Sheet 66 of 77	

PEGATRON

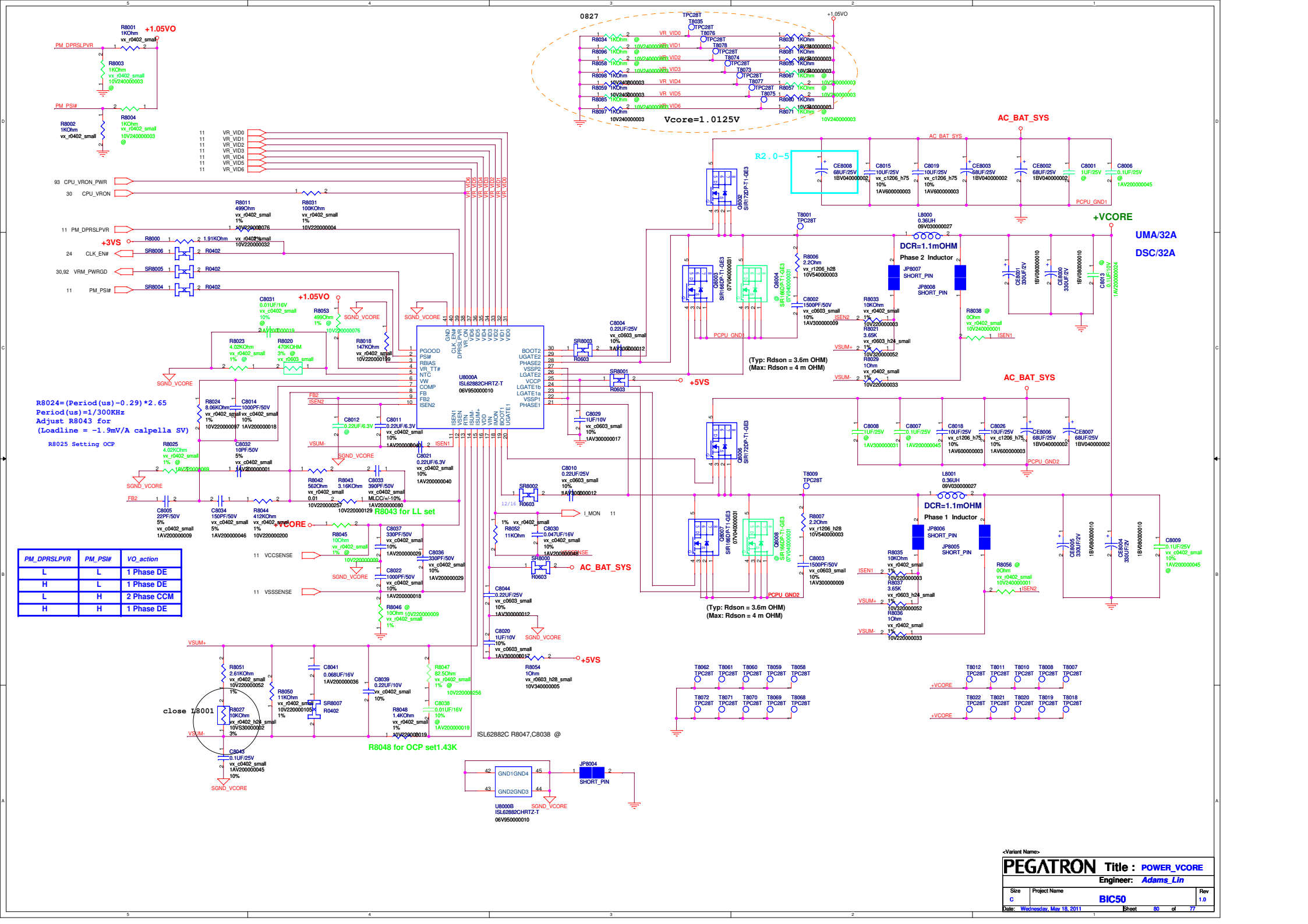
Title : G-Sensor TSH35TR

BU1-RD Div.1-HW RD Dept.1

Engineer: *Elmer Chiu*

Size	Project Name	Rev
Custom		2.0

Date: Tuesday, May 03, 2011 Sheet 69 of 77



PM_DPRSLPVR	PM_PSI#	VO_action
L	L	1 Phase DE
H	L	1 Phase DE
L	H	2 Phase CCM
H	H	1 Phase DE

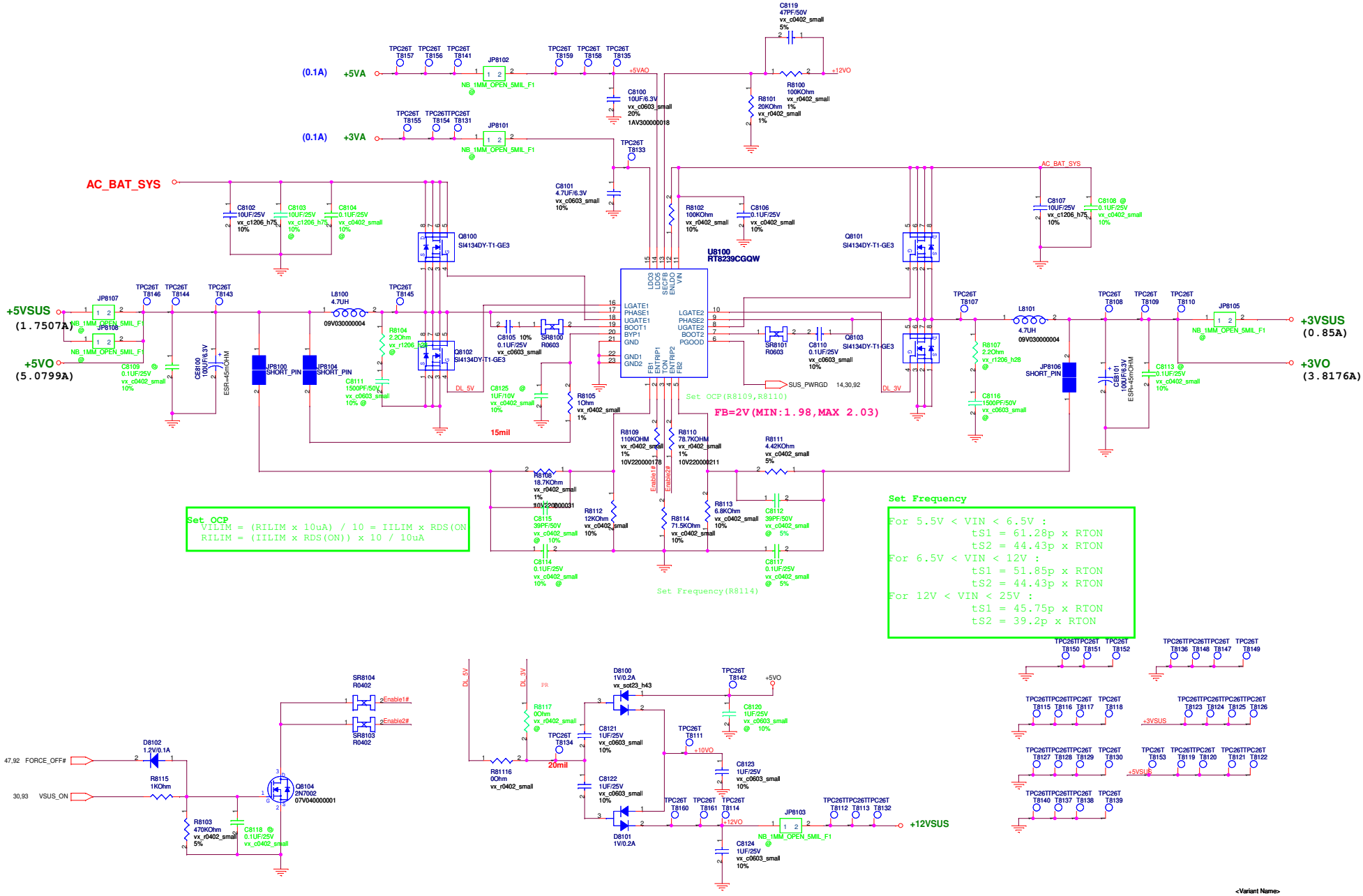
<Variant Name>

PEGATRON Title : POWER_VCORE

Engineer: Adams_Lin

Size	Project Name	Rev
C	BIC50	1.0

Date: Wednesday, May 18, 2011 Sheet 80 of 77



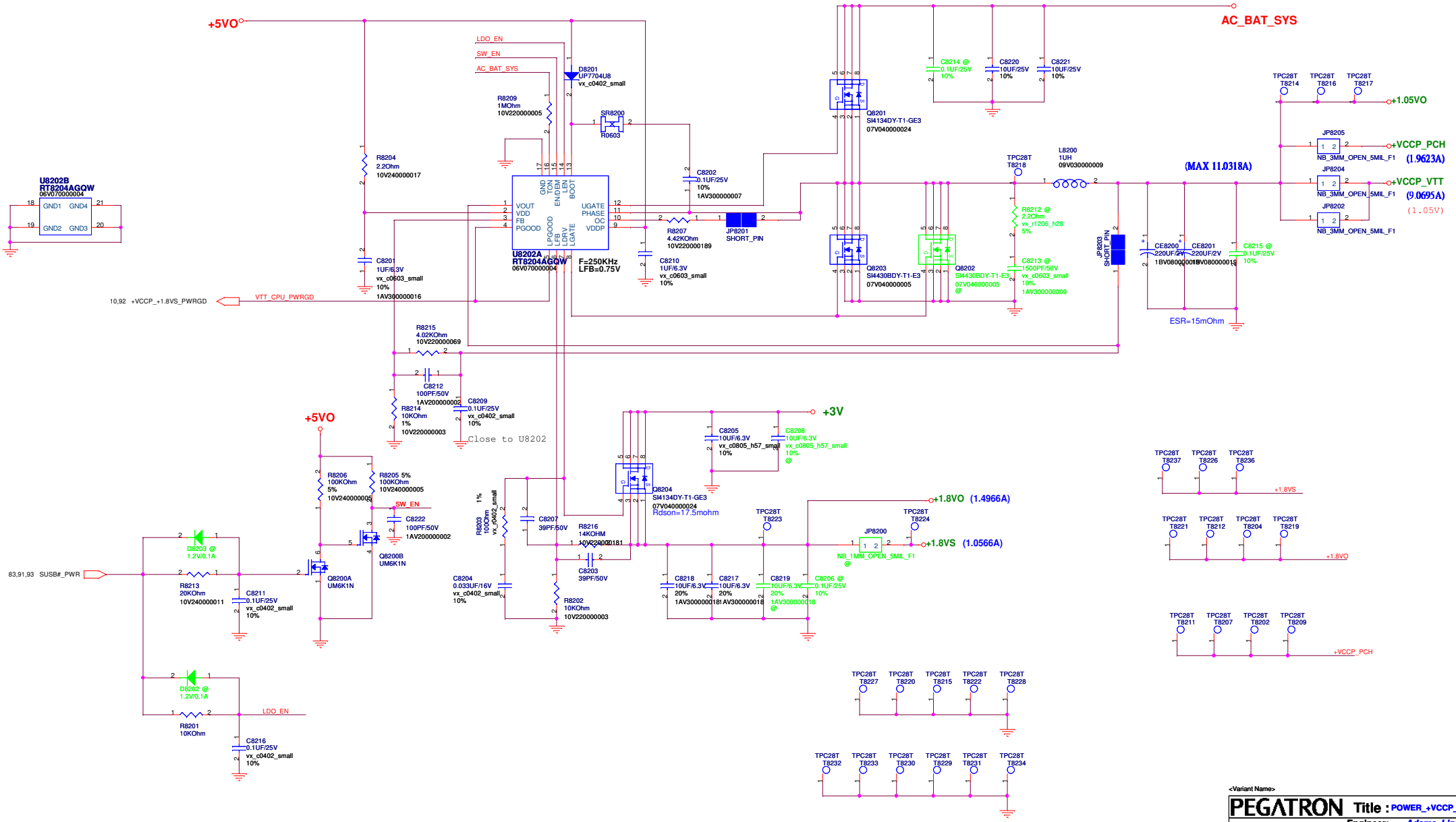
<variant_name>

PEGATRON Title : POWER_SYSTEM

Engineer: Adams_Lin

Size	Project Name	Rev
Custom	BIC50	1.0

Date: Tuesday, May 03, 2011 Sheet 81 of 77



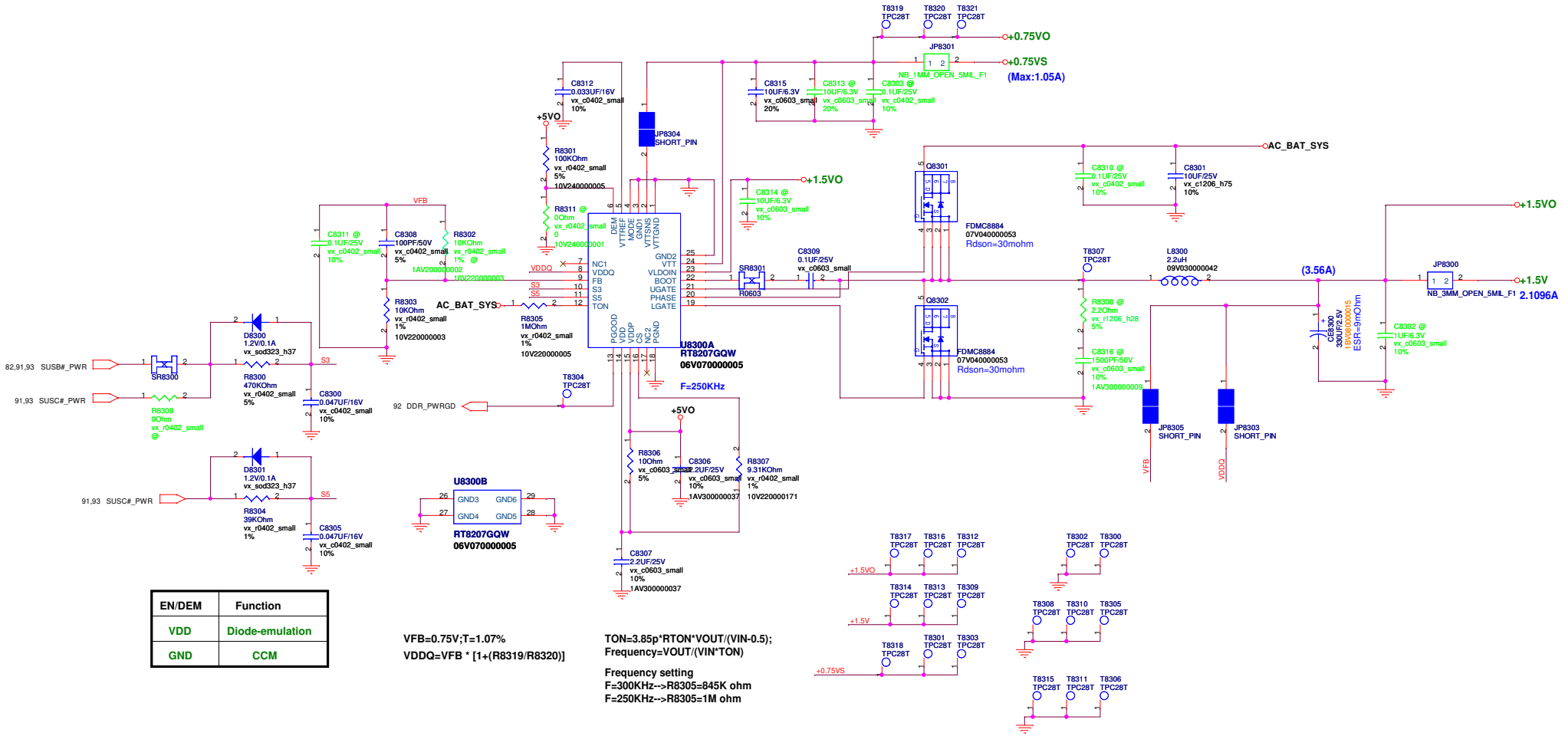
<Variant Name>

PEGATRON Title : POWER_+VCCP_+1.8VS

Engineer: Adams_Lin

Size	Project Name	Rev
Custom	BIC50	1.0

Date: Tuesday, May 03, 2011 Sheet 82 of 77



EN/DEM	Function
VDD	Diode-emulation
GND	CCM

VFB=0.75V;T=1.07%
VDDQ=VFB * [1+(R8319/R8320)]

TON=3.85p*RTON*VOUT/(VIN-0.5);
Frequency=VOUT/(VIN*TON)

Frequency setting
F=300KHz-->R8305=845K ohm
F=250KHz-->R8305=1M ohm

<Variant Name>

PEGATRON Title : POWER_DDR & VTT

Engineer: Adams_Lin

Size	Project Name	Rev
Custom	BIC50	1.0

Date: Tuesday, May 03, 2011 Sheet 83 of 77

<Variant Name>

PEGATRON

Title : POWER_N/A

Engineer: Adams_Lin

Size	Project Name	Rev
Custom	BIC50	1.0

Date: Tuesday, May 03, 2011 Sheet 84 of 77

<Variant Name>

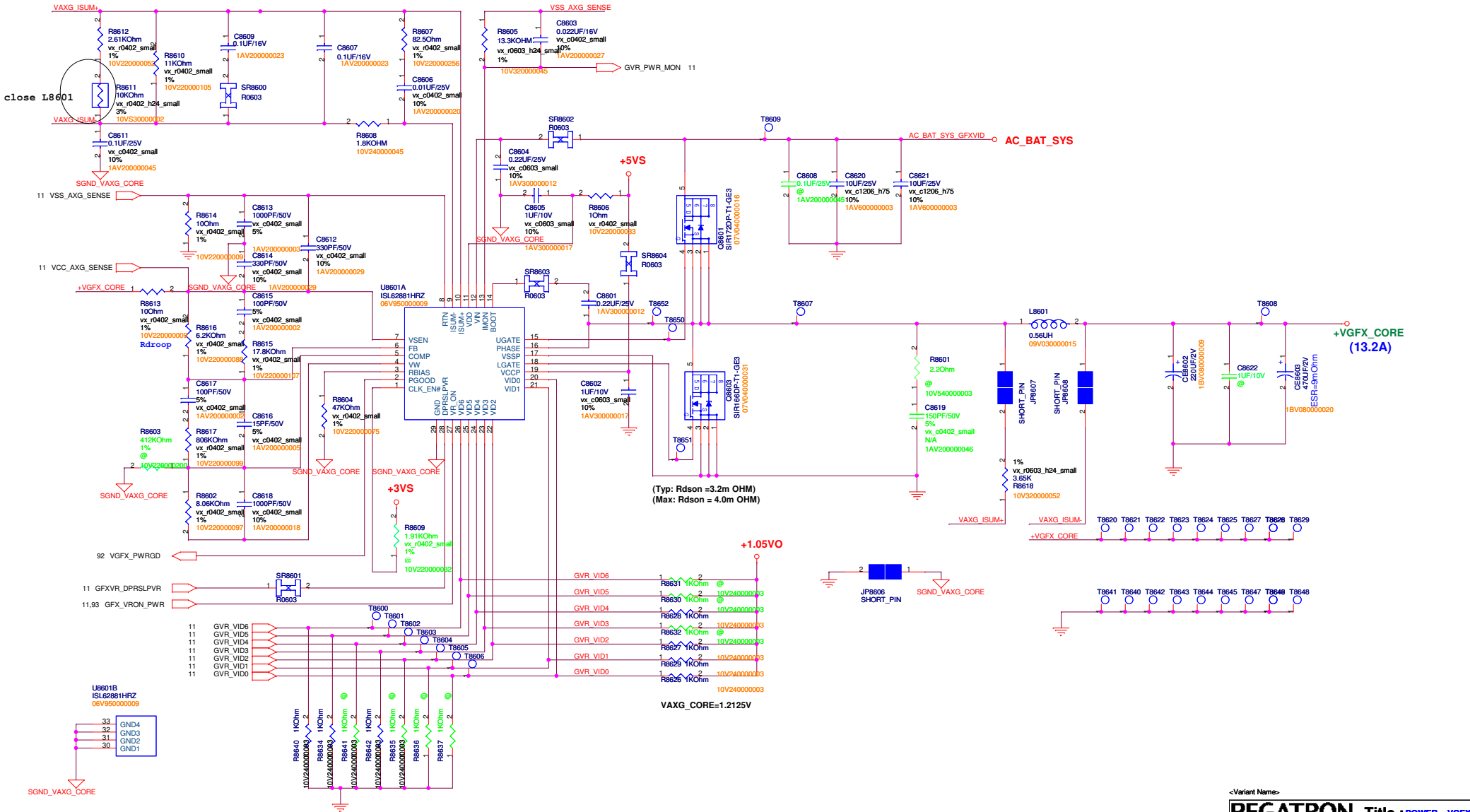
PEGATRON

Title : POWER_N/A

Engineer: Adams_Lin

Size	Project Name	Rev
A	BIC50	1.0

Date: Tuesday, May 03, 2011 Sheet 85 of 77


close L8601
U8601A
ISL62881HRZ
06V950000009
U8601B
ISL62881HRZ
06V950000009
Rdroop
+5VS
+3VS
+1.05VO
+VGFX_CORE
(13.2A)
AC_BAT_SYS
(Typ: Rdson =3.2m OHM)
(Max: Rdson = 4.0m OHM)
VAXG_CORE=1.2125V
SGND_VAXG_CORE
VAXG_ISUM+
VAXG_ISUM-
VSS_AXG_SENSE
VCC_AXG_SENSE
GVR_PWR_MON
GFXVR_DPRSLPVR
GFX_VRON_PWR
VGFX_PWRGD
GVR_VID6
GVR_VID5
GVR_VID4
GVR_VID3
GVR_VID2
GVR_VID1
GVR_VID0
JP8606
SHORT_PIN
<Variant Name>
PEGATRON
Title : POWER_+VGFX_CORE
Engineer: Adams_Lin
Size: Custom
Project Name: BIC50
Rev: 1.0
Date: Tuesday, May 03, 2011
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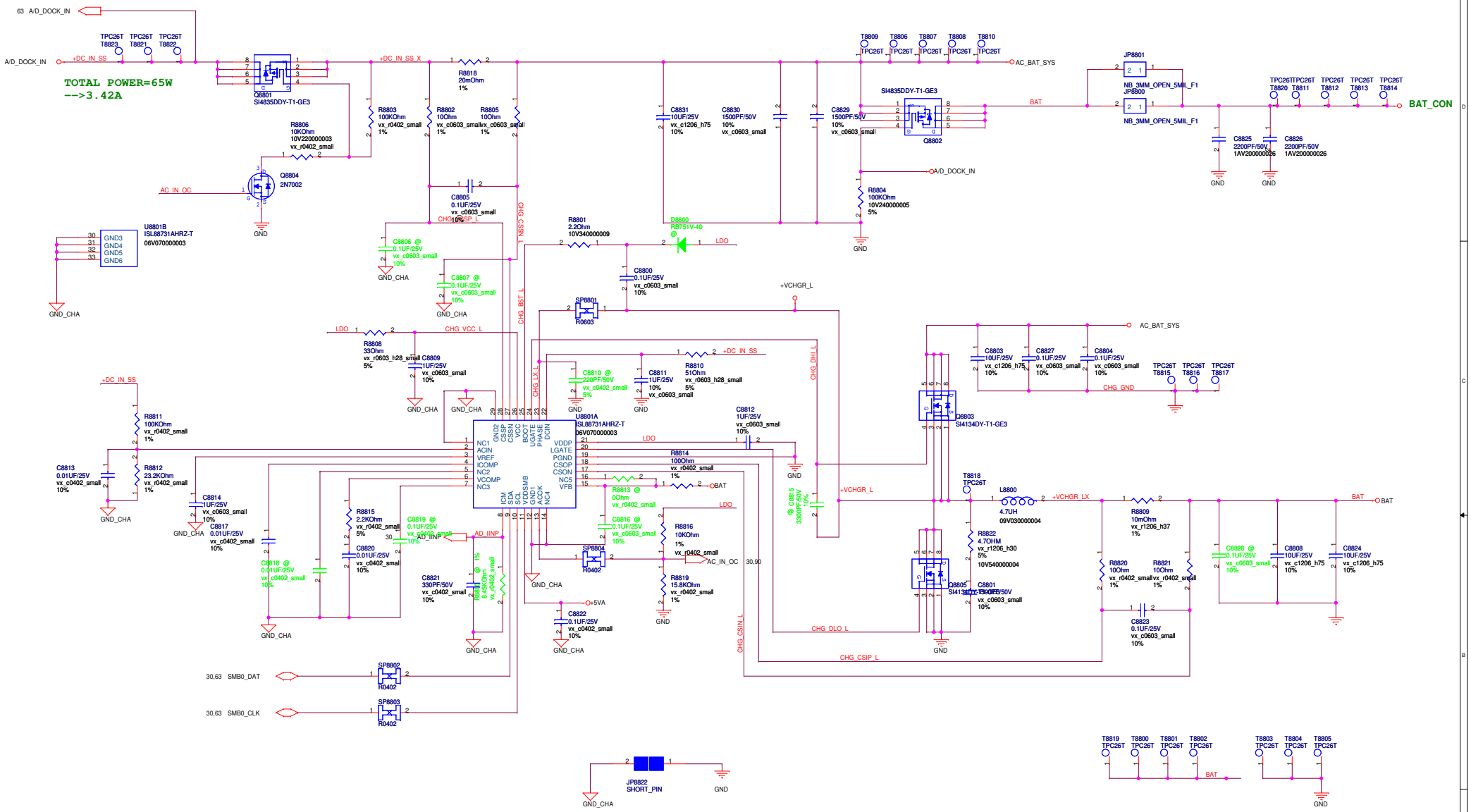
<Variant Name>

PEGATRON Title : POWER_*****

Engineer: Adams Lin

Size	Project Name	Rev
Custom	BIC50	1.0

Date: Tuesday, May 03, 2011 Sheet 87 of 77



<Variant Name>

PEGATRON Title : POWER CHARGER

Engineer: Adams_Lin

Size	Project Name	Rev
C	BIC50	1.0

Date: Tuesday, May 03, 2011 Sheet 88 of 77

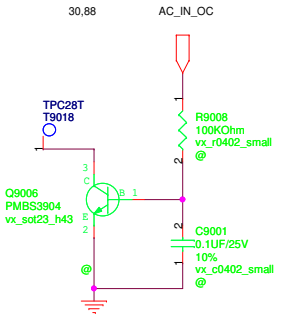
<Variant Name>

PEGATRON	Title : POWER_N/A	
	Engineer: *Adams_Lin*	
Size: A	Project Name: **BIC50**	Rev: 1.0
Date: Tuesday, May 03, 2011	Sheet 89 of 77	

BATTERY IN DETECT

ADAPTER IN DETECT

Use MAX17015 IC function to Cost down component



<Variant Name>

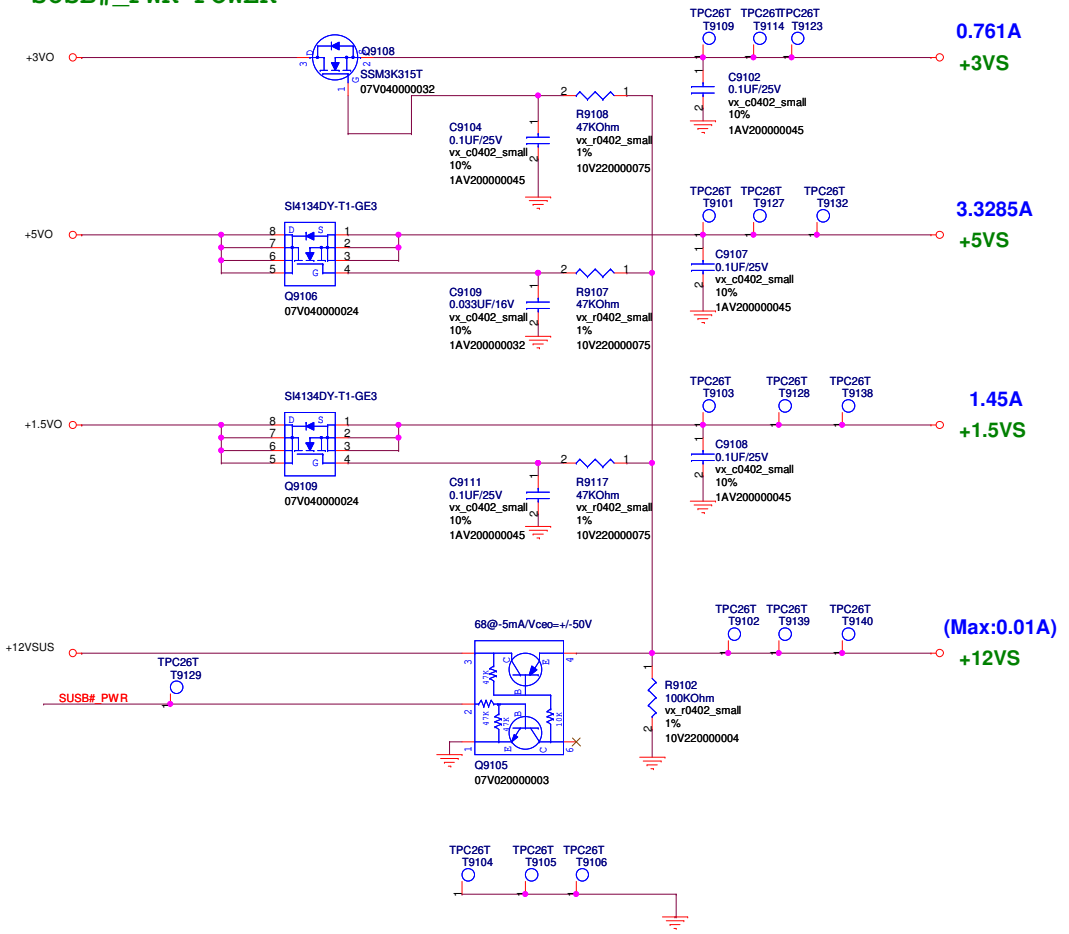
PEGATRON Title : POWER_DETECT

Engineer: Adams_Lin

Size	Project Name	Rev
Custom	BIC50	1.0

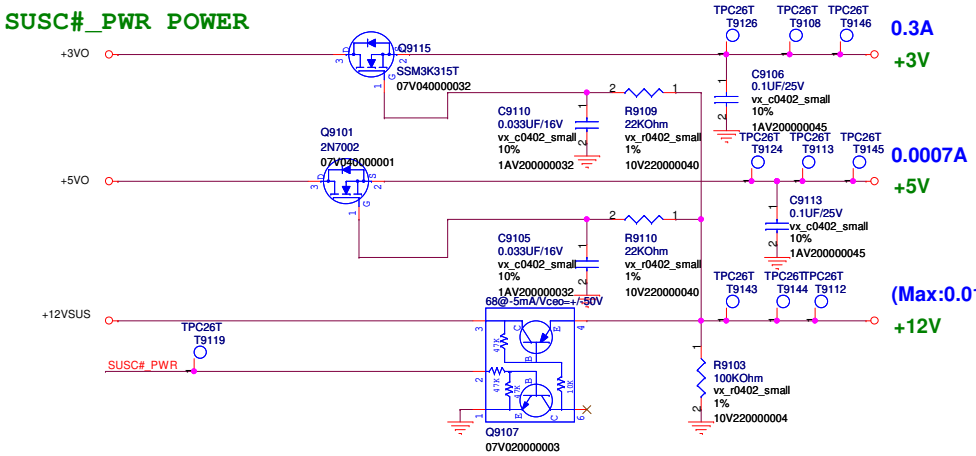
Date: Tuesday, May 03, 2011 Sheet 90 of 77

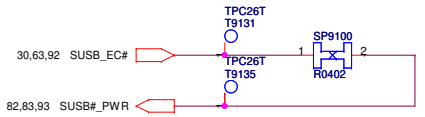
SUSB#_PWR POWER

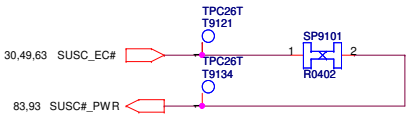


Ron = 41.5 mΩ (max) (@VGS = 4.5 V)
Ron = 27.6 mΩ (max) (@VGS = 10 V)

SUSC#_PWR POWER







<Variant Name>

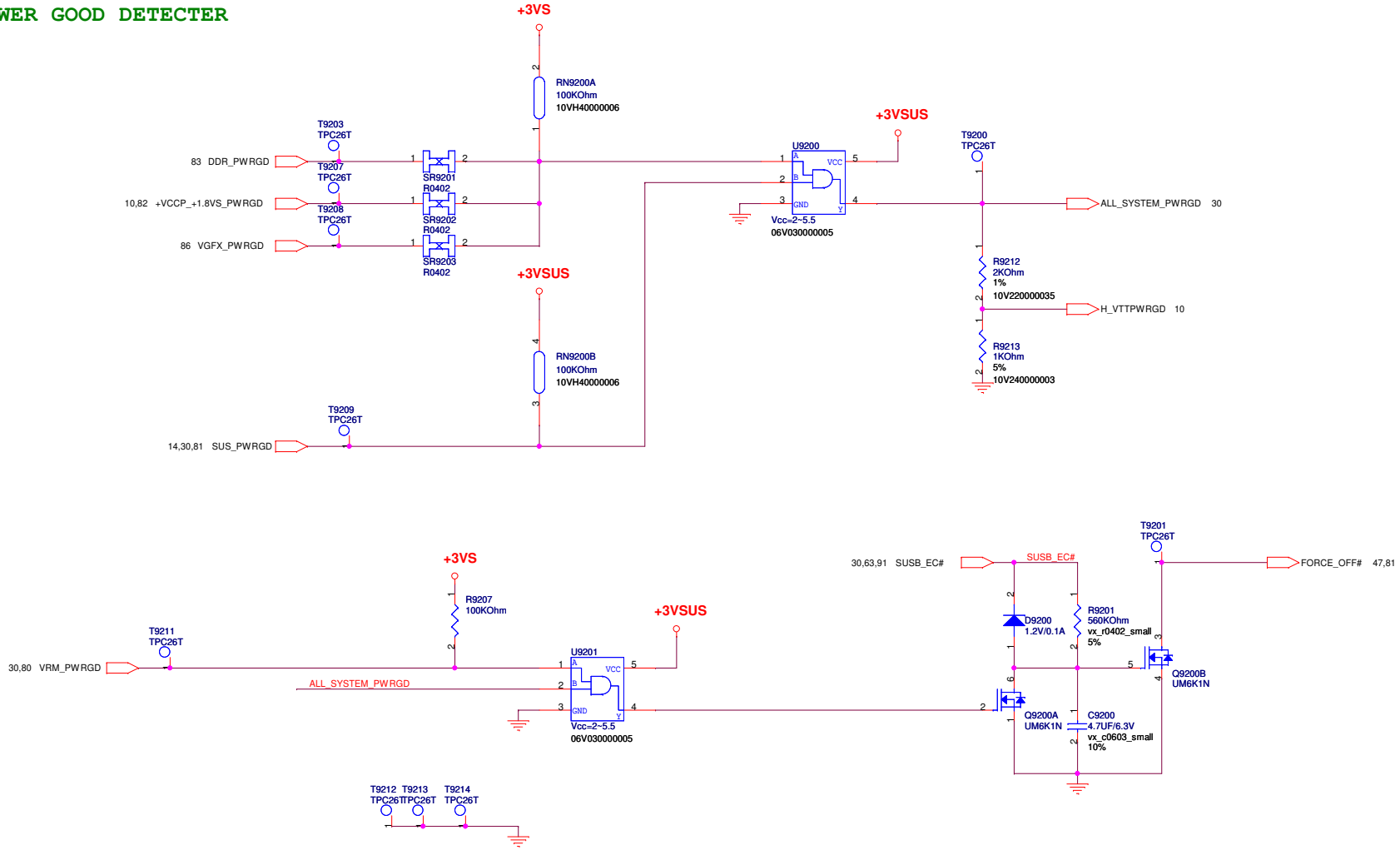
PEGATRON Title : POWER_LOAD SWITCH

Engineer: Adams_Lin

Size	Project Name	Rev
Custom	BIC50	1.0

Date: Tuesday, May 03, 2011 Sheet 91 of 77

POWER GOOD DETECTER



<Variant Name>

PEGATRON Title : POWER_PROTECT

Engineer: Adams_Lin

Size	Project Name	Rev
Custom	BIC50	1.0

Date: Tuesday, May 03, 2011 Sheet 92 of 77

AC_BAT_SYS — AC_BAT_SYS 37,80,81,82,83,86,88

BAT_CON — BAT_CON 63,88

BAT — BAT 88

+5VA — +5VA 30,42,49,66,81,88

+3VA — +3VA 13,30,48,63,81

+5VO — +5VO 81,82,83,91

+3VO — +3VO 81,91

+1.8VO — +1.8VO 82

+1.5VO — +1.5VO 83,91

+1.05VO — +1.05VO 80,82,86

+VGFX_CORE_O — +VGFX_CORE_O

+0.75VO — +0.75VO 83

+12VS — +12VS 38,39,91

+5VS — +5VS 15,19,30,38,39,41,42,48,49,60,63,80,86,91

+3VS — +3VS 10,13,14,15,16,17,18,19,21,22,24,30,33,37,38,39,41,47,49,60,63,65,80,86,91,92

+1.8VS — +1.8VS 11,18,19,82

+1.5VS — +1.5VS 10,11,24,55,63,91

+0.75VS — +0.75VS 21,22,63,83

+12VSUS — +12VSUS 33,37,41,50,55,60,81,91

+5VSUS — +5VSUS 19,30,42,61,65,66,81

+3VSUS — +3VSUS 10,13,14,15,16,17,18,19,30,33,37,41,50,55,60,81,92

+12V — +12V 91

+5V — +5V 63,91

+3V — +3V 37,50,63,65,82,91

+1.5V — +1.5V 10,21,22,63,83

+VGFX_CORE — +VGFX_CORE 11,86

+VCORE — +VCORE 11,12,80

FOR POWER TEST

+3VA

JP9300 @ SGL_JUMP (1 2) — T9300 TPC26T — CPU_VRON_PWR 80

JP9301 @ SGL_JUMP (1 2) — T9301 TPC26T — SUSB#_PWR 82,83,91

JP9302 @ SGL_JUMP (1 2) — T9302 TPC26T — SUSC#_PWR 83,91

JP9303 @ SGL_JUMP (1 2) — T9303 TPC26T — VSUS_ON 30,81

+1.05VO

JP9305 @ SGL_JUMP (1 2) — T9305 TPC26T — GFX_VRON_PWR 11,86

<Variant Name>

PEGATRON Title : POWER_SIGNAL

Engineer: Adams_Lin

Size	Project Name	Rev
Custom	BIC50	1.0

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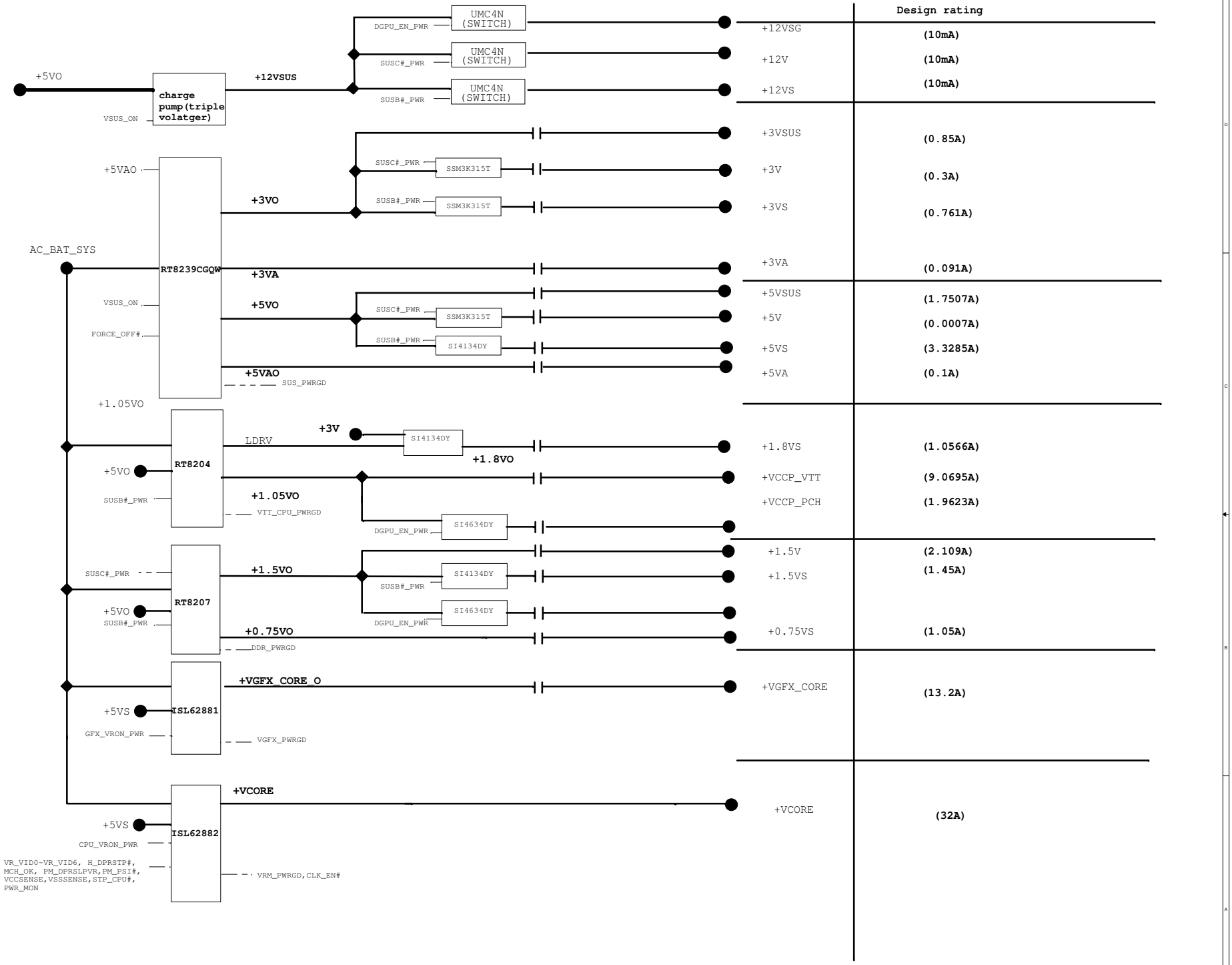


<Variant Name>

PEGATRON Title : POWER_FLOWCHART

Engineer: Adams_Lin

Size	Project Name	Rev
Custom	BIC50	1.0

Date: Tuesday, May 03, 2011 Sheet 94 of 77

modify notice

Item	Date	Description
SR-1	0120-11	P61, A04IO. change USB power switch circuit
SR-2	0120-11	Del P67, P68. Add P33, P34 for LAN
SR-3	0120-11	P48. change KB CON4801
SR-4	0120-11	P34. change RJ45 CON3401
SR-5	0120-11	P63. change BATT. con. circuit
SR-6	0120-11	P65, A02 change PWR LED CON6503 circuit
SR-7	0120-11	P60. change HDD CON6001
SR-8	0121-11	P44, P45 Del Entry audio circuit (Full)
SR-9	0121-11	P50. Del Entry SD socket circuit
SR-10	0121-11	P77. Del B channel VRAM * 4 circuit
SR-11	0121-11	P46. Add EC GPIO35 DGPU_PWR_EN for Power
SR-12	0121-11	P34, P35. Modify LAN AR8158 (Full)
SR-13	0123-11	P63. Change DC con. as VP part
SR-14	0123-11	P60. Change HDD CON6001
SR-15	0123-11	P7~P37 Change VP part
SR-16	0124-11	P41 Del Entry speaker R4117~R4120
SR-17	0124-11	P38~P39 Change VP part
SR-18	0124-11	P66 Remove LED circuit
SR-19	0124-11	P48. Reverse KB CON4801
SR-20	0124-11	P71. Remove GPU Channel B dummy NET
SR-21	0124-11	P16, P61. Remove USB_9(HDMI)
SR-22	0124-11	P48. Remove TP button circuit
SR-23	0124-11	P13. Remove Entry AZ R1318, R1346, R1347, R1348, R1349
SR-24	0124-11	P50. Modify CON5002 SD socket circuit
SR-25	0124-11	P48. Change KB CON4801 PIN definintion
SR-26	0124-11	P16, P61. change USB power switch circuit
SR-27	0124-11	P41, P46. ALC271-SPKR_EC_ICH_Colay
SR-28	0124-11	P46, P65. Modify LED circuit and EC GPIO definition
SR-29	0125-11	P33 Remove LAN LED circuit
SR-30	0125-11	P61 Modify D6101, RN6101, RN6105, RN6106
SR-31	0125-11	P33 Change R3311 as VP
SR-32	0125-11	P33 Change U3301 to AR8158 and delete SM BUS
SR-33	0125-11	P34 Modify LAN ESD circuit
SR-34	0125-11	P61. Modify Q6101
SR-35	0125-11	P65. Modify Q6501
SR-36	0125-11	P38, P46. Del F3801, C3811 Add CRT IN Detect
SR-37	0125-11	P63. Reverse J6301
SR-38	0125-11	P61, P46. change USB power switch and GPIO
SR-39	0125-11	P46,P66. change LED power and Net name
SR-40	0125-11	P34. Modify Transformer circuit
SR-41	0125-11	P33. Modify H/W strap setting
SR-42	0125-11	P37. Modify LVDS PIN definintion
SR-43	0125-11	P42. Modify De-Pop circuit
SR-44	0125-11	P41. Modify Audio Pin 14, 15, 27~31
SR-45	0126-11	P34. Modify Transformer circuit
SR-46	0126-11	P16. GPIO54 DGPU_PWR_EN
SR-47	0126-11	U1301, U7001 keypart no; U4602, F6302 Modify for BOM
SR-48	0126-11	P34. Modify Transformer circuit
SR-49	0126-11	P63, P60, P17, P48. Add 15" circuit BATT, ODD, Keyboard
SR-50	0126-11	P13, P60 Rename SATA 0 to SATA 1
SR-51	0126-11	P63. Reverse DC-IN J6301 PIN1 as GND
SR-52	0126-11	P48. Reverse KB CON4801
SR-53	0126-11	DGPU Sync with EIH31
SR-54	0126-11	P.76. T7, M7 Setting
SR-55	0126-11	Modify as OPT display output
SR-56	0127-11	P.76. Cancel T7, M7 Setting
SR-57	0127-11	P.46, P50 Modify single net
SR-58	0127-11	P.42 Change R4205, R4206 = 51 ohm
SR-59	0127-11	P.41 DEL C4109, C4112
SR-60	0127-11	P.14 R1403, R1404 option N/A
SR-61	0127-11	P.14 R1443, R1444, RN1402, R1424, R1426, R1427, R1428 option N/A; R1429 option /HDMI_HPD_PCH
SR-62	0127-11	P71, P74. R7101, R7103, R7435, R7437 option @
SR-63	0127-11	P74. Del R7433, R7434, GPIO Test Pad
SR-64	0128-11	P34. U3403.4 RXN
SR-65	0128-11	P66. change R6603.1 (+5VA), LED6602, LED6603
SR-66	0128-11	P65. change R6508.1 (PWRLED_ON#), CON6503.6 (+5VSUS)
SR-67	0128-11	P97. Modify A04 Pwr Board
SR-68	0128-11	P55. Un-mount Q5505, R5510
SR-69	0128-11	P66. Modify Screw Hole (Sync with AAB70)
SR-70	0128-11	P63. Modify Battery CON6302, D6302 signal name

Item	Date	
SR-71	0128-11	P15. Add C1510 (22pF) for Clock fine-tune
SR-72	0128-11	P33. change R3325, R3331 (4.7k ohm)
SR-73	0128-11	P39. Un-mount R3907 (HDMI)
SR-74	0128-11	Change connector by list of 0128-11
SR-75	0129-11	Change HDD CON6001(1224-001N000)
SR-76	0129-11	P97 (A02). Change Hotbar 6 Pad (PWR_U01)
SR-77	0129-11	P41~P50 Change VP part
SR-78	0129-11	P55. Add Q5510, R5515 for BT PCI-E wake up event
SR-79	0130-11	P50. change footprint for U5001 Card reader controller
SR-80	0130-11	P66. change CPU*4, GPU*2, System screw hole*10
SR-81	0130-11	P46. change RN4601C (RN9202C)
SR-82	0130-11	P66. change F screw hole *2
SR-83	0130-11	P46. change SHORT PIN (R4601,R4602)
SR-84	0130-11	P46, P65. change EC GPIO21 (PWR_AMBER_LED#) for PWR Brd.
SR-85	0130-11	Modify Sub board screw hole
SR-86	0130-11	P34. Change RJ45 CON3401 1223-00BT000
SR-87	0131-11	P74. Change Q7401B(Q9203B)
SR-88	0131-11	P96, P99. Del Screw hole ODD_H02, change IOH3
SR-89	0131-11	P97. Change Power Board LED PWR_LED01
SR-90	0131-11	P60. Change 15" ODD CON6505 as VP
SR-91	0131-11	P96~P99. Copy from AAB70 (sub board)
R1.2-1		P18 Add Bead and cap for CRT noise issue
R1.2-2		P30 PWR_SW#_M 10kohm P/U to +3VA_EC
R1.2-3		P30 PWR_BLUE_LED# P/U to +5VSUS; BAT_ORG_LED# P/U to +5VA; CHG_LED_BLUE# P/U to +5VA to fix LED leakage issue
R1.2-4		P30 Reverse Q4602 for circuit design error
R1.2-5		P37 add LCD_BACKOFF# for LCD on/off control by EC
R1.2-6		P41&P42&99 modify Int. MIC design from mono to stereo
R1.2-7		P41 Reserve load switch to control PVDD on/off
R1.2-8		P42 R3916 P/U to +5VSUS
R1.2-9		P47 connect to EC_RST# for power protect
R1.2-10		P47,P49 Add Palm rest thermal circuit to follow thermal design spec
R1.2-11		P50 CON5002 pin.12 connect to GND to fix SD card can't be detected issue
R1.2-12		P55 Reserve load switch to control +1.5VS_WLAN on/off
R1.2-13		P60 Reserve connector for HDD connect by cable
R1.2-14		P61 change Audio BD connector to 24 pin & reserve one more power switch for USB power test
R1.2-15		P63 Change J6301 to 1217-00WC000 to fix SMT issue
R1.2-16		P66 H6546 floating by EMI request
R1.2-17		P66 delete screw hole H6545
R1.2-18		P98 TP_H1 & TP_H2 change P/N by ME request
R1.2-19		P98 TP_SW1 & TP_SW2 change to 1209-00VF000 by ME request
R1.2-20		P98 TP_H1 & TP_H2 change P/N by ME request
R1.2-21		P61 L6105 change to 67 ohm common choke to fix USB eye-diagram fail issue
R1.2-22		P48 Add cap for K/B signal by EMI request
R1.2-23		P48 Add C3013 by EMI request
R1.2-24		P97 hotbar pin define swap to meet cable define
R1.2-25		P33 unmount R3306, mount R3308 for LAN OPT mode
R1.2-26		P33 L3317 change to 1500ohm Bead by EMI request
R1.2-27		P38 L3801,L3802,L3803 change to 0.056uH inductor for EMI & EA test
R1.2-28		P65 unmount R6507&Q6501 and delet PWR_SW BD LED circuit
R2.0-1		P42 change OP_SD# to +5VA power rail to prevent DC mode has noise when shutdown (follow eih30)
R2.0-2		P30 remove EC xtal, EC clock control by EC itself.
R2.0-3		P49 change R4903 to 4.22Kohm to set thermistor operating temp at 89'C (request by thermal RD)
R2.0-4		P66 change H6541,H6538,H6553,H6552,H6547,H6544 to NPTH hole for factory ICT test purpose
R2.0-5		P80 Add CE8008 to fix electrical noise over 15msones issue

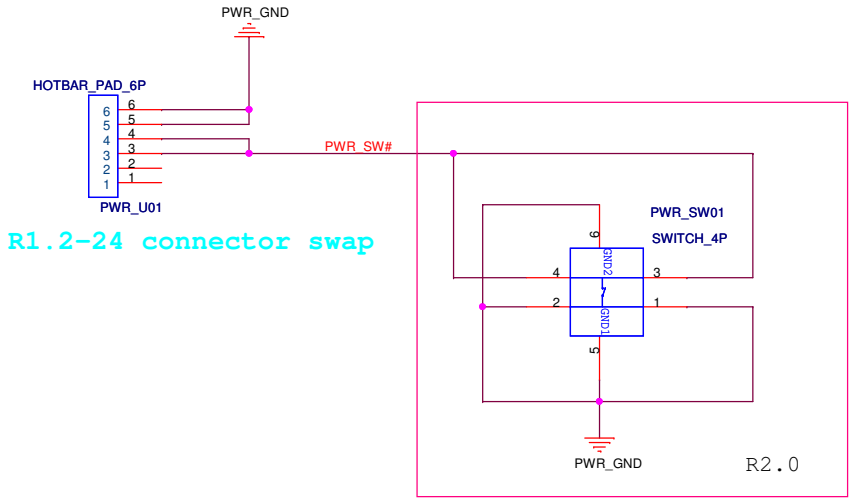
PEGATRON Title : Power History

<OrgName> Engineer:

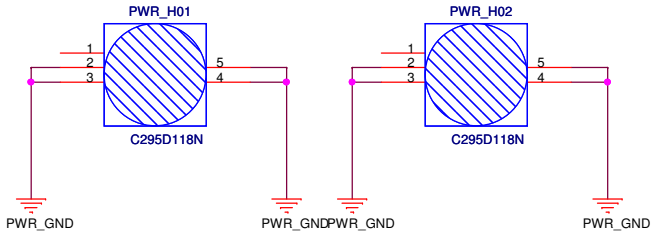
Size: C | Project Name | Rev: 1.0

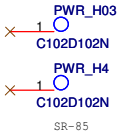
Date: Wednesday, May 18, 2011 | Sheet 95 of 77

POWER LED 0129



R1.2-24 connector swap





PEGATRON Title : PWR BTN

BU1-RD Div.1-HW RD Dept.1 Engineer: Elmer Chiu

Size	Project Name	Rev
B	BIC50	1.1

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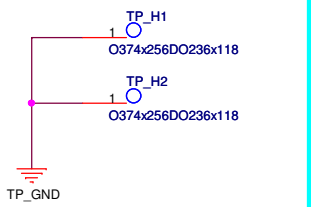
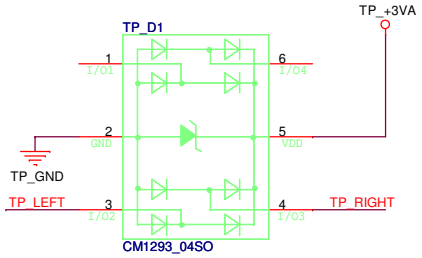
R1.2-18

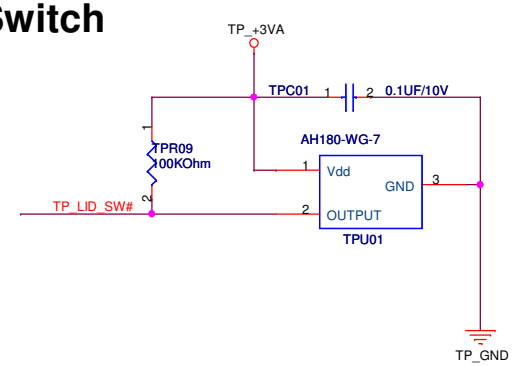


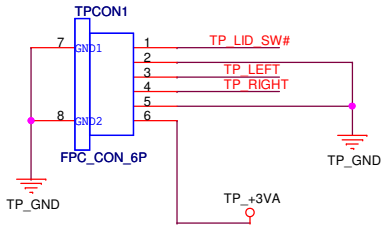


@

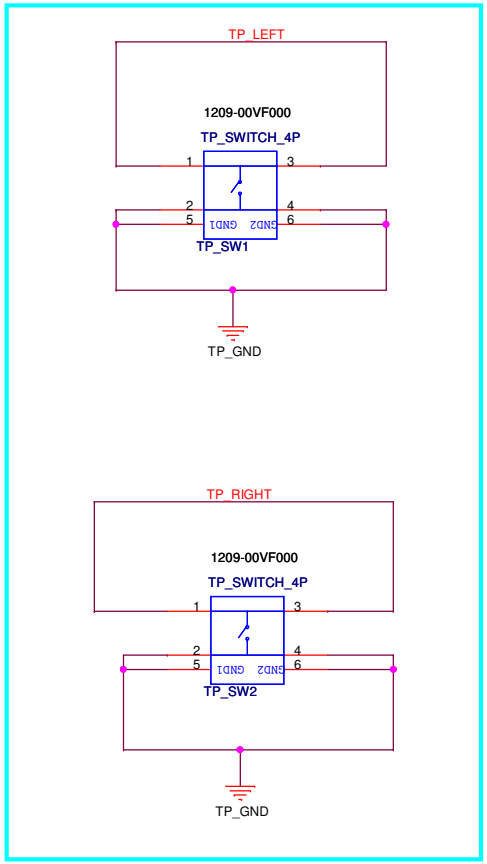
SR-85

LID Switch



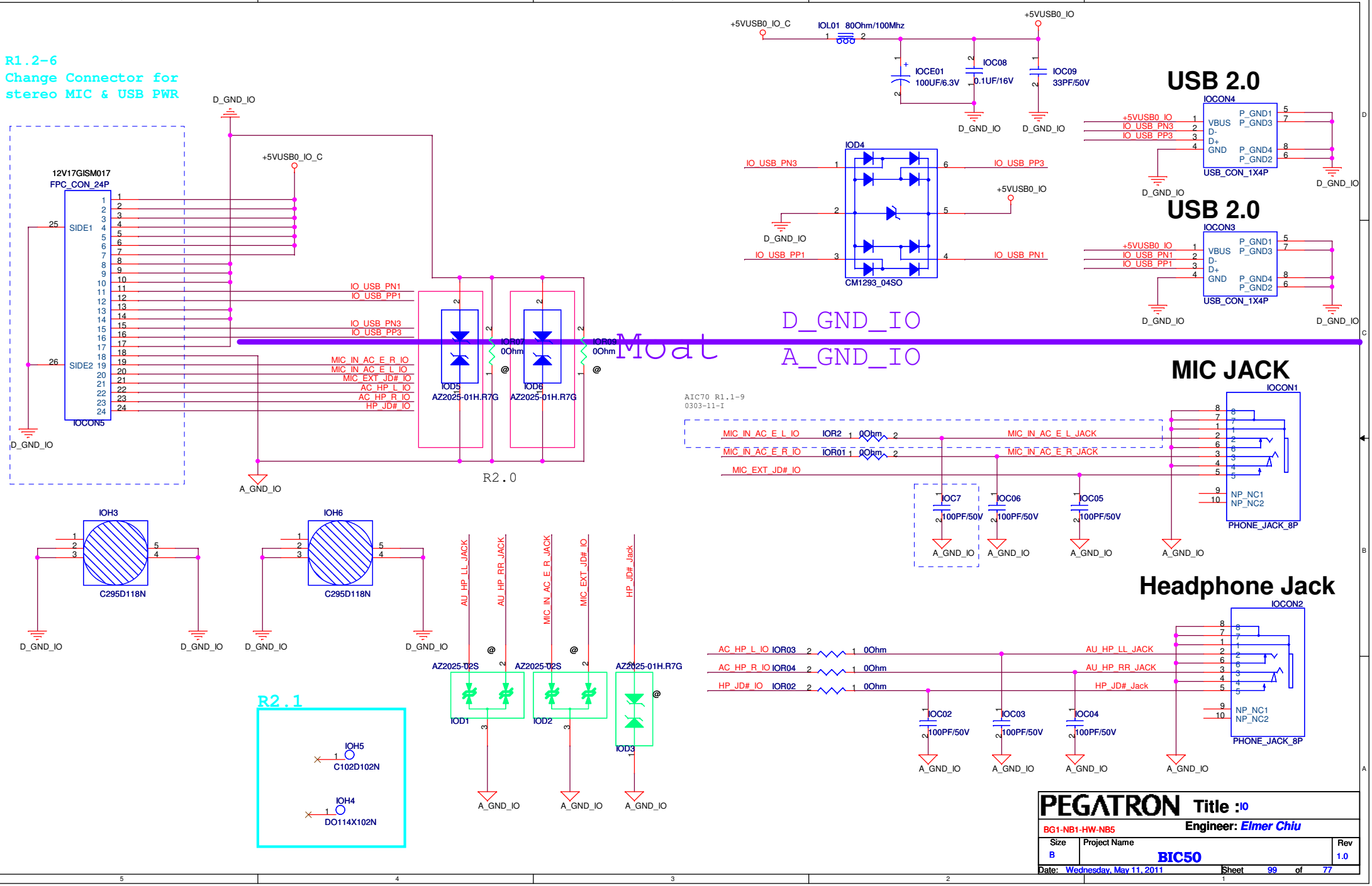


R1.2-19



PEGATRON	Title : TP_M	
BG1-HW RD Div.2-NB RD Dept.5	Engineer: Elmer Chiu	
Size: B	Project Name: BIC50	Rev: 1.0
Date: Tuesday, May 03, 2011	Sheet 98 of 77	

R1.2-6
Change Connector for
stereo MIC & USB PWR



PEGATRON	Title : IO	
BG1-NB1-HW-NB5	Engineer: Elmer Chiu	
Size: B	Project Name: BIC50	Rev: 1.0
Date: Wednesday, May 11, 2011	Sheet 99 of 77	