GeForce6100SM-M2

REV: 1.0

PCB:15-V09-011010
BOM:81-605-V09110

MCP68S Real S3
Components :718PCS

MCP61S Real S3
Components :693PCS
Add R26.R28.R29.R30
Del R48

Page Index

	Signature	Date
Designer	Eli	06/15/2007
Layout	Susan / Angela	05/29/2007
Check		
Approval		

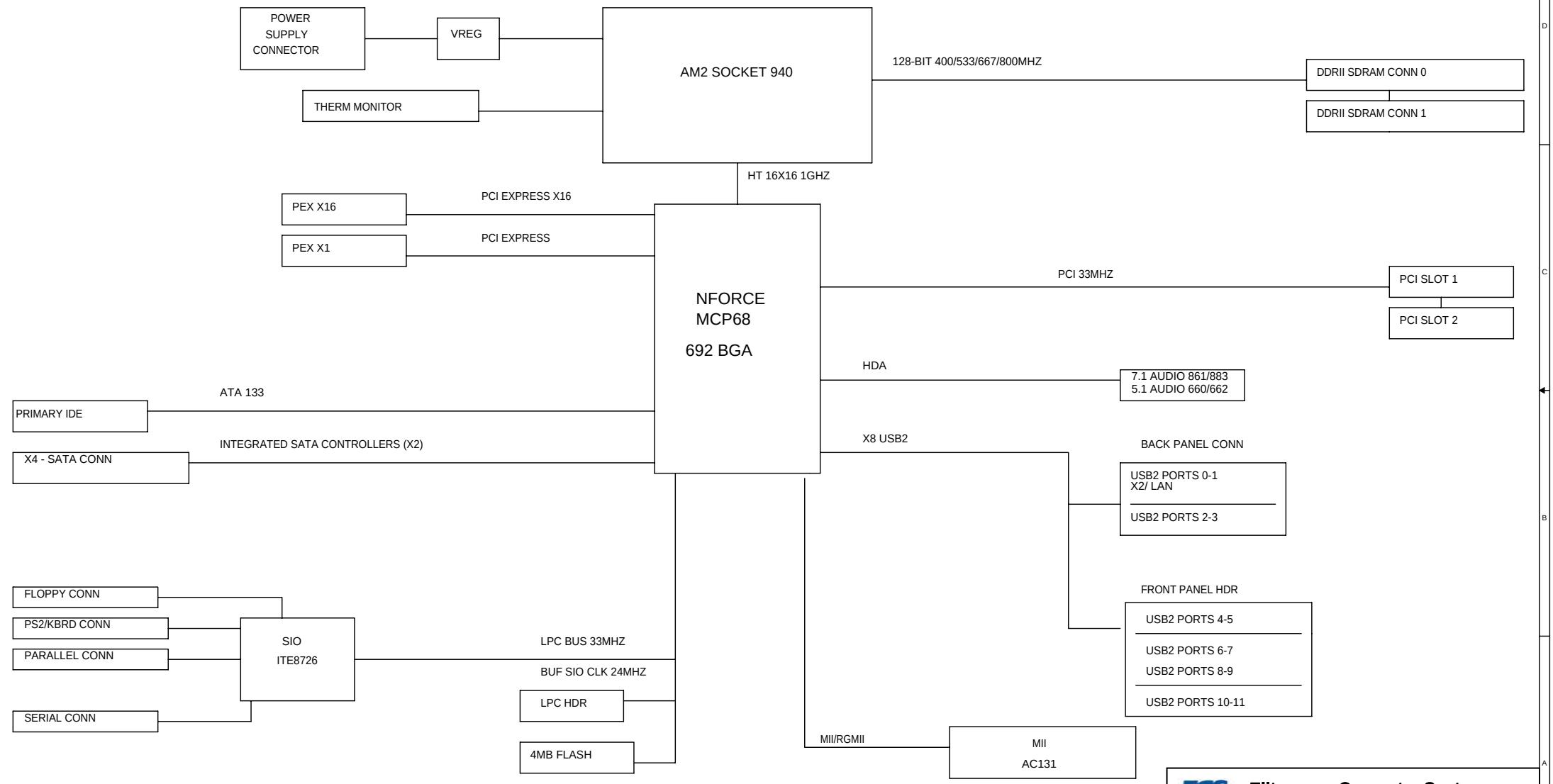
Elitegroup Computer Systems

Title: GeForce6100SM-M2

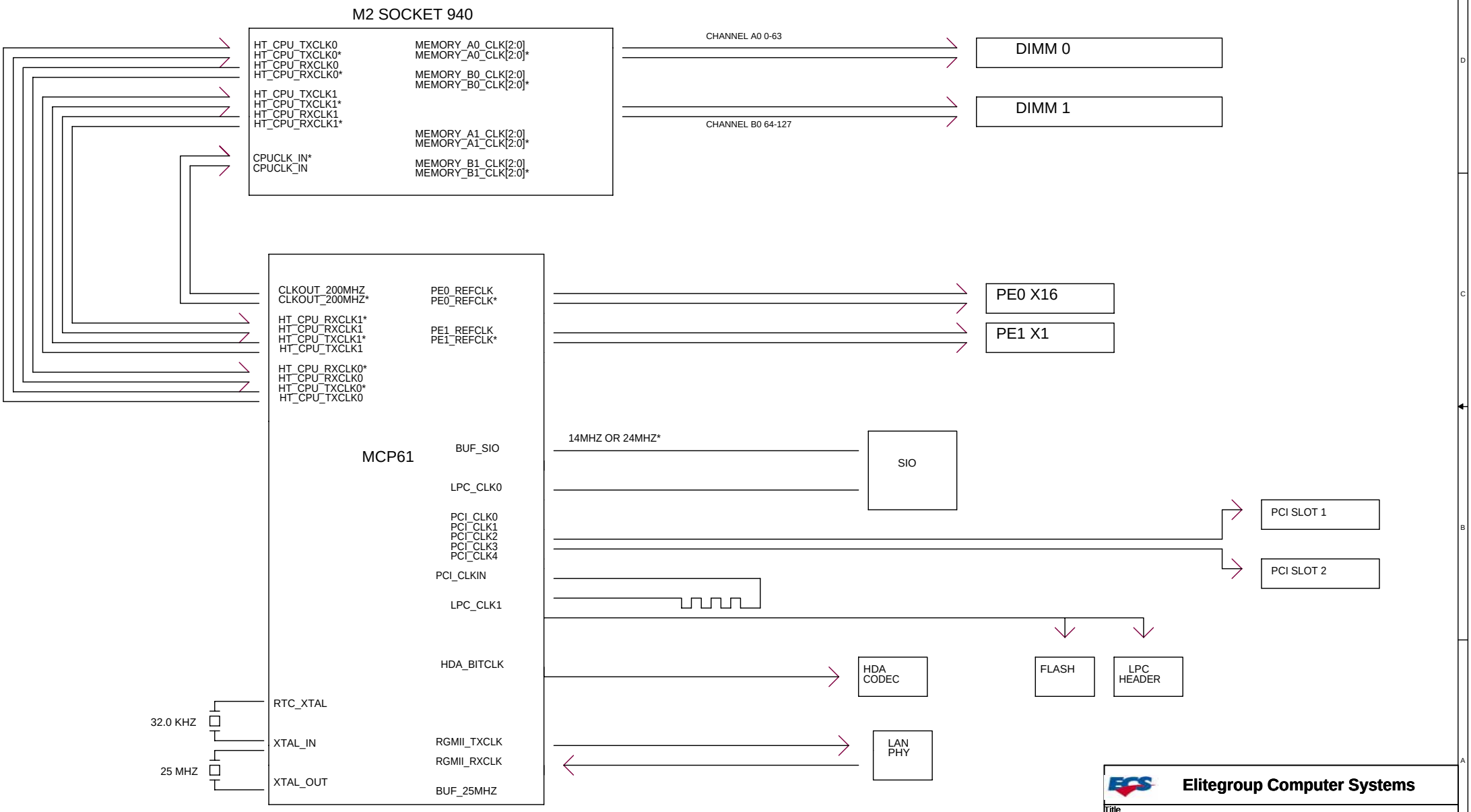
Size: B | Document Number: COVER PAGE | Rev: 1.0

Date: Thursday, June 21, 2007 | Sheet 1 of 30

BLOCK DIAGRAM



Elitegroup Computer Systems		
Title: MCP68M-M2		
Size: B	Document Number: BLOCK DIAGRAM	Rev: 1.0
Date: Thursday, June 21, 2007	Sheet 2 of 30	



Elitegroup Computer Systems

Title: GeForce6100SM-M2

Size: B | Document Number: CLOCK DISTRIBUTION | Rev: 1.0

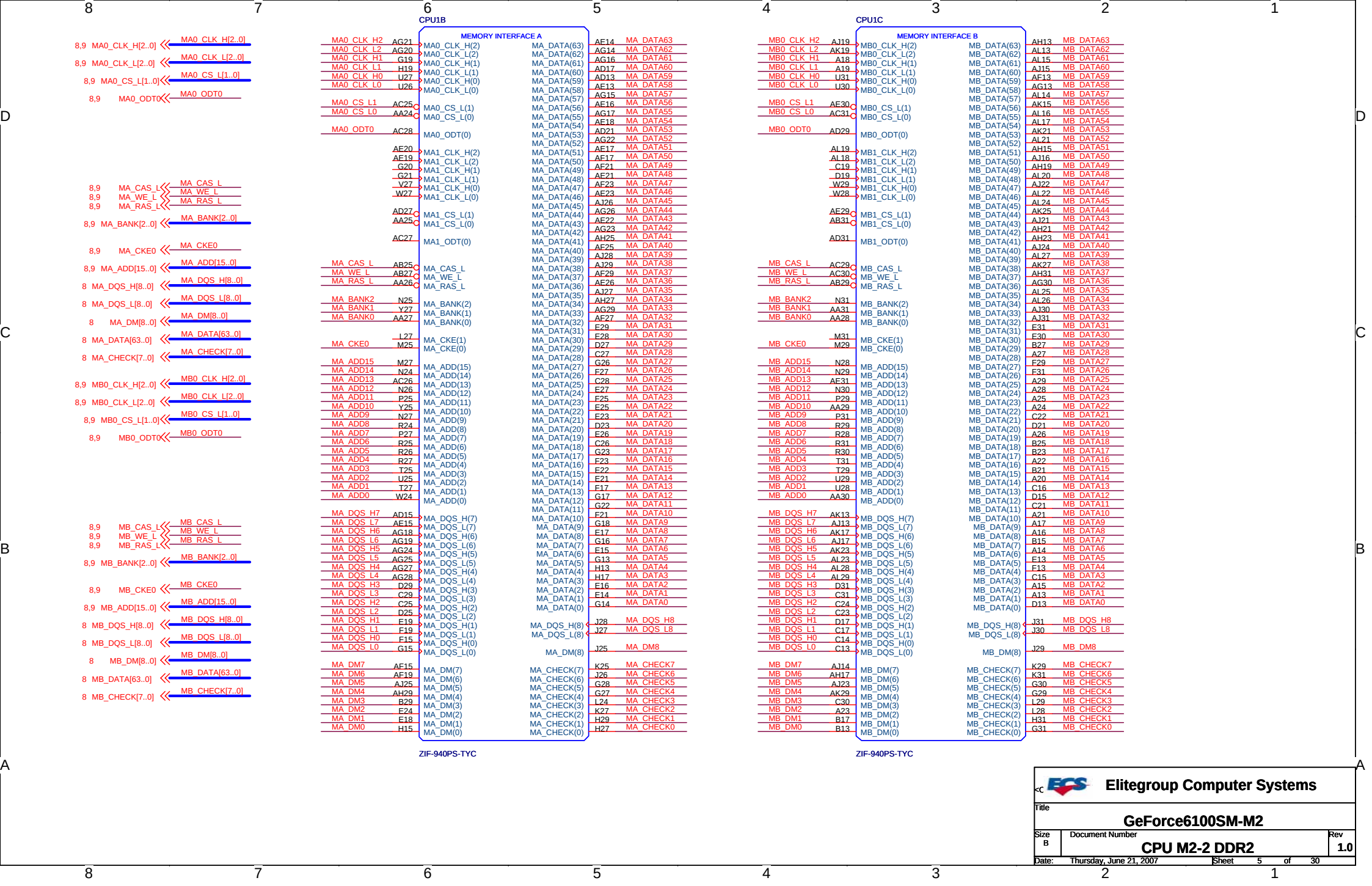
Date: Thursday, June 21, 2007 | Sheet 3 of 30

<OrgAddr1> Elitegroup Computer Systems

Title: GeForce6100SM-M2

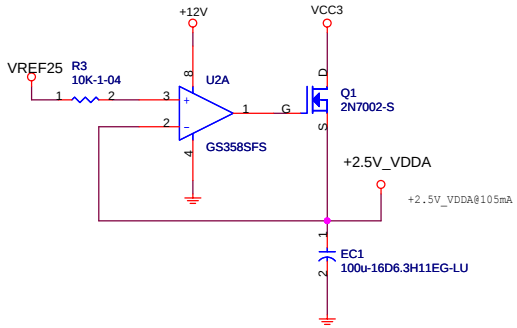
Size: B | Document Number: CPU M2-1 HyperTransport | Rev: 1.0

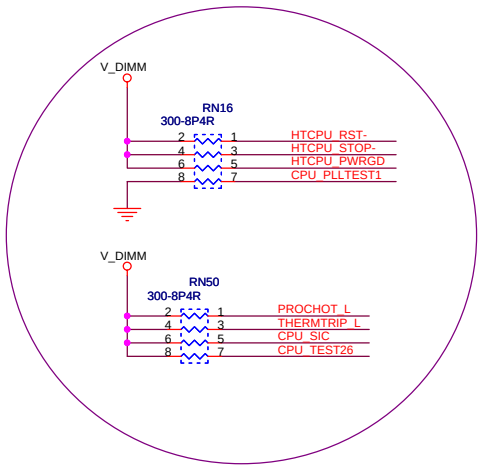
Date: Thursday, June 21, 2007 | Sheet 4 of 30

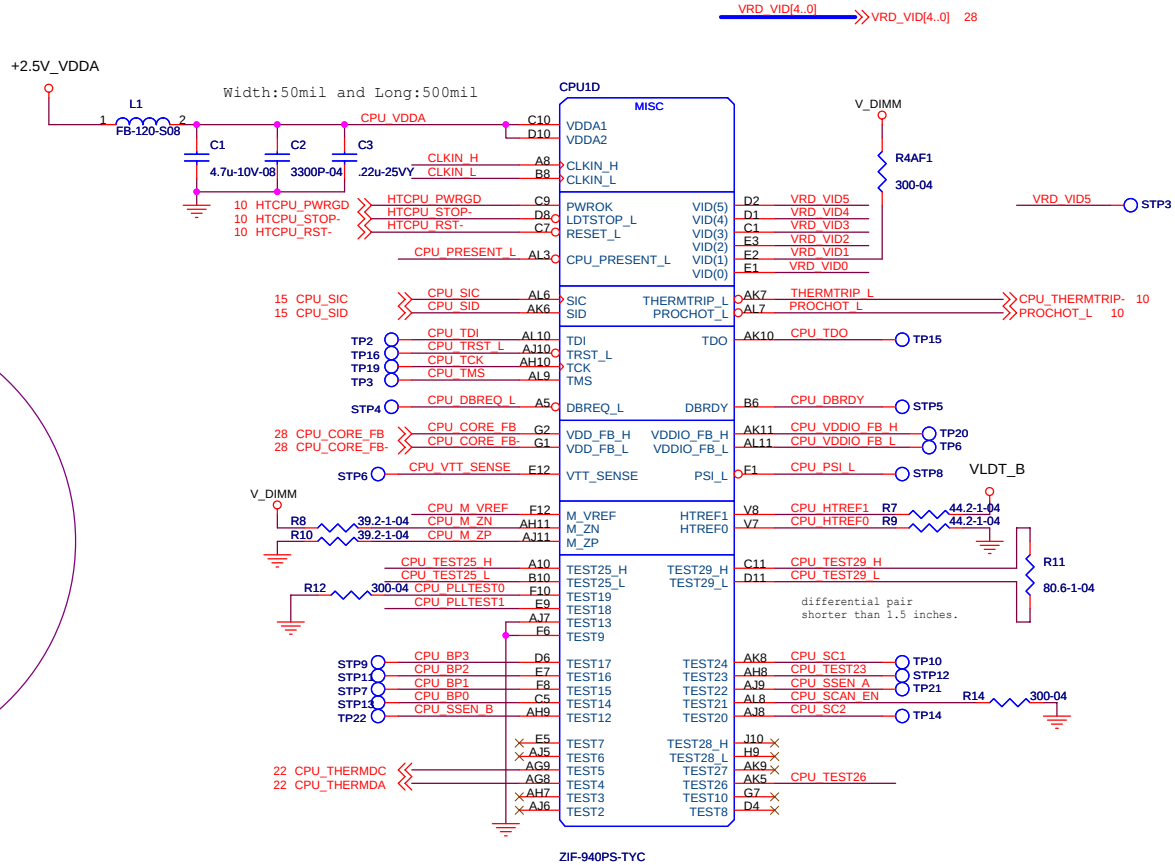


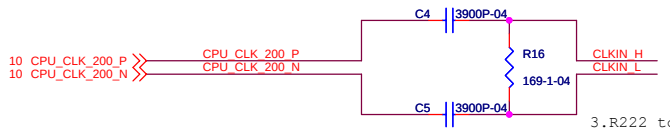
Elitegroup Computer Systems	
Title	GeForce6100SM-M2
Size: B	Document Number: CPU M2-2 DDR2
Rev	1.0
Date: Thursday, June 21, 2007	Sheet 5 of 30

+2.5V_VDDA for CPU PLL



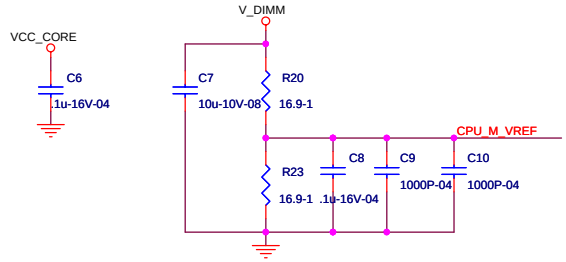


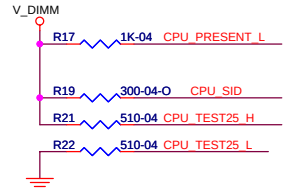




3.R222 to CPU <600mil

4.C211,C218 to CPU <1250mil



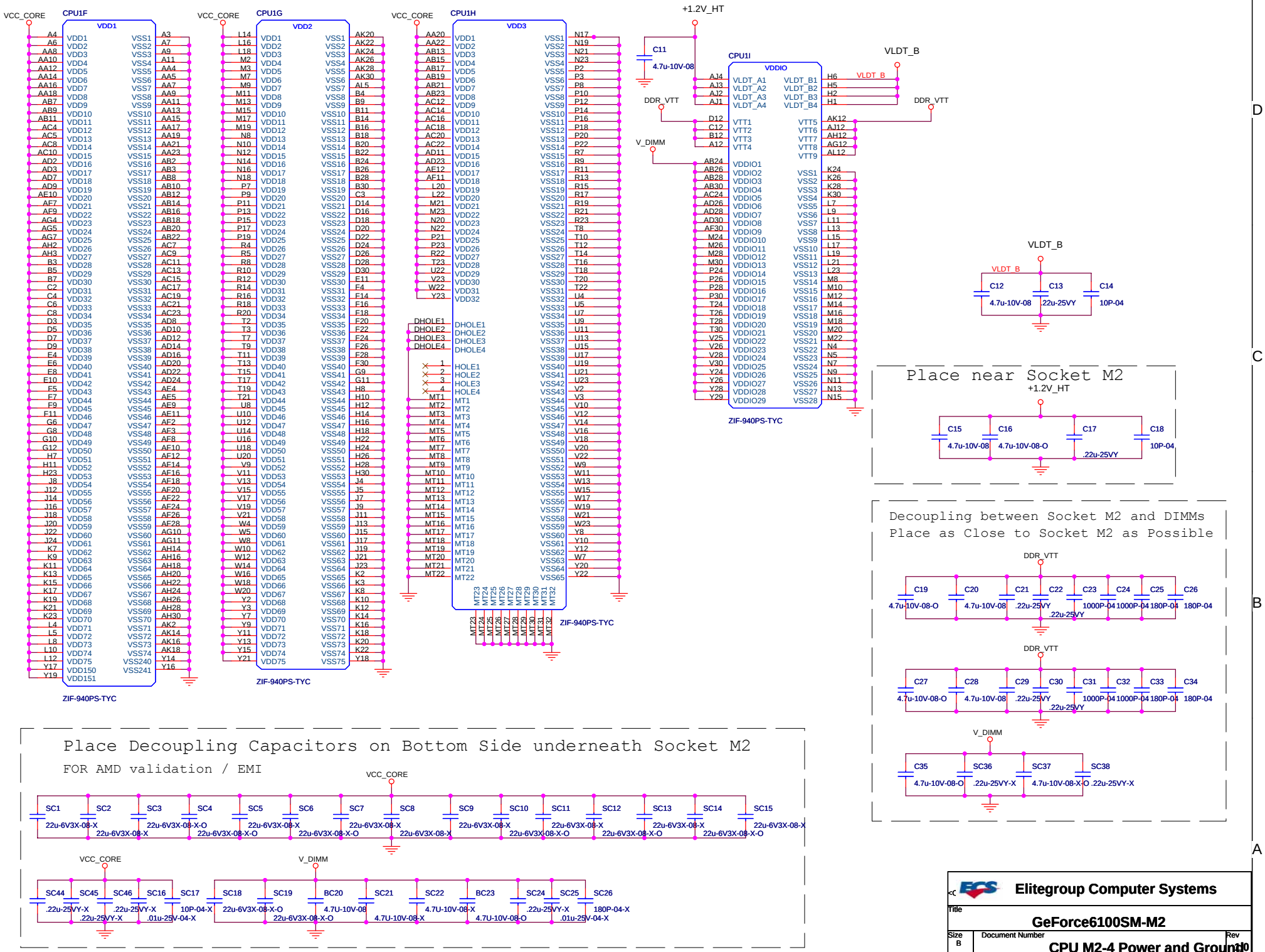


Elitegroup Computer Systems

Title: GeForce6100SM-M2

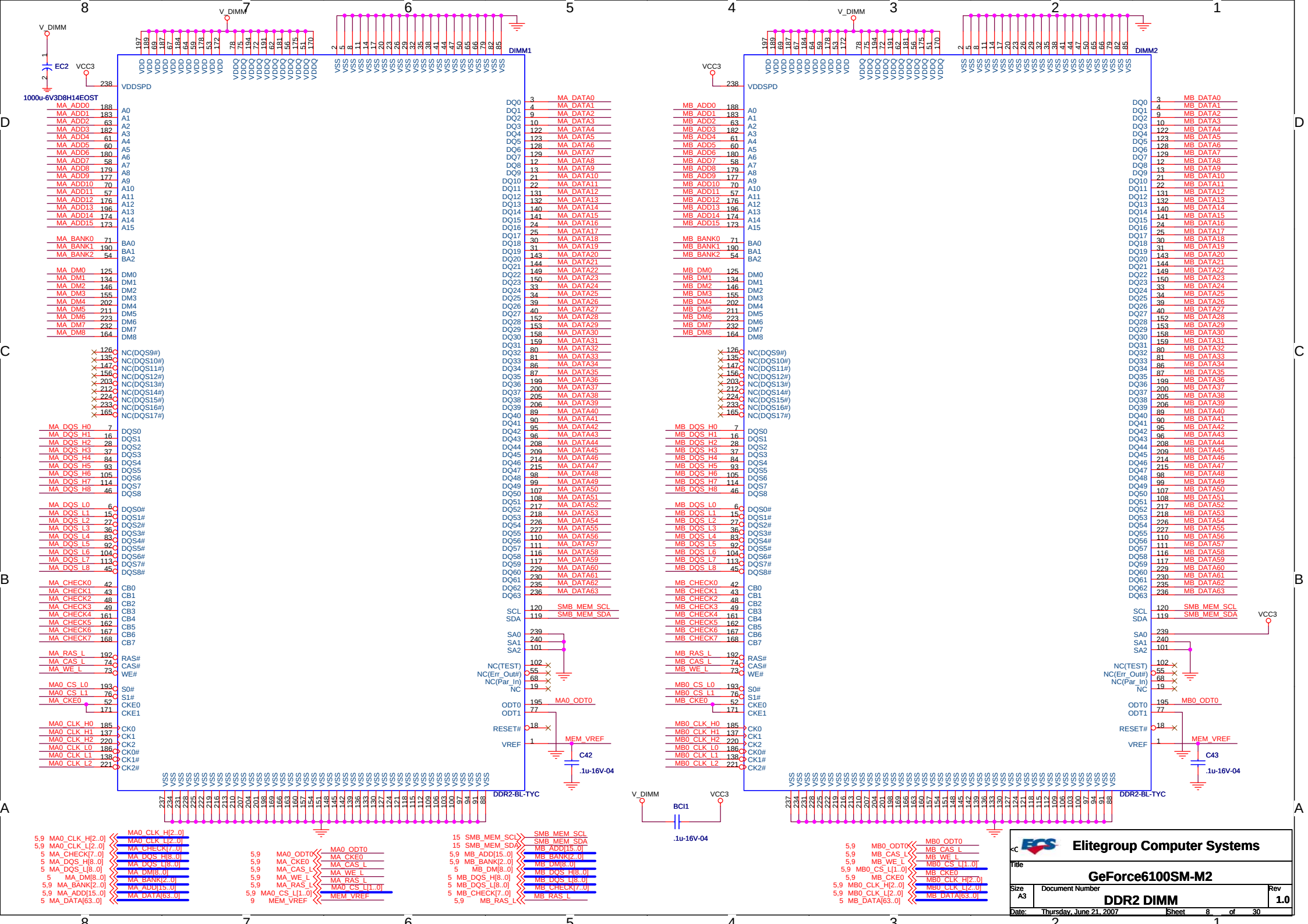
Size: B | Document Number: CPU M2-3 Miscellany | Rev: 1.0

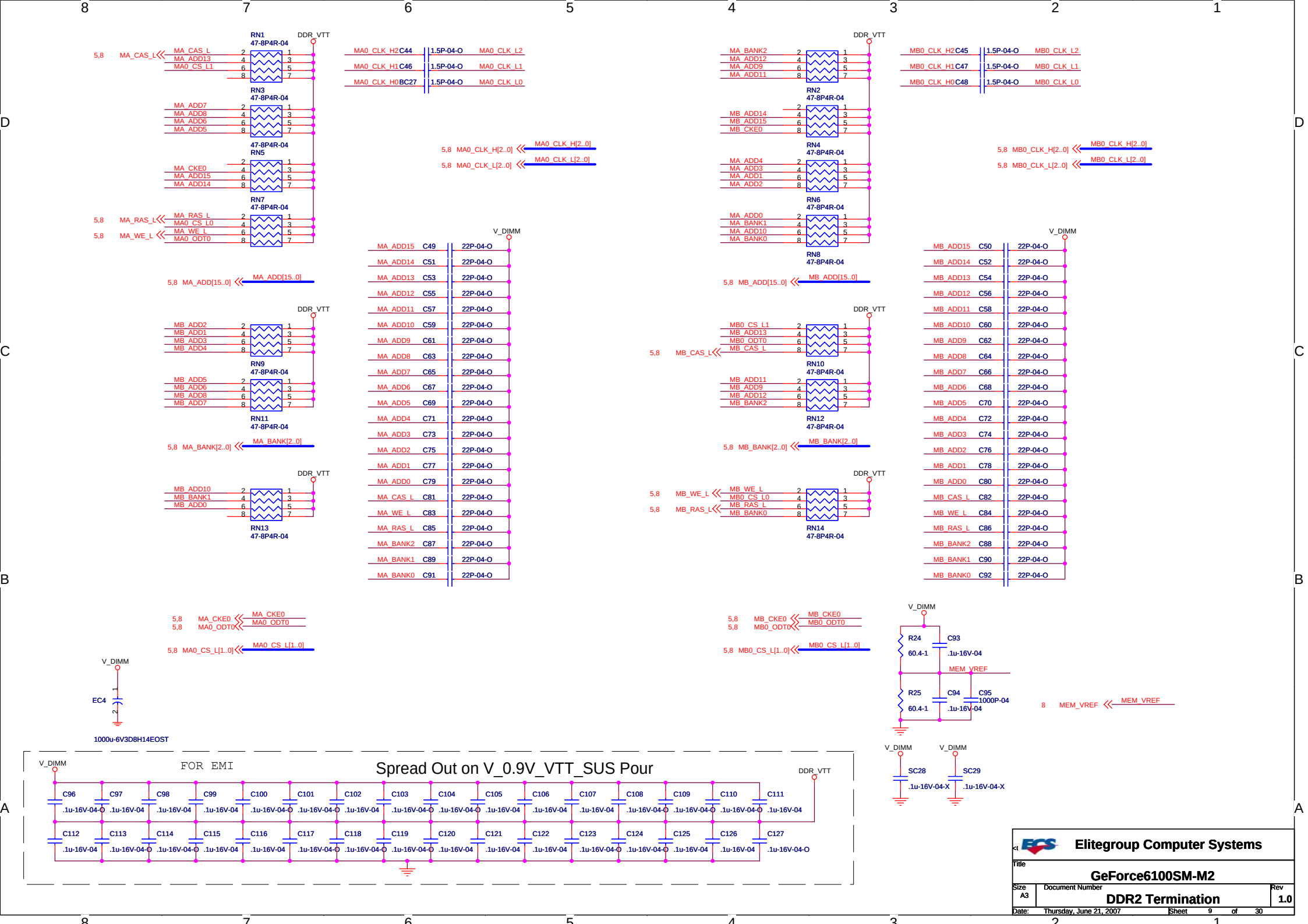
Date: Thursday, June 21, 2007 | Sheet 6 of 30

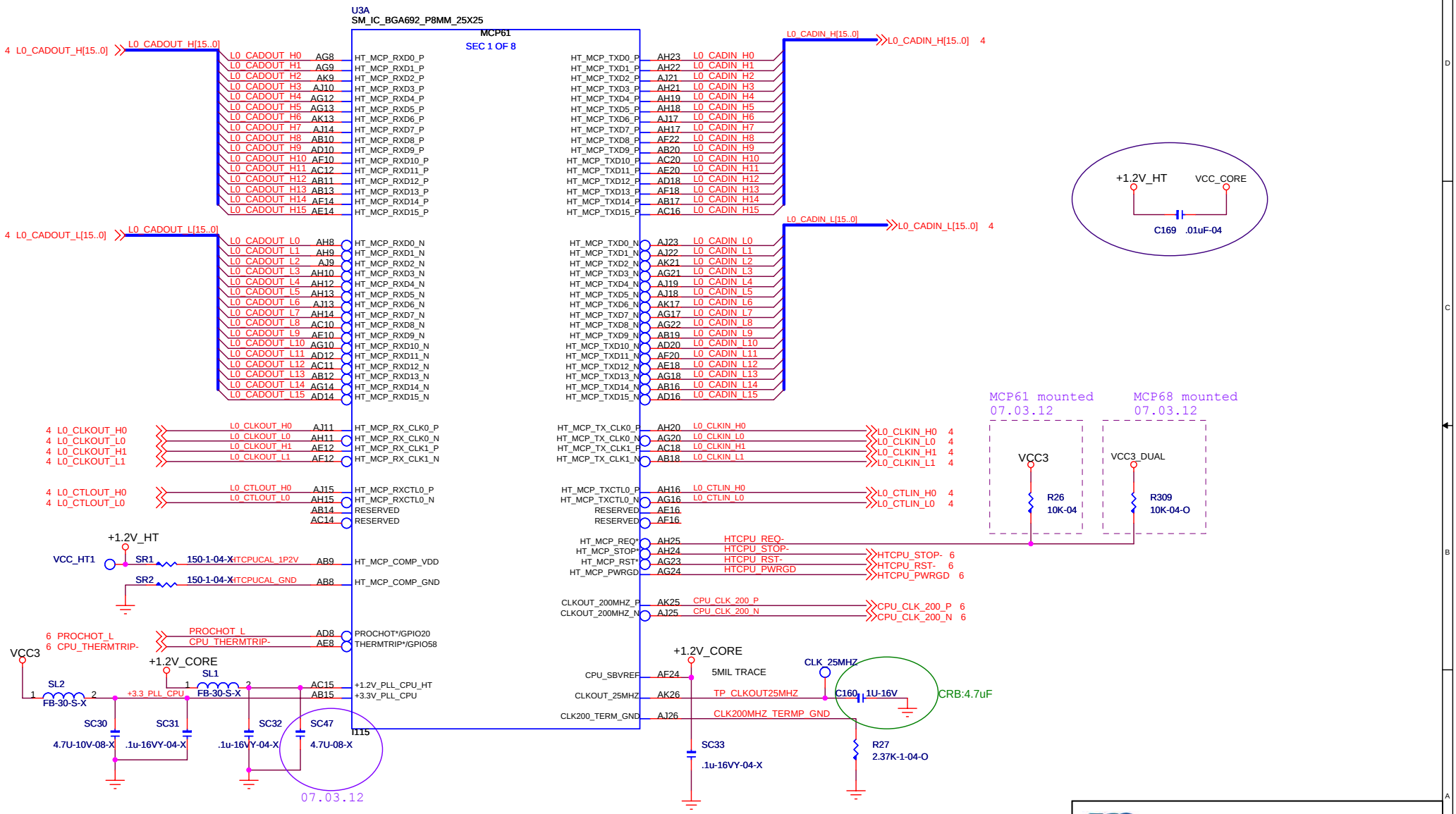


Title	GeForce6100SM-M2
Size	B
Document Number	CPU M2-4 Power and Ground
Rev	1.0
Date:	Thursday, June 21, 2007
Sheet	7 of 30

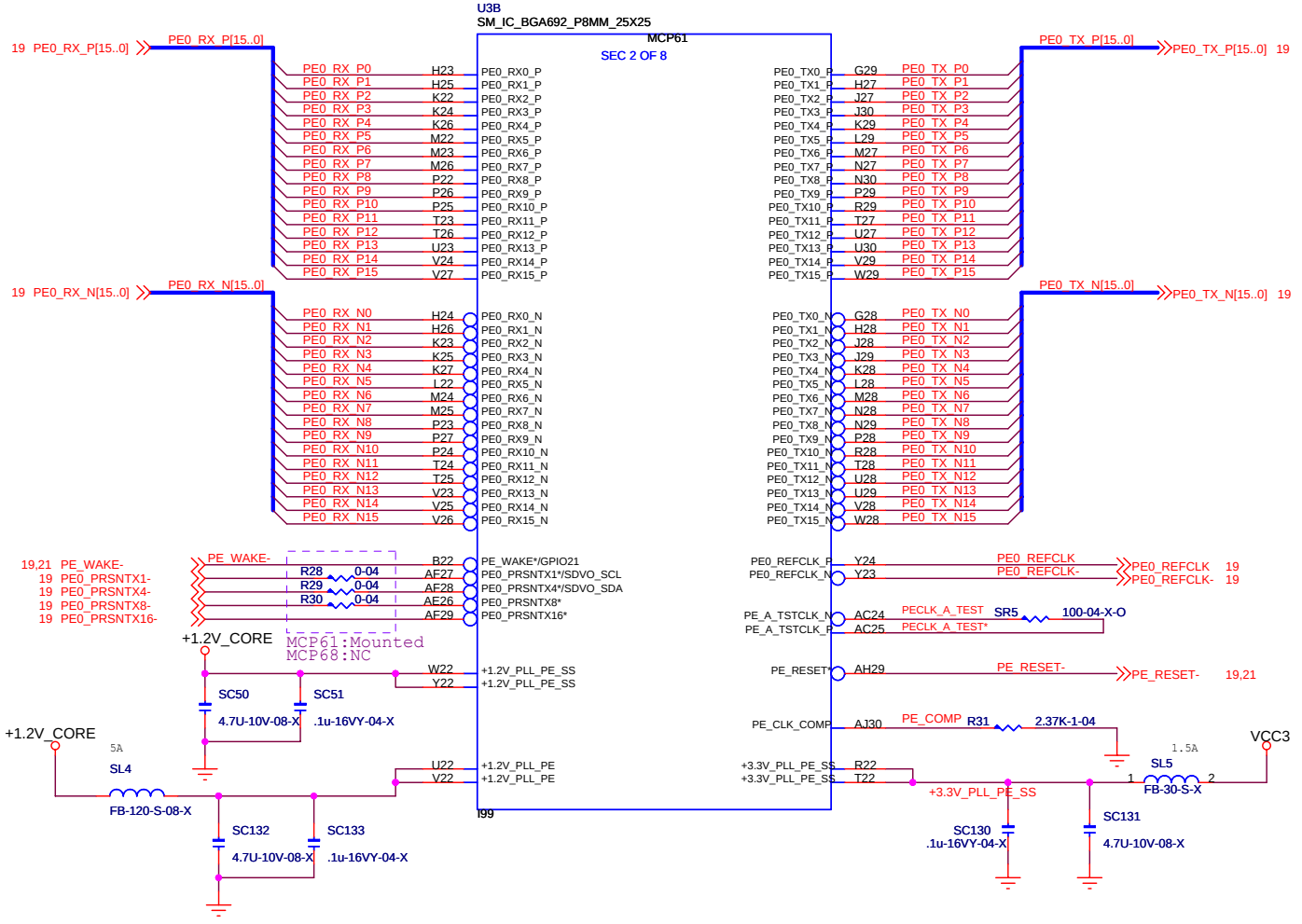
Elitegroup Computer Systems


DIMM1
DIMM2
DDR2-BL-TYC
V_DIMM
VCC3
EC2
1000u-6V3D8H14EOST
BCI1
.1u-16V-04
C42
C43
MEM_VREF
VDDSPD
SMB_MEM_SCL
SMB_MEM_SDA
MA0_ODT0
MB0_ODT0
NC(TEST)
NC(Err_Out#)
NC(Par_In)
NC
RESET#
MA_ADD0
MA_ADD1
MA_ADD2
MA_ADD3
MA_ADD4
MA_ADD5
MA_ADD6
MA_ADD7
MA_ADD8
MA_ADD9
MA_ADD10
MA_ADD11
MA_ADD12
MA_ADD13
MA_ADD14
MA_ADD15
MA_BANK0
MA_BANK1
MA_BANK2
MA_DM0
MA_DM1
MA_DM2
MA_DM3
MA_DM4
MA_DM5
MA_DM6
MA_DM7
MA_DM8
MA_DQS_H0
MA_DQS_H1
MA_DQS_H2
MA_DQS_H3
MA_DQS_H4
MA_DQS_H5
MA_DQS_H6
MA_DQS_H7
MA_DQS_H8
MA_DQS_L0
MA_DQS_L1
MA_DQS_L2
MA_DQS_L3
MA_DQS_L4
MA_DQS_L5
MA_DQS_L6
MA_DQS_L7
MA_DQS_L8
MA_CHECK0
MA_CHECK1
MA_CHECK2
MA_CHECK3
MA_CHECK4
MA_CHECK5
MA_CHECK6
MA_CHECK7
MA_RAS_L
MA_CAS_L
MA_WE_L
MA0_CS_L0
MA0_CS_L1
MA_CKE0
MA0_CLK_H0
MA0_CLK_H1
MA0_CLK_H2
MA0_CLK_L0
MA0_CLK_L1
MA0_CLK_L2
MA_DATA0
MA_DATA1
MA_DATA2
MA_DATA3
MA_DATA4
MA_DATA5
MA_DATA6
MA_DATA7
MA_DATA8
MA_DATA9
MA_DATA10
MA_DATA11
MA_DATA12
MA_DATA13
MA_DATA14
MA_DATA15
MA_DATA16
MA_DATA17
MA_DATA18
MA_DATA19
MA_DATA20
MA_DATA21
MA_DATA22
MA_DATA23
MA_DATA24
MA_DATA25
MA_DATA26
MA_DATA27
MA_DATA28
MA_DATA29
MA_DATA30
MA_DATA31
MA_DATA32
MA_DATA33
MA_DATA34
MA_DATA35
MA_DATA36
MA_DATA37
MA_DATA38
MA_DATA39
MA_DATA40
MA_DATA41
MA_DATA42
MA_DATA43
MA_DATA44
MA_DATA45
MA_DATA46
MA_DATA47
MA_DATA48
MA_DATA49
MA_DATA50
MA_DATA51
MA_DATA52
MA_DATA53
MA_DATA54
MA_DATA55
MA_DATA56
MA_DATA57
MA_DATA58
MA_DATA59
MA_DATA60
MA_DATA61
MA_DATA62
MA_DATA63
MB_ADD0
MB_ADD1
MB_ADD2
MB_ADD3
MB_ADD4
MB_ADD5
MB_ADD6
MB_ADD7
MB_ADD8
MB_ADD9
MB_ADD10
MB_ADD11
MB_ADD12
MB_ADD13
MB_ADD14
MB_ADD15
MB_BANK0
MB_BANK1
MB_BANK2
MB_DM0
MB_DM1
MB_DM2
MB_DM3
MB_DM4
MB_DM5
MB_DM6
MB_DM7
MB_DM8
MB_DQS_H0
MB_DQS_H1
MB_DQS_H2
MB_DQS_H3
MB_DQS_H4
MB_DQS_H5
MB_DQS_H6
MB_DQS_H7
MB_DQS_H8
MB_DQS_L0
MB_DQS_L1
MB_DQS_L2
MB_DQS_L3
MB_DQS_L4
MB_DQS_L5
MB_DQS_L6
MB_DQS_L7
MB_DQS_L8
MB_CHECK0
MB_CHECK1
MB_CHECK2
MB_CHECK3
MB_CHECK4
MB_CHECK5
MB_CHECK6
MB_CHECK7
MB_RAS_L
MB_CAS_L
MB_WE_L
MB0_CS_L0
MB0_CS_L1
MB_CKE0
MB0_CLK_H0
MB0_CLK_H1
MB0_CLK_H2
MB0_CLK_L0
MB0_CLK_L1
MB0_CLK_L2
MB_DATA0
MB_DATA1
MB_DATA2
MB_DATA3
MB_DATA4
MB_DATA5
MB_DATA6
MB_DATA7
MB_DATA8
MB_DATA9
MB_DATA10
MB_DATA11
MB_DATA12
MB_DATA13
MB_DATA14
MB_DATA15
MB_DATA16
MB_DATA17
MB_DATA18
MB_DATA19
MB_DATA20
MB_DATA21
MB_DATA22
MB_DATA23
MB_DATA24
MB_DATA25
MB_DATA26
MB_DATA27
MB_DATA28
MB_DATA29
MB_DATA30
MB_DATA31
MB_DATA32
MB_DATA33
MB_DATA34
MB_DATA35
MB_DATA36
MB_DATA37
MB_DATA38
MB_DATA39
MB_DATA40
MB_DATA41
MB_DATA42
MB_DATA43
MB_DATA44
MB_DATA45
MB_DATA46
MB_DATA47
MB_DATA48
MB_DATA49
MB_DATA50
MB_DATA51
MB_DATA52
MB_DATA53
MB_DATA54
MB_DATA55
MB_DATA56
MB_DATA57
MB_DATA58
MB_DATA59
MB_DATA60
MB_DATA61
MB_DATA62
MB_DATA63
5,9 MA0_CLK_H[2..0]
5,9 MA0_CLK_L[2..0]
5 MA_CHECK[7..0]
5 MA_DQS_H[8..0]
5 MA_DQS_L[8..0]
5 MA_DM[8..0]
5,9 MA_BANK[2..0]
5,9 MA_ADD[15..0]
5 MA_DATA[63..0]
5,9 MA0_ODT0
5,9 MA_CKE0
5,9 MA_CAS_L
5,9 MA_WE_L
5,9 MA_RAS_L
5,9 MA0_CS_L[1..0]
9 MEM_VREF
15 SMB_MEM_SCL
15 SMB_MEM_SDA
5,9 MB_ADD[15..0]
5,9 MB_BANK[2..0]
5 MB_DM[8..0]
5 MB_DQS_H[8..0]
5 MB_DQS_L[8..0]
5 MB_CHECK[7..0]
5,9 MB_RAS_L
5,9 MB0_ODT0
5,9 MB_CAS_L
5,9 MB_WE_L
5,9 MB0_CS_L[1..0]
5,9 MB_CKE0
5,9 MB0_CLK_H[2..0]
5,9 MB0_CLK_L[2..0]
5 MB_DATA[63..0]
Elitegroup Computer Systems
Title
GeForce6100SM-M2
Size A3
Document Number
DDR2 DIMM
Rev 1.0
Date: Thursday, June 21, 2007
Sheet 8 of 30


RN1 47-8P4R-04
RN3 47-8P4R-04
RN5 47-8P4R-04
RN7 47-8P4R-04
RN9 47-8P4R-04
RN11 47-8P4R-04
RN13 47-8P4R-04
RN2 47-8P4R-04
RN4 47-8P4R-04
RN6 47-8P4R-04
RN8 47-8P4R-04
RN10 47-8P4R-04
RN12 47-8P4R-04
RN14 47-8P4R-04
DDR_VTT
V_DIMM
MA_CAS_L
MA_ADD13
MA0_CS_L1
MA_ADD7
MA_ADD8
MA_ADD6
MA_ADD5
MA_CKE0
MA_ADD15
MA_ADD14
MA_RAS_L
MA0_CS_L0
MA_WE_L
MA0_ODT0
MA_ADD[15..0]
MB_ADD2
MB_ADD1
MB_ADD3
MB_ADD4
MB_ADD5
MB_ADD6
MB_ADD8
MB_ADD7
MA_BANK[2..0]
MB_ADD10
MB_BANK1
MB_ADD0
MA0_CLK_H2 C44
MA0_CLK_H1 C46
MA0_CLK_H0 BC27
1.5P-04-O
MA0_CLK_L2
MA0_CLK_L1
MA0_CLK_L0
MA0_CLK_H[2..0]
MA0_CLK_L[2..0]
MA_ADD15 C49
MA_ADD14 C51
MA_ADD13 C53
MA_ADD12 C55
MA_ADD11 C57
MA_ADD10 C59
MA_ADD9 C61
MA_ADD8 C63
MA_ADD7 C65
MA_ADD6 C67
MA_ADD5 C69
MA_ADD4 C71
MA_ADD3 C73
MA_ADD2 C75
MA_ADD1 C77
MA_ADD0 C79
MA_CAS_L C81
MA_WE_L C83
MA_RAS_L C85
MA_BANK2 C87
MA_BANK1 C89
MA_BANK0 C91
22P-04-O
MA_CKE0
MA0_ODT0
MA0_CS_L[1..0]
EC4
1000u-6V3D8H14EOST
MB_BANK2
MB_ADD11
MB_ADD9
MB_ADD12
MB_BANK0
MB_CKE0
MB_CS_L1
MB_ADD13
MB0_ODT0
MB_CAS_L
MB_WE_L
MB0_CS_L0
MB_RAS_L
MB_BANK0
MB_ADD[15..0]
MB_BANK[2..0]
MB0_CLK_H2 C45
MB0_CLK_H1 C47
MB0_CLK_H0 C48
MB0_CLK_L2
MB0_CLK_L1
MB0_CLK_L0
MB0_CLK_H[2..0]
MB0_CLK_L[2..0]
MB_ADD15 C50
MB_ADD14 C52
MB_ADD13 C54
MB_ADD12 C56
MB_ADD11 C58
MB_ADD10 C60
MB_ADD9 C62
MB_ADD8 C64
MB_ADD7 C66
MB_ADD6 C68
MB_ADD5 C70
MB_ADD4 C72
MB_ADD3 C74
MB_ADD2 C76
MB_ADD1 C78
MB_ADD0 C80
MB_CAS_L C82
MB_WE_L C84
MB_RAS_L C86
MB_BANK2 C88
MB_BANK1 C90
MB_BANK0 C92
MB_CKE0
MB0_ODT0
MB0_CS_L[1..0]
R24 60.4-1
C93 .1u-16V-04
MEM_VREF
R25 60.4-1
C94 .1u-16V-04
C95 1000P-04
MEM_VREF
SC28 .1u-16V-04-X
SC29 .1u-16V-04-X
FOR EMI
Spread Out on V_0.9V_VTT_SUS Pour
C96 C97 C98 C99 C100 C101 C102 C103 C104 C105 C106 C107 C108 C109 C110 C111
C112 C113 C114 C115 C116 C117 C118 C119 C120 C121 C122 C123 C124 C125 C126 C127
.1u-16V-04
.1u-16V-04-O
Elitegroup Computer Systems
GeForce6100SM-M2
DDR2 Termination
Size A3
Document Number
Rev 1.0
Date: Thursday, June 21, 2007
Sheet 9 of 30



Elitegroup Computer Systems		
Title: GeForce6100SM-M2		
Size: B	Document Number: MCP61 HT	Rev: 1.0
Date: Thursday, June 21, 2007	Sheet 10 of 30	



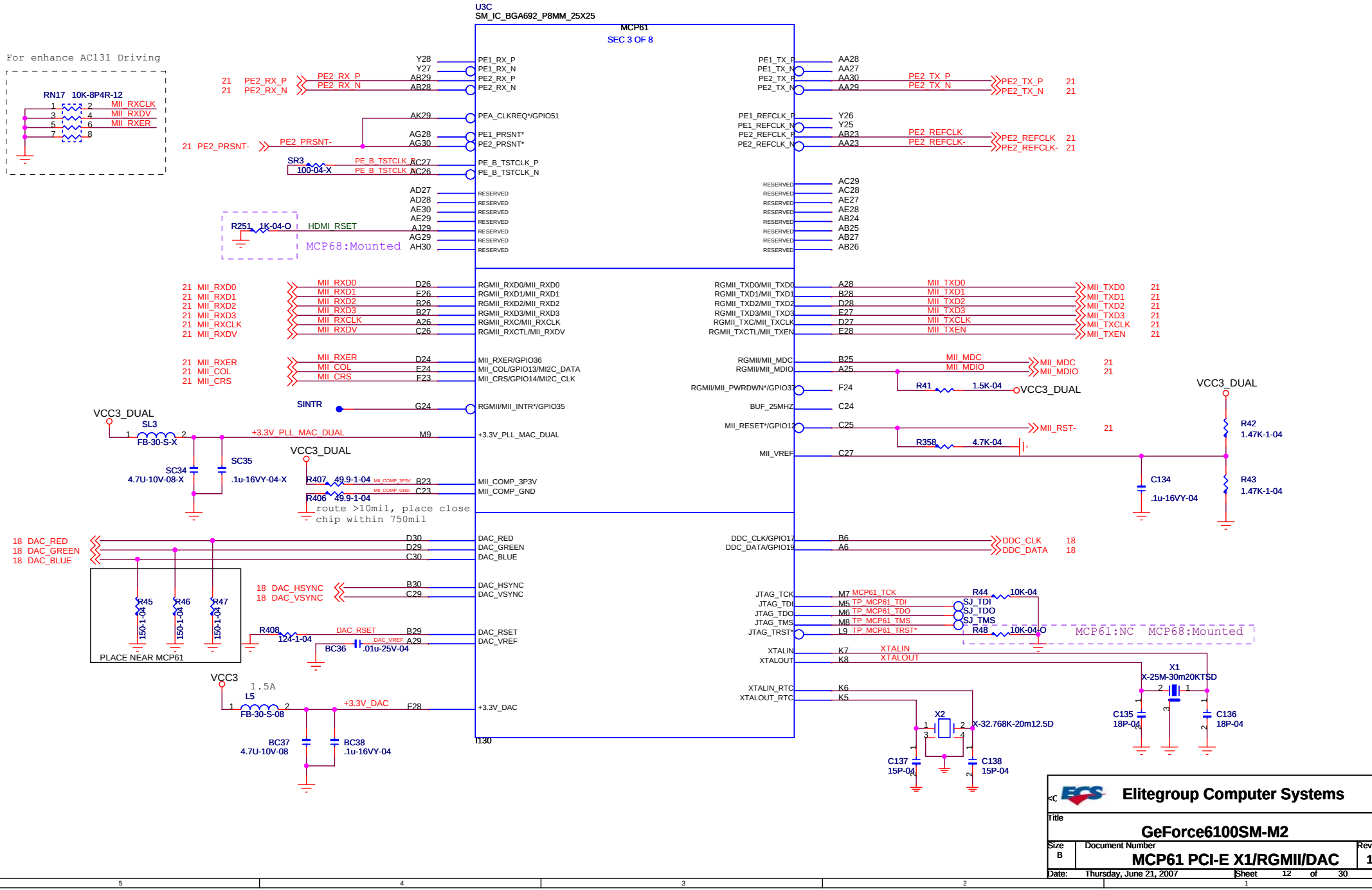
MCP61 Pin Define	MCP68 Pin Define
PRSNTX1(AF27)	+3.3V_HDMI_PLL_HVDD
PRSNTX4(AF28)	HDCP_ROM_SCLK
PRSNTX8(AE26)	+3.3V_HDMI
GND(AF30)	HDCP_ROM_SDATA

Elitegroup Computer Systems

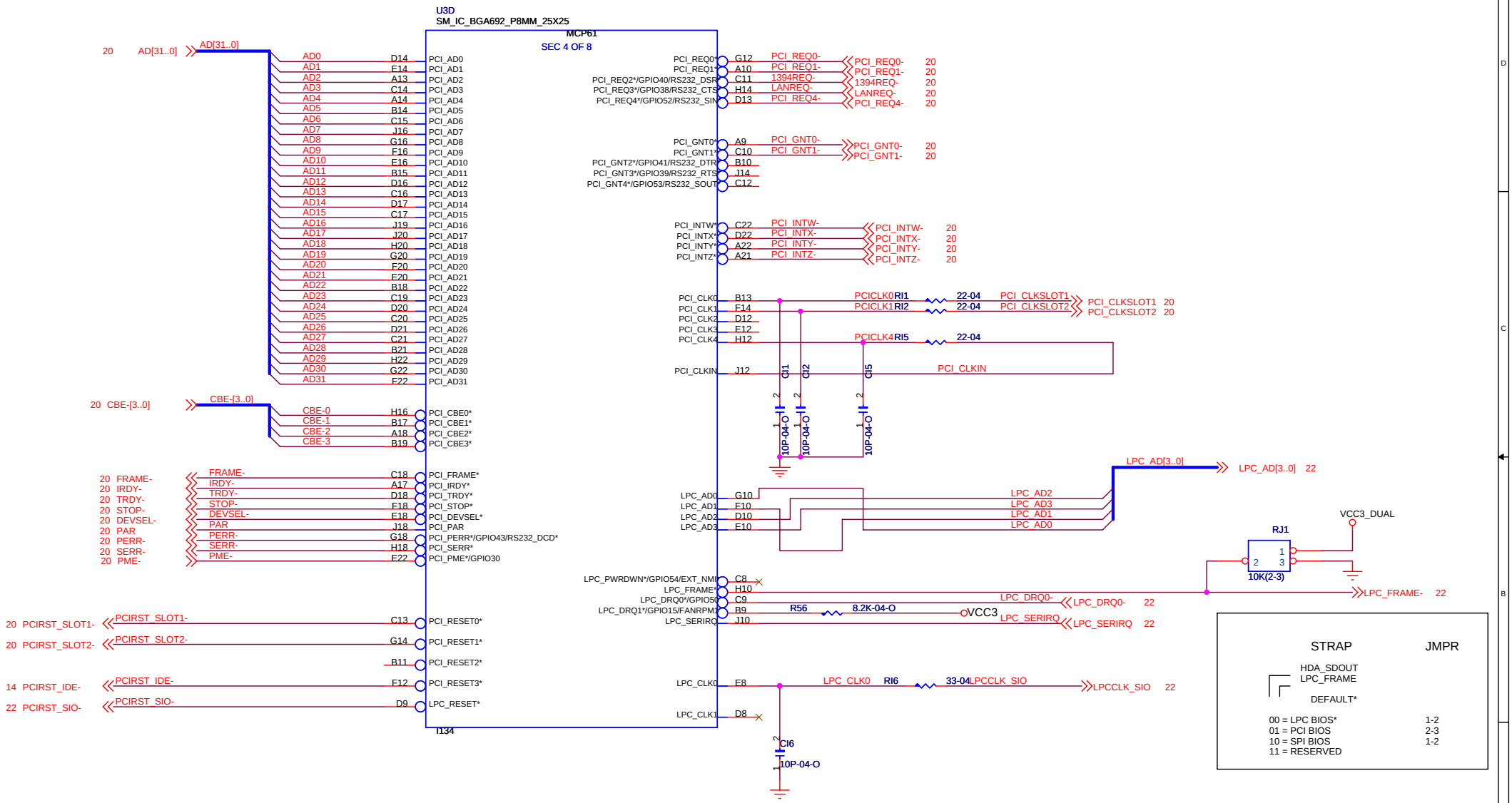
Title: GeForce6100SM-M2

Size: B | Document Number: MCP61 PCI-E X16 | Rev: 1.0

Date: Thursday, June 21, 2007 | Sheet 11 of 30



Elitegroup Computer Systems	
Title	GeForce6100SM-M2
Size B	Document Number MCP61 PCI-E X1/RGMII/DAC
Rev	1.0
Date: Thursday, June 21, 2007	Sheet 12 of 30

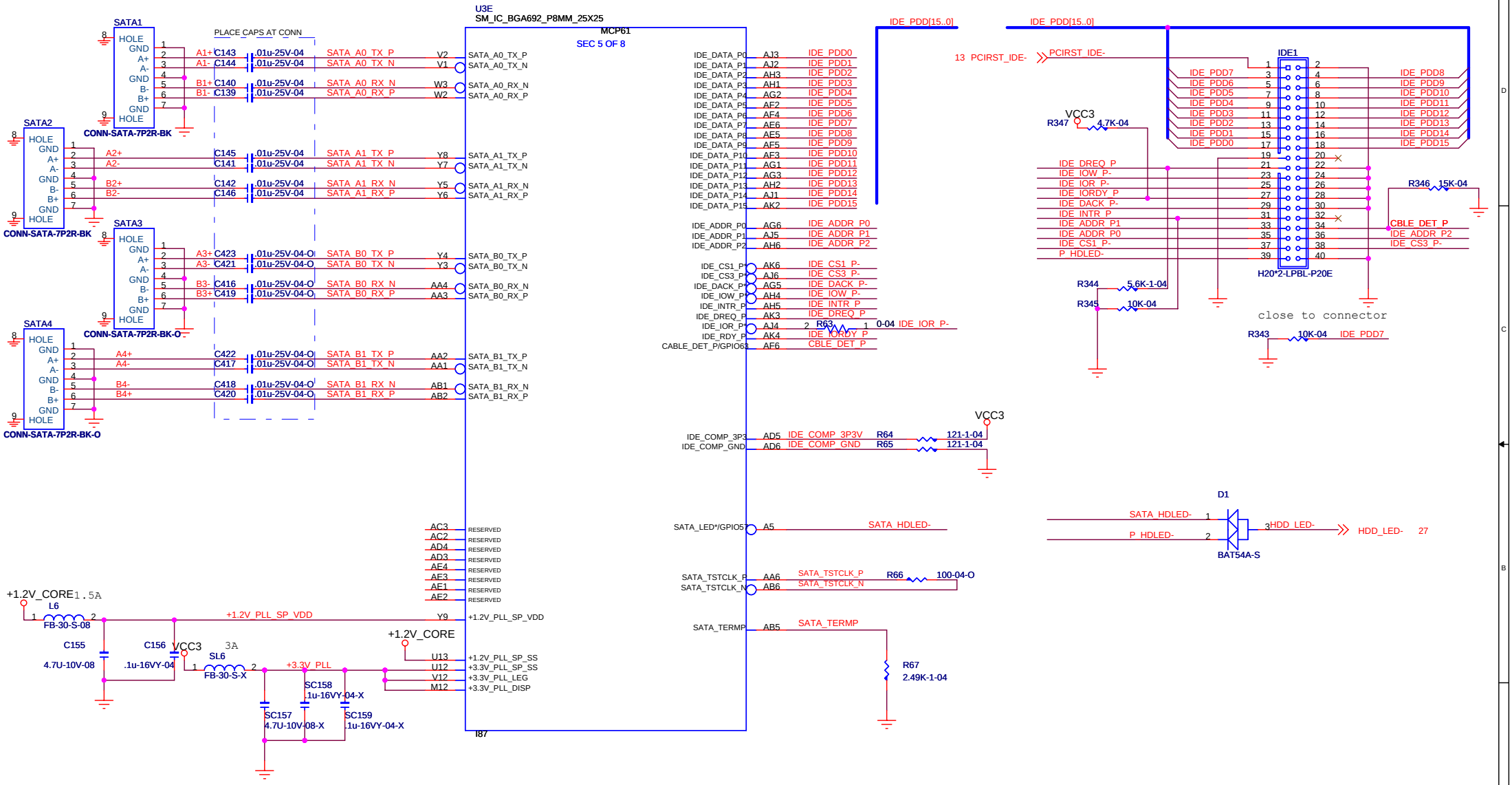


Elitegroup Computer Systems

Title: GeForce6100SM-M2

Size: Custom | Document Number: MCP61 PCI | Rev: 1.0

Date: Thursday, June 21, 2007 | Sheet 13 of 30



Elitegroup Computer Systems		
Title: GeForce6100SM-M2		
Size: B	Document Number: MCP61 SATA/IDE	Rev: 1.0
Date: Thursday, June 21, 2007	Sheet 14 of 30	

REMOVE FOR PRODUCTION

USB0~3 --> BACK CONNECTORS
USB4~11 --> ON-BOARD HEADER

Location Unimportant.

AC_RST*
1 = *RGMII
0 = MII

AC_SYNC
(SIO CLK)
1 = *24MHZ
0 = 14.318MHZ

* = DEFAULT

GPIO6 : HI--Pseudo S3
GPIO6 : LOW--Real S3

DO	CLK	SPI frequence
0	0	31MHz
0	1	42MHz
1	0	25MHz
1	1	1MHz

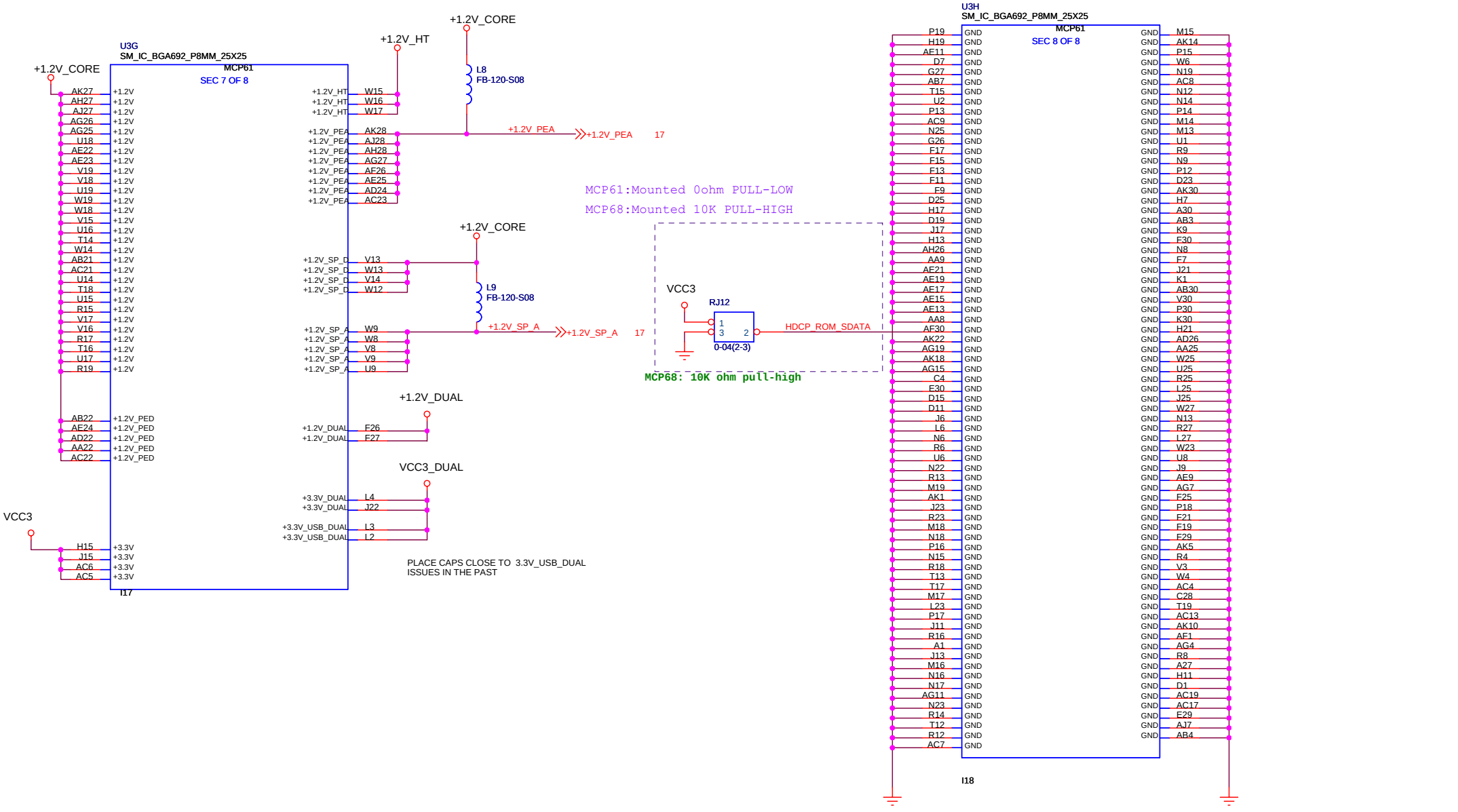
U3F
SM_IC_BGA692_P8MM_25X25
MCP61
SEC 6 OF 8

Elitegroup Computer Systems

Title: GeForce6100SM-M2

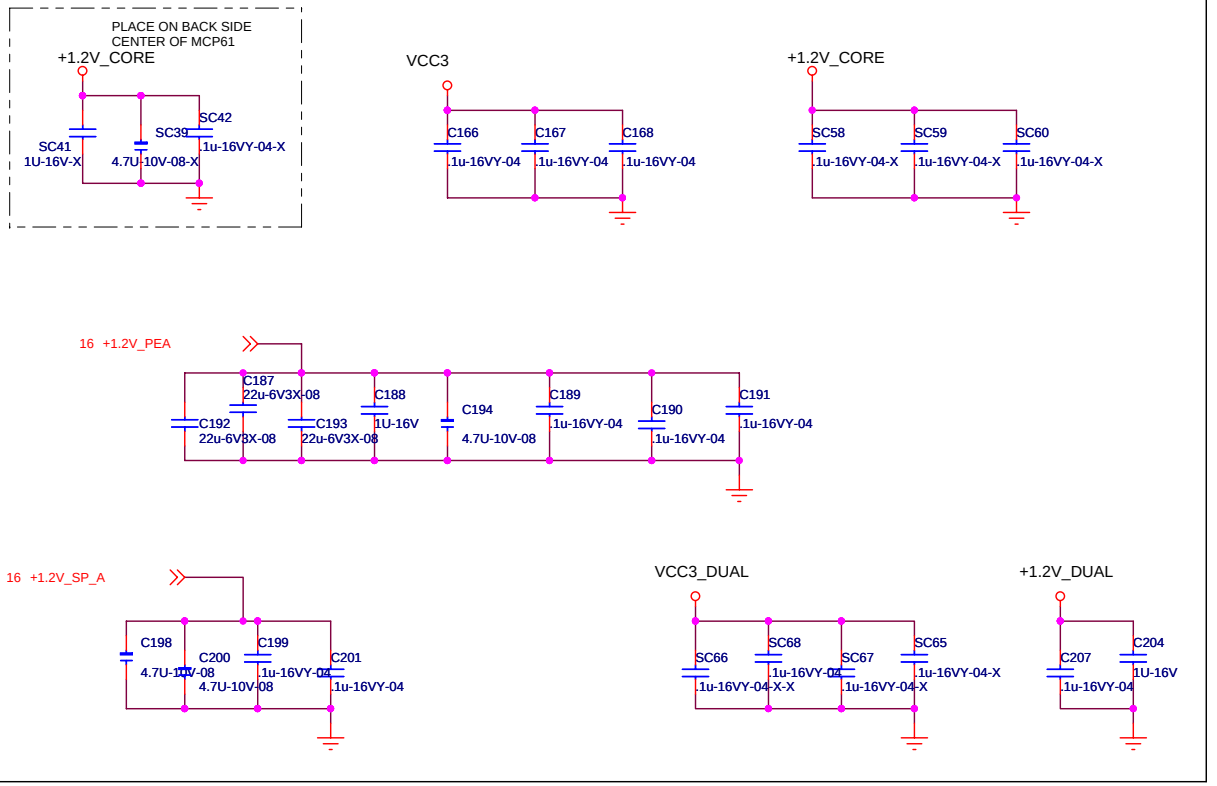
Size: B | Document Number: MCP61 AUDIO/USB/MISC | Rev: 1.0

Date: Thursday, June 21, 2007 | Sheet 15 of 30



Elitegroup Computer Systems	
Title	GeForce6100SM-M2
Size B	Document Number: MCP61 PWR/GND
Rev	1.0
Date: Thursday, June 21, 2007	Sheet 16 of 30

MCP61/8 DECOUPLING/EMI



MCP61 INTERNAL PULL-UP/DWN'S

PE0_PRSNTX16*	10K PU TO 3.3V
PE0_PRSNTX8*	10K PU TO 3.3V
PE1_PRSNT*	10K PU TO 3.3V
PE2_PRSNT*	10K PU TO 3.3V
PE1_CLKREQ*	10K PU TO 3.3V
PCI_PME*/GPIO_30	8.2K PU TO 3.3V_DUAL
LPC_AD0	8.2K PU TO 3.3V
LPC_AD1	8.2K PU TO 3.3V
LPC_AD2	8.2K PU TO 3.3V
LPC_AD3	8.2K PU TO 3.3V
LPC_DRQ1/LPC_CS*	8.2K PU TO 3.3V
LPC_DRQ0*	8.2K PU TO 3.3V
LPC_SERIRQ	10K PU TO 3.3V
HDA_SDATA_IN1/GPIO_23/MGPIO_0	10K PD TO GND
HDA_SDATA_IN0/GPIO_22	10K PD TO GND
JTAG_TMS	10K PU TO 3.3V
JTAG_TRST*	10K PD TO GND
JTAG_TDI	10K PU TO 3.3V
A20GATE	10K PU TO 3.3V
PE_WAKE*	10K PU TO 3.3V_DUAL
EXT_SMI*/GPIO32	10K PU TO 3.3V_DUAL
THERM*/GPIO_59	10K PU TO 3.3V
KBRDRSTIN*/GPIO_58	10K PU TO 3.3V
RI*/GPIO_33	10K PU TO 3.3V_DUAL
SIO_PME*/GPIO_31/MGPIO_2	10K PU TO 3.3V_DUAL
PWRBTN*	10K PU TO 3.3V_DUAL
RSTBTN*	10K PU TO 3.3V_DUAL

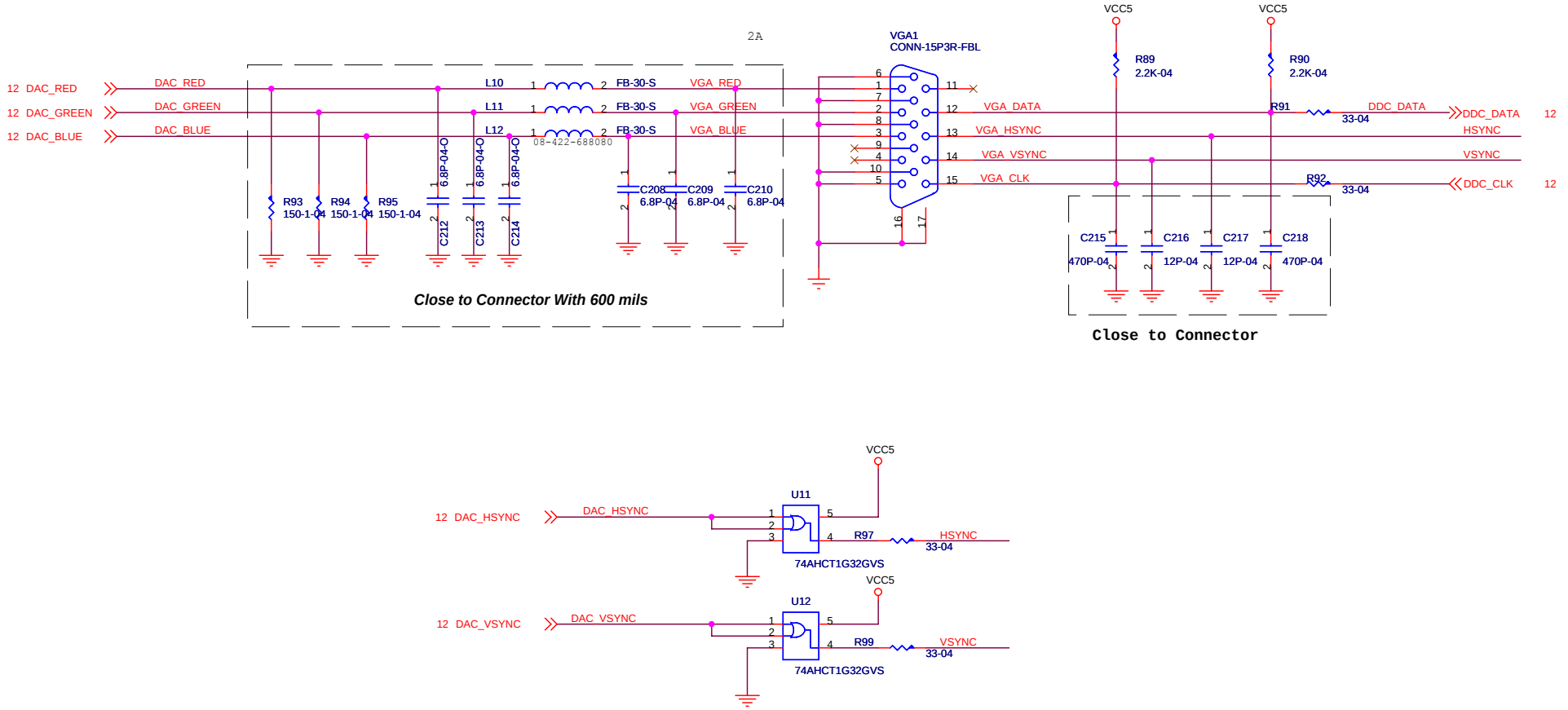
MCP61 SPI CLK STRAP	MCP68 SPI CLK STRAP
SPI_DO | SPI_CLK	SPI_DO | SPI_CLK
00 = 500KHZ	00 = 31MHZ
01 = 1.8MHZ	01 = 42MHZ
10 = 2.5MHZ	*10 = 25MHZ
*11 = 25MHZ	11 = 1MHZ
*DEFAULT	*DEFAULT

Elitegroup Computer Systems

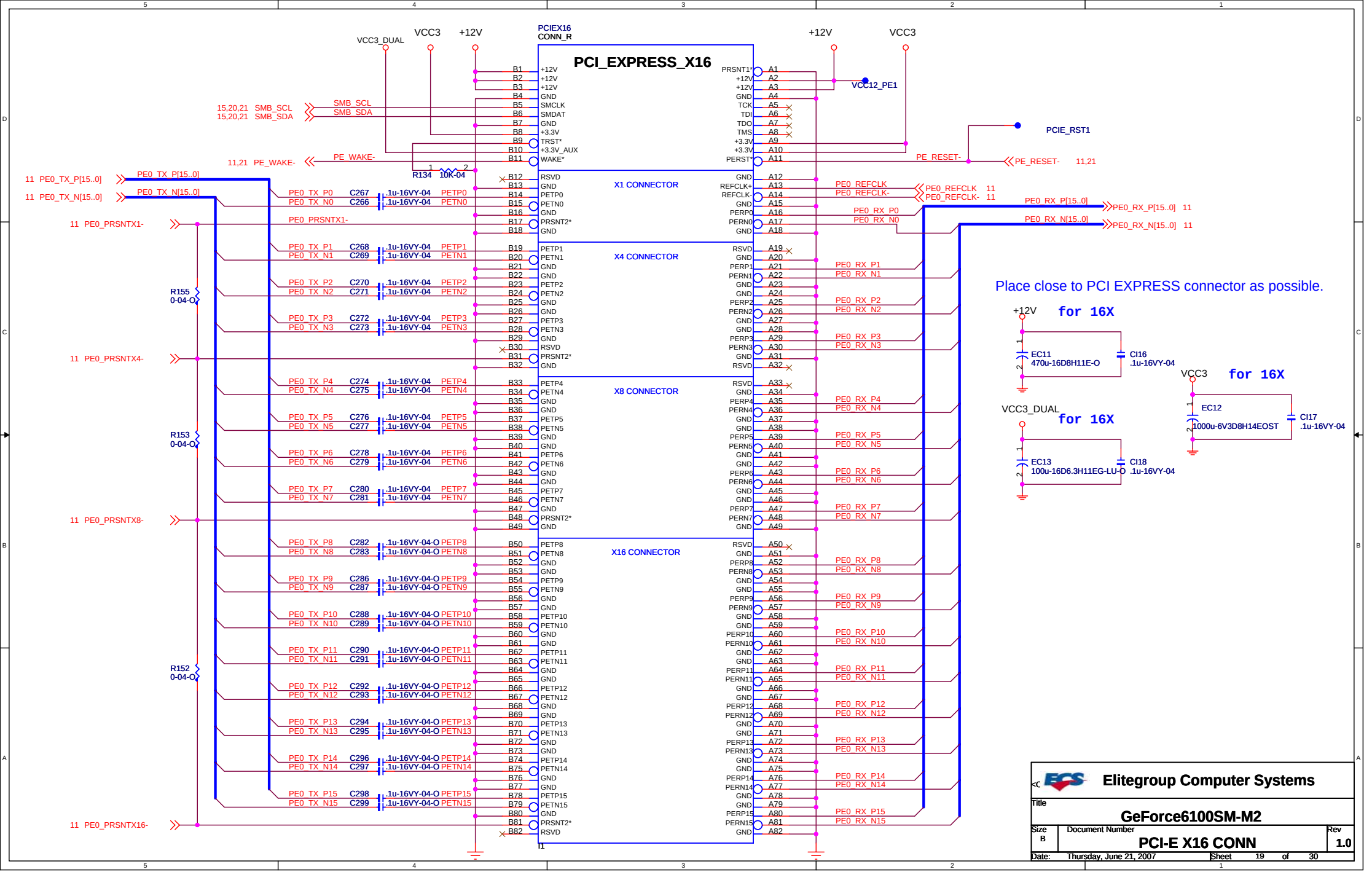
Title: GeForce6100SM-M2

Size: B | Document Number: MCP61 SATA / IDE / CONN | Rev: 1.0

Date: Thursday, June 21, 2007 | Sheet 17 of 30



Elitegroup Computer Systems		
Title: GeForce6100SM-M2		
Size: B	Document Number: VGA	Rev: 1.0
Date: Thursday, June 21, 2007	Sheet 18 of 30	



Company	Elitegroup Computer Systems
Title	GeForce6100SM-M2
Size	B
Document Number	PCI-E X16 CONN
Rev	1.0
Date	Thursday, June 21, 2007
Sheet	19 of 30

PCI Slot 1 & 2

13 CBE-[0..3]
13 AD[0..31]

EC14 1000u-6V3D8H14EOST-O
EC15 1000u-6V3D8H14EOST

PCI1

AD21 WXYZ

PCI2

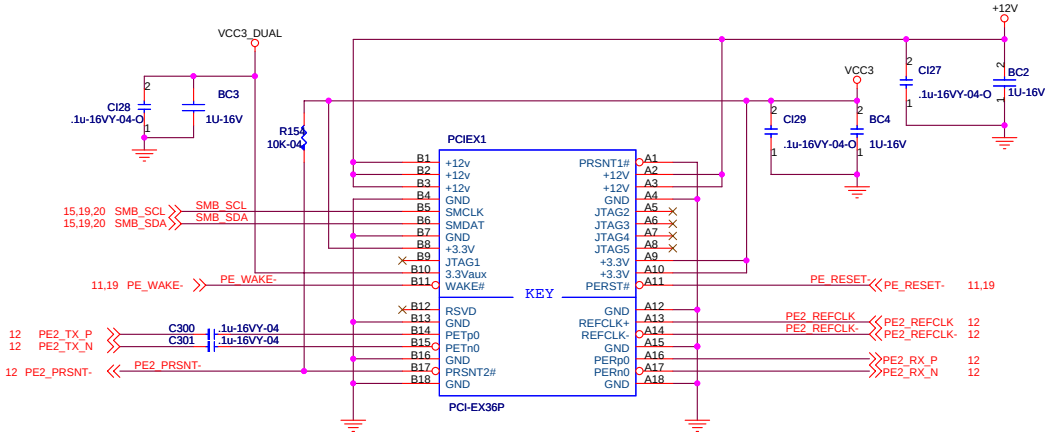
AD22 XYZW

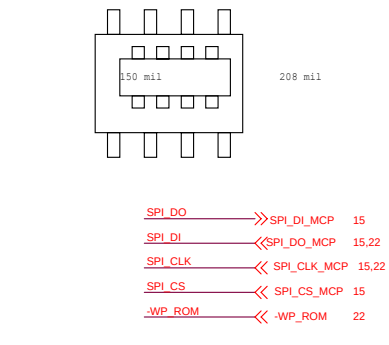
CI20 10P-04
CI19 10P-04
CI21 1U-16V-O
CI24 1U-16V-O
CI26 1U-16V-O

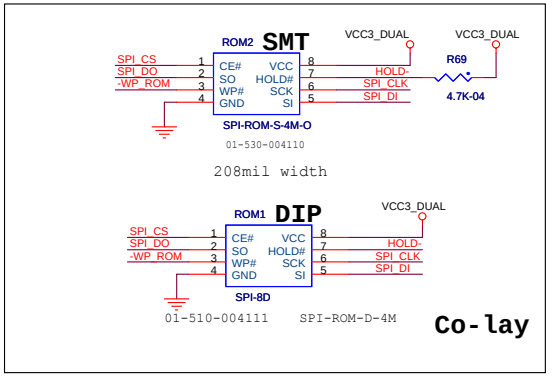
R140 100-04
R141 100-04

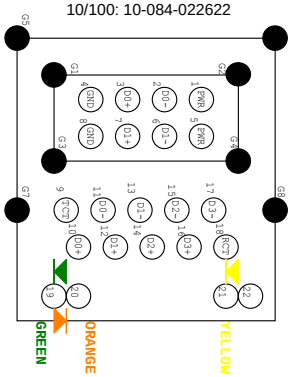
RN22 8.2K-8P4R-12
RN23 8.2K-8P4R-12
RN24 8.2K-8P4R-12
RN25 8.2K-8P4R-12
RN29 8.2K-8P4R-12
RN30 8.2K-8P4R-12
RN18 4.7K-8P4R-12

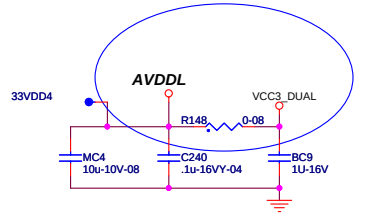
Elitegroup Computer Systems	
Title	GeForce6100SM-M2
Size: Custom	Document Number: C61M-M
Rev	1.0
Date: Thursday, June 21, 2007	Sheet 20 of 30

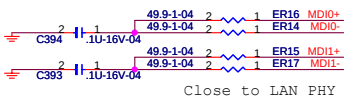


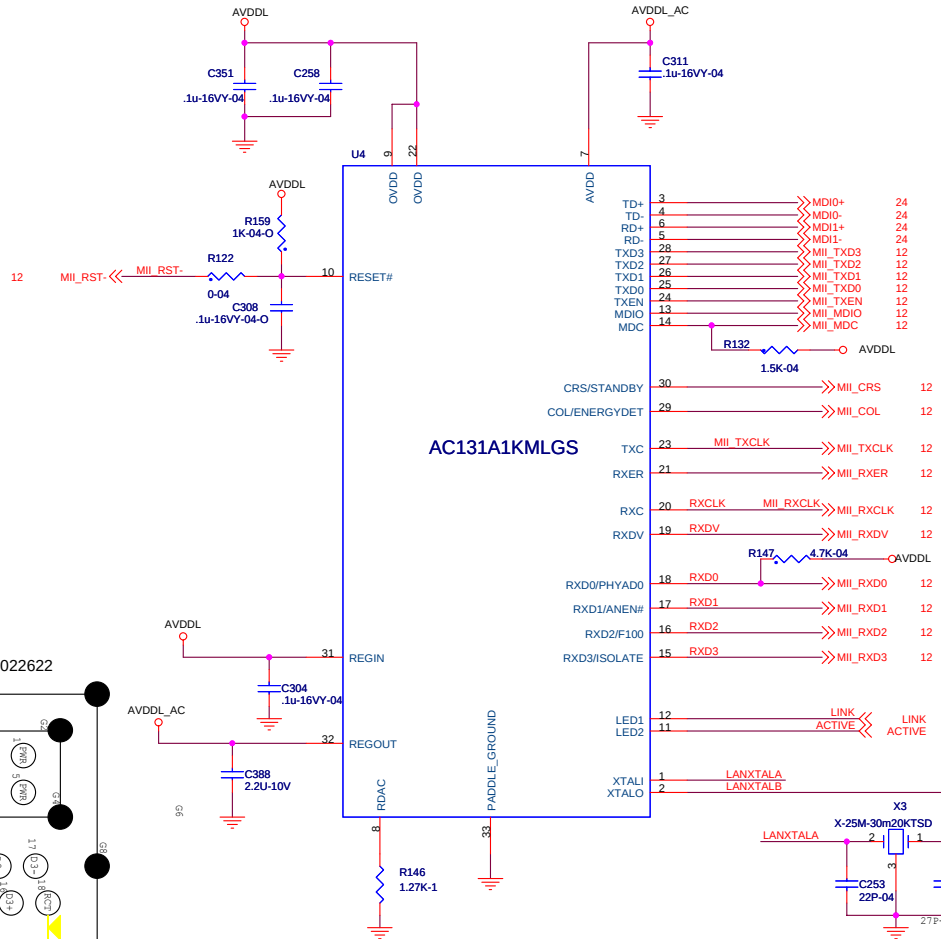




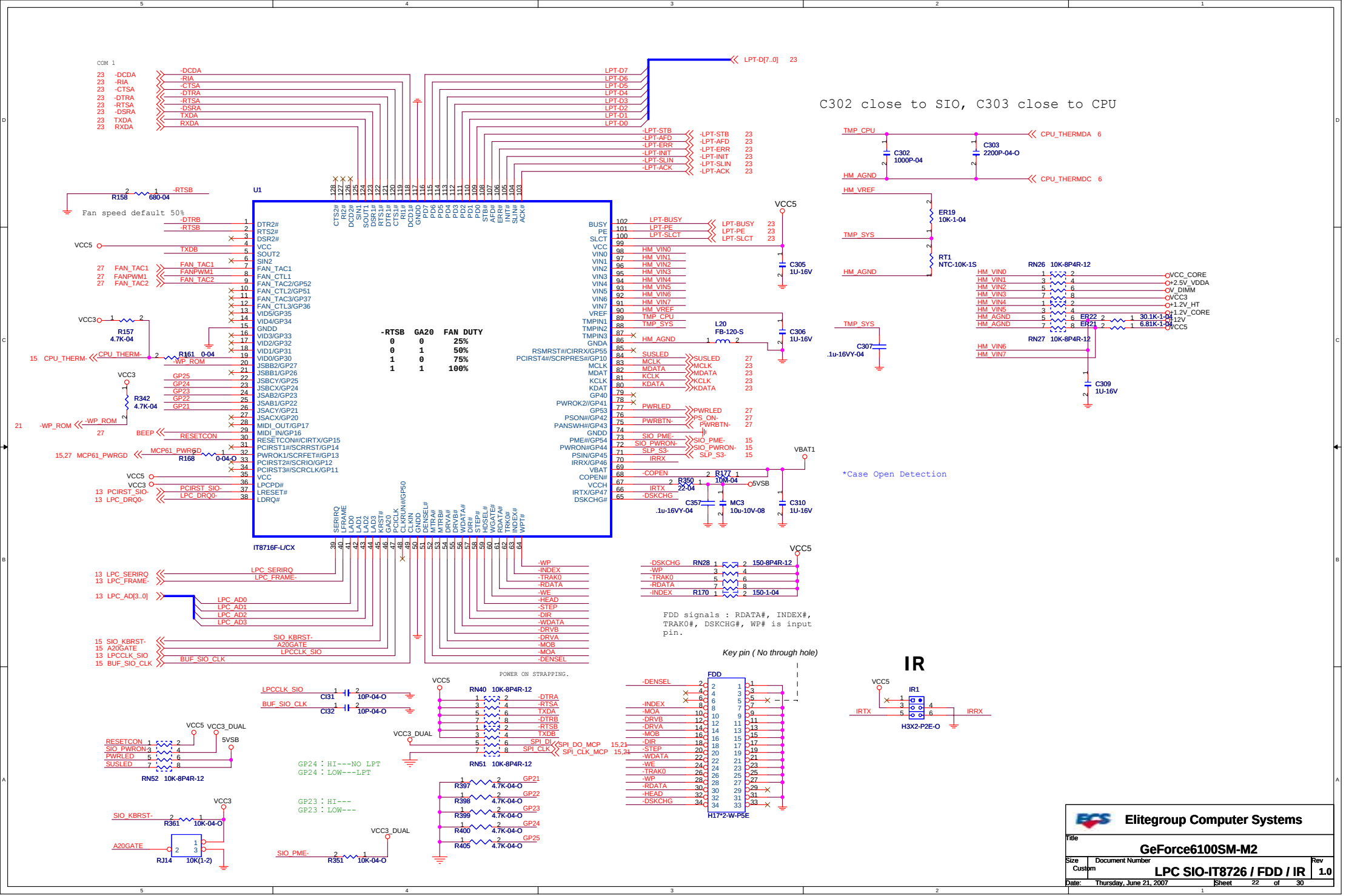


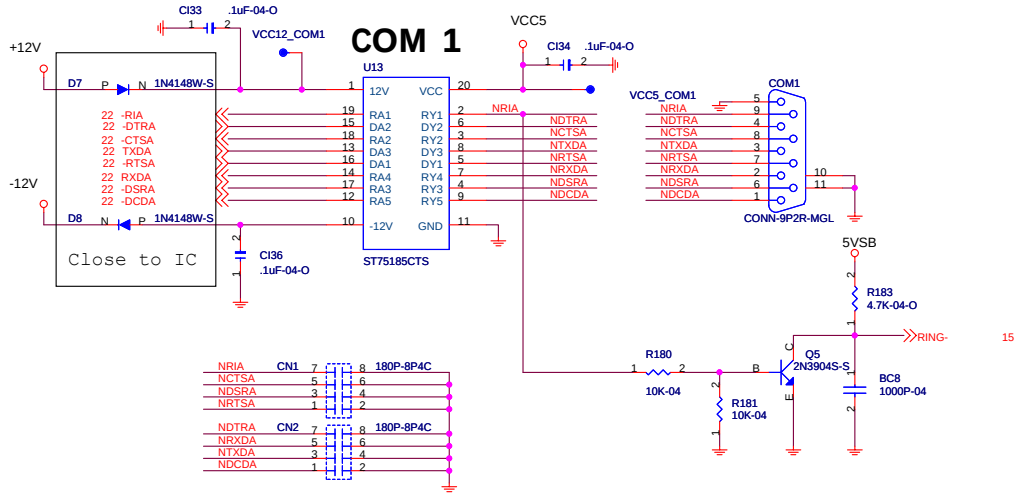


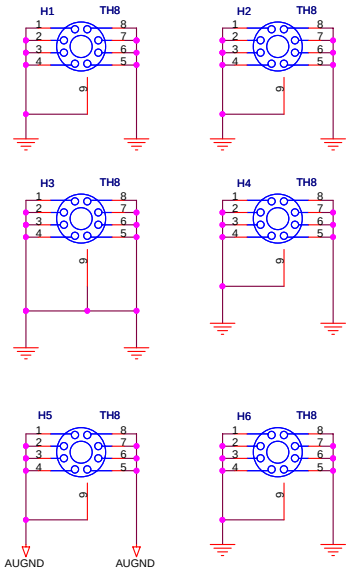


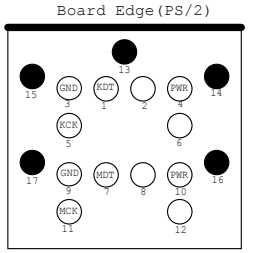


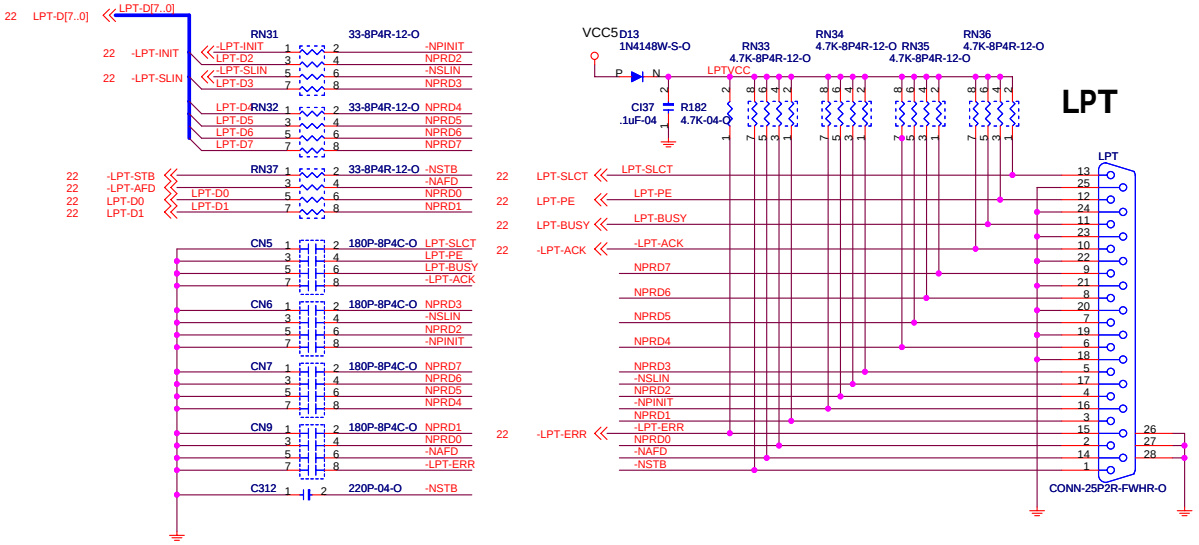
Elitegroup Computer Systems		
Title	GeForce6100SM-M2	
Size: Custom	Document Number: PCI-E X1/AC131/SPI	Rev: 1.0
Date: Thursday, June 21, 2007	Sheet 21 of 30	

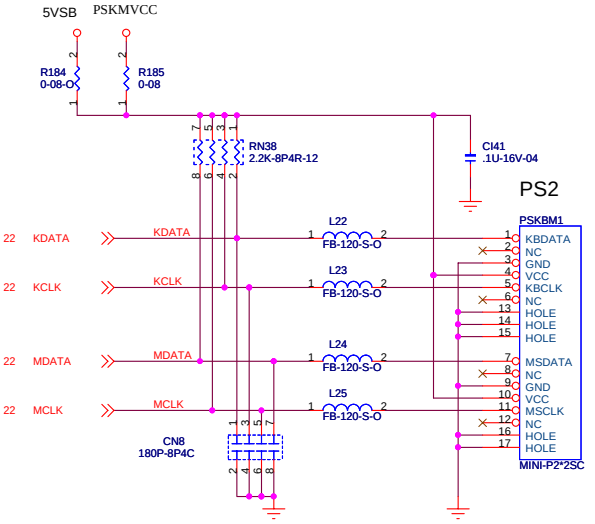

COM 1
-DCDA
-RIA
-CTSA
-DTRA
-RTSA
-DSRA
TXDA
RXDA
LPT-D[7..0]
LPT-D7
LPT-D6
LPT-D5
LPT-D4
LPT-D3
LPT-D2
LPT-D1
LPT-D0
-LPT-STB
-LPT-AFD
-LPT-ERR
-LPT-INIT
-LPT-SLIN
-LPT-ACK
U1
IT8716F-L/CX
Fan speed default 50%
-RTSB GA20 FAN DUTY
0 0 25%
0 1 50%
1 0 75%
1 1 100%
C302 close to SIO, C303 close to CPU
TMP_CPU
C302 1000P-04
C303 2200P-04-O
CPU_THERMDA 6
CPU_THERMDC 6
HM_AGND
HM_VREF
ER19 10K-1-04
TMP_SYS
RT1 NTC-10K-1S
RN26 10K-8P4R-12
RN27 10K-8P4R-12
VCC_CORE
+2.5V_VDDA
V_DIMM
VCC3
+1.2V_HT
+1.2V_CORE
+12V
VCC5
30.1K-1-04
6.81K-1-04
ER22
ER21
C309 1U-16V
C307 .1u-16VY-04
L20 FB-120-S
C305 1U-16V
C306 1U-16V
C310 1U-16V
C357 .1u-16VY-04
MC3 10u-10V-08
R177 10M-04
R350 22-04
5VSB
VBAT1
*Case Open Detection
R157 4.7K-04
R161 0-04
WP_ROM
R342 4.7K-04
R168 0-04
MCP61_PWRGD
RESETCON
BEEP
GP25
GP24
GP23
GP22
GP21
FDD signals : RDATA#, INDEX#, TRAK0#, DSKCHG#, WP# is input pin.
RN28 150-8P4R-12
R170 150-1-04
Key pin (No through hole)
FDD
H17*2-W-P5E
IR
IR1
H3X2-P2E-O
IRTX
IRRX
POWER ON STRAPPING.
RN40 10K-8P4R-12
RN51 10K-8P4R-12
RN52 10K-8P4R-12
CI31 10P-04-O
CI32 10P-04-O
R397 4.7K-04-O
R398 4.7K-04-O
R399 4.7K-04-O
R400 4.7K-04-O
R405 4.7K-04-O
R361 10K-04-O
RJ14 10K(1-2)
R351 10K-04-O
GP24 : HI---NO LPT
GP24 : LOW---LPT
GP23 : HI---
GP23 : LOW---
Elitegroup Computer Systems
GeForce6100SM-M2
LPC SIO-IT8726 / FDD / IR
Size Custom
Document Number
Rev 1.0
Date: Thursday, June 21, 2007
Sheet 22 of 30



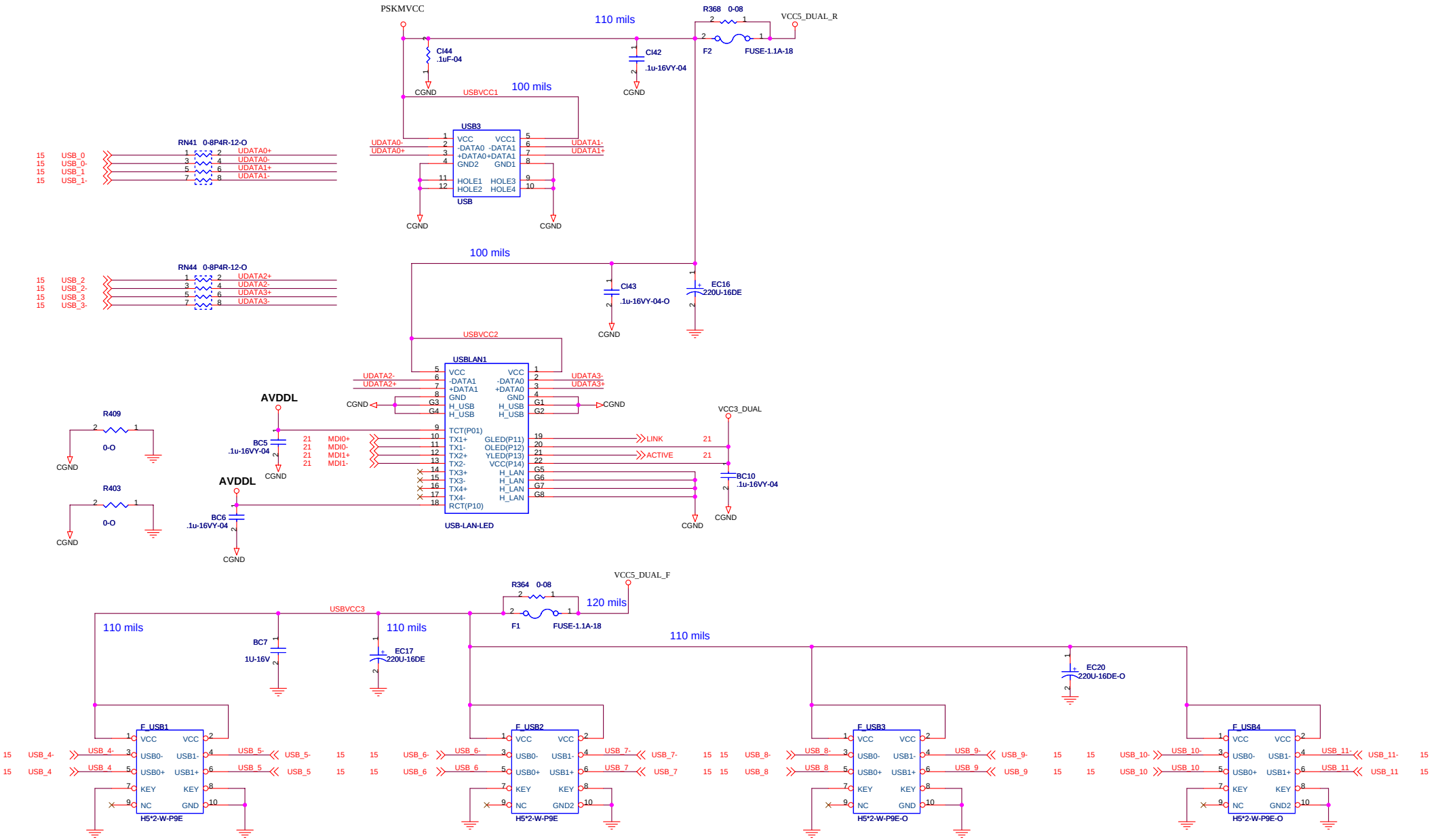








<Org	Elitegroup Computer Systems	
Title	GeForce6100SM-M2	
Size: Custom	Document Number: LPT / COM / PS2	Rev: 1.0
Date: Thursday, June 21, 2007	Sheet 23 of 30	



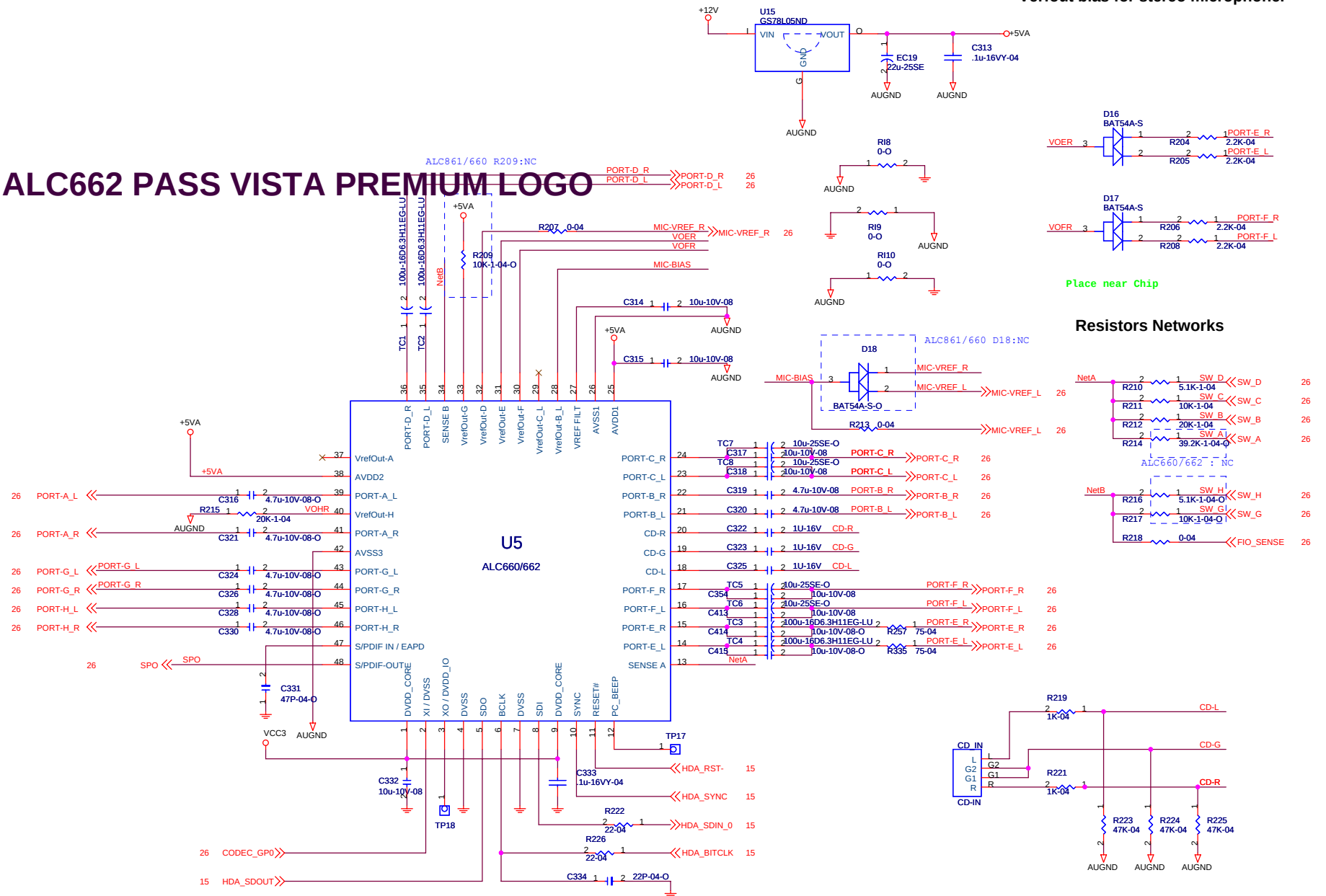
Elitegroup Computer Systems

Title	GeForce6100SM-M2	
Size: Custom	Document Number: USB / Lan Conn.	Rev: 1.0
Date: Thursday, June 21, 2007	Sheet 24 of 30	

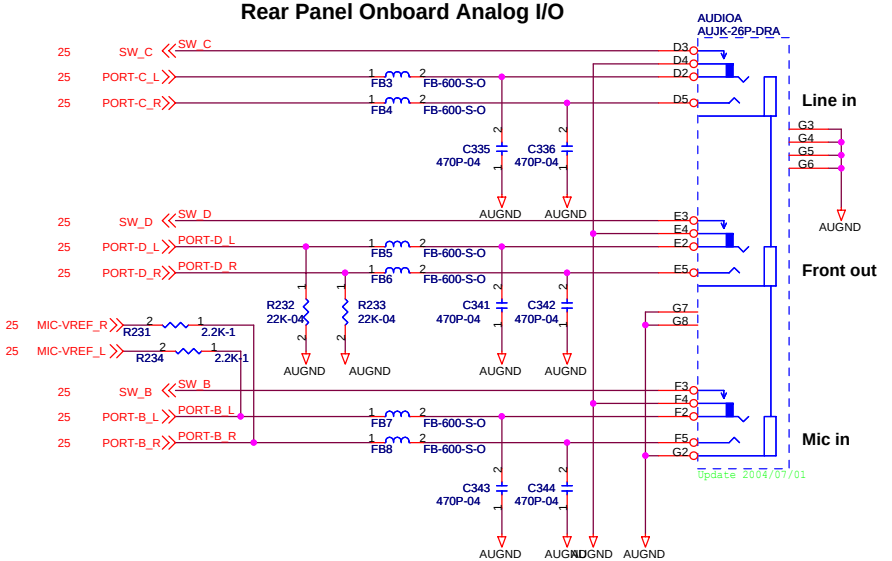
Improve the background noise of MIC boost

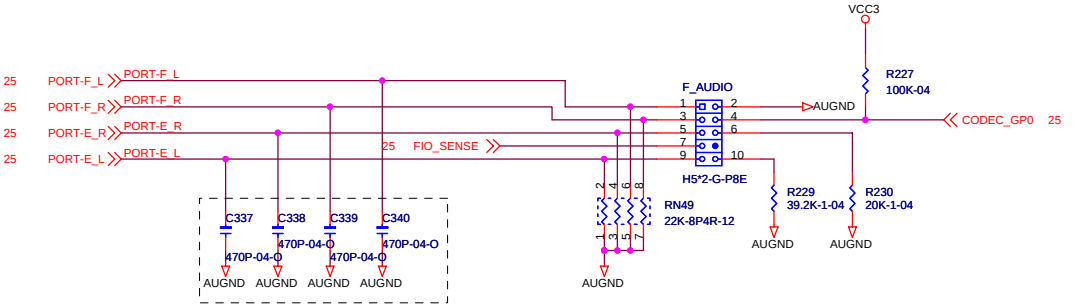
Verfout bias for stereo microphone.

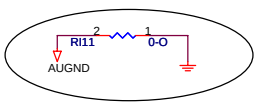
ALC662 PASS VISTA PREMIUM LOGO



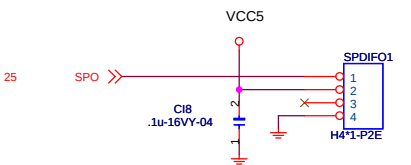
Rear Panel Onboard Analog I/O



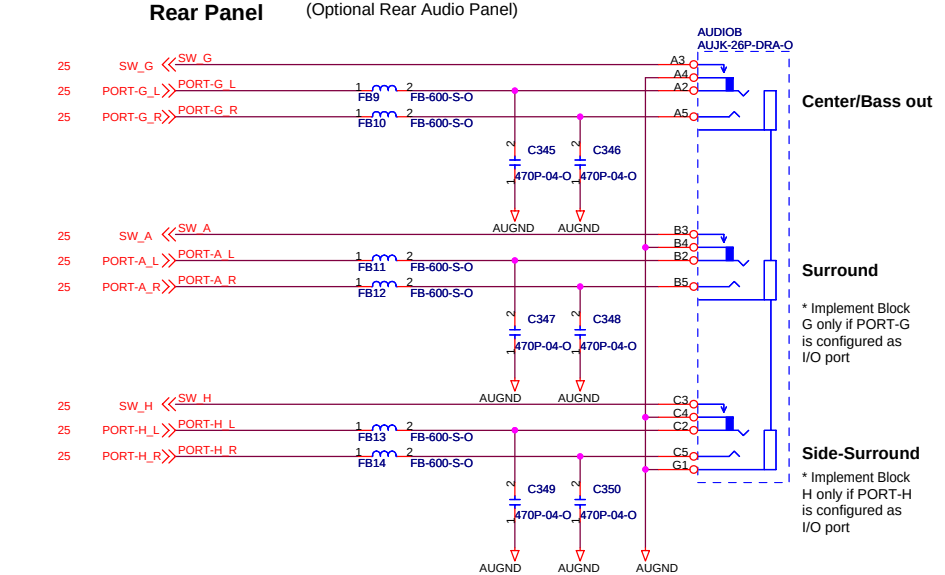




SPDIF Out

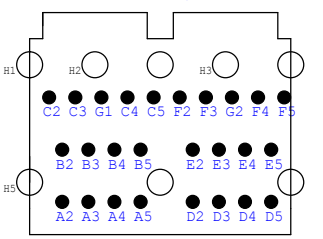


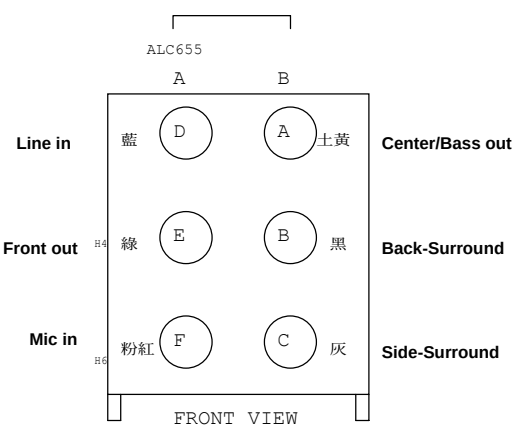
Rear Panel (Optional Rear Audio Panel)



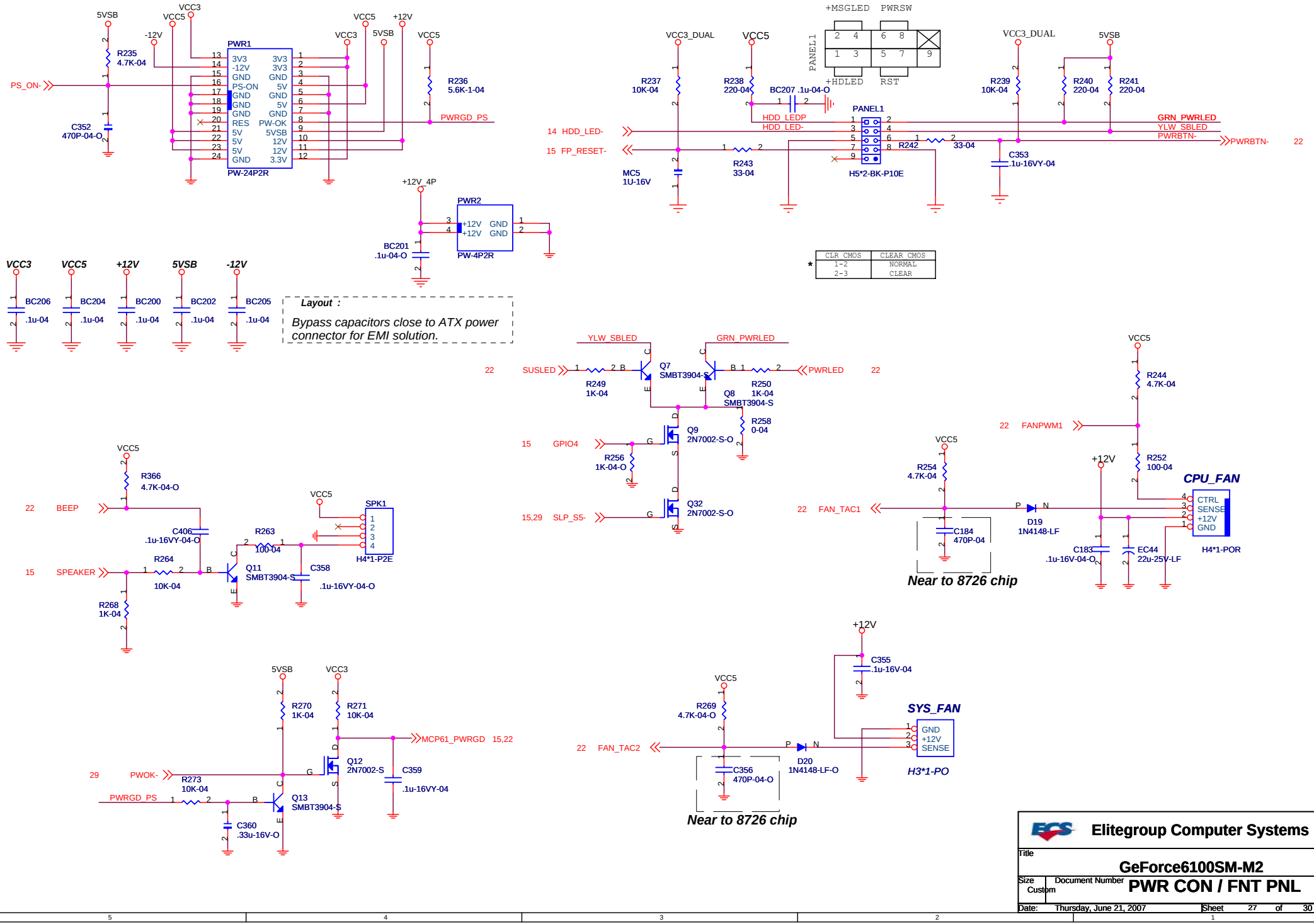
The schematic should consist with PINs define of I/O connecter.

TOP VIEW

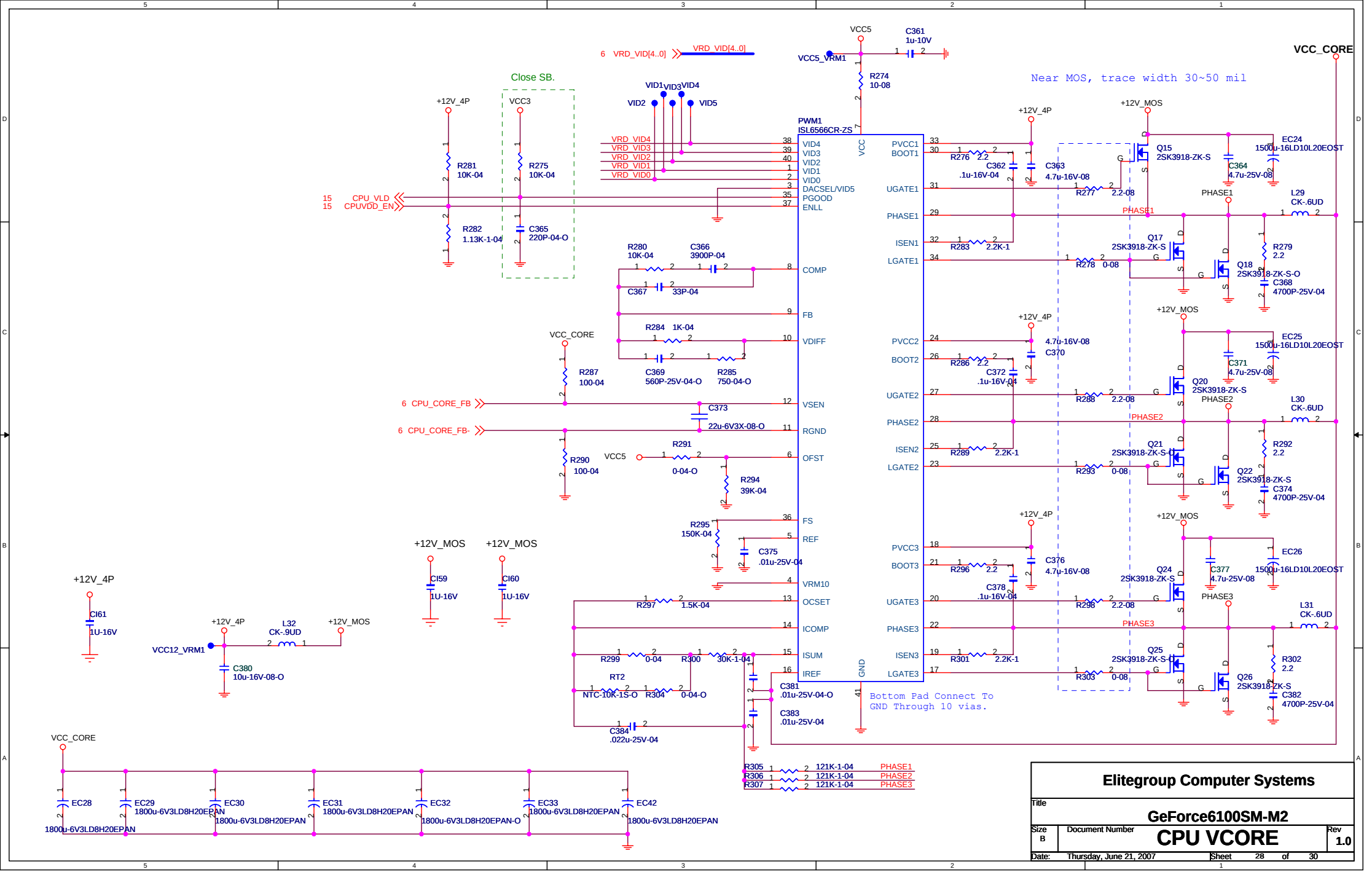


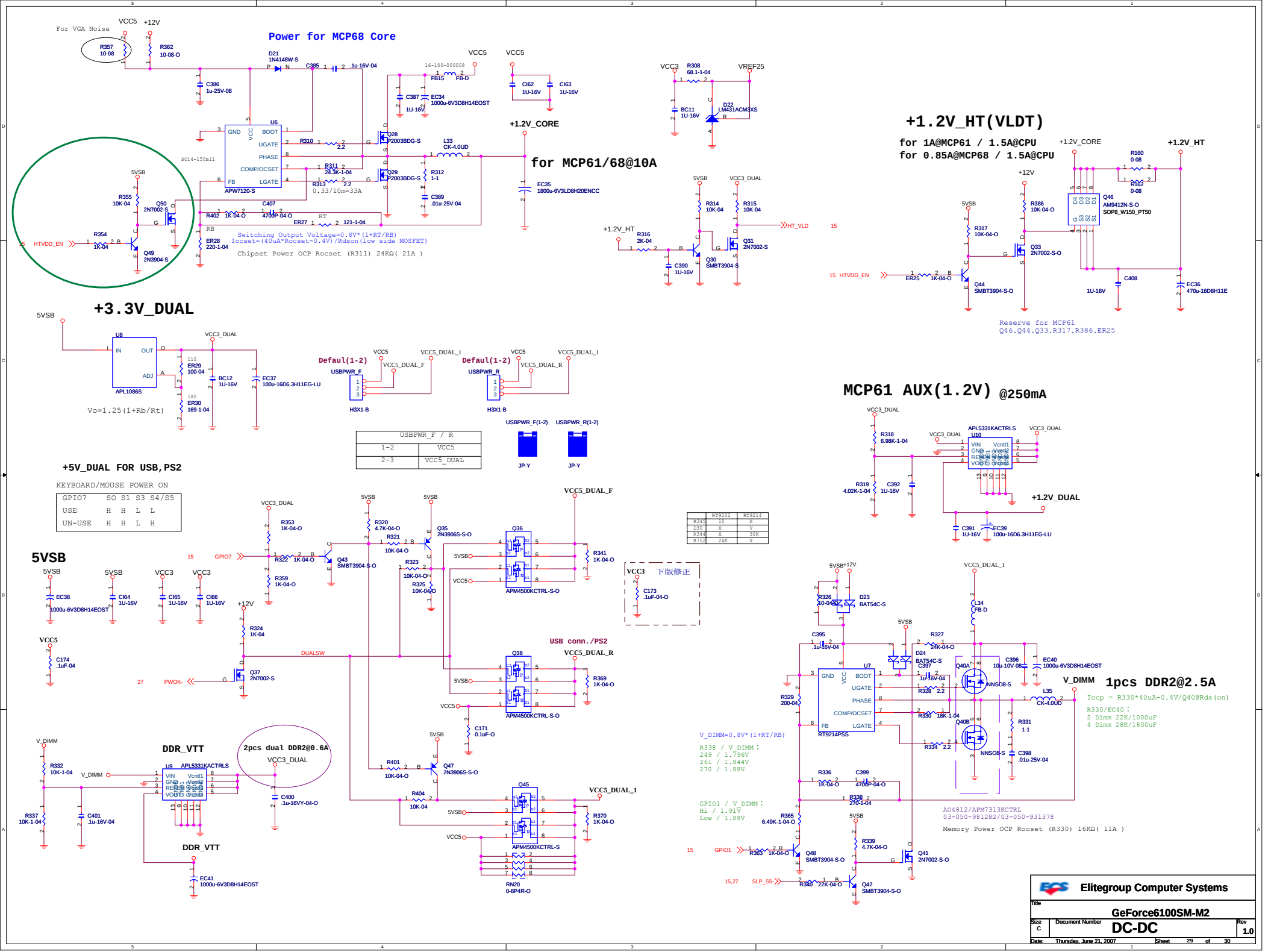


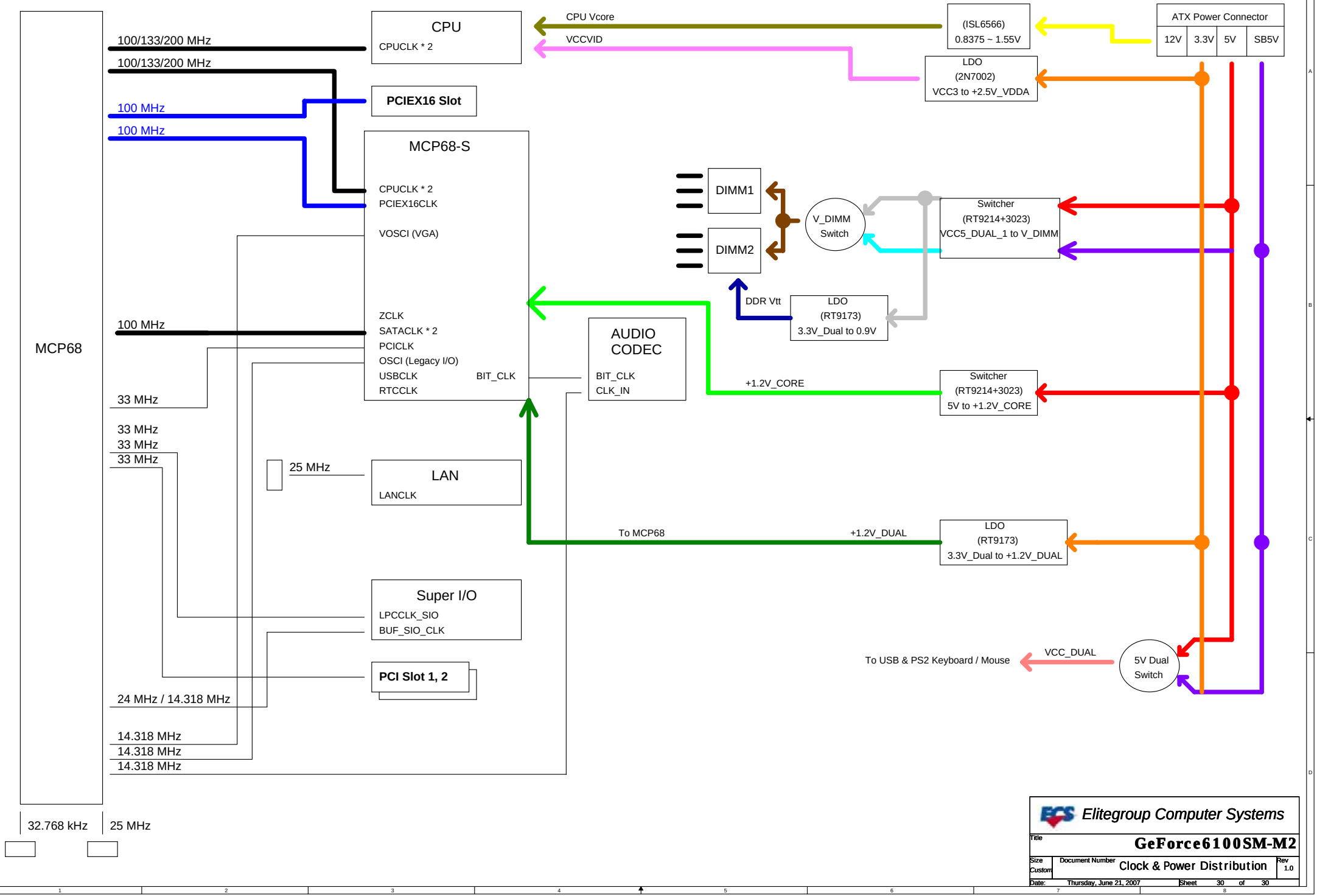
Elitegroup Computer Systems			
Title: GeForce6100SM-M2			
Size: Custom	Document Number: AUDIO ALC861/660/662(PANEL)		Rev: 1.0
Date: Thursday, June 21, 2007	Sheet 26 of 30		



Elitegroup Computer Systems	
Title	GeForce6100SM-M2
Size: Custom	Document Number: PWR CON / FNT PNL
Rev	1.0
Date: Thursday, June 21, 2007	Sheet 27 of 30


Close SB.
Near MOS, trace width 30~50 mil
Bottom Pad Connect To GND Through 10 vias.
PWM1
ISL6566CR-ZS
VCC_CORE
Elitegroup Computer Systems
GeForce6100SM-M2
CPU VCORE
Size B
Document Number
Rev 1.0
Date: Thursday, June 21, 2007
Sheet 28 of 30


Power for MCP68 Core
for MCP61/68@10A
+1.2V_HT(VLDT)
for 1A@MCP61 / 1.5A@CPU
for 0.85A@MCP68 / 1.5A@CPU
Reserve for MCP61
Q46.Q44.Q33.R317.R386.ER25
+3.3V_DUAL
+5V_DUAL FOR USB,PS2
KEYBOARD/MOUSE POWER ON
MCP61 AUX(1.2V) @250mA
5VSB
DDR_VTT
2pcs dual DDR2@0.6A
USB conn./PS2
1pcs DDR2@2.5A
Switching Output Voltage=0.8V*(1+RT/RB)
Iocset=(40uA*Rocset-0.4V)/Rdson(low side MOSFET)
Chipset Power OCP Rocset (R311) 24KΩ(21A)
Memory Power OCP Rocset (R330) 16KΩ(11A)
Elitegroup Computer Systems
GeForce6100SM-M2
DC-DC
1.0
Thursday, June 21, 2007
29 of 30



Elitegroup Computer Systems

Title: GeForce6100SM-M2

Size: Custom | Document Number: Clock & Power Distribution | Rev: 1.0

Date: Thursday, June 21, 2007 | Sheet 30 of 30