GIGABYTE GA-M59SLI-S5 Schematics

Revision:1.01

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40	DUAL BIOS
41	FRONT PANEL
42	ITE 8716
43	F_USB1/F_USB2/F_USB3 CONNECTOR
44	TI 1394A
45	COMA , LPT, TPM
46	AUDIO CODEC ALC888DD
47	AUDIO JACK, L_OUT, F_AUDIO
48	JMICRON 363
49	Marvell 88E1116 GbE Phy -A
50	Marvell 88E1116 GbE Phy -B
51	

GIGABYTE CORP.

Title: COVER SHEET		
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Model Name:GA-M59SLI-S5 1.01

Component value change history

Date	Change Item	Reason
03/28/2006	9MESLIS5-00-01A	
	Add Marvell 6121 function	
	Change SPI flashrom to LPC flash rom	
	9MESLIS5-00-02	
	PCIE_16_1 改上 11AC1-021164-A1R	
	PCIE_16_2 改上 11AC1-021164-61R	
	Change R1073,R373,R381 to 3.6K ohm.	
	Add R2499 to 8.2K/4	For PWR_LED
	Add R2500 to pull up thermtrip	
	Change C115 to 2.2nf ; Remove R204	For CPU temp.
	9MESLIS5-00-10A	
	Change R1930 to 6.49K ohm	
	Change R2318 to 2.49K ohm	
	RM change 12KRC-04K807-32R to 12KRC-04K807-31R	
	Change Q277,Q278 to 2SK3919/TO252/2050pF/5.6m	For 高溫測試,Mosfet 溫度太高
	Change R2139 to 12K/4/1	DDR超電壓
	Change R2314 to 6.34K/4/1	DDR超電壓
	Change R2408 to 3K/4/1	DDR超電壓
	Change LR301 to 8.2K/4	改爲0402
	RU1 change to GBB363	
	Change LBC171 to 0.1u/6	
	Del U99	
	9MESLIS5-00-10B	
	Change R2480 to 48/4	

Circuit or PCB layout change for next version

Date	Change Item	Reason
	9MESLIS5-00-02	
	Change U10 pin6 to pin11	
	Add R2499	For PWR_LED
	Add THERMTRIP_CPU_L pull up to VCC3	
	Add DDRII 漏電issue	
	Add PCIE reset issue	
	Del EC44	
	Add SB_PWROK from ITE I/O	
	Del NB_FAN,SB_FAN 相關線路	
	Add RN262,D76 for DDR power	
	Add thermaltrip- 線路	
	Change DDRII_1~DDRII_4 to DDRII1~DDRII4	
	CPU Socket change name to SOCKET_M2	
	Change Marvell 88E6212 to JMB363	
	9MESLIS5-00-10	
	Add R2514	
	Del UC1~UC8 for EMI	

GIGABYTE CORP.

Title: BOM & PCB MODIFY HISTORY

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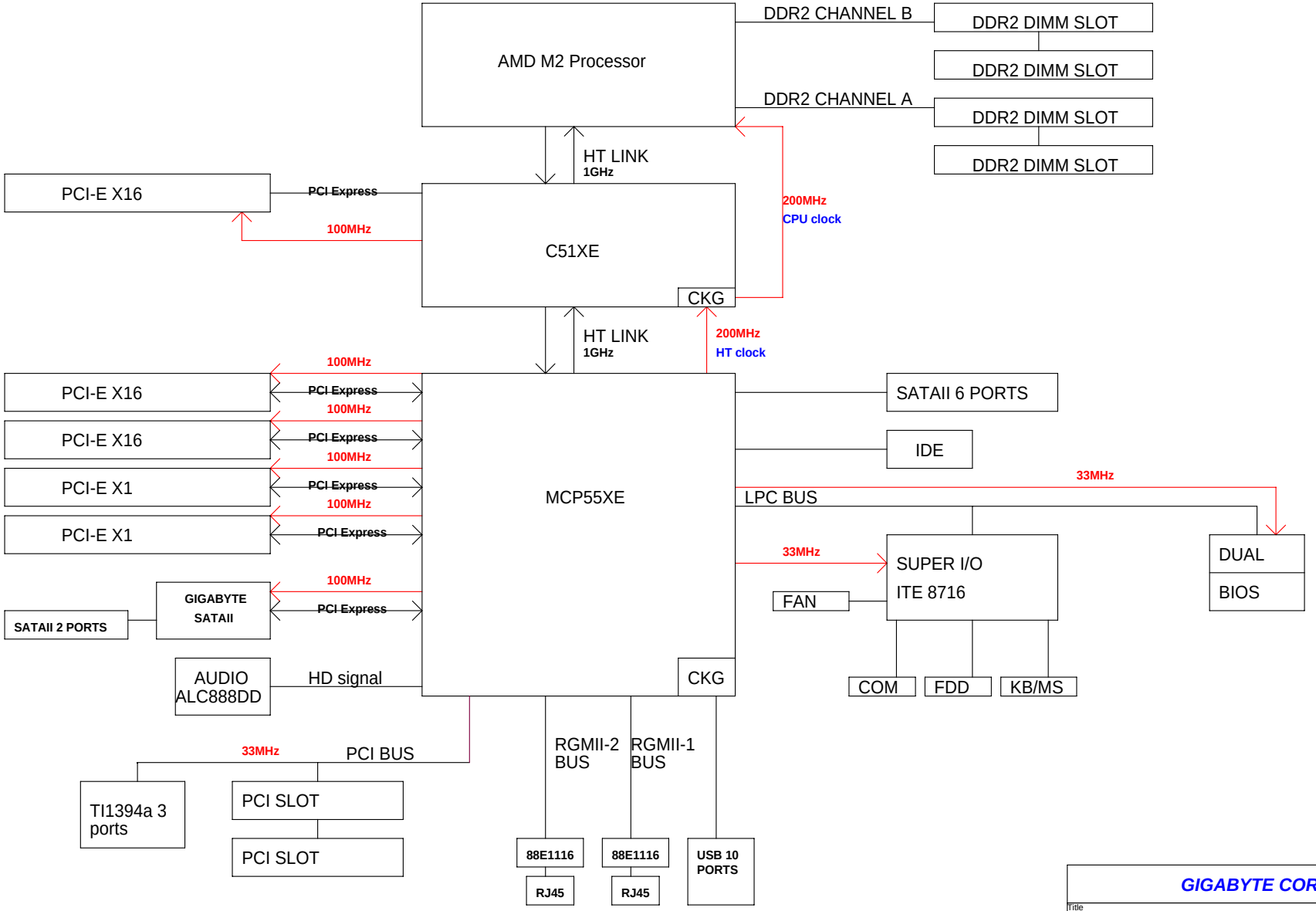

GIGABYTE CORP.

Title: BLOCK DIAGRAM

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L0_CADIN_L[0..15] <> L0_CADIN_L[0..15] 11
L0_CADIN_H[0..15] <> L0_CADIN_H[0..15] 11
L0_CLKIN_L[0..1] <> L0_CLKIN_L[0..1] 11
L0_CLKIN_H[0..1] <> L0_CLKIN_H[0..1] 11
L0_CADOUT_L[0..15] <> L0_CADOUT_L[0..15] 11
L0_CADOUT_H[0..15] <> L0_CADOUT_H[0..15] 11
L0_CLKOUT_L[0..1] <> L0_CLKOUT_L[0..1] 11
L0_CLKOUT_H[0..1] <> L0_CLKOUT_H[0..1] 11

CPU_VDD_RUN = VCORE
CPU_VDDA_RUN = VDDA25
VLDT_RUN = VCC12_HT
CPU_VDDIO_SUS = DDR18V
CPU_VTT_SUS = DDRVTT

VLDT_A = VCC12_HT
VLDT_B = HT12B

SOCKET_M2A

HYPERTRANSPORT

L0_CLKIN_H1	N6	L0_CLKIN_H(1)	L0_CLKOUT_H(1)	AD5	L0_CLKOUT_H1
L0_CLKIN_L1	P6	L0_CLKIN_L(1)	L0_CLKOUT_L(1)	AD4	L0_CLKOUT_L1
L0_CLKIN_H0	N3	L0_CLKIN_H(0)	L0_CLKOUT_H(0)	AD1	L0_CLKOUT_H0
L0_CLKIN_L0	N2	L0_CLKIN_L(0)	L0_CLKOUT_L(0)	AC1	L0_CLKOUT_L0
		L0_CTLIN_H(1)	L0_CTLOUT_H(1)	Y6	1 → TP25
		L0_CTLIN_L(1)	L0_CTLOUT_L(1)	W6	1 → TP26
11 L0_CTLIN_H0	U1	L0_CTLIN_H(0)	L0_CTLOUT_H(0)	W2	L0_CTLOUT_H0 11
11 L0_CTLIN_L0	V1	L0_CTLIN_L(0)	L0_CTLOUT_L(0)	W3	L0_CTLOUT_L0 11
L0_CADIN_H15	U6	L0_CADIN_H(15)	L0_CADOUT_H(15)	Y5	L0_CADOUT_H15
L0_CADIN_L15	V6	L0_CADIN_L(15)	L0_CADOUT_L(15)	Y4	L0_CADOUT_L15
L0_CADIN_H14	T4	L0_CADIN_H(14)	L0_CADOUT_H(14)	AB6	L0_CADOUT_H14
L0_CADIN_L14	T5	L0_CADIN_L(14)	L0_CADOUT_L(14)	AA6	L0_CADOUT_L14
L0_CADIN_H13	R6	L0_CADIN_H(13)	L0_CADOUT_H(13)	AB5	L0_CADOUT_H13
L0_CADIN_L13	T6	L0_CADIN_L(13)	L0_CADOUT_L(13)	AB4	L0_CADOUT_L13
L0_CADIN_H12	P4	L0_CADIN_H(12)	L0_CADOUT_H(12)	AD6	L0_CADOUT_H12
L0_CADIN_L12	P5	L0_CADIN_L(12)	L0_CADOUT_L(12)	AC6	L0_CADOUT_L12
L0_CADIN_H11	M4	L0_CADIN_H(11)	L0_CADOUT_H(11)	AE6	L0_CADOUT_H11
L0_CADIN_L11	M5	L0_CADIN_L(11)	L0_CADOUT_L(11)	AE6	L0_CADOUT_L11
L0_CADIN_H10	L6	L0_CADIN_H(10)	L0_CADOUT_H(10)	AF5	L0_CADOUT_H10
L0_CADIN_L10	M6	L0_CADIN_L(10)	L0_CADOUT_L(10)	AF4	L0_CADOUT_L10
L0_CADIN_H9	K4	L0_CADIN_H(9)	L0_CADOUT_H(9)	AH6	L0_CADOUT_H9
L0_CADIN_L9	K5	L0_CADIN_L(9)	L0_CADOUT_L(9)	AG6	L0_CADOUT_L9
L0_CADIN_H8	J6	L0_CADIN_H(8)	L0_CADOUT_H(8)	AH5	L0_CADOUT_H8
L0_CADIN_L8	K6	L0_CADIN_L(8)	L0_CADOUT_L(8)	AH4	L0_CADOUT_L8
L0_CADIN_H7	U3	L0_CADIN_H(7)	L0_CADOUT_H(7)	Y1	L0_CADOUT_H7
L0_CADIN_L7	U2	L0_CADIN_L(7)	L0_CADOUT_L(7)	W1	L0_CADOUT_L7
L0_CADIN_H6	R1	L0_CADIN_H(6)	L0_CADOUT_H(6)	AA2	L0_CADOUT_H6
L0_CADIN_L6	T1	L0_CADIN_L(6)	L0_CADOUT_L(6)	AA3	L0_CADOUT_L6
L0_CADIN_H5	R3	L0_CADIN_H(5)	L0_CADOUT_H(5)	AB1	L0_CADOUT_H5
L0_CADIN_L5	R2	L0_CADIN_L(5)	L0_CADOUT_L(5)	AA1	L0_CADOUT_L5
L0_CADIN_H4	N1	L0_CADIN_H(4)	L0_CADOUT_H(4)	AC2	L0_CADOUT_H4
L0_CADIN_L4	P1	L0_CADIN_L(4)	L0_CADOUT_L(4)	AC3	L0_CADOUT_L4
L0_CADIN_H3	L1	L0_CADIN_H(3)	L0_CADOUT_H(3)	AE2	L0_CADOUT_H3
L0_CADIN_L3	M1	L0_CADIN_L(3)	L0_CADOUT_L(3)	AE3	L0_CADOUT_L3
L0_CADIN_H2	L3	L0_CADIN_H(2)	L0_CADOUT_H(2)	AF1	L0_CADOUT_H2
L0_CADIN_L2	L2	L0_CADIN_L(2)	L0_CADOUT_L(2)	AE1	L0_CADOUT_L2
L0_CADIN_H1	J1	L0_CADIN_H(1)	L0_CADOUT_H(1)	AG2	L0_CADOUT_H1
L0_CADIN_L1	K1	L0_CADIN_L(1)	L0_CADOUT_L(1)	AG3	L0_CADOUT_L1
L0_CADIN_H0	J3	L0_CADIN_H(0)	L0_CADOUT_H(0)	AH1	L0_CADOUT_H0
L0_CADIN_L0	J2	L0_CADIN_L(0)	L0_CADOUT_L(0)	AG1	L0_CADOUT_L0

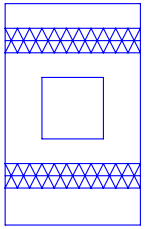
VCC12_HT — R1941 49.9/4/1 — V4
GND — R1942 49.9/4/1 — V5

CPU-SK/940AM2/S/15u

VCORE
SC882 0.01U/4/Y5V/50V/Z
SC883 0.01U/4/Y5V/50V/Z
SC884 0.01U/4/Y5V/50V/Z

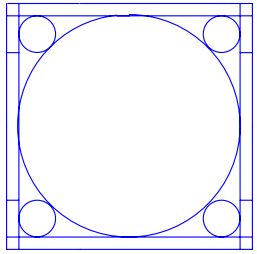
CLOSE CHIPSET & CROSSING BOUNDARY

SOCKET_M2



M2_RM/[12SP2-060110-01R]

SOCKET_M2



M2_RM/[12KRC-04K807-31R]

GIGABYTE CORP.

Title: CPU HYPER TRANSPORT

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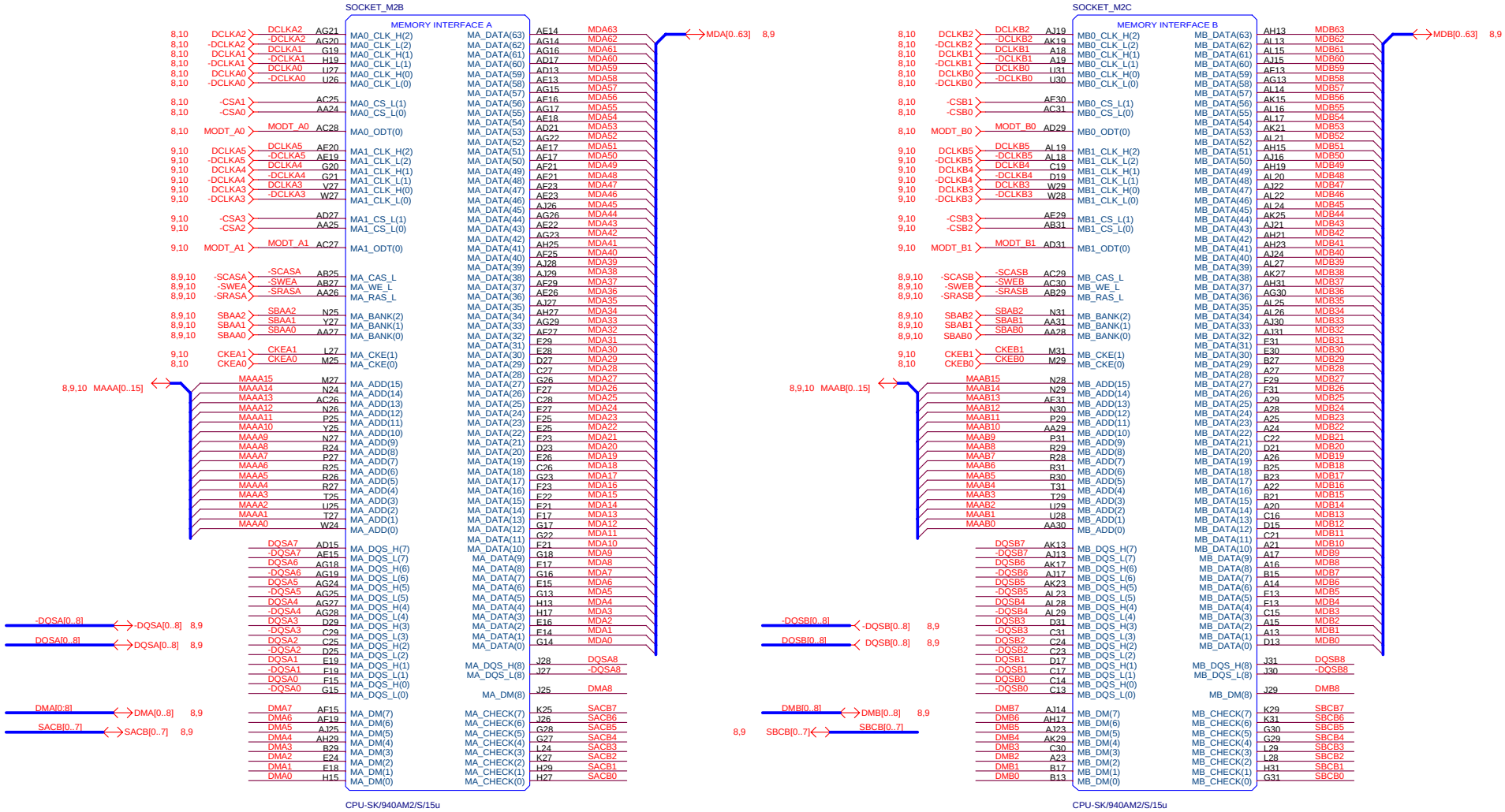

GIGABYTE CORP.

Title: CPU DDRII MEMORY

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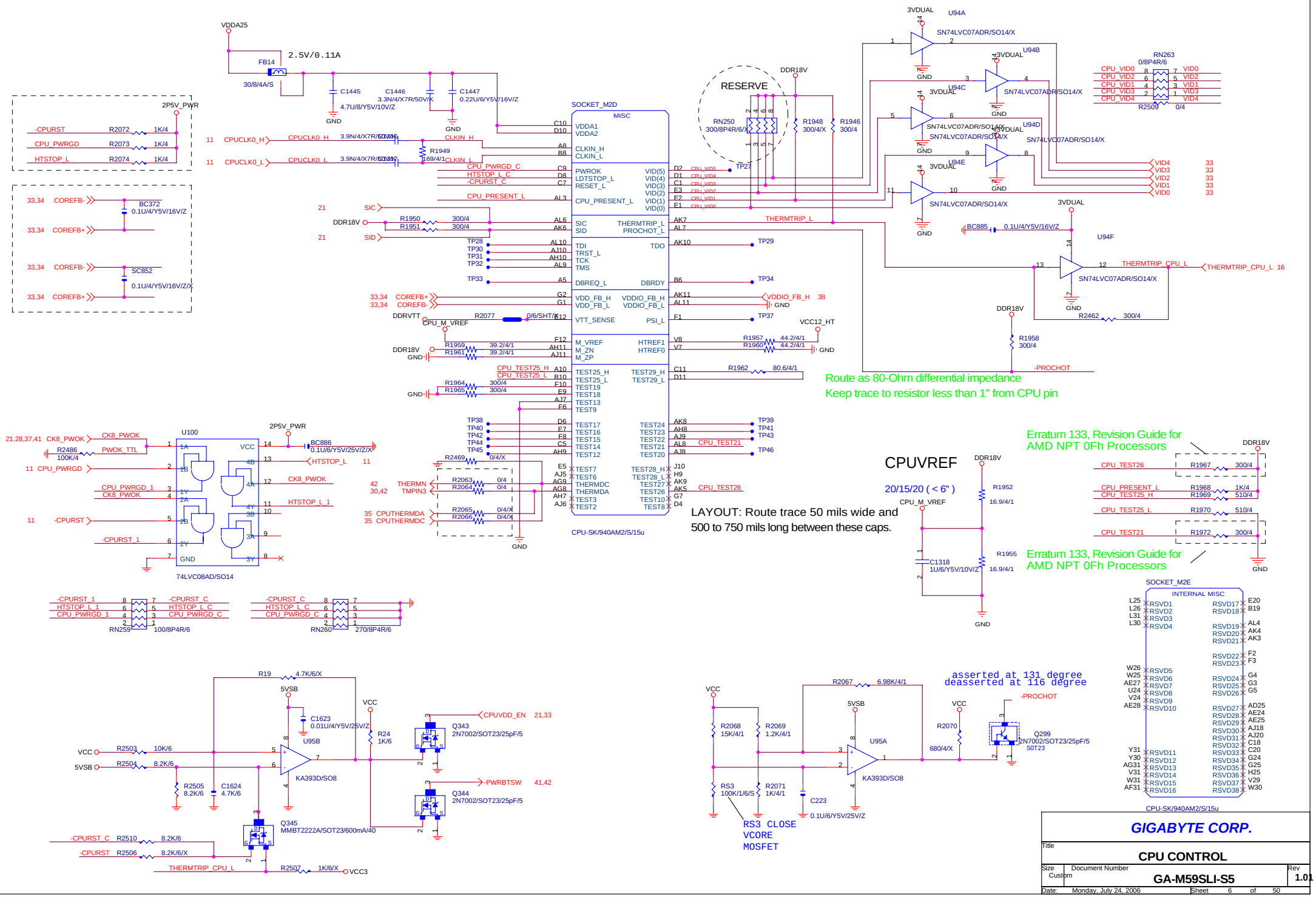

GIGABYTE CORP.

Title: CPU CONTROL

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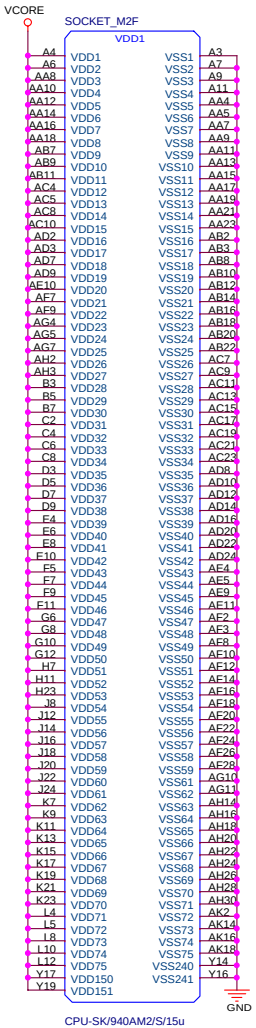
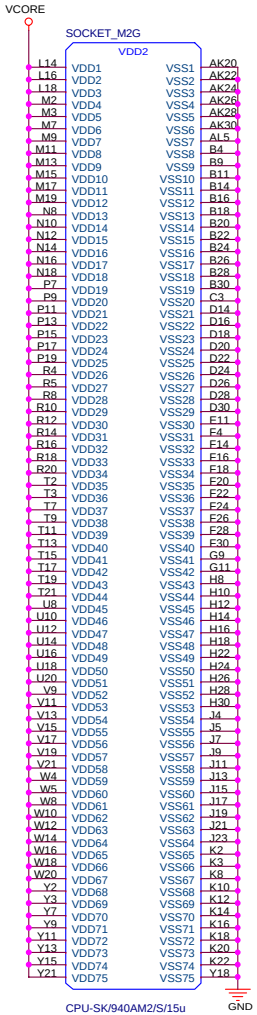
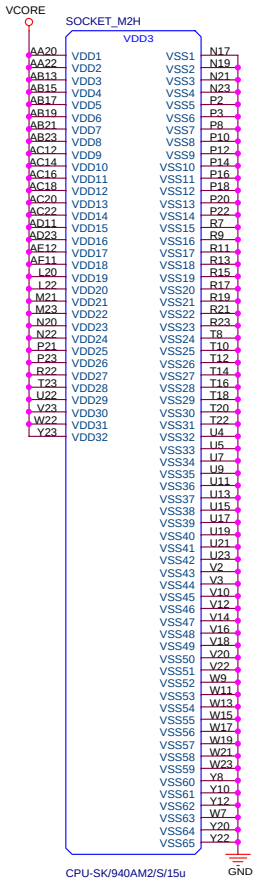
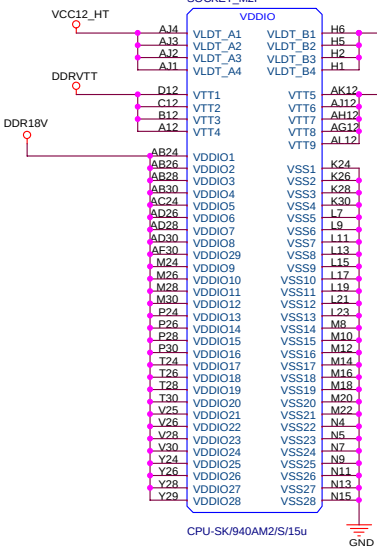
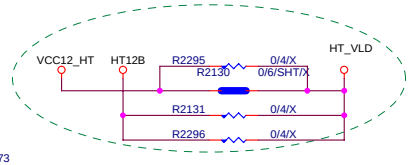
VLDT_RUN_B is connected to the VLDT_RUN power supply through the package or on the die. It is only connected on the board to decoupling near the CPU package.

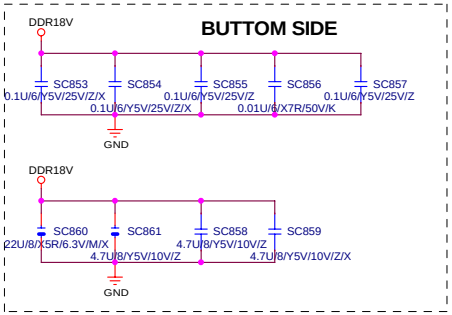


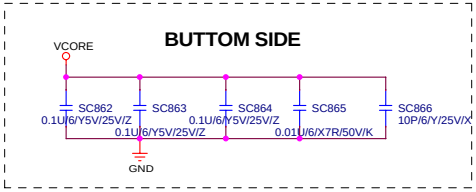


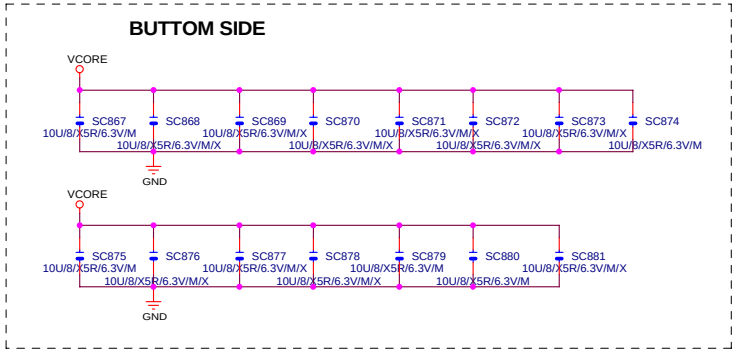


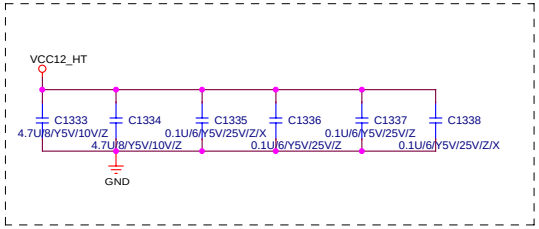


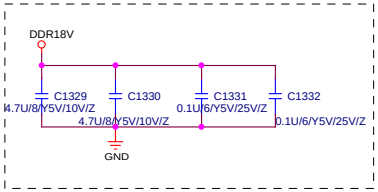


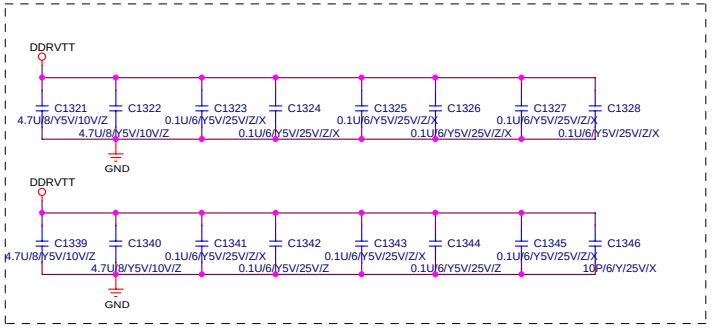












GIGABYTE CORP.

Title: CPU POWER & GND

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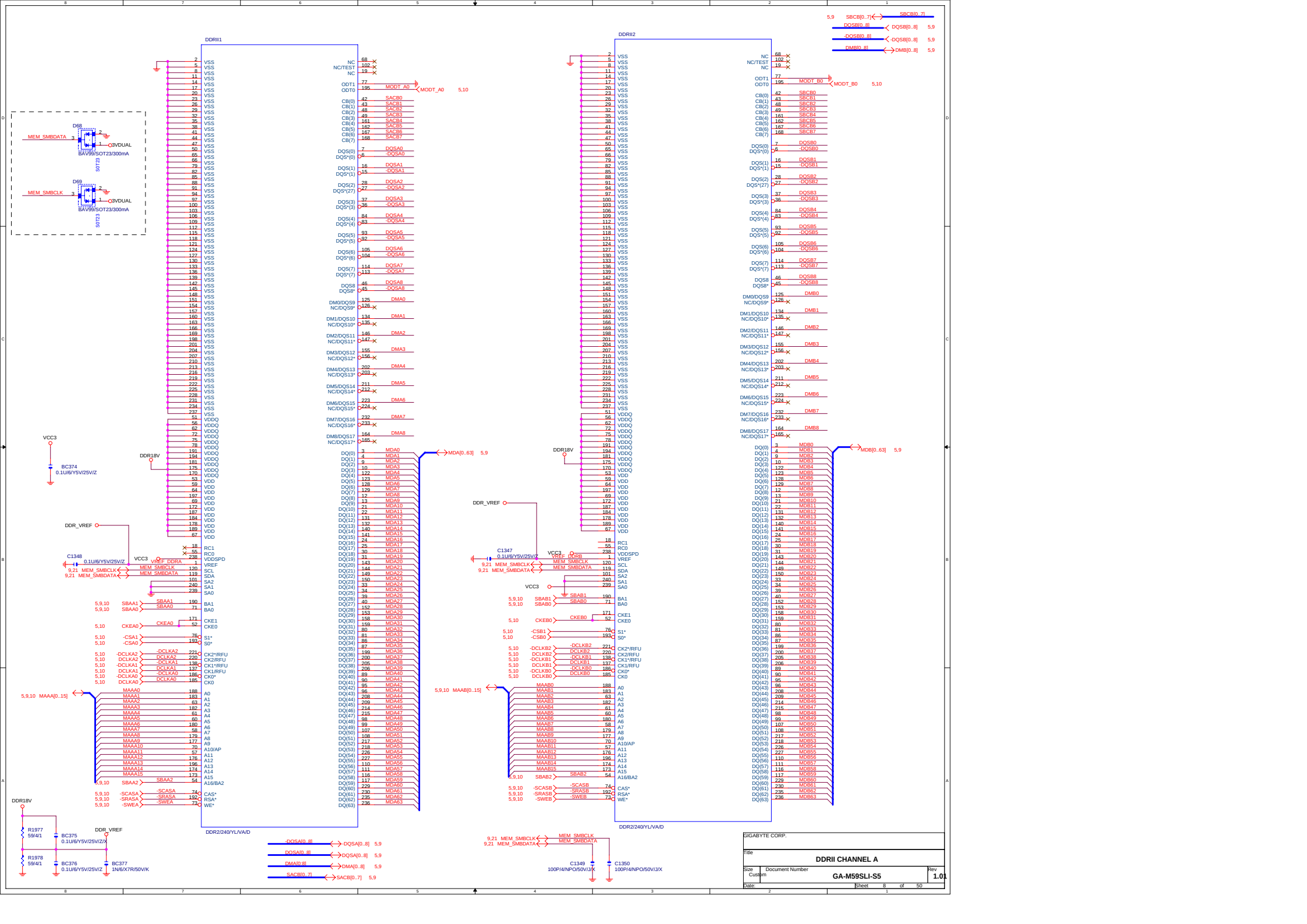
DDRII1
DDRII2
DDR2/240/YL/VA/D
DDR18V
DDR_VREF
VCC3
MEM_SMBDATA
MEM_SMBCLK
MDA[0..63]
MDB[0..63]
MAAA[0..15]
MAAB[0..15]
SBCB[0..7]
DQSB[0..8]
-DQSB[0..8]
DMB[0..8]
MODT_A0
MODT_B0
BAV99/SOT23/300mA
D68
D69
BC374 0.1U/6/Y5V/25V/Z
BC375 0.1U/6/Y5V/25V/Z/X
BC376 0.1U/6/Y5V/25V/Z
BC377 1N/6/X7R/50V/K
C1348 0.1U/6/Y5V/25V/Z
C1347 0.1U/6/Y5V/25V/Z
C1349 100P/4/NPO/50V/J/X
C1350 100P/4/NPO/50V/J/X
R1977 59/4/1
R1978 59/4/1
GIGABYTE CORP.
DDRII CHANNEL A
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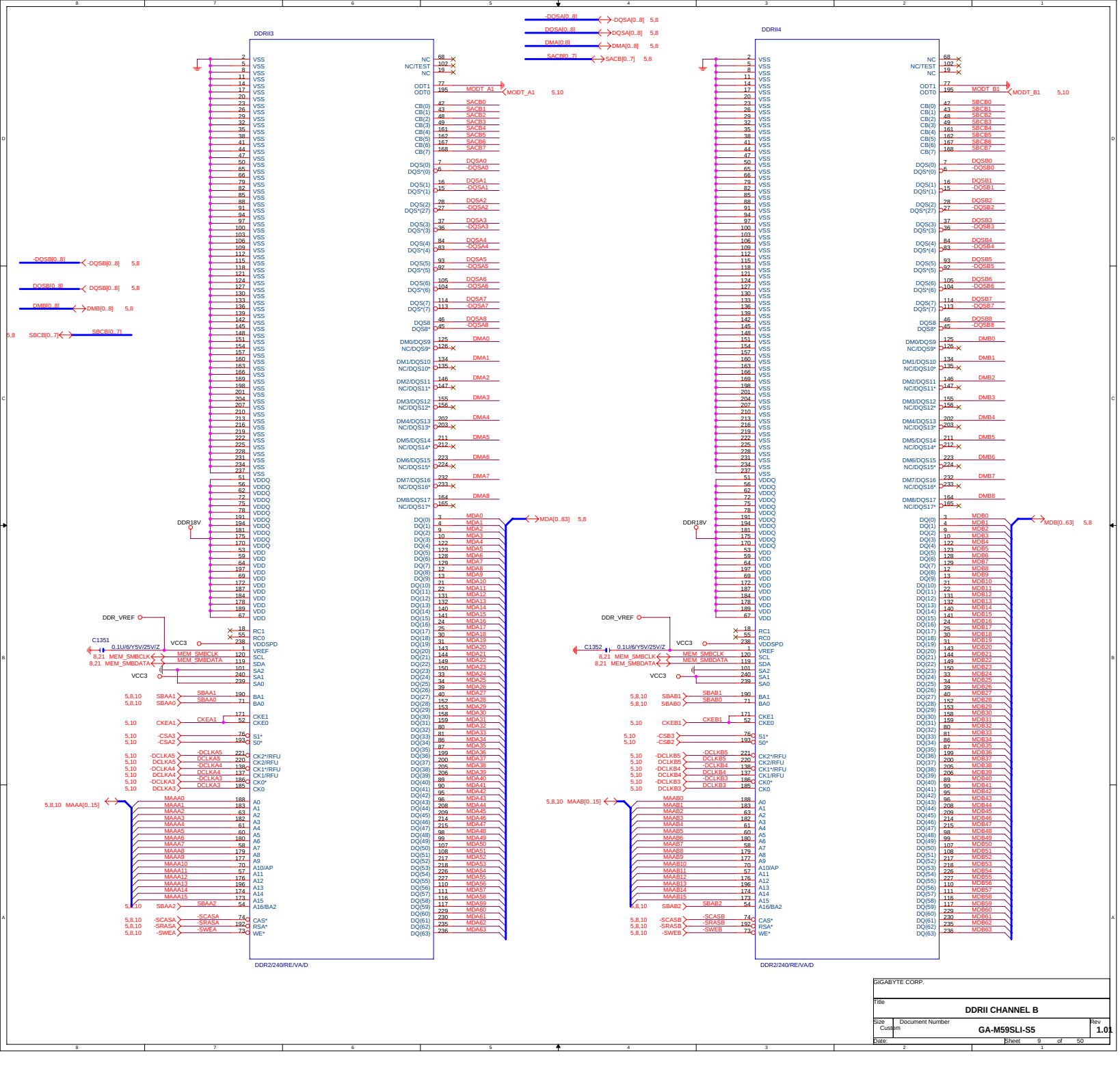

GIGABYTE CORP.

Title: **DDRII CHANNEL B**

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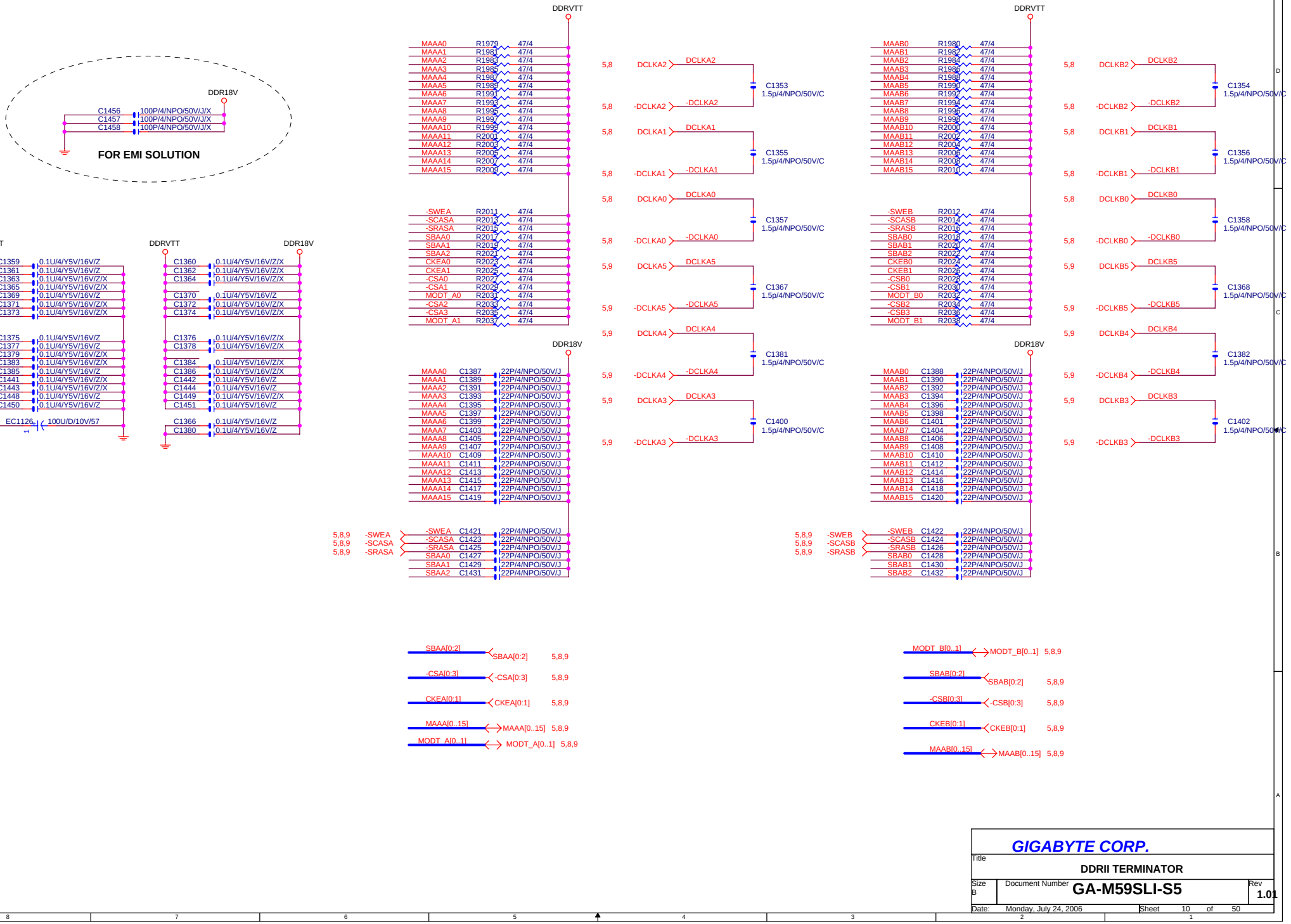
DDR18V
C1456 100P/4/NPO/50V/J/X
C1457 100P/4/NPO/50V/J/X
C1458 100P/4/NPO/50V/J/X
FOR EMI SOLUTION
DDRVTT
C1359 0.1U/4/Y5V/16V/Z
C1361 0.1U/4/Y5V/16V/Z
C1363 0.1U/4/Y5V/16V/Z/X
C1365 0.1U/4/Y5V/16V/Z/X
C1369 0.1U/4/Y5V/16V/Z
C1371 0.1U/4/Y5V/16V/Z/X
C1373 0.1U/4/Y5V/16V/Z/X
C1375 0.1U/4/Y5V/16V/Z
C1377 0.1U/4/Y5V/16V/Z
C1379 0.1U/4/Y5V/16V/Z/X
C1383 0.1U/4/Y5V/16V/Z/X
C1385 0.1U/4/Y5V/16V/Z
C1441 0.1U/4/Y5V/16V/Z/X
C1443 0.1U/4/Y5V/16V/Z/X
C1448 0.1U/4/Y5V/16V/Z
C1450 0.1U/4/Y5V/16V/Z
EC1126 100U/D/10V/57
DDRVTT
C1360 0.1U/4/Y5V/16V/Z/X
C1362 0.1U/4/Y5V/16V/Z/X
C1364 0.1U/4/Y5V/16V/Z/X
C1370 0.1U/4/Y5V/16V/Z
C1372 0.1U/4/Y5V/16V/Z/X
C1374 0.1U/4/Y5V/16V/Z/X
C1376 0.1U/4/Y5V/16V/Z/X
C1378 0.1U/4/Y5V/16V/Z/X
C1384 0.1U/4/Y5V/16V/Z/X
C1386 0.1U/4/Y5V/16V/Z/X
C1442 0.1U/4/Y5V/16V/Z
C1444 0.1U/4/Y5V/16V/Z
C1449 0.1U/4/Y5V/16V/Z/X
C1451 0.1U/4/Y5V/16V/Z
C1366 0.1U/4/Y5V/16V/Z
C1380 0.1U/4/Y5V/16V/Z
DDR18V
DDRVTT
MAAA0 R1979 47/4
MAAA1 R1981 47/4
MAAA2 R1983 47/4
MAAA3 R1985 47/4
MAAA4 R1987 47/4
MAAA5 R1989 47/4
MAAA6 R1991 47/4
MAAA7 R1993 47/4
MAAA8 R1995 47/4
MAAA9 R1997 47/4
MAAA10 R1999 47/4
MAAA11 R2001 47/4
MAAA12 R2003 47/4
MAAA13 R2005 47/4
MAAA14 R2007 47/4
MAAA15 R2009 47/4
-SWEA R2011 47/4
-SCASA R2013 47/4
-SRASA R2015 47/4
SBAA0 R2017 47/4
SBAA1 R2019 47/4
SBAA2 R2021 47/4
CKEA0 R2023 47/4
CKEA1 R2025 47/4
-CSA0 R2027 47/4
-CSA1 R2029 47/4
MODT_A0 R2031 47/4
-CSA2 R2033 47/4
-CSA3 R2035 47/4
MODT_A1 R2037 47/4
DDR18V
MAAA0 C1387 22P/4/NPO/50V/J
MAAA1 C1389 22P/4/NPO/50V/J
MAAA2 C1391 22P/4/NPO/50V/J
MAAA3 C1393 22P/4/NPO/50V/J
MAAA4 C1395 22P/4/NPO/50V/J
MAAA5 C1397 22P/4/NPO/50V/J
MAAA6 C1399 22P/4/NPO/50V/J
MAAA7 C1403 22P/4/NPO/50V/J
MAAA8 C1405 22P/4/NPO/50V/J
MAAA9 C1407 22P/4/NPO/50V/J
MAAA10 C1409 22P/4/NPO/50V/J
MAAA11 C1411 22P/4/NPO/50V/J
MAAA12 C1413 22P/4/NPO/50V/J
MAAA13 C1415 22P/4/NPO/50V/J
MAAA14 C1417 22P/4/NPO/50V/J
MAAA15 C1419 22P/4/NPO/50V/J
5,8,9 -SWEA C1421 22P/4/NPO/50V/J
5,8,9 -SCASA C1423 22P/4/NPO/50V/J
5,8,9 -SRASA C1425 22P/4/NPO/50V/J
SBAA0 C1427 22P/4/NPO/50V/J
SBAA1 C1429 22P/4/NPO/50V/J
SBAA2 C1431 22P/4/NPO/50V/J
5,8 DCLKA2 DCLKA2
C1353 1.5p/4/NPO/50V/C
5,8 -DCLKA2 -DCLKA2
5,8 DCLKA1 DCLKA1
C1355 1.5p/4/NPO/50V/C
5,8 -DCLKA1 -DCLKA1
5,8 DCLKA0 DCLKA0
C1357 1.5p/4/NPO/50V/C
5,8 -DCLKA0 -DCLKA0
5,9 DCLKA5 DCLKA5
C1367 1.5p/4/NPO/50V/C
5,9 -DCLKA5 -DCLKA5
5,9 DCLKA4 DCLKA4
C1381 1.5p/4/NPO/50V/C
5,9 -DCLKA4 -DCLKA4
5,9 DCLKA3 DCLKA3
C1400 1.5p/4/NPO/50V/C
5,9 -DCLKA3 -DCLKA3
SBAA[0:2] SBAA[0:2] 5,8,9
-CSA[0:3] -CSA[0:3] 5,8,9
CKEA[0:1] CKEA[0:1] 5,8,9
MAAA[0..15] MAAA[0..15] 5,8,9
MODT_A[0..1] MODT_A[0..1] 5,8,9
DDRVTT
MAAB0 R1980 47/4
MAAB1 R1982 47/4
MAAB2 R1984 47/4
MAAB3 R1986 47/4
MAAB4 R1988 47/4
MAAB5 R1990 47/4
MAAB6 R1992 47/4
MAAB7 R1994 47/4
MAAB8 R1996 47/4
MAAB9 R1998 47/4
MAAB10 R2000 47/4
MAAB11 R2002 47/4
MAAB12 R2004 47/4
MAAB13 R2006 47/4
MAAB14 R2008 47/4
MAAB15 R2010 47/4
-SWEB R2012 47/4
-SCASB R2014 47/4
-SRASB R2016 47/4
SBAB0 R2018 47/4
SBAB1 R2020 47/4
SBAB2 R2022 47/4
CKEB0 R2024 47/4
CKEB1 R2026 47/4
-CSB0 R2028 47/4
-CSB1 R2030 47/4
MODT_B0 R2032 47/4
-CSB2 R2034 47/4
-CSB3 R2036 47/4
MODT_B1 R2038 47/4
DDR18V
MAAB0 C1388 22P/4/NPO/50V/J
MAAB1 C1390 22P/4/NPO/50V/J
MAAB2 C1392 22P/4/NPO/50V/J
MAAB3 C1394 22P/4/NPO/50V/J
MAAB4 C1396 22P/4/NPO/50V/J
MAAB5 C1398 22P/4/NPO/50V/J
MAAB6 C1401 22P/4/NPO/50V/J
MAAB7 C1404 22P/4/NPO/50V/J
MAAB8 C1406 22P/4/NPO/50V/J
MAAB9 C1408 22P/4/NPO/50V/J
MAAB10 C1410 22P/4/NPO/50V/J
MAAB11 C1412 22P/4/NPO/50V/J
MAAB12 C1414 22P/4/NPO/50V/J
MAAB13 C1416 22P/4/NPO/50V/J
MAAB14 C1418 22P/4/NPO/50V/J
MAAB15 C1420 22P/4/NPO/50V/J
5,8,9 -SWEB C1422 22P/4/NPO/50V/J
5,8,9 -SCASB C1424 22P/4/NPO/50V/J
5,8,9 -SRASB C1426 22P/4/NPO/50V/J
SBAB0 C1428 22P/4/NPO/50V/J
SBAB1 C1430 22P/4/NPO/50V/J
SBAB2 C1432 22P/4/NPO/50V/J
5,8 DCLKB2 DCLKB2
C1354 1.5p/4/NPO/50V/C
5,8 -DCLKB2 -DCLKB2
5,8 DCLKB1 DCLKB1
C1356 1.5p/4/NPO/50V/C
5,8 -DCLKB1 -DCLKB1
5,8 DCLKB0 DCLKB0
C1358 1.5p/4/NPO/50V/C
5,8 -DCLKB0 -DCLKB0
5,9 DCLKB5 DCLKB5
C1368 1.5p/4/NPO/50V/C
5,9 -DCLKB5 -DCLKB5
5,9 DCLKB4 DCLKB4
C1382 1.5p/4/NPO/50V/C
5,9 -DCLKB4 -DCLKB4
5,9 DCLKB3 DCLKB3
C1402 1.5p/4/NPO/50V/C
5,9 -DCLKB3 -DCLKB3
MODT_B[0..1] MODT_B[0..1] 5,8,9
SBAB[0:2] SBAB[0:2] 5,8,9
-CSB[0:3] -CSB[0:3] 5,8,9
CKEB[0:1] CKEB[0:1] 5,8,9
MAAB[0..15] MAAB[0..15] 5,8,9
GIGABYTE CORP.
Title
DDRII TERMINATOR
Size B
Document Number GA-M59SLI-S5
Rev 1.01
Date: Monday, July 24, 2006
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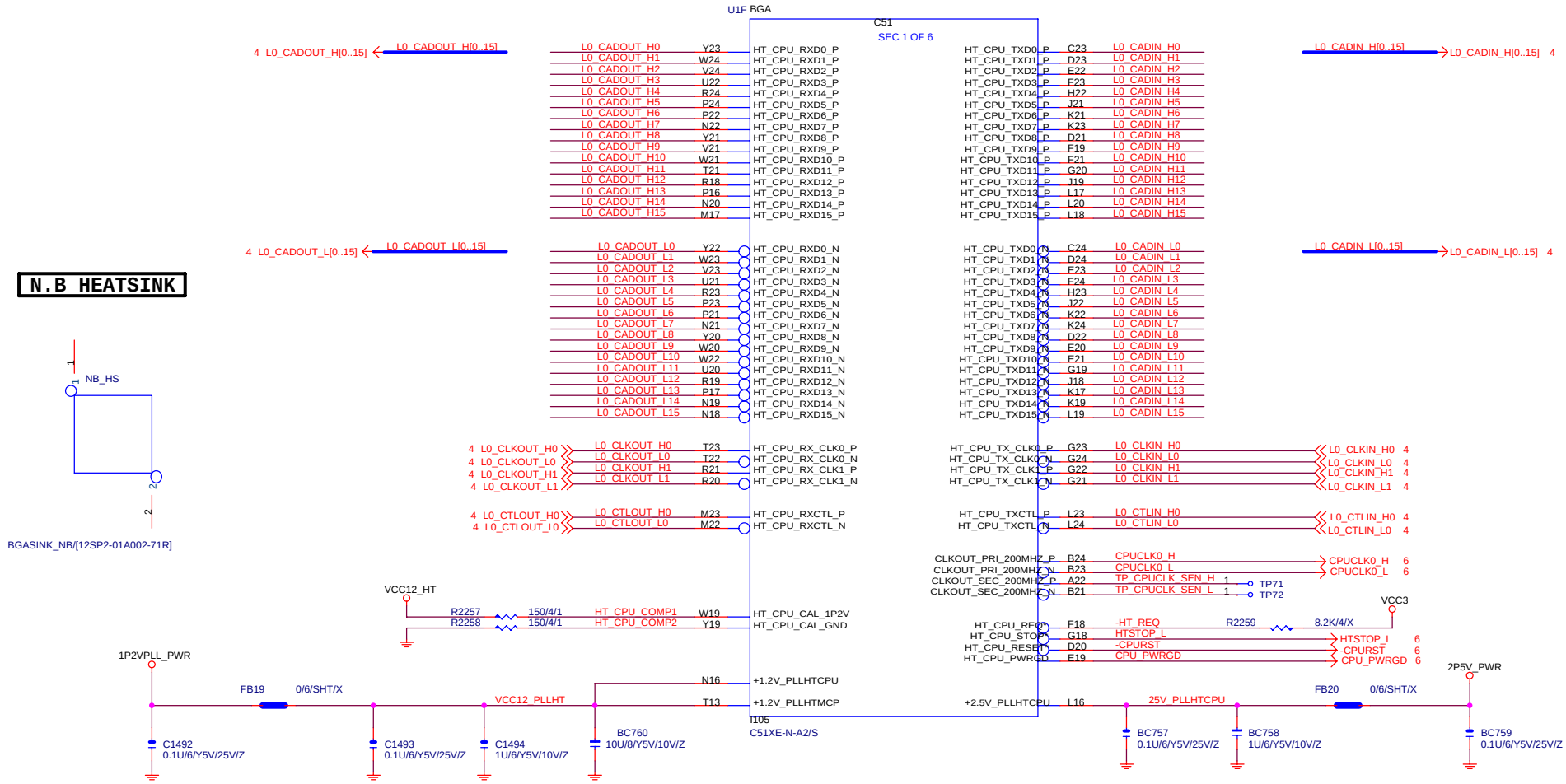
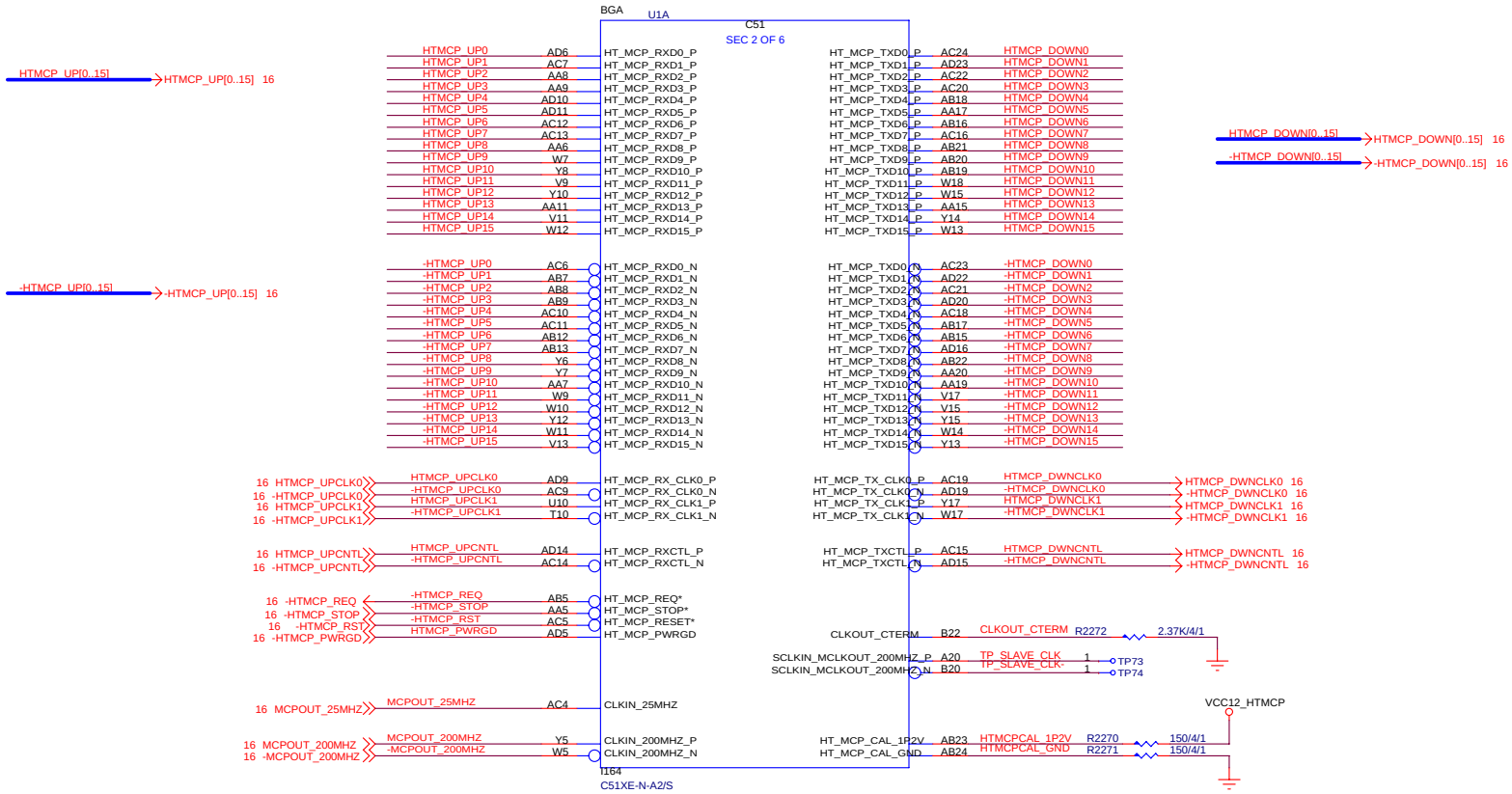
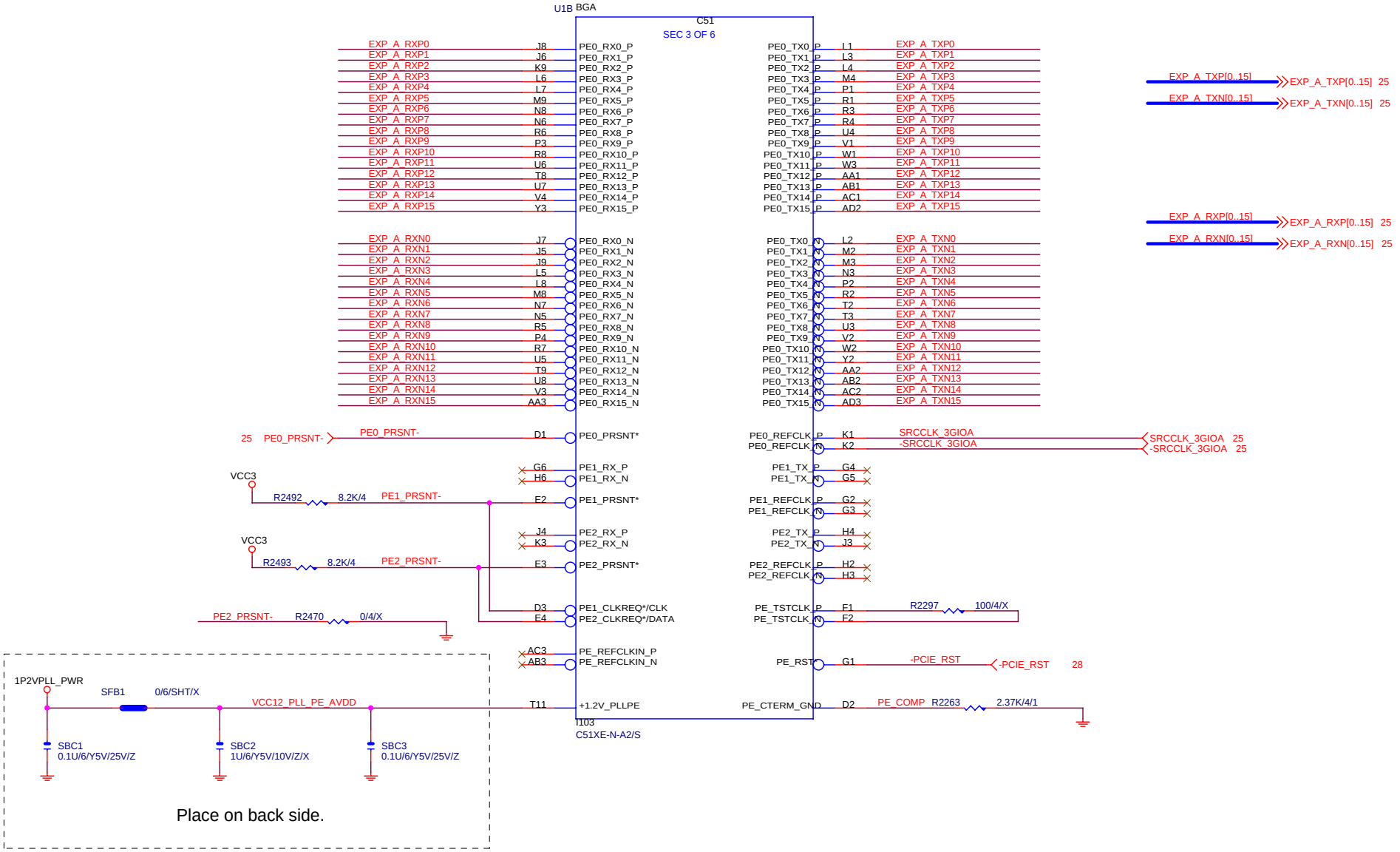


GIGABYTE CORP.		
Title: C51-HOST		
Size: Custom	Document Number: GA-M59SLI-S5	Rev: 1.01
Date: Monday, July 24, 2006	Sheet 11 of 50	



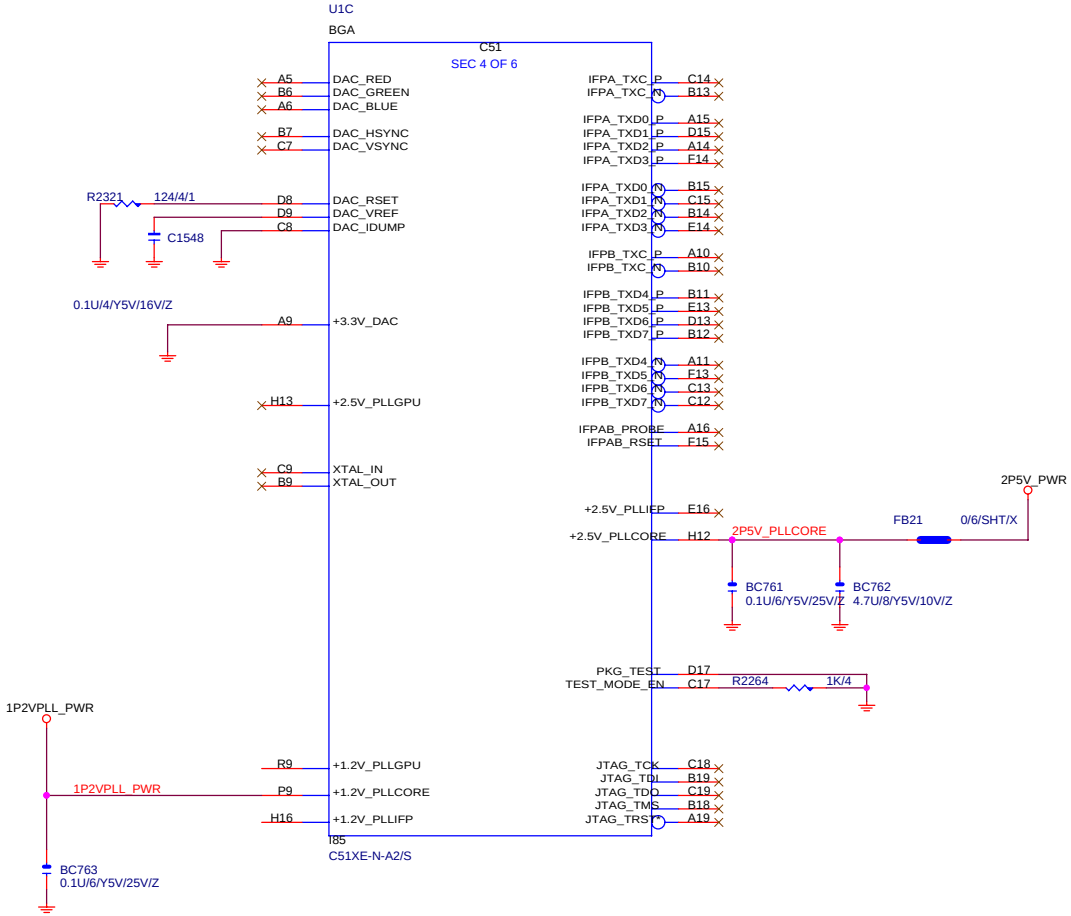
GIGABYTE CORP.

Title	C51-HT BUS	
Size: Custom	Document Number: GA-M59SLI-S5	Rev: 1.01
Date: Monday, July 24, 2006	Sheet 12 of 50	



GIGABYTE CORP.

Title	C51-PCI EXPRESS	
Size B	Document Number GA-M59SLI-S5	Rev 1.01
Date: Monday, July 24, 2006	Sheet 13 of 50	



GIGABYTE CORP.		
Title: C51-HOST		
Size: Custom	Document Number: GA-M59SLI-S5	Rev: 1.01
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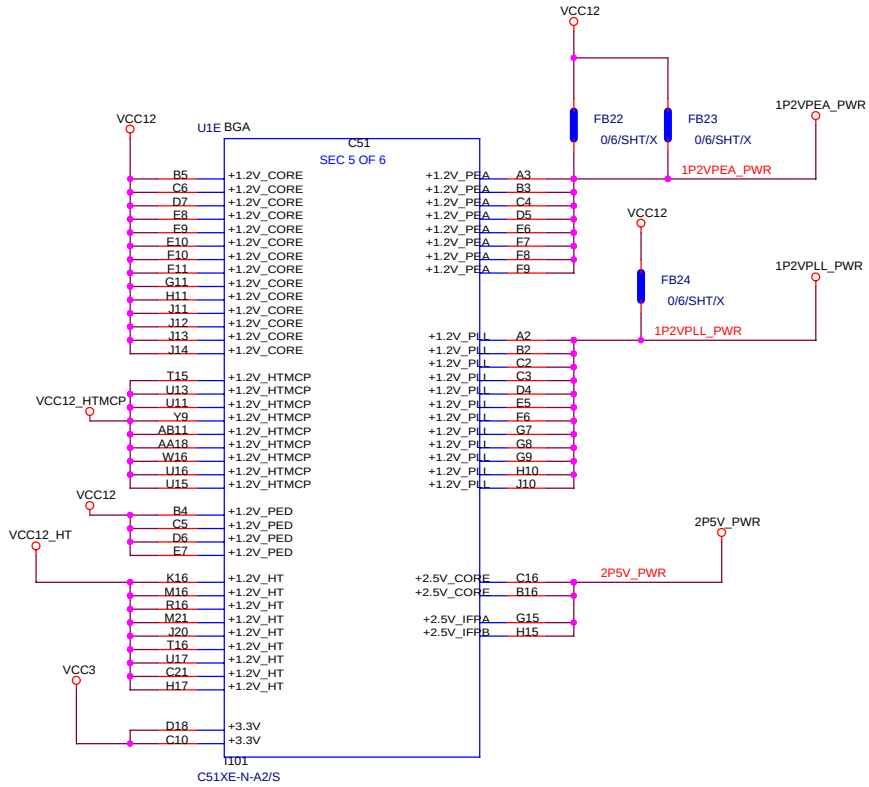

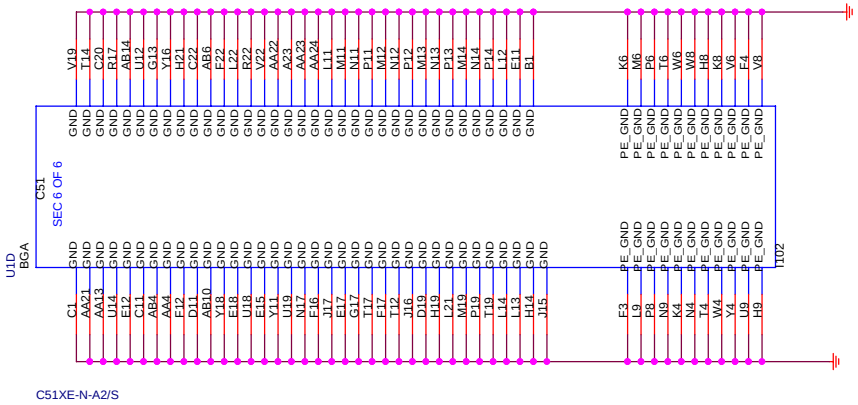

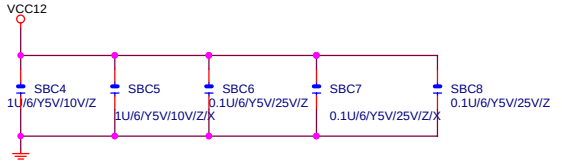

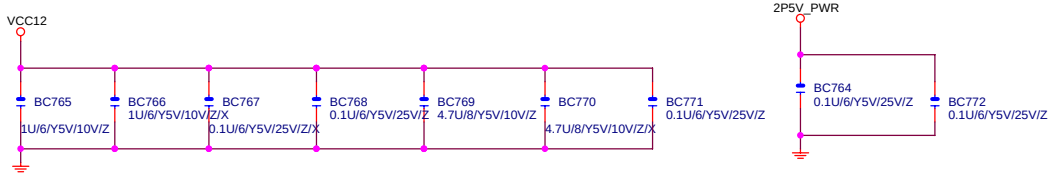

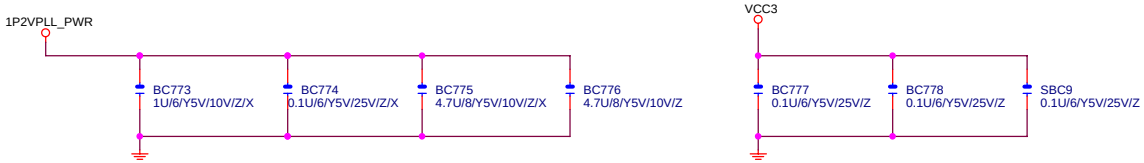

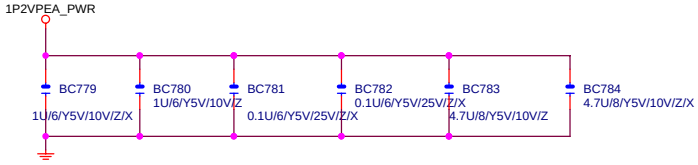

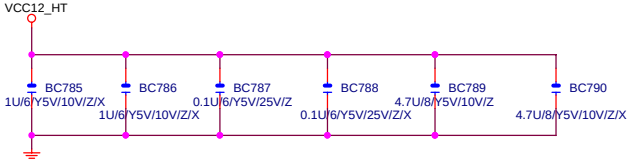

GIGABYTE CORP.

Title	C51-PWR/GND	
Size: Custom	Document Number: GA-M59SLI-S5	Rev: 1.01
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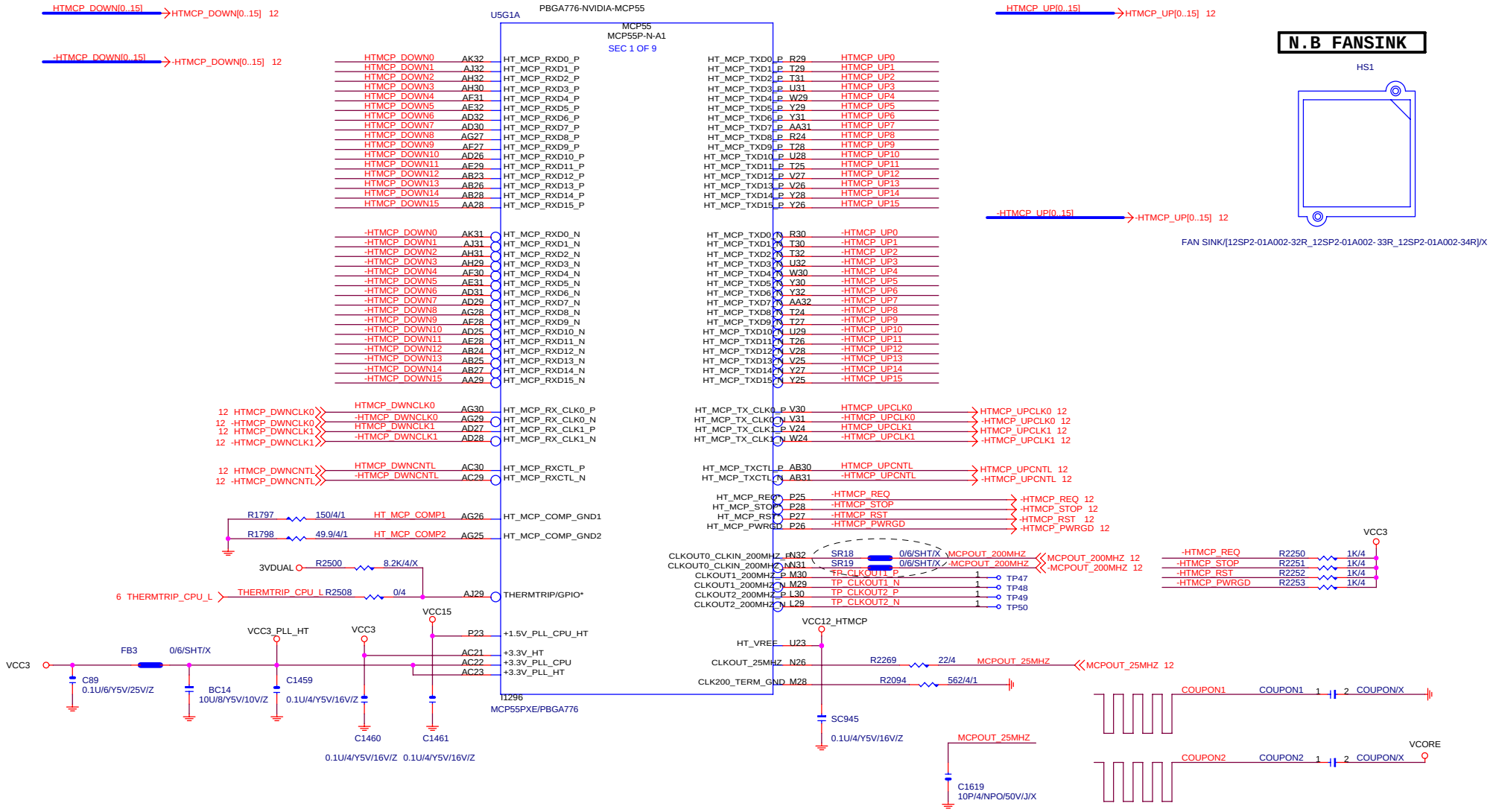
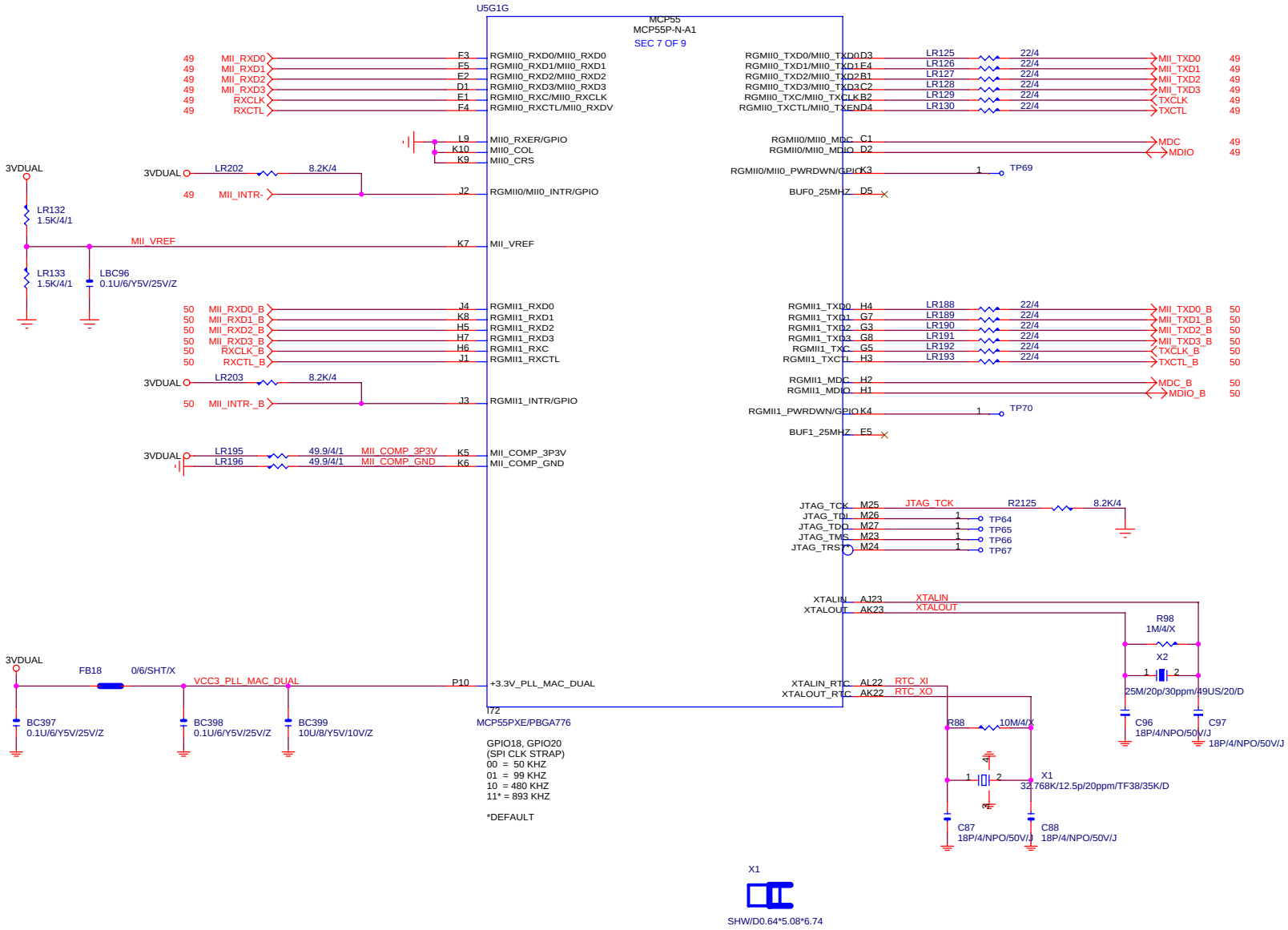


GIGABYTE CORP.		
Title: MCP55 HT/CLK		
Size: Custom	Document Number: GA-M59SLI-S5	Rev: 1.01
Date: Monday, July 24, 2006	Sheet 16 of 50	



GIGABYTE CORP.		
Title: MCP55 DUAL RGMII		
Size: Custom	Document Number: GA-M59SLI-S5	Rev: 1.01
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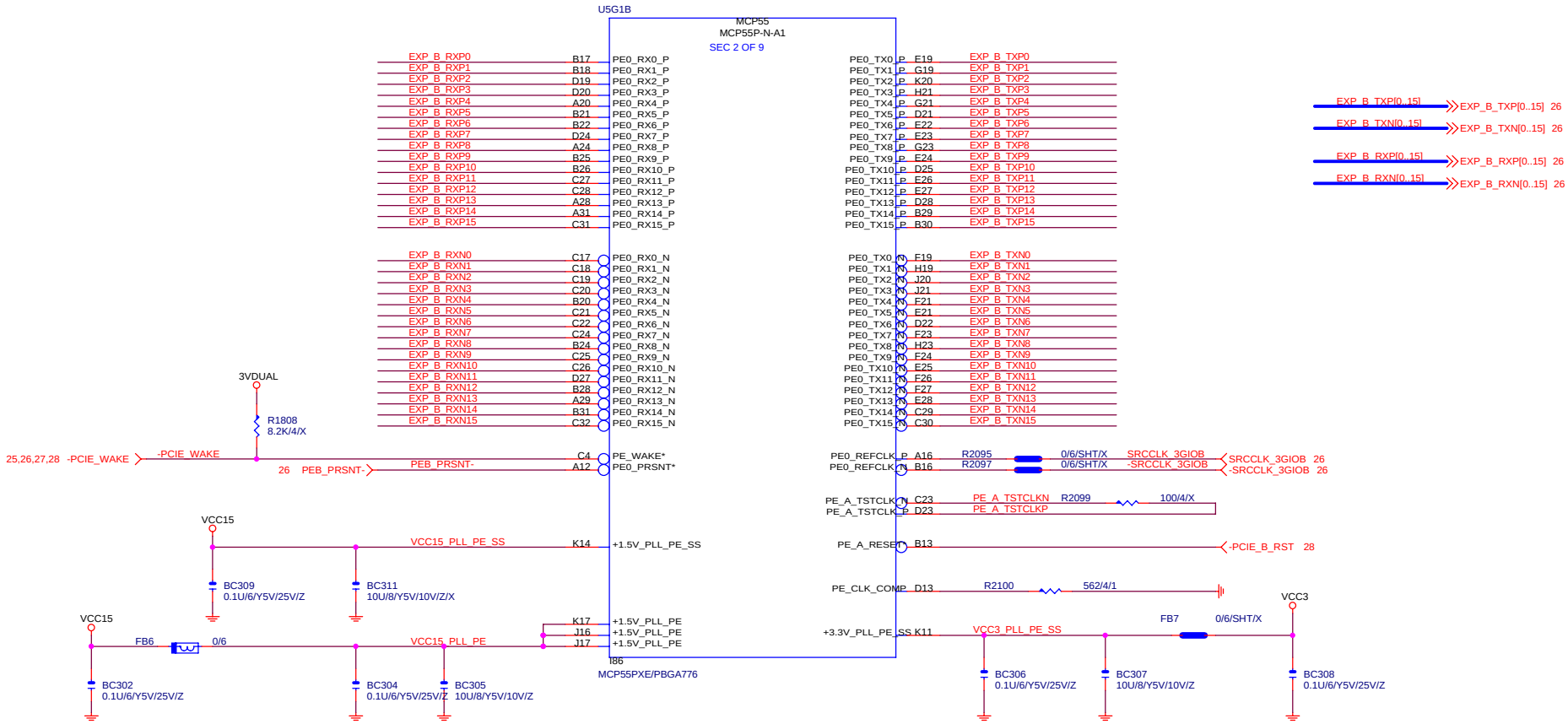

GIGABYTE CORP.

Title	MCP55 PCIE X16	
Size: Custom	Document Number: GA-M59SLI-S5	Rev: 1.01
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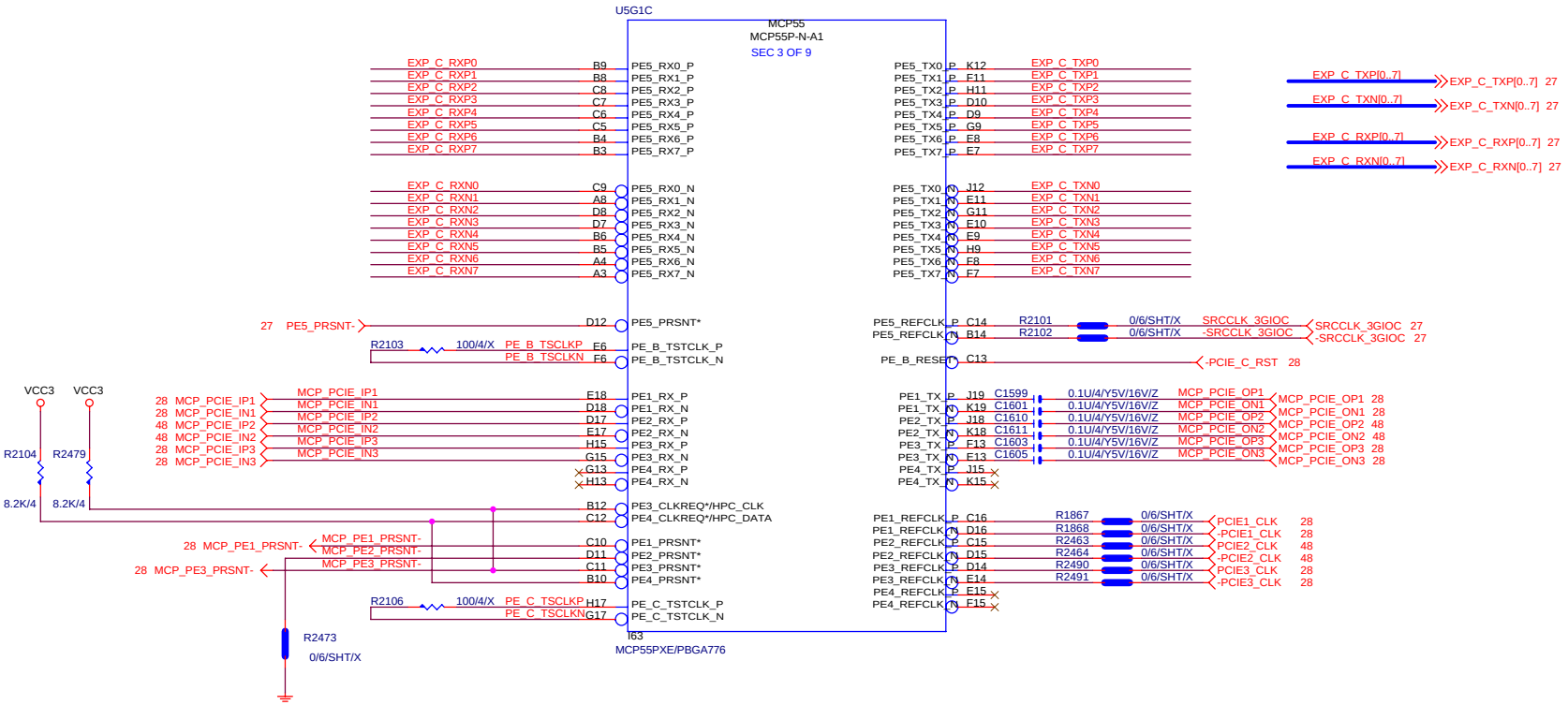

GIGABYTE CORP.		
Title: MCP55 PCIE X8 , X1		
Size: Custom	Document Number: GA-M59SLI-S5	Rev: 1.01
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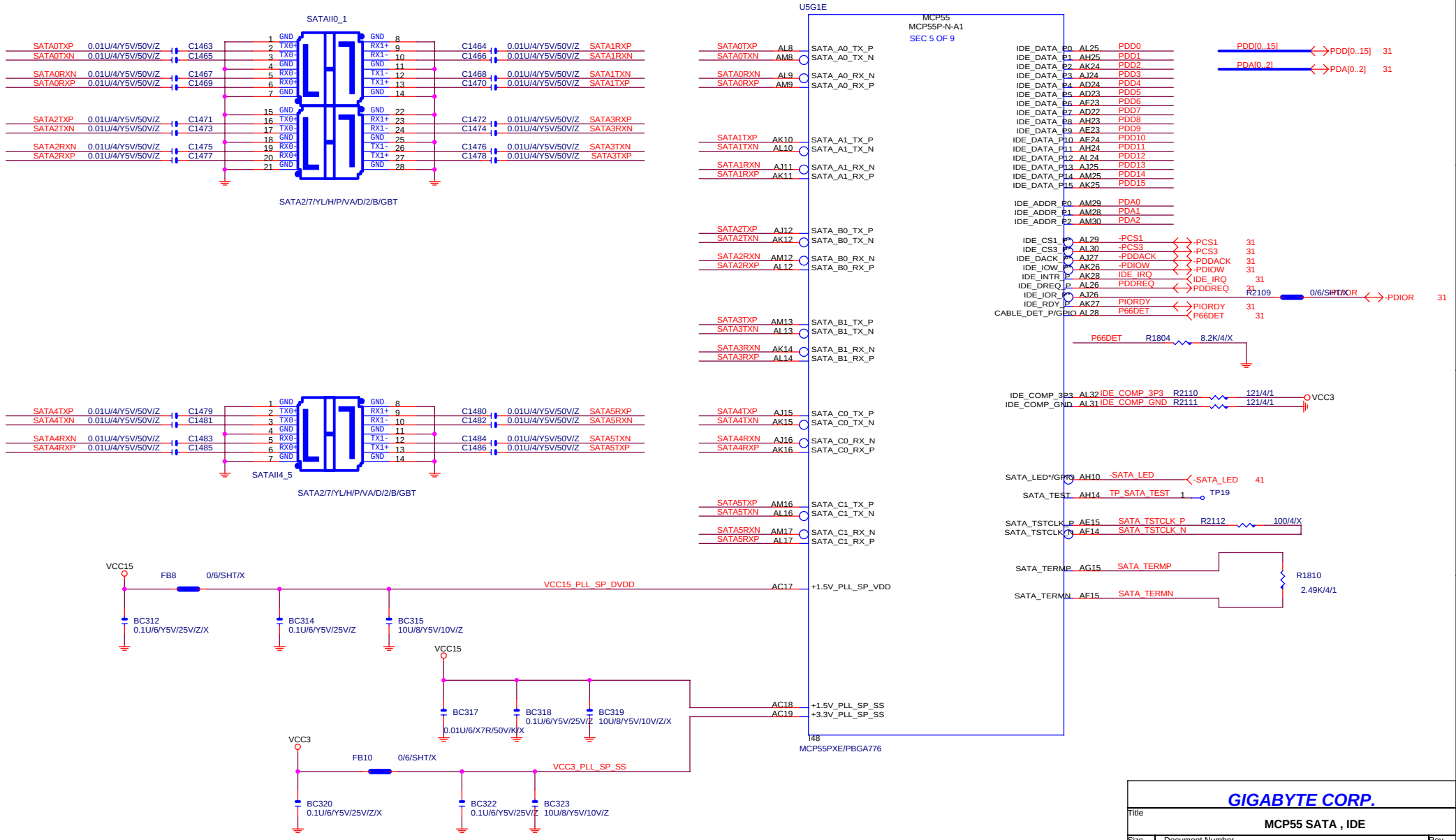

GIGABYTE CORP.		
Title	MCP55 SATA , IDE	
Size: Custom	Document Number: GA-M59SLI-S5	Rev: 1.01
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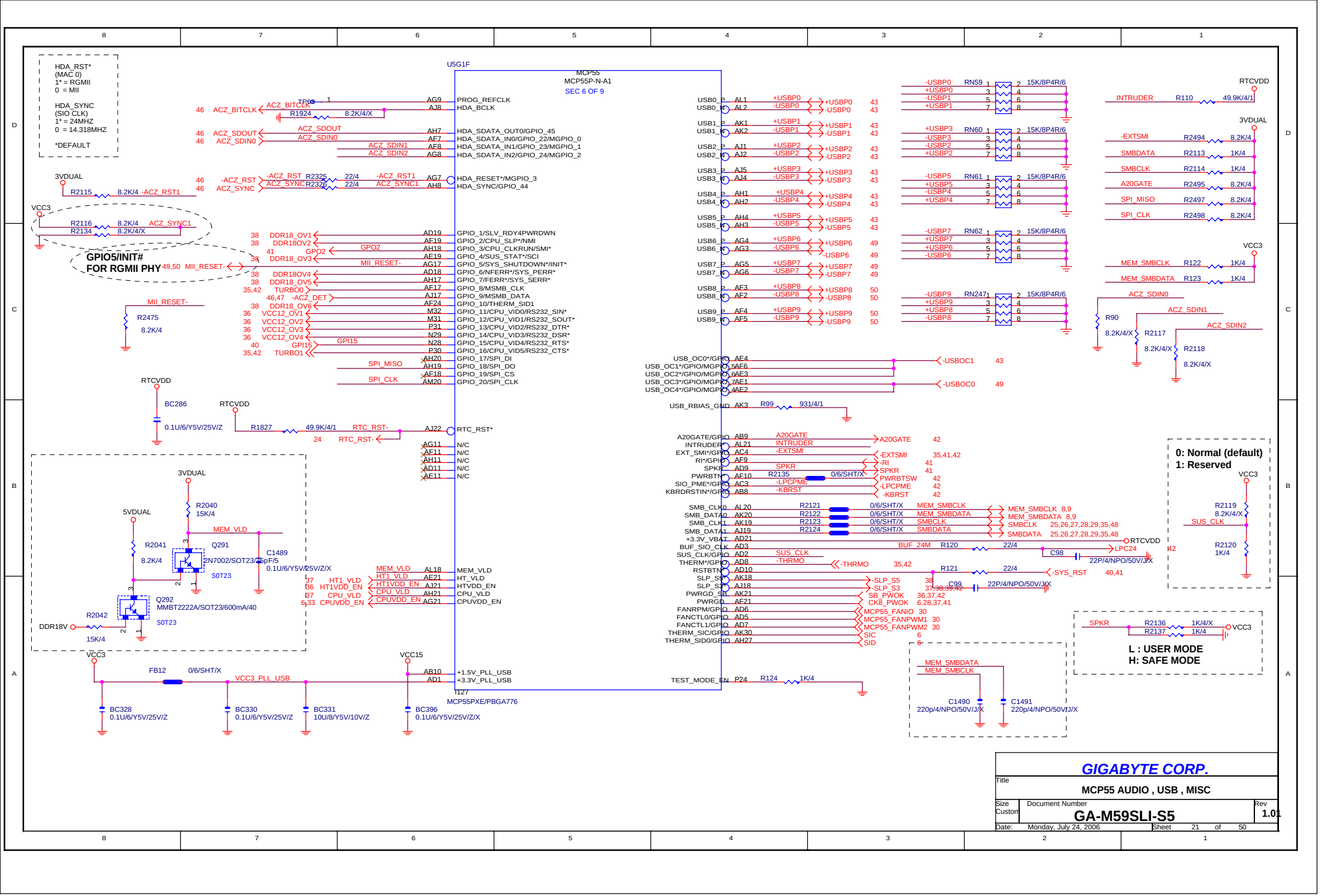
HDA_RST*
(MAC 0)
1* = RGMII
0 = MII
HDA_SYNC
(SIO CLK)
1* = 24MHZ
0 = 14.318MHZ
*DEFAULT
U5G1F
MCP55
MCP55P-N-A1
SEC 6 OF 9
MCP55PXE/PBGA776
GPIO5/INIT#
FOR RGMII PHY
0: Normal (default)
1: Reserved
L : USER MODE
H: SAFE MODE
GIGABYTE CORP.
MCP55 AUDIO , USB , MISC
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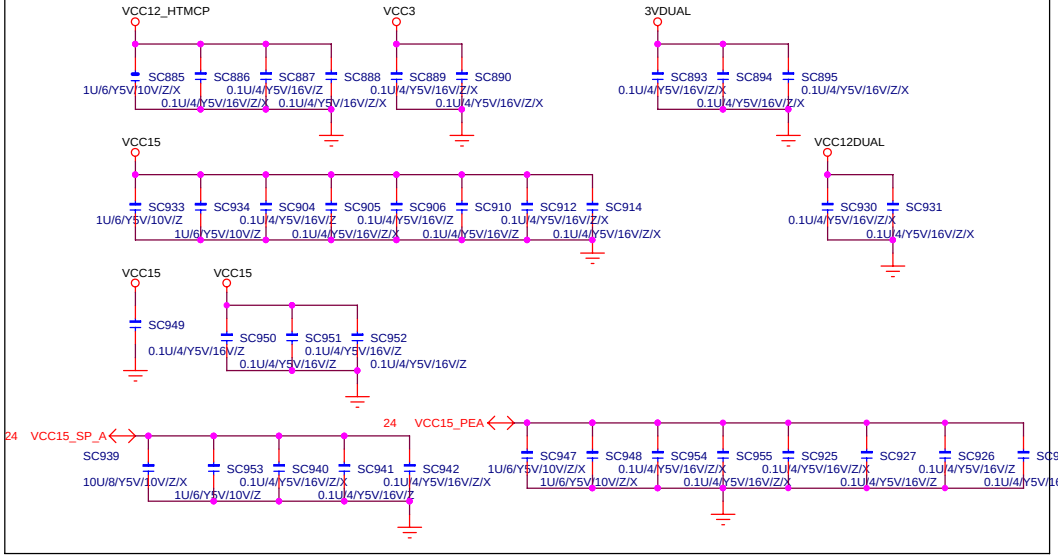
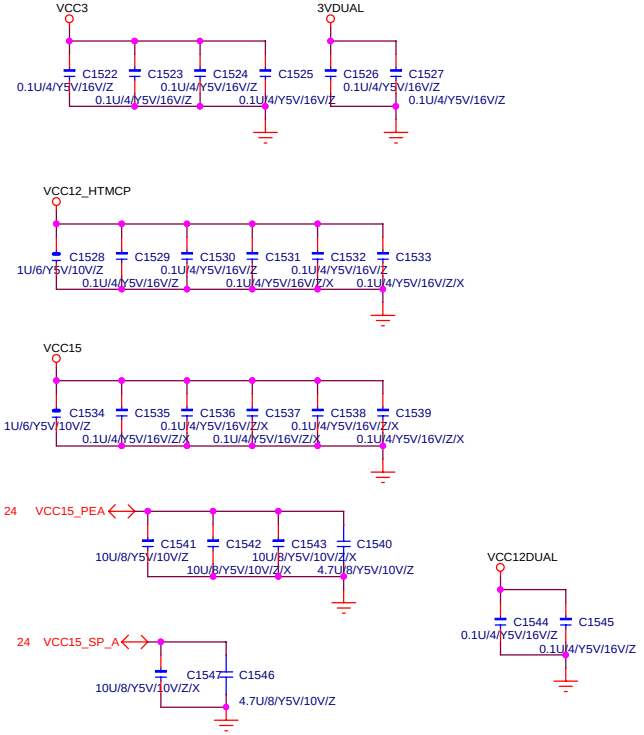
MCP55 BACK SIDE DECOUPLING



MCP55 TOP SIDE DECOUPLING



MCP55 INTERNAL PULL-UP/PULL-DOWN

PIN	VOLTAGE
A20GATE/GPIO	+3.3V
EXT_SMI*/GPIO	+3.3V_DUAL
HDA_SDATA_IN0/GPIO_22/MGPIO_0	+3.3V_DUAL/GND
HDA_SDATA_IN1/GPIO_23/MGPIO_1	+3.3V_DUAL/GND
HDA_SDATA_IN2/GPIO_24/MGPIO_2	+3.3V_DUAL/GND
HDA_SDATA_OUT/GPIO_45	+3.3V_DUAL/GND
JTAG_TDI	+3.3V
JTAG_TMS	+3.3V
JTAG_TRST*	GND
KBRDRSTIN*/GPIO	+3.3V
PE_WAKE*	+3.3V_DUAL
SIO_PME*/GPIO	+3.3V_DUAL
THERM*/GPIO	+3.3V

GIGABYTE CORP.

Title	MCP55 DECOUPLING	
Size: Custom	Document Number: GA-M59SLI-S5	Rev: 1.01
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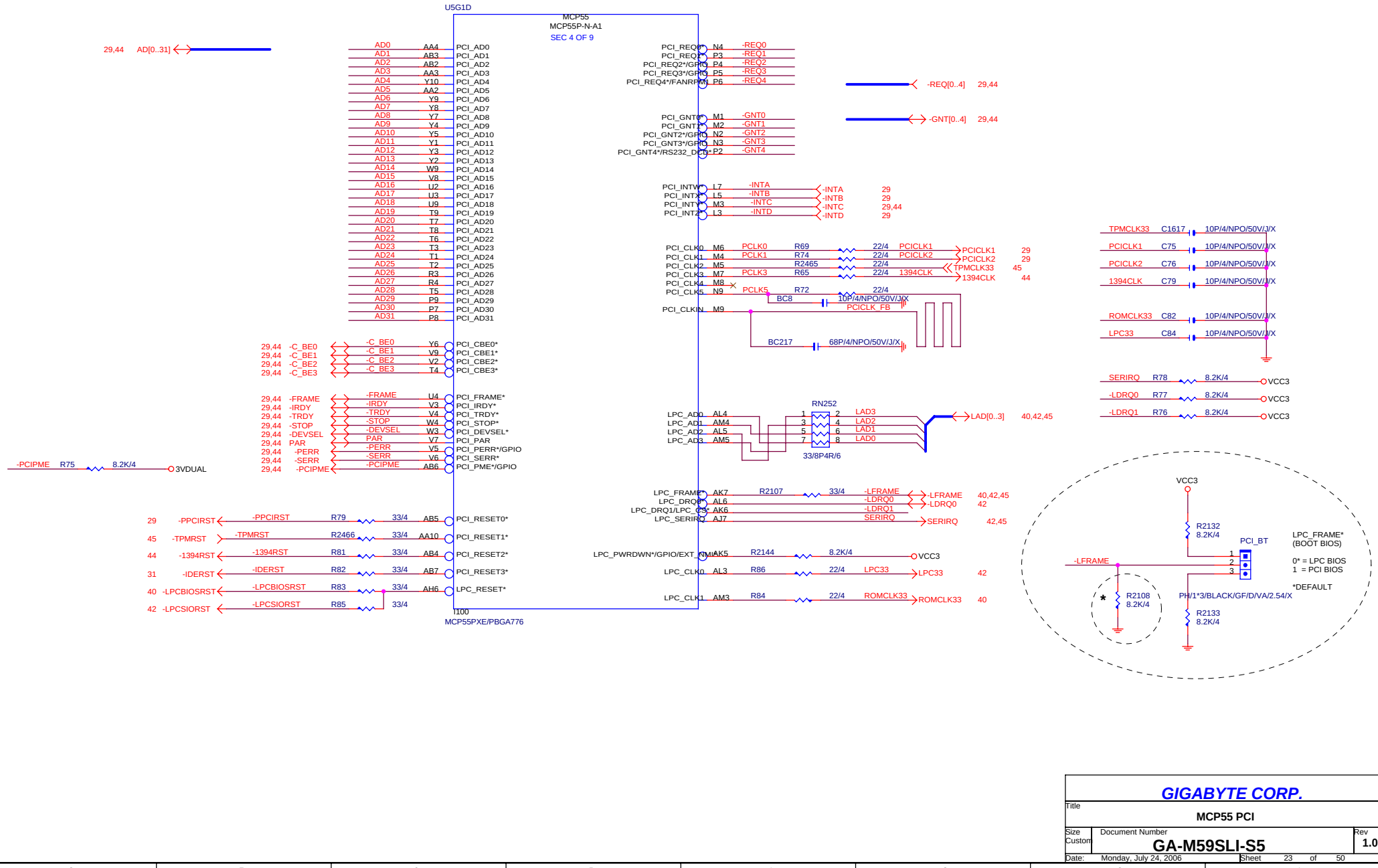

GIGABYTE CORP.		
Title: MCP55 PCI		
Size: Custom	Document Number: GA-M59SLI-S5	Rev: 1.01
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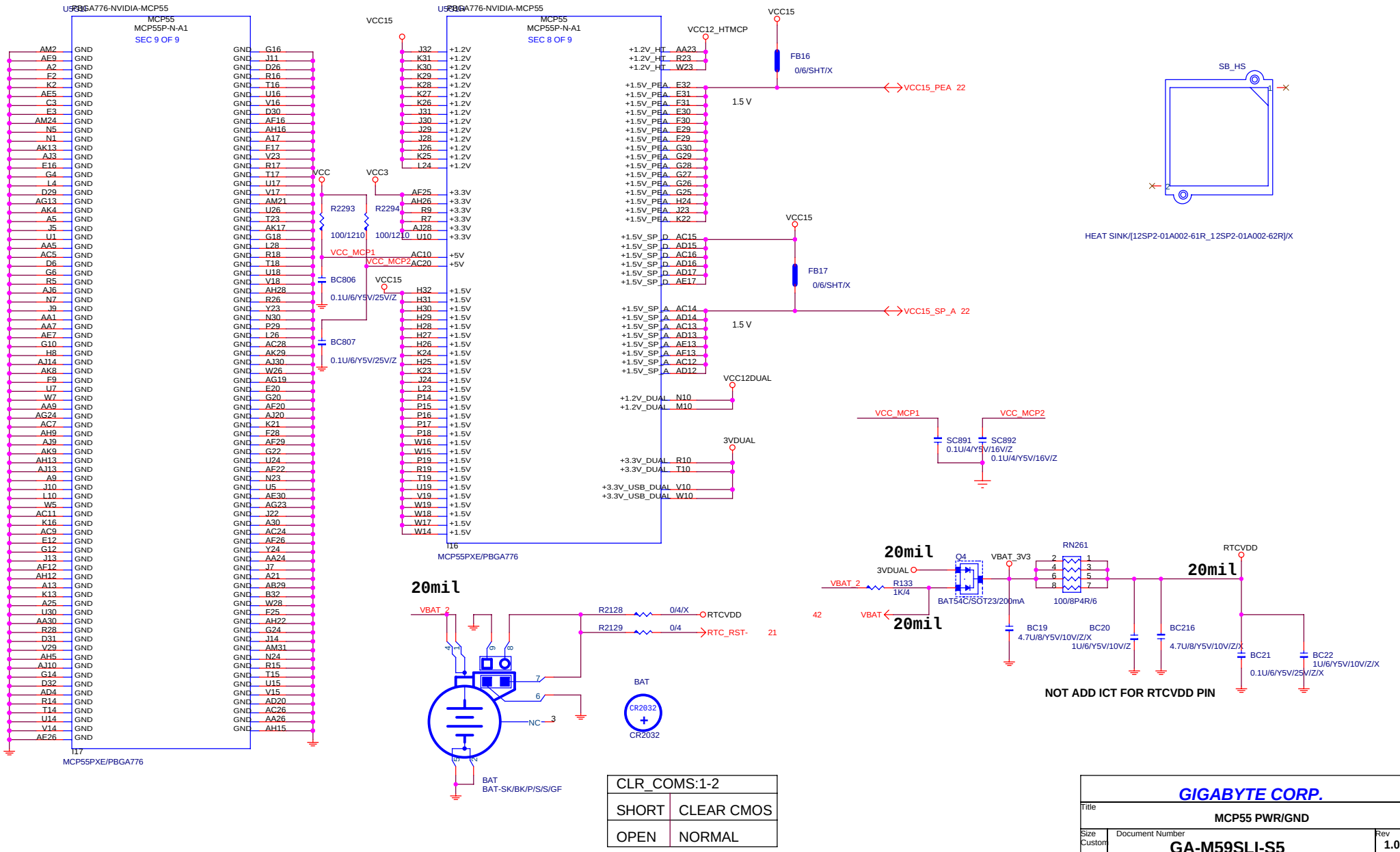

CLR_COMS:1-2	
SHORT	CLEAR CMOS
OPEN	NORMAL

GIGABYTE CORP.

Title	MCP55 PWR/GND	
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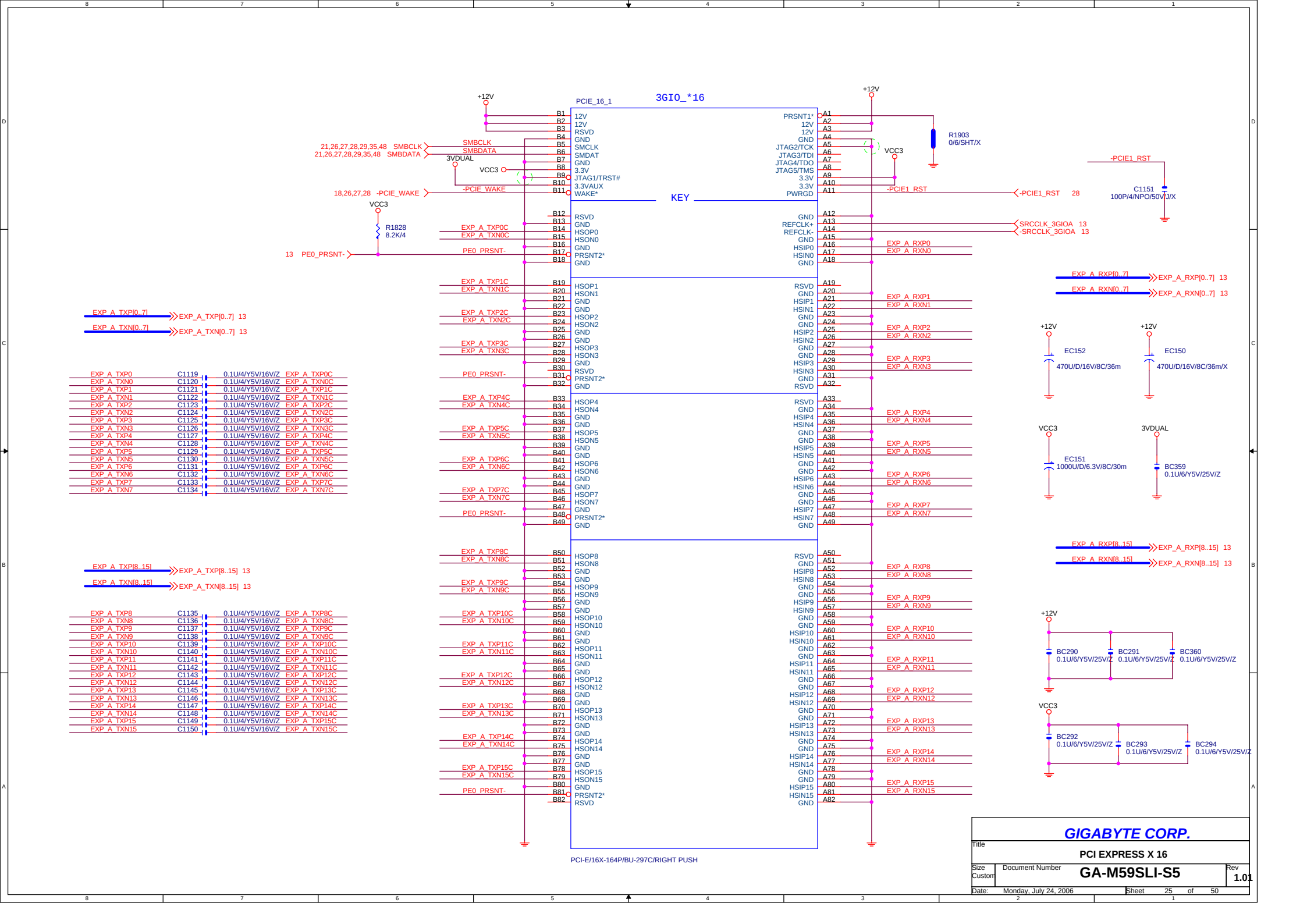
3GIO_*16
PCIE_16_1
KEY
+12V
VCC3
3VDUAL
-PCIE_WAKE
-PCIE1_RST
SMBCLK
SMBDATA
PE0_PRSNT-
R1828 8.2K/4
R1903 0/6/SHT/X
C1151 100P/4/NPO/50V/J/X
EC152 470U/D/16V/8C/36m
EC150 470U/D/16V/8C/36m/X
EC151 1000U/D/6.3V/8C/30m
BC359 0.1U/6/Y5V/25V/Z
BC290 0.1U/6/Y5V/25V/Z
BC291 0.1U/6/Y5V/25V/Z
BC360 0.1U/6/Y5V/25V/Z
BC292 0.1U/6/Y5V/25V/Z
BC293 0.1U/6/Y5V/25V/Z
BC294 0.1U/6/Y5V/25V/Z
PCI-E/16X-164P/BU-297C/RIGHT PUSH
GIGABYTE CORP.
PCI EXPRESS X 16
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1.01
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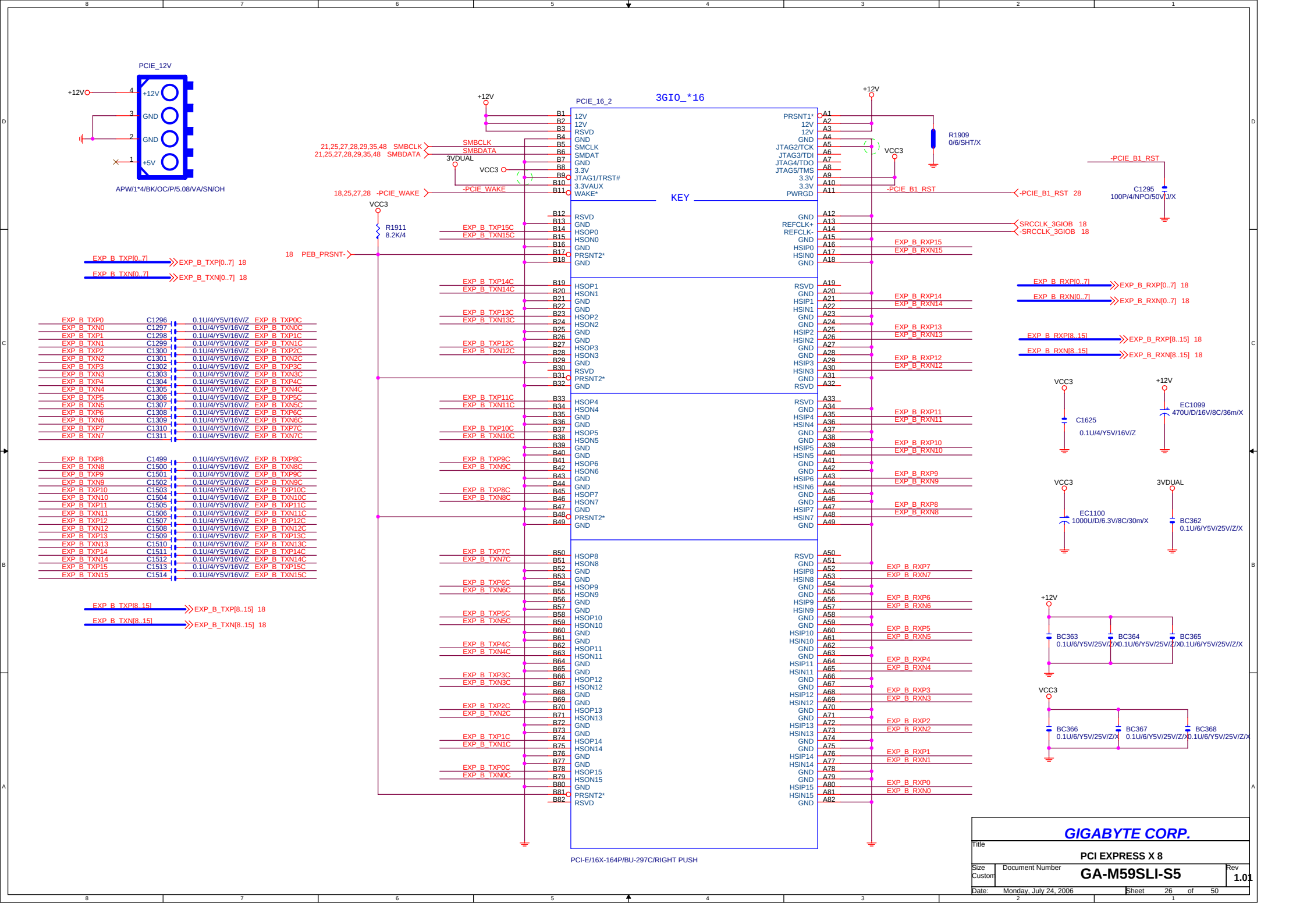
PCIE_12V
+12V
GND
GND
+5V
APW/1*4/BK/OC/P/5.08/VA/SN/OH
PCIE_16_2
3GIO_*16
KEY
PCI-E/16X-164P/BU-297C/RIGHT PUSH
R1911
8.2K/4
R1909
0/6/SHT/X
C1295
100P/4/NPO/50V/J/X
C1625
0.1U/4/Y5V/16V/Z
EC1099
470U/D/16V/8C/36m/X
EC1100
1000U/D/6.3V/8C/30m/X
BC362
0.1U/6/Y5/25V/Z/X
BC363
BC364
BC365
BC366
BC367
BC368
GIGABYTE CORP.
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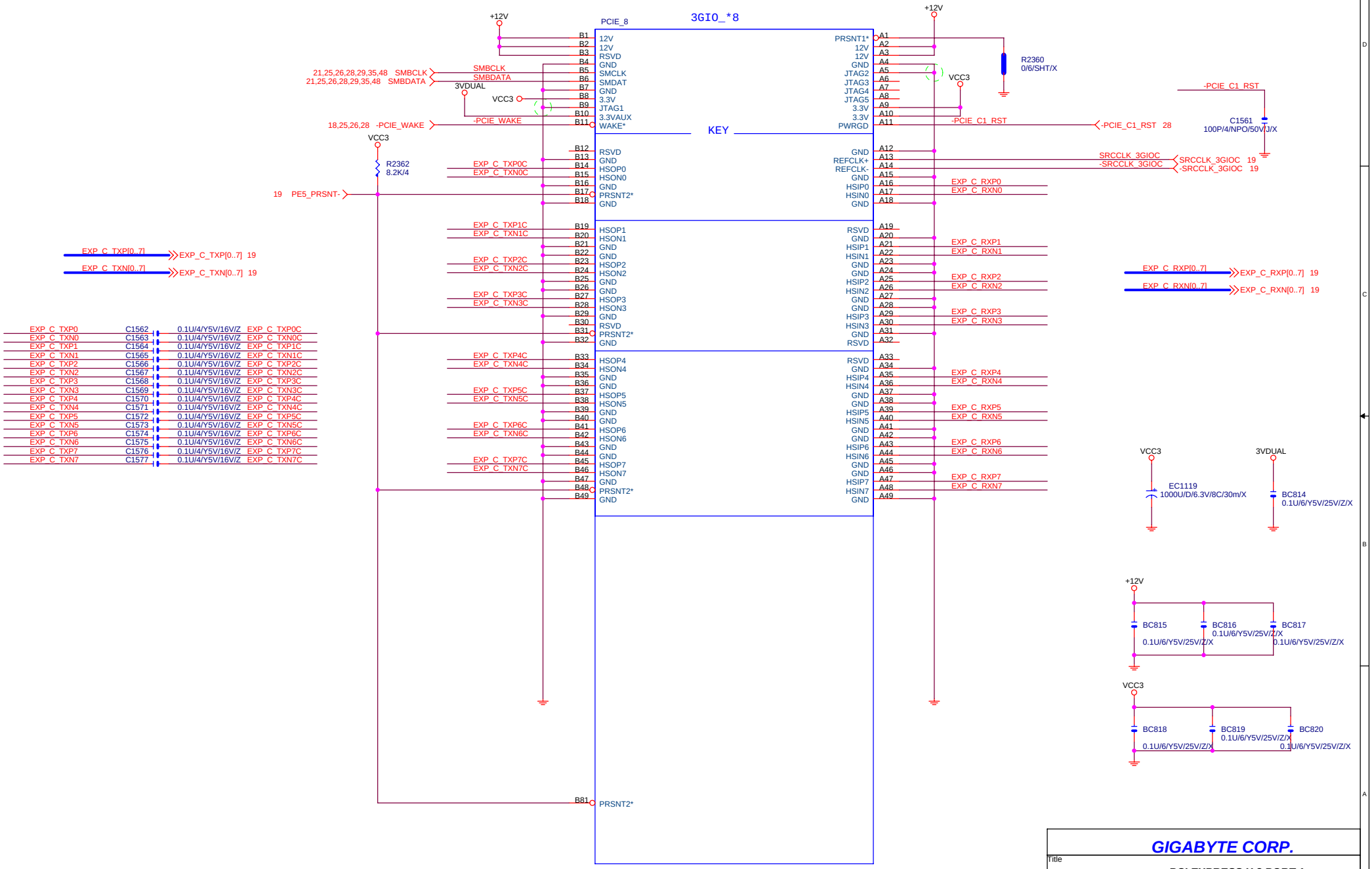

EXP_C_TXP0	C1562	0.1U/4/Y5V/16V/Z EXP_C_TXP0C
EXP_C_TXN0	C1563	0.1U/4/Y5V/16V/Z EXP_C_TXN0C
EXP_C_TXP1	C1564	0.1U/4/Y5V/16V/Z EXP_C_TXP1C
EXP_C_TXN1	C1565	0.1U/4/Y5V/16V/Z EXP_C_TXN1C
EXP_C_TXP2	C1566	0.1U/4/Y5V/16V/Z EXP_C_TXP2C
EXP_C_TXN2	C1567	0.1U/4/Y5V/16V/Z EXP_C_TXN2C
EXP_C_TXP3	C1568	0.1U/4/Y5V/16V/Z EXP_C_TXP3C
EXP_C_TXN3	C1569	0.1U/4/Y5V/16V/Z EXP_C_TXN3C
EXP_C_TXP4	C1570	0.1U/4/Y5V/16V/Z EXP_C_TXP4C
EXP_C_TXN4	C1571	0.1U/4/Y5V/16V/Z EXP_C_TXN4C
EXP_C_TXP5	C1572	0.1U/4/Y5V/16V/Z EXP_C_TXP5C
EXP_C_TXN5	C1573	0.1U/4/Y5V/16V/Z EXP_C_TXN5C
EXP_C_TXP6	C1574	0.1U/4/Y5V/16V/Z EXP_C_TXP6C
EXP_C_TXN6	C1575	0.1U/4/Y5V/16V/Z EXP_C_TXN6C
EXP_C_TXP7	C1576	0.1U/4/Y5V/16V/Z EXP_C_TXP7C
EXP_C_TXN7	C1577	0.1U/4/Y5V/16V/Z EXP_C_TXN7C

Title	PCI EXPRESS X 8 PORT 1				
Size	Custom	Document Number	GA-M59SLI-S5		Rev 1.01
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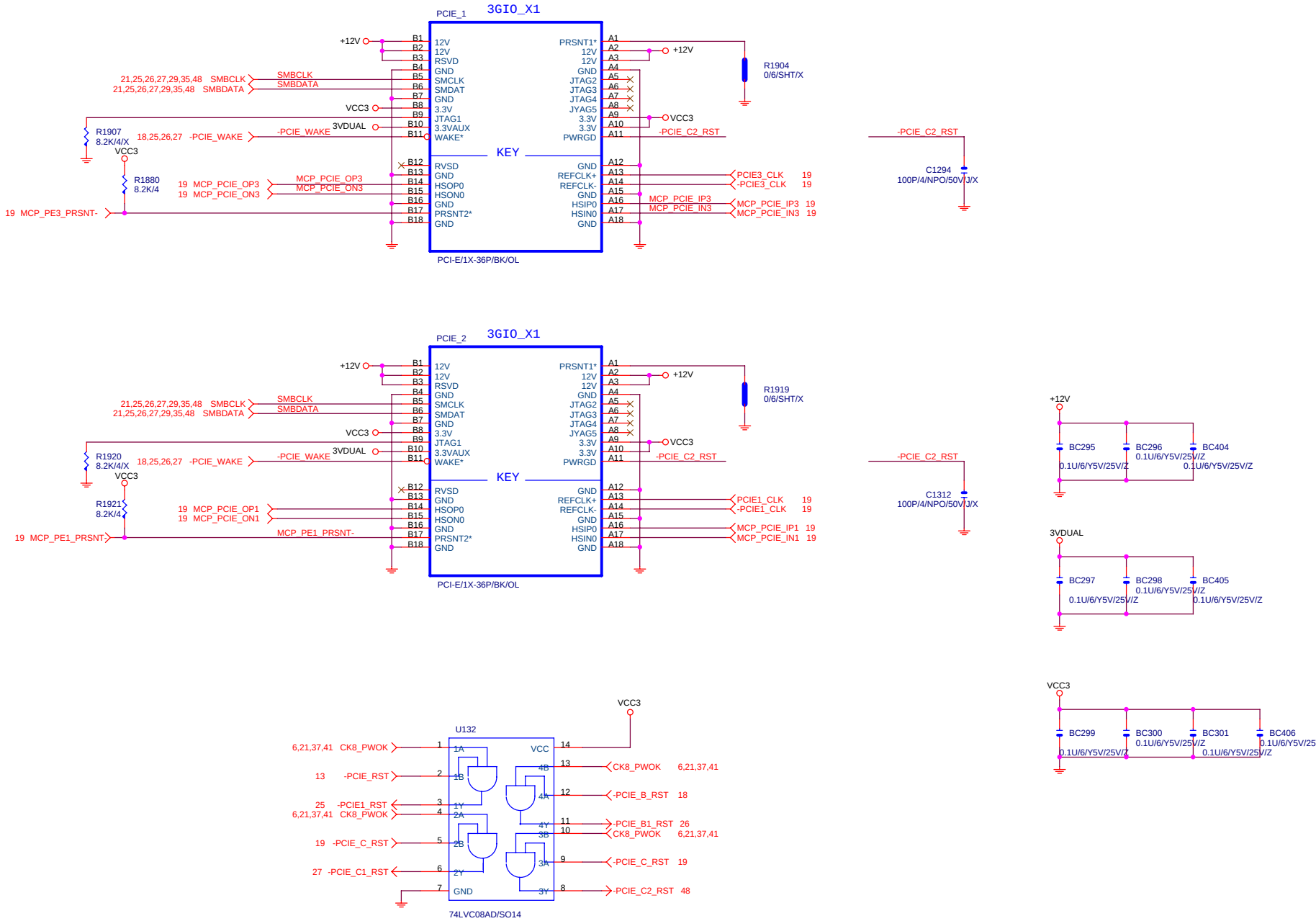
GIGABYTE CORP.



GIGABYTE CORP.		
Title	**PCI E SLOT 1, 2, 3**	
Size: B	Document Number: **GA-M59SLI-S5**	Rev: **1.01**
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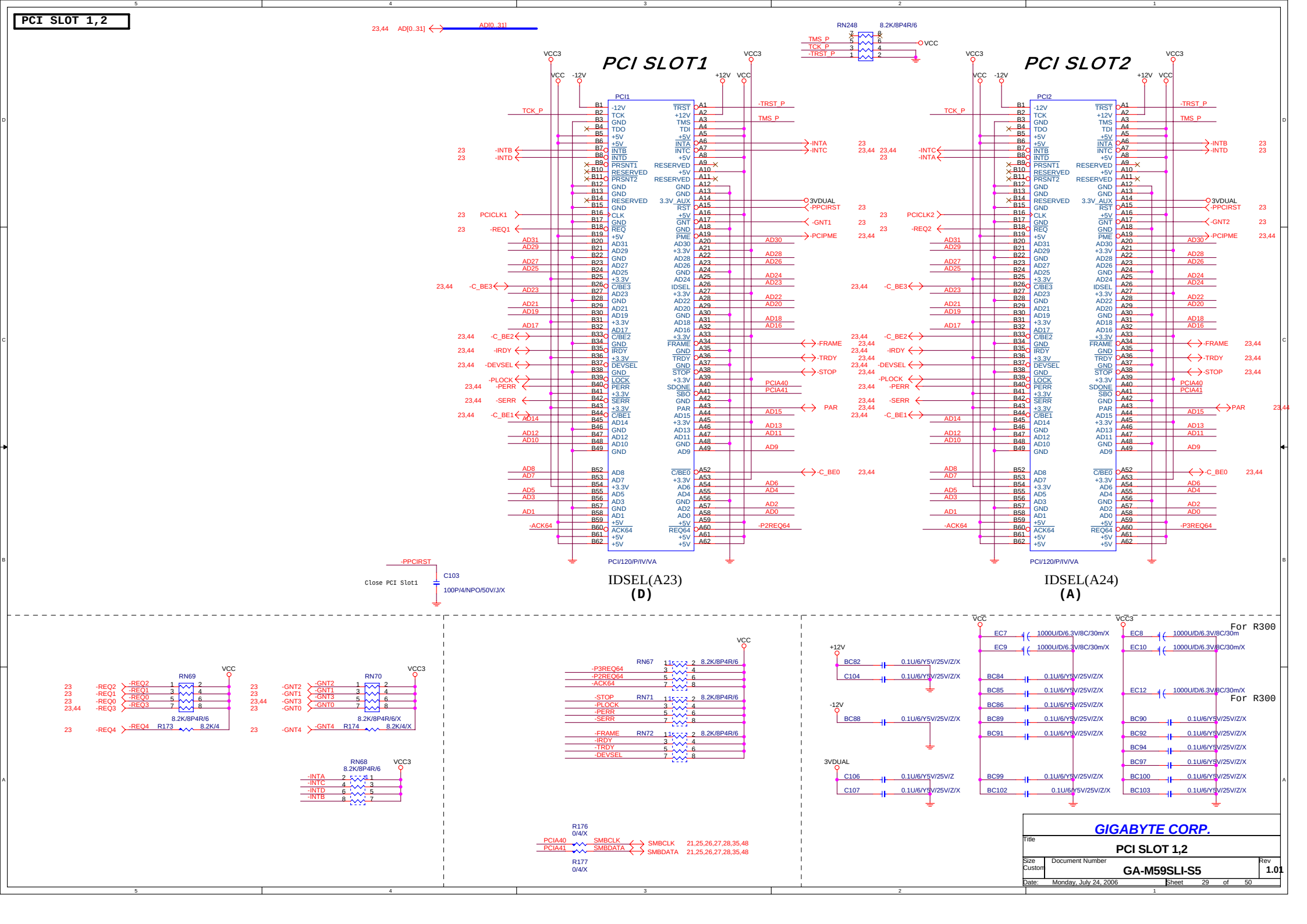
PCI SLOT 1,2



Title	PCI SLOT 1,2
Size	Custom
Document Number	GA-M59SLI-S5
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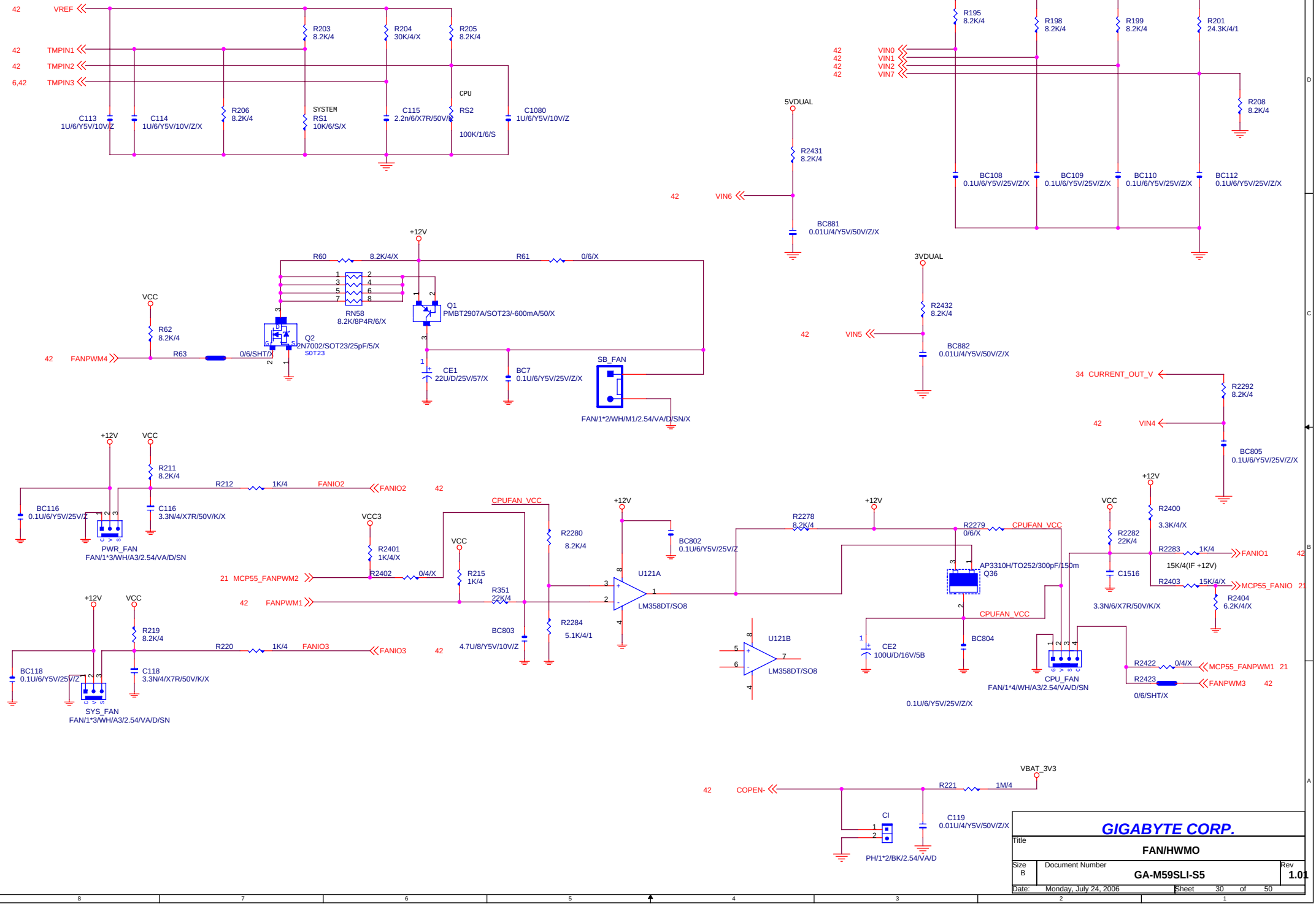
GIGABYTE CORP.

Hardware Monitor circuits



GIGABYTE CORP.

Title	FAN/HWMO	
Size B	Document Number GA-M59SLI-S5	Rev 1.01
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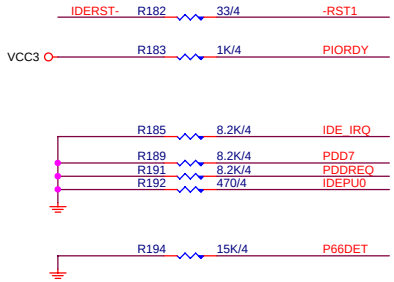
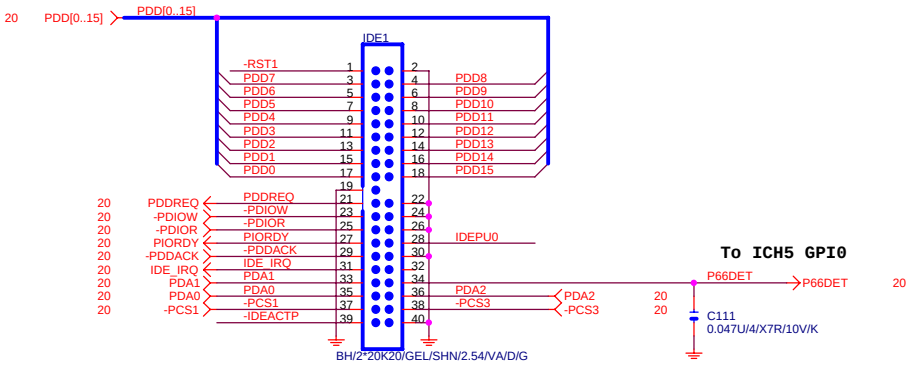
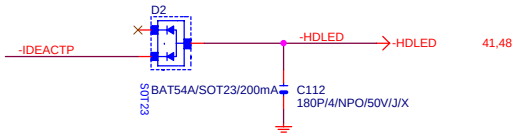


PRIMARY IDE CONNECTOR





GIGABYTE CORP.		
Title: IDE CONNECTOR		
Size: B	Document Number: GA-M59SLI-S5	Rev: 1.01
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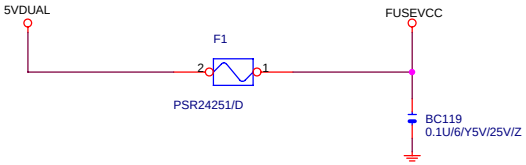

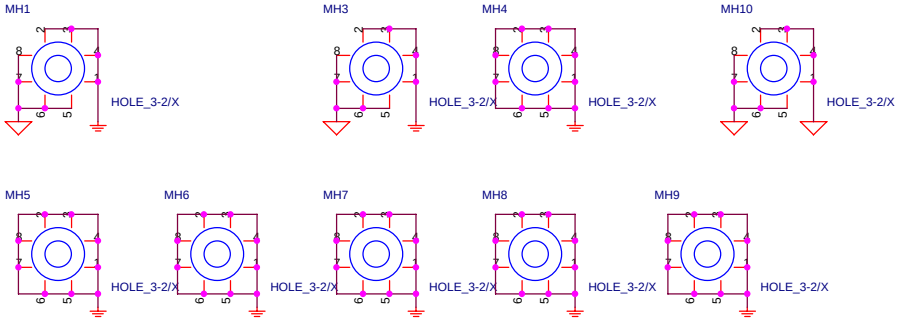

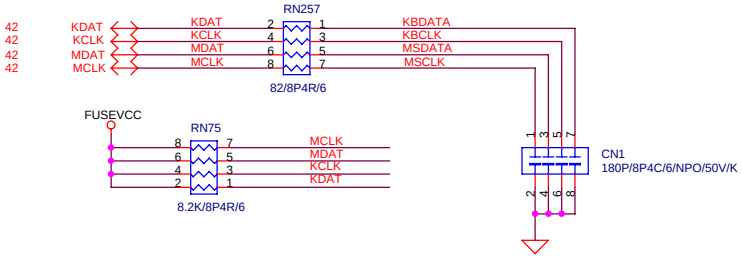

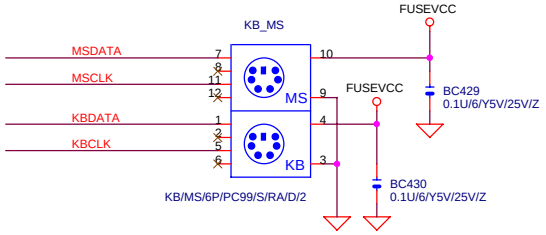

GIGABYTE CORP.

Title: KB & PS2 MOUSE & IR		
Size: B	Document Number: GA-M59SLI-S5	Rev: 1.01
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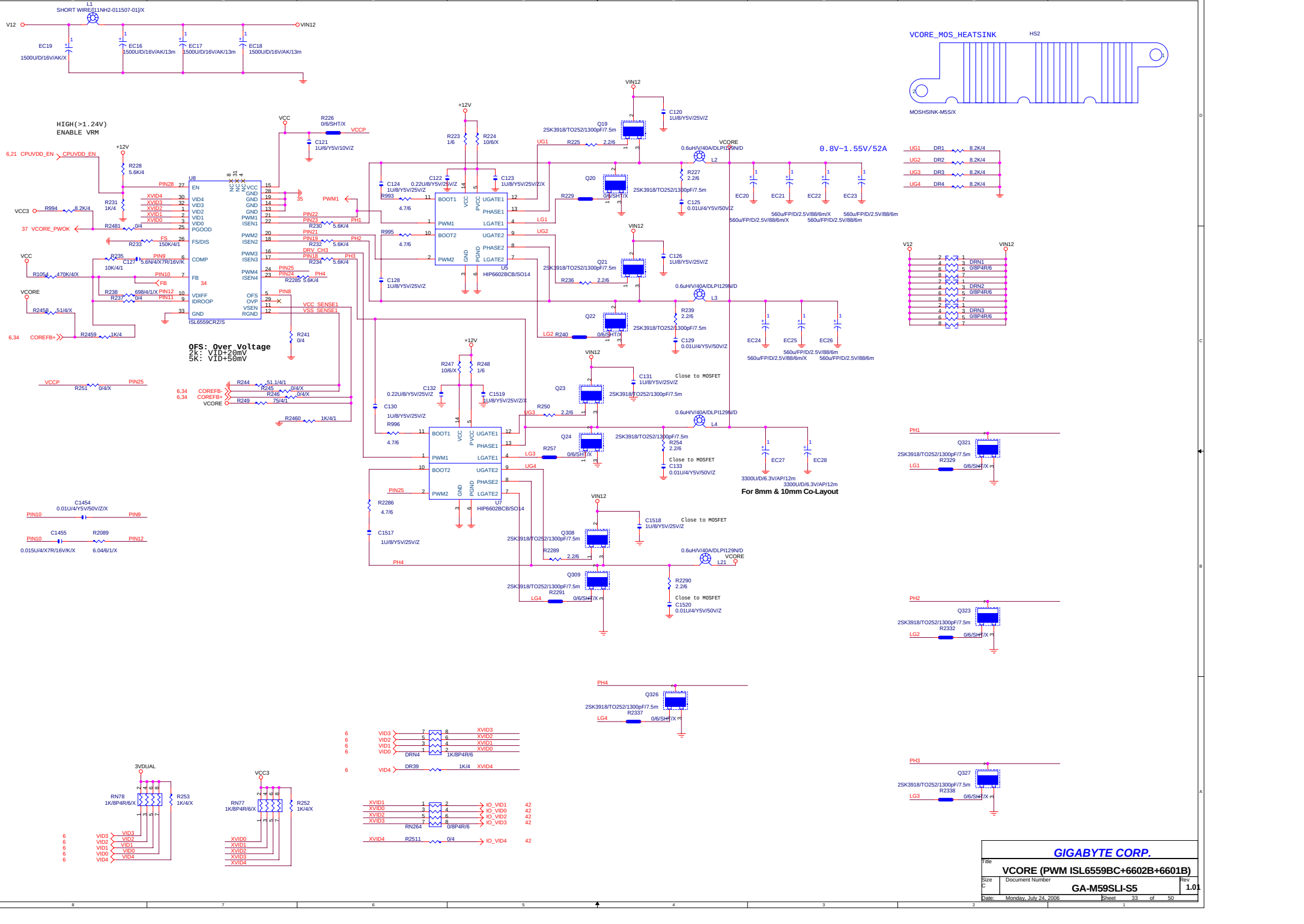

GIGABYTE CORP.		
Title	VCORE (PWM ISL6559BC+6602B+6601B)	
Size C	Document Number GA-M59SLI-S5	Rev 1.01
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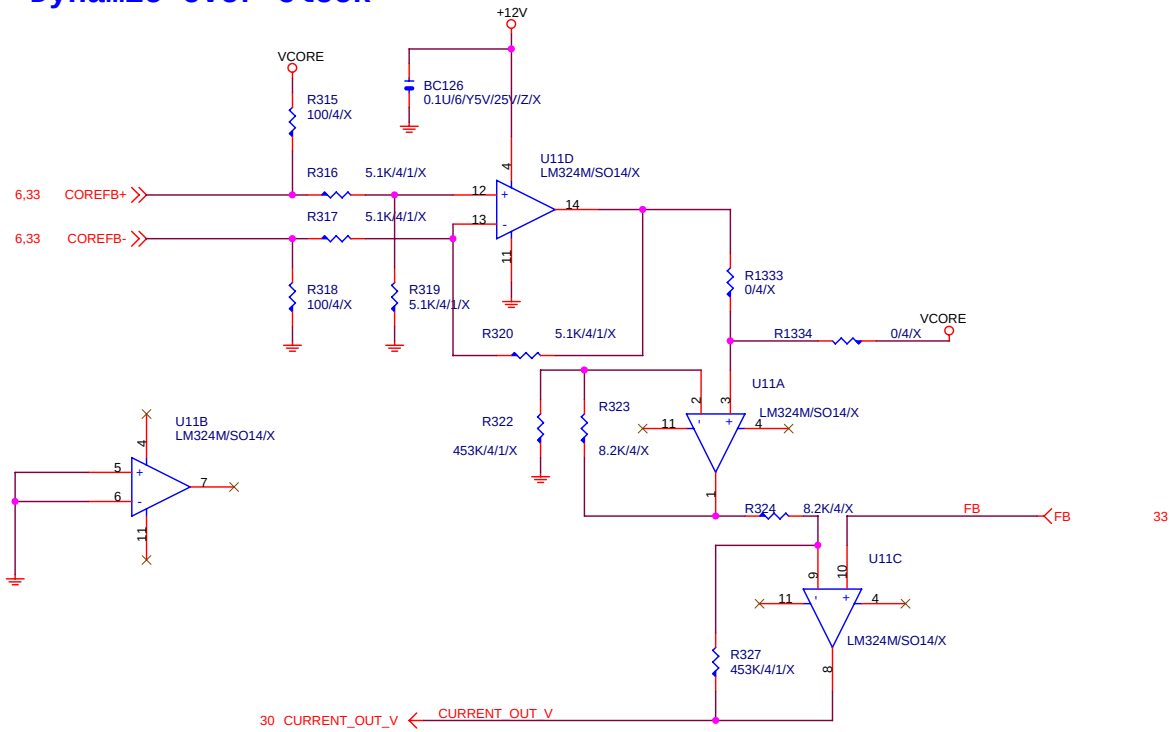
Dynamic Over-Clock



GIGABYTE CORP.		
Title: Dynamic Over-Clock		
Size: B	Document Number: GA-M59SLI-S5	Rev: 1.01
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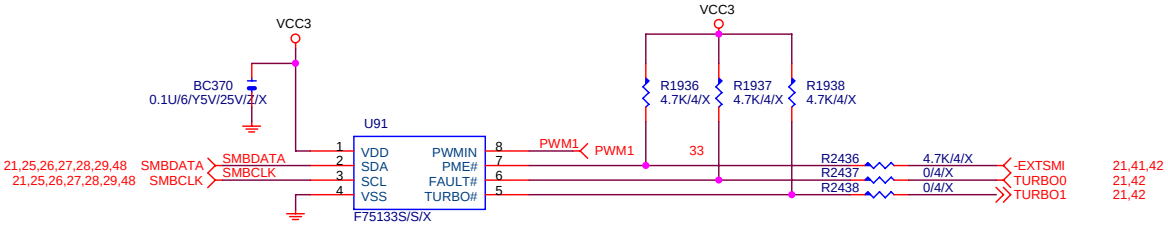

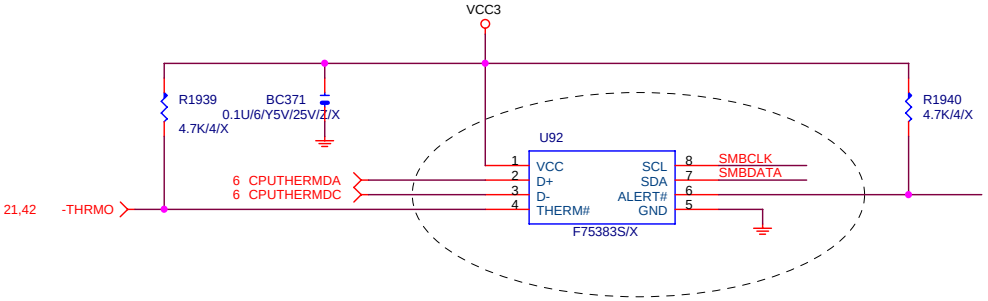

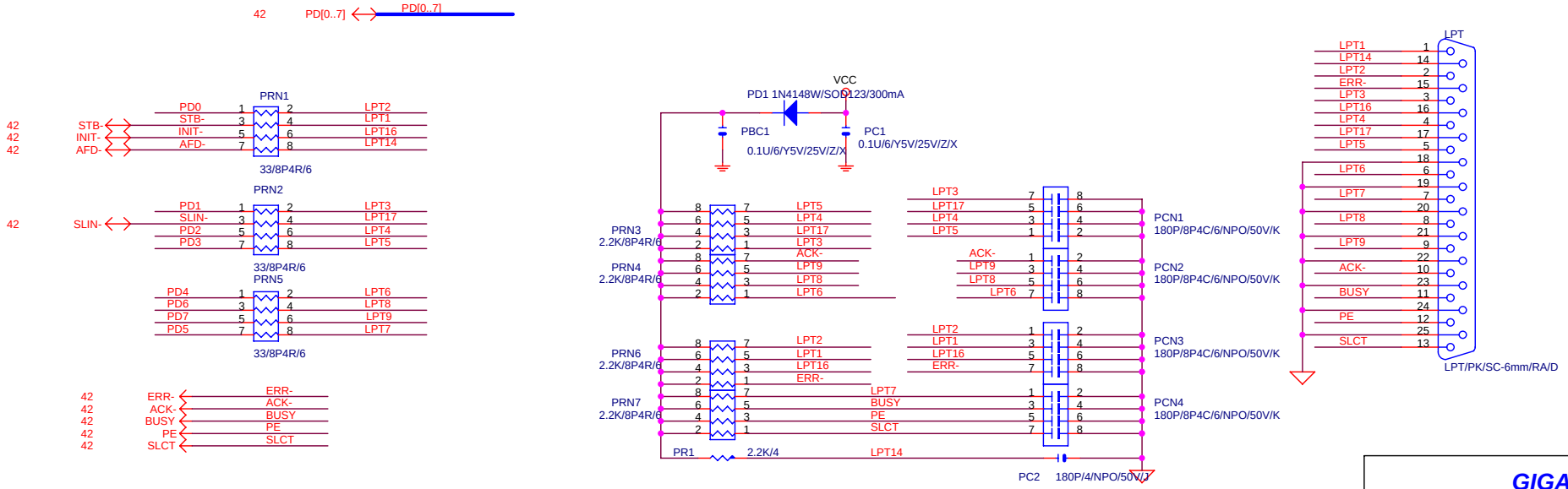

GIGABYTE CORP.		
Title: F75383S		
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1.5V@850mA Max

使用1A PART

AMC1117SK/SOT223/0.8A
Q314
VCC12DUAL
3VDUAL
R2126 100/4/1
R2127 20/4/1
EC1115 100U/D/10V/57
BC813 10U/8/Y5V/10V/Z
BC400 0.1U/6/Y5V/25V/Z

3VDUAL
+12V
R1073 3.6K/4/1
C175 0.1U/6/Y5V/25V/Z
U12A LM324M/SO14
R367 2K/4/1
C176 0.01U/4/Y5V/50V/Z/X
C1281 0.01U/4/Y5V/50V/Z/X
VCC15
1U/6/Y5V/10V/Z/X
BC128
AOD420/TO252/710pF/25m Q319
Q318
AOD420/TO252/710pF/25m/X
Z218
VCC12
R368 1K/4/1
C177 1U/6/Y5V/10V/Z/X
EC1116 1000U/D/6.3V/8C/30m
EC1117 1000U/D/6.3V/8C/30m
D73
BAT54A/SOT23/200mA
R2312 12K/4/1
R2313 6.2K/4
VCC12_OV1 21
VCC12_OV2 21
D71
R2320 4.7K/4/1/X
R2405 3.3K/4/1/X
VCC12_OV3 21
VCC12_OV4 21
BAT54A/SOT23/200mA/X

5VSB
HT1_EN
R1922 1K/4
Q283 2N7002/SOT23/25pF/5
Q282 MMBT2222A/SOT23/600mA/40
21 HT1VDD_EN
R1923 8.2K/4
BC369 0.1U/4/Y5V/16V/Z
HT2_EN
Q336 2N7002/SOT23/25pF/5/X

VCC12_HT
BC205 4.7U/8/Y5V/10V/Z
VCC12_HT
BC206 1U/6/Y5V/10V/Z

3VDUAL
+12V
R373 3.6K/4/1
HT1_EN
R375 2K/4/1
U12B LM324M/SO14
Q70 AOD420/TO252/710pF/25m
VCC3
BC129 1U/6/Y5V/10V/Z
VCC12_HT
C181 0.01U/4/Y5V/50V/Z/X
EC38 1000U/D/6.3V/8C/30m
EC39 1000U/D/6.3V/8C/30m/X
R376 1K/4/1
C1616 0.01U/4/Y5V/50V/Z/X
R378 12K/4/1
R377 6.2K/4
VCC12HT_OV1 42
VCC12HT_OV2 42

850mA

5VSB
VDDA25_EN
R380 8.2K/4
Q71 2N7002/SOT23/25pF/5
Q72 MMBT2222A/SOT23/600mA/40
DDR18V
R1356 8.2K/4
R385 47K/4/X
BC130 0.1U/6/Y5V/25V/Z

3VDUAL
+12V
R381 3.6K/4/1
HT2_EN
R384 2K/4/1
U12C LM324M/SO14
C183 0.01U/4/Y5V/50V/Z/X
C182 0.01U/4/Y5V/50V/Z/X
VCC3
1U/6/Y5V/10V/Z BC202
Q73 AOD420/TO252/710pF/25m
VCC12_HTMCP
R386 1K/4/1
BC131 4.7U/8/Y5V/10V/Z
EC1124 1000U/D/6.3V/8C/30m
R1786 1K/4/X
R2322 12K/4/1
R2323 6.2K/4
VCC12_CORE_OV1 42
VCC12_CORE_OV2 42

1.3V 850mA

5VDUAL
BC133 0.1U/6/Y5V/25V/Z
3VDUAL
R392 22K/4/X
R390 0/4/X
SB_PWOK 21,37,42
Q75 KD1084ADT/TO252/5A
R393 100/4/1
R396 169/4/1
BC134 0.1U/6/Y5V/25V/Z
EC43 1000U/D/6.3V/8C/30m
BC135 4.7U/8/Y5V/10V/Z/X
C185 1U/6/Y5V/10V/Z/X

3VDUAL
R389 1K/4/1
VDDA25_EN
R2487 3K/4/1
+12V
U12D LM324M/SO14
V25_G
Q74 2N7002/SOT23/25pF/5
VCC3
BC132 0.01U/4/Y5V/50V/Z
Q340 2N7002/SOT23/25pF/5
V25_G
VDDA25
C184 0.01U/4/Y5V/50V/Z/X
C186 0.01U/4/Y5V/50V/Z
R395 1K/4/X
BC136 0.1U/6/Y5V/25V/Z
EC40 100U/D/10V/57

AMC1117SK/SOT223/0.8A
Q304
2P5V_PWR
VCC
CR176 100/4/1
R2265 100/4/1
EC1113 10U/8/Y5V/10V/Z/X
BC792 10U/8/Y5V/10V/Z/X
BC791 0.1U/6/Y5V/25V/Z/X

3VDUAL
BC211 0.1U/6/Y5V/25V/Z
EC144 1000U/D/6.3V/8C/30m/X

2P5V_PWR
EC1125 100U/D/10V/57

GIGABYTE CORP.		
Title	VCC12_HT,VCCA25,PLL POWER	
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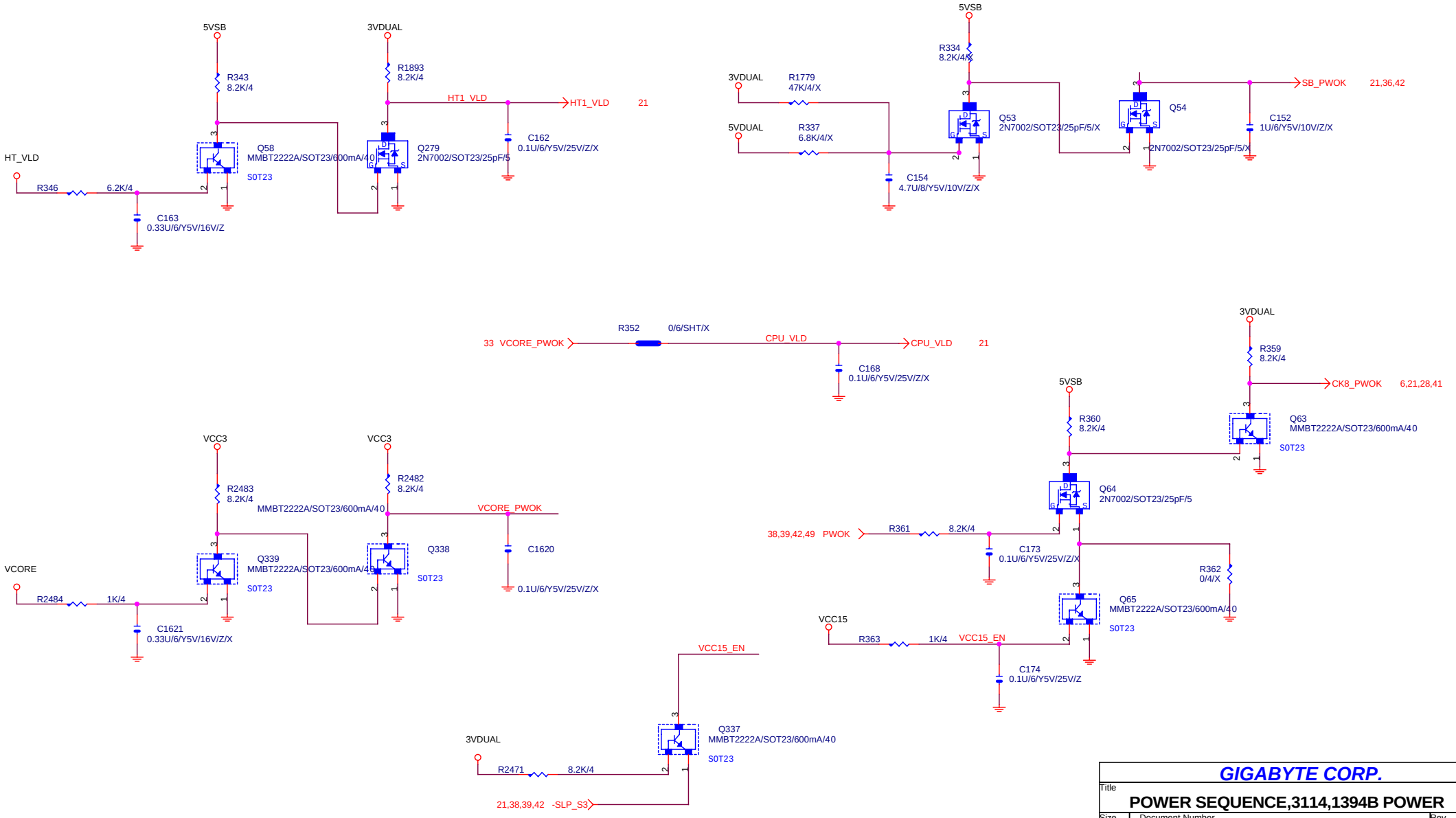
DDR25V FOR DDR DIMM & NB



GIGABYTE CORP.

Title	POWER SEQUENCE,3114,1394B POWER	
Size	Document Number GA-M59SLI-S5	Rev 1.01
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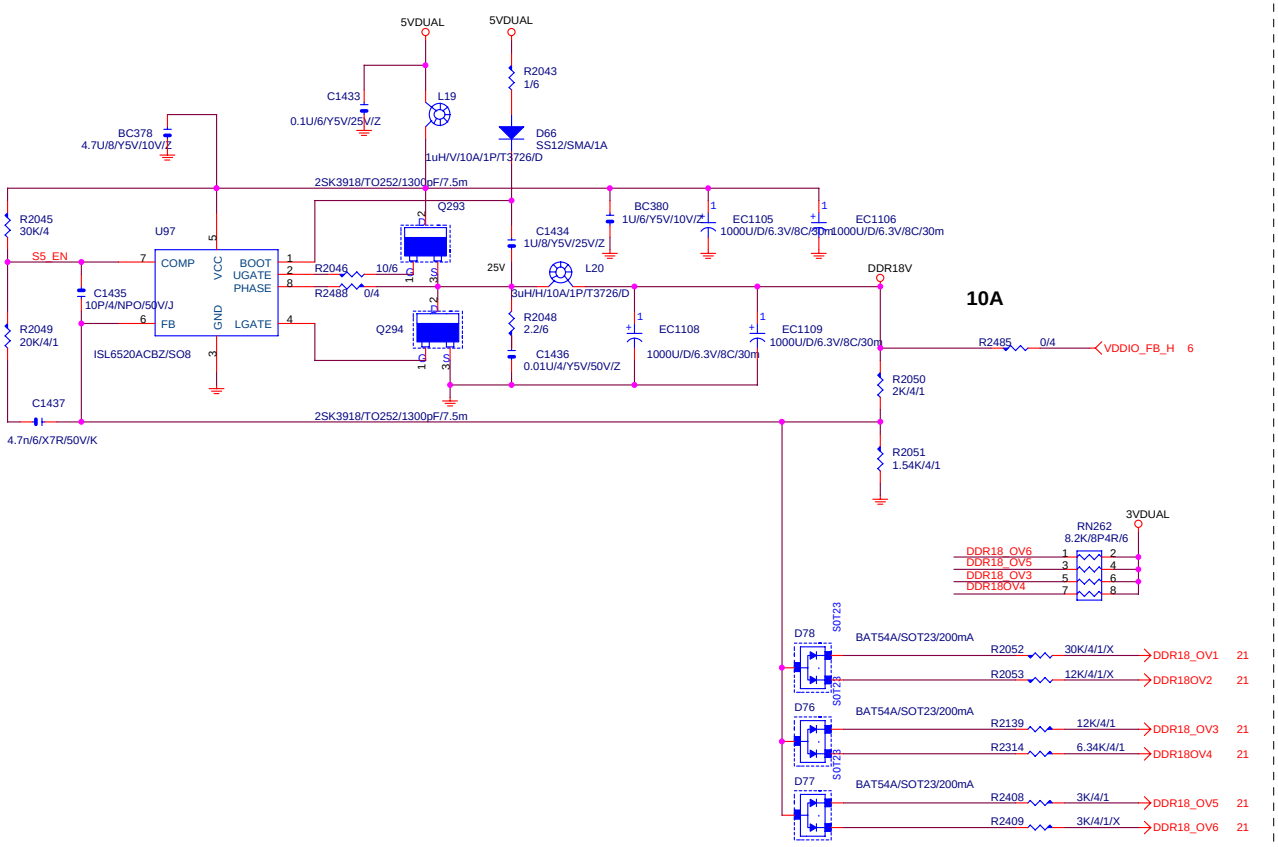

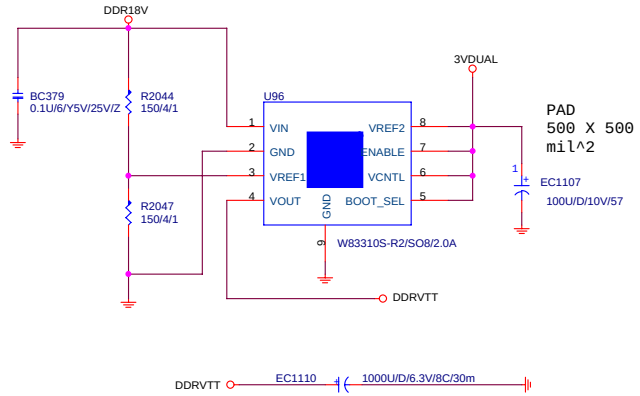

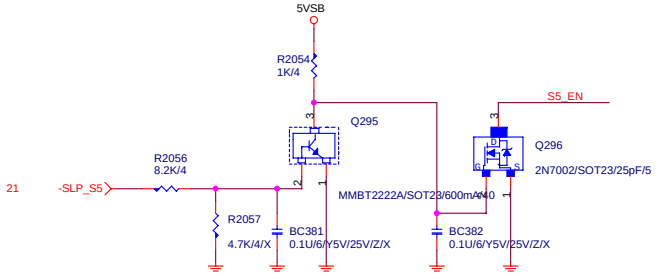

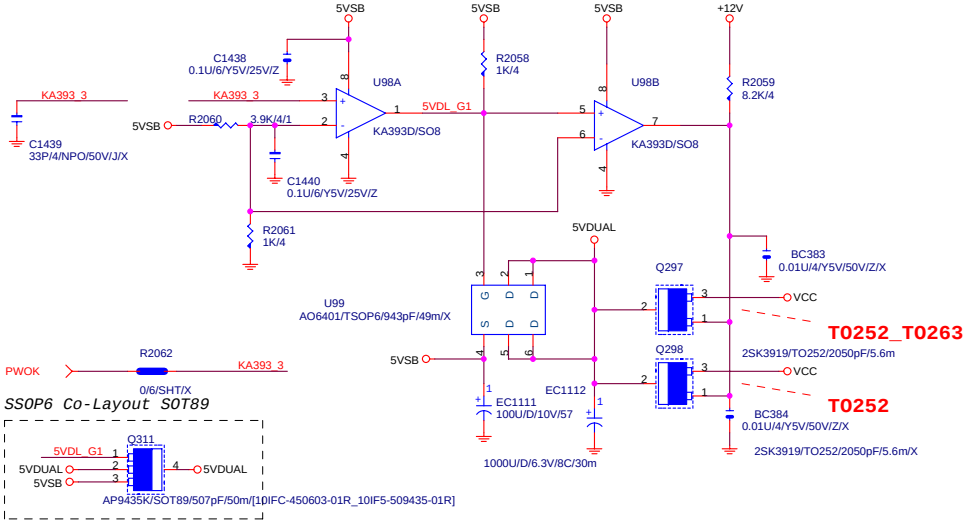

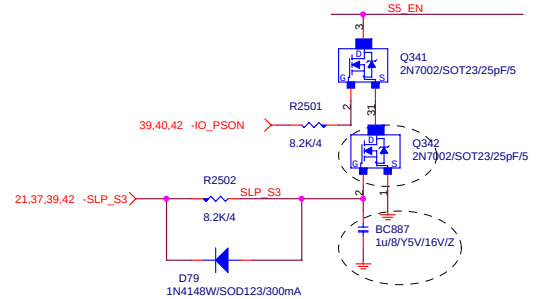

GIGABYTE CORP.

Title: **DDR18 , DDRVTT , 5VDUAL**

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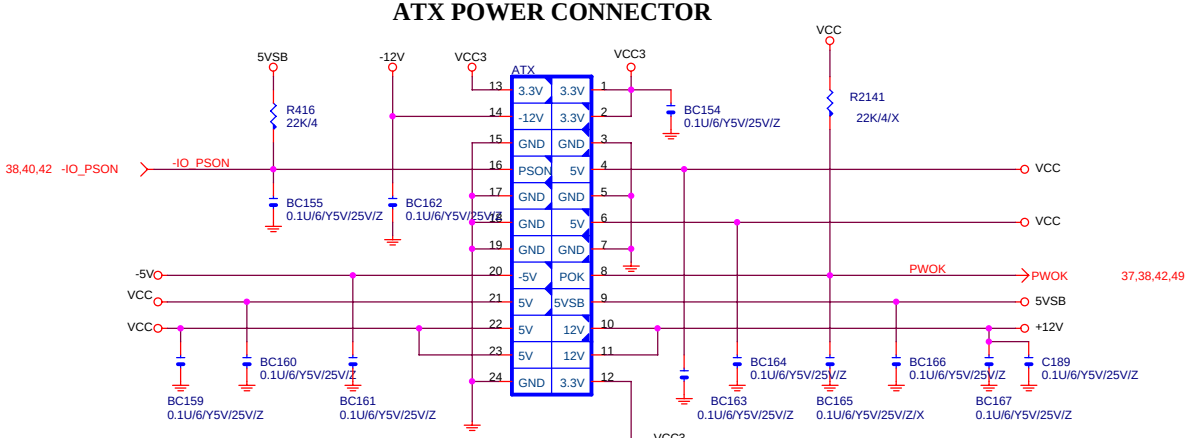
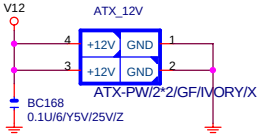
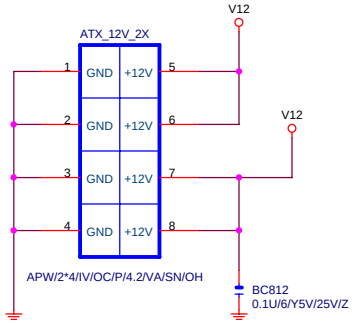
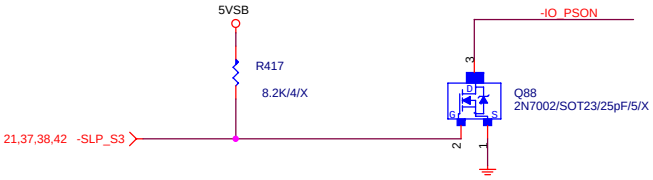
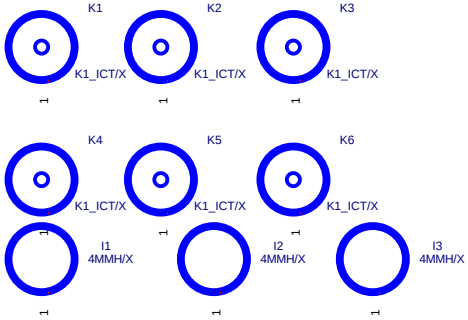
ATX POWER CONNECTOR

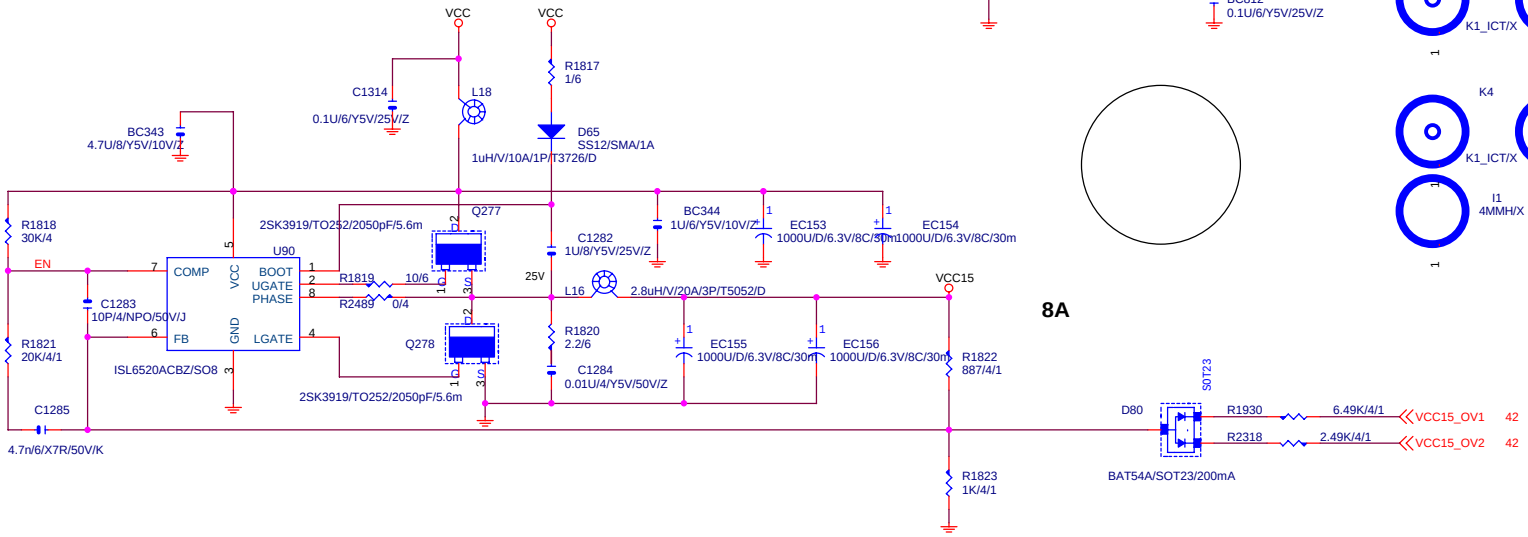












GIGABYTE CORP.		
Title: Misc. PWR & ATX CONN.		
Size: B	Document Number: GA-M59SLI-S5	Rev: 1.01
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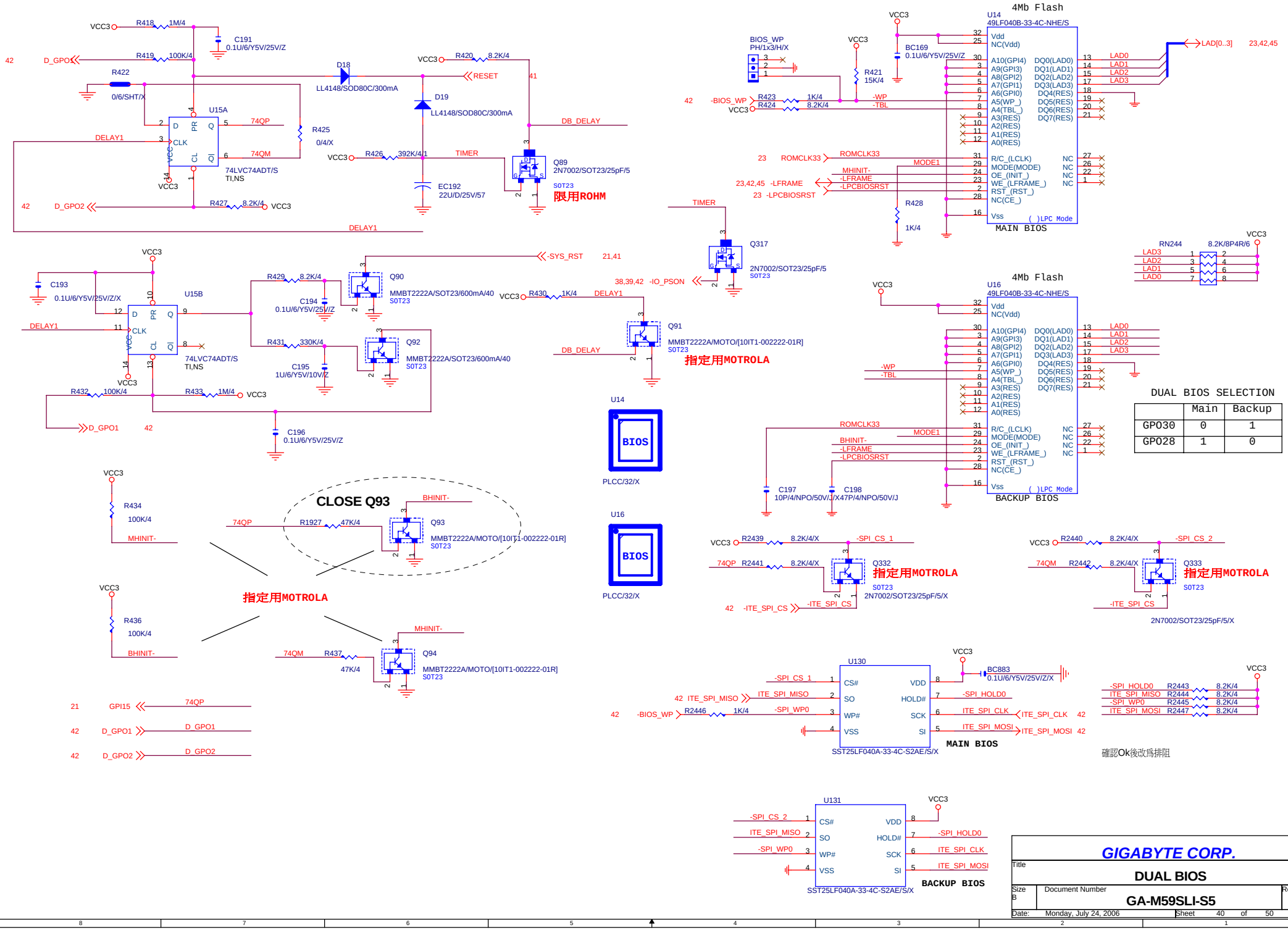
VCC3
R418 1M/4
C191 0.1U/6/Y5V/25V/Z
42 D_GPO0
R419 100K/4
R422
0/6/SHT/X
D18
LL4148/SOD80C/300mA
R420 8.2K/4
RESET
41
D19
LL4148/SOD80C/300mA
DB_DELAY
U15A
DELAY1
74QP
74QM
74LVC74ADT/S
TI,NS
R425
0/4/X
R426 392K/4/1
TIMER
EC192
22U/D/25V/57
Q89
2N7002/SOT23/25pF/5
SOT23
限用ROHM
42 D_GPO2
R427 8.2K/4
DELAY1
4Mb Flash
U14
49LF040B-33-4C-NHE/S
BIOS_WP
PH/1x3/H/X
BC169
0.1U/6/Y5V/25V/Z
R421
15K/4
42 -BIOS_WP
R423 1K/4
R424 8.2K/4
-WP
-TBL
LAD[0..3]
23,42,45
LAD0
LAD1
LAD2
LAD3
23 ROMCLK33
MODE1
MHINIT-
23,42,45 -LFRAME
-LPCBIOSRST
23 -LPCBIOSRST
R428
1K/4
MAIN BIOS
RN244
8.2K/8P4R/6
TIMER
Q317
2N7002/SOT23/25pF/5
SOT23
38,39,42 -IO_PSON
-SYS_RST
21,41
C193
0.1U/6/Y5V/25V/Z/X
U15B
74LVC74ADT/S
TI,NS
R429 8.2K/4
Q90
MMBT2222A/SOT23/600mA/40
S0T23
C194
0.1U/6/Y5V/25V/Z
R430 1K/4
Q91
MMBT2222A/MOTO/[10IT1-002222-01R]
S0T23
指定用MOTROLA
R431 330K/4
Q92
MMBT2222A/SOT23/600mA/40
C195
1U/6/Y5V/10V/Z
R432 100K/4
R433 1M/4
D_GPO1
42
C196
0.1U/6/Y5V/25V/Z
4Mb Flash
U16
49LF040B-33-4C-NHE/S
DUAL BIOS SELECTION
Main Backup
GPO30 0 1
GPO28 1 0
C197
10P/4/NPO/50V/J
C198
47P/4/NPO/50V/J
BACKUP BIOS
U14
BIOS
PLCC/32/X
U16
BIOS
PLCC/32/X
CLOSE Q93
R434
100K/4
MHINIT-
74QP
R1927 47K/4
BHINIT-
Q93
MMBT2222A/MOTO/[10IT1-002222-01R]
S0T23
指定用MOTROLA
R436
100K/4
BHINIT-
74QM
R437
47K/4
MHINIT-
Q94
MMBT2222A/MOTO/[10IT1-002222-01R]
S0T23
21 GPI15 74QP
42 D_GPO1 D_GPO1
42 D_GPO2 D_GPO2
R2439 8.2K/4/X
-SPI_CS_1
74QP R2441 8.2K/4/X
Q332
指定用MOTROLA
S0T23
2N7002/SOT23/25pF/5/X
42 -ITE_SPI_CS
-ITE_SPI_CS
R2440 8.2K/4/X
-SPI_CS_2
74QM R2442 8.2K/4/X
Q333
指定用MOTROLA
S0T23
2N7002/SOT23/25pF/5/X
U130
-SPI_CS_1
42 ITE_SPI_MISO
ITE_SPI_MISO
42 -BIOS_WP
R2446 1K/4
-SPI_WP0
CS#
SO
WP#
VSS
VDD
HOLD#
SCK
SI
BC883
0.1U/6/Y5V/25V/Z/X
-SPI_HOLD0
ITE_SPI_CLK
ITE_SPI_MOSI
SST25LF040A-33-4C-S2AE/S/X
MAIN BIOS
-SPI_HOLD0 R2443 8.2K/4
ITE_SPI_MISO R2444 8.2K/4
-SPI_WP0 R2445 8.2K/4
ITE_SPI_MOSI R2447 8.2K/4
確認Ok後改爲排阻
U131
-SPI_CS_2
ITE_SPI_MISO
-SPI_WP0
SST25LF040A-33-4C-S2AE/S/X
BACKUP BIOS
GIGABYTE CORP.
Title
DUAL BIOS
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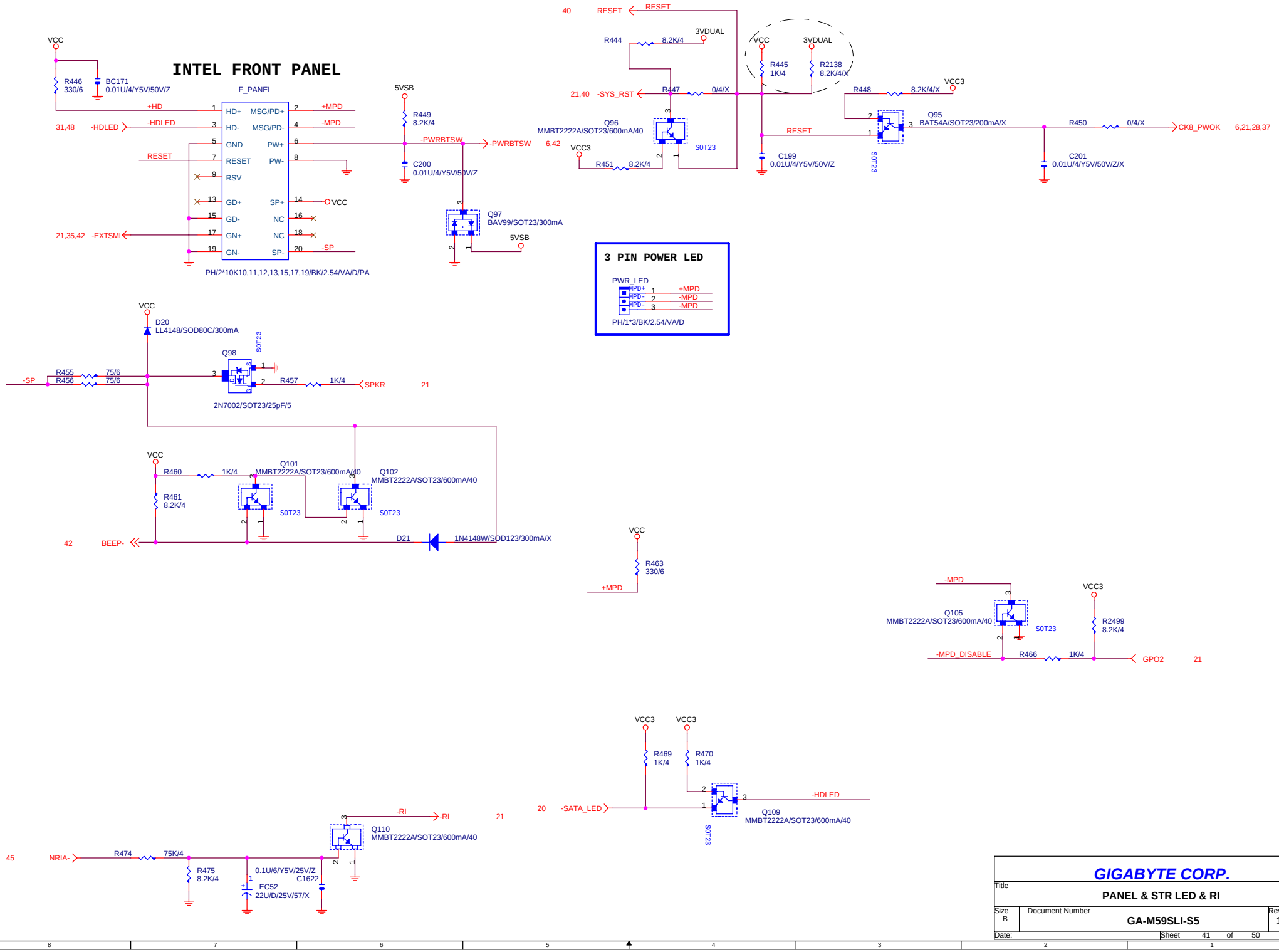
INTEL FRONT PANEL
F_PANEL
PH/2*10K10,11,12,13,15,17,19/BK/2.54/VA/D/PA
3 PIN POWER LED
PWR_LED
PH/1*3/BK/2.54/VA/D
2N7002/SOT23/25pF/5
MMBT2222A/SOT23/600mA/40
1N4148W/SOD123/300mA/X
BAV99/SOT23/300mA
BAT54A/SOT23/200mA/X
GIGABYTE CORP.
PANEL & STR LED & RI
GA-M59SLI-S5
1.01

IT8712F_KX/IT8716

IT8716F-GB/QFP128

RTS2- ==LOW CPU FAN 50%
==HIGH 100%

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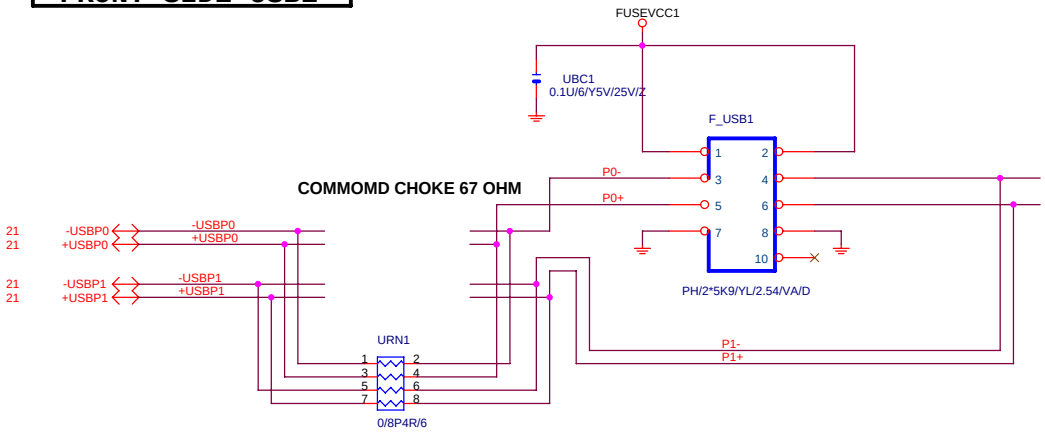
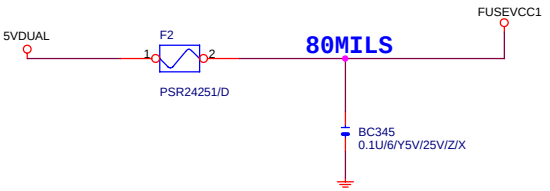
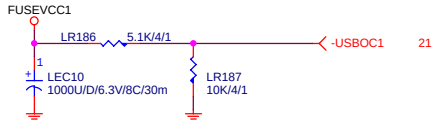
GIGABYTE CORP.

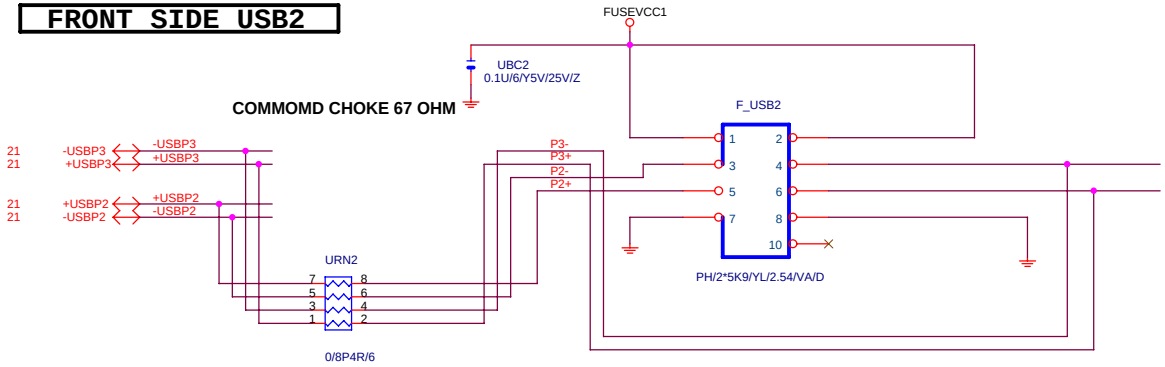
FRONT SIDE USB1



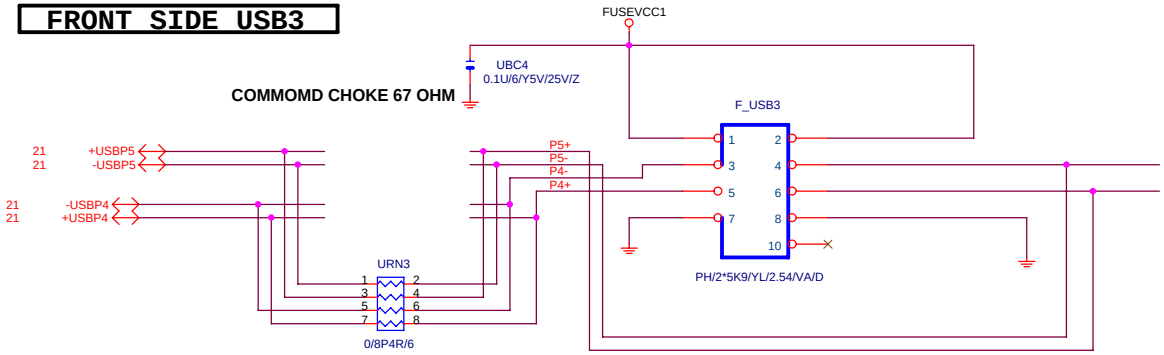




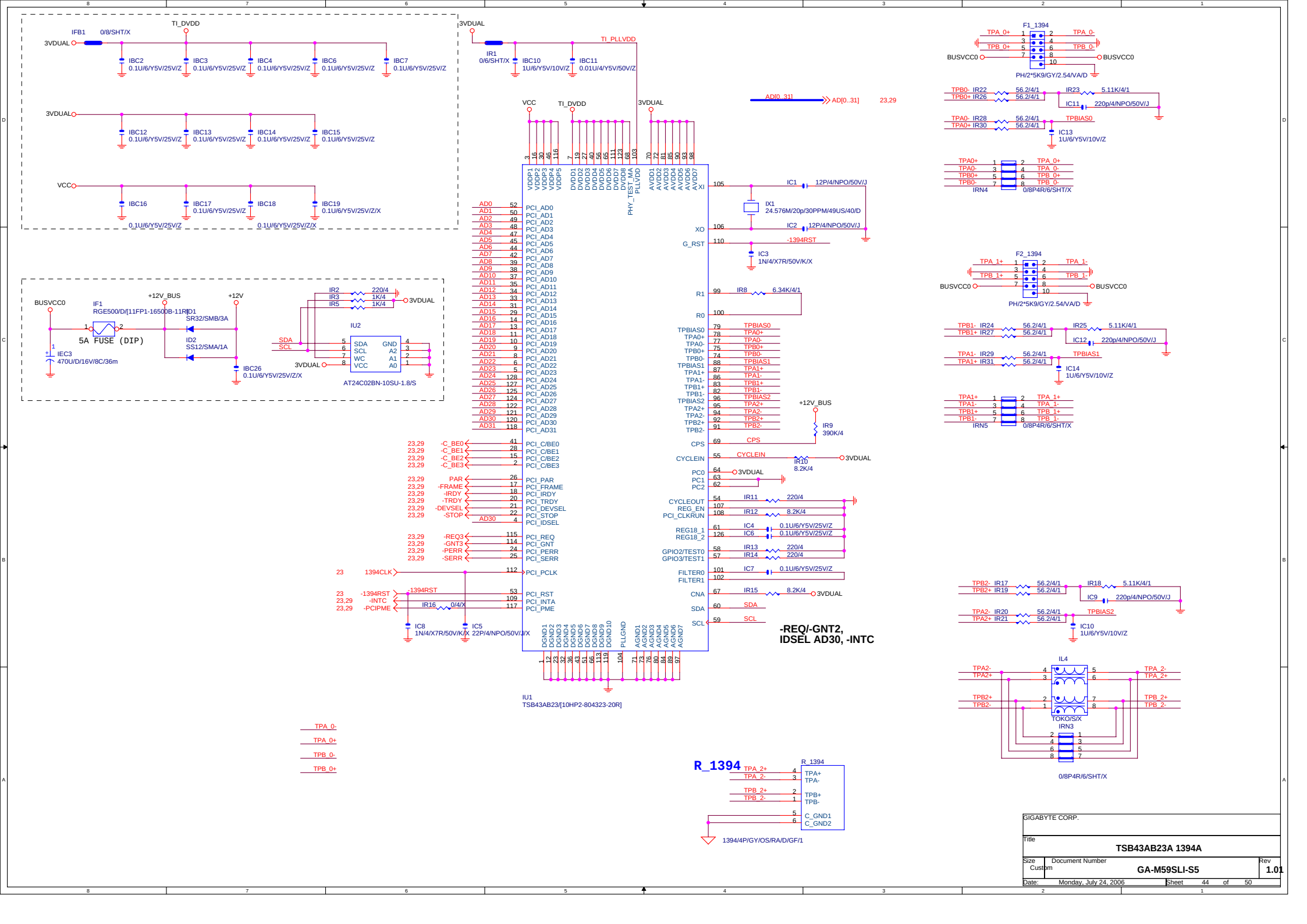
FRONT SIDE USB2



FRONT SIDE USB3



GIGABYTE CORP.		
Title: USB PORT		
Size: B	Document Number: GA-M59SLI-S5	Rev: 1.01
Date:	Sheet 43 of 50	


TI_DVDD
IFB1 0/8/SHT/X
3VDUAL
IBC2 0.1U/6/Y5V/25V/Z
IBC3 0.1U/6/Y5V/25V/Z
IBC4 0.1U/6/Y5V/25V/Z
IBC6 0.1U/6/Y5V/25V/Z
IBC7 0.1U/6/Y5V/25V/Z
IBC12 0.1U/6/Y5V/25V/Z
IBC13 0.1U/6/Y5V/25V/Z
IBC14 0.1U/6/Y5V/25V/Z
IBC15 0.1U/6/Y5V/25V/Z
VCC
IBC16 0.1U/6/Y5V/25V/Z
IBC17 0.1U/6/Y5V/25V/Z
IBC18 0.1U/6/Y5V/25V/Z
IBC19 0.1U/6/Y5V/25V/Z/X
0.1U/6/Y5V/25V/Z
0.1U/6/Y5V/25V/Z/X
BUSVCC0
IF1 RGE500/D/[11FP1-16500B-11R]
+12V_BUS
+12V
ID1 SR32/SMB/3A
ID2 SS12/SMA/1A
5A FUSE (DIP)
IEC3 470U/D/16V/8C/36m
IBC26 0.1U/6/Y5V/25V/Z/X
IR2 220/4
IR3 1K/4
IR5 1K/4
IU2
SDA
SCL
WC
VCC
GND
A2
A1
A0
AT24C02BN-10SU-1.8/S
IR1 0/6/SHT/X
IBC10 1U/6/Y5V/10V/Z
IBC11 0.01U/4/Y5V/50V/Z
AD[0..31]
23,29
PCI_AD0
PCI_AD1
PCI_AD2
PCI_AD3
PCI_AD4
PCI_AD5
PCI_AD6
PCI_AD7
PCI_AD8
PCI_AD9
PCI_AD10
PCI_AD11
PCI_AD12
PCI_AD13
PCI_AD14
PCI_AD15
PCI_AD16
PCI_AD17
PCI_AD18
PCI_AD19
PCI_AD20
PCI_AD21
PCI_AD22
PCI_AD23
PCI_AD24
PCI_AD25
PCI_AD26
PCI_AD27
PCI_AD28
PCI_AD29
PCI_AD30
PCI_AD31
PCI_C/BE0
PCI_C/BE1
PCI_C/BE2
PCI_C/BE3
PCI_PAR
PCI_FRAME
PCI_IRDY
PCI_TRDY
PCI_DEVSEL
PCI_STOP
PCI_IDSEL
PCI_REQ
PCI_GNT
PCI_PERR
PCI_SERR
PCI_PCLK
PCI_RST
PCI_INTA
PCI_PME
1394CLK
-1394RST
-INTC
-PCIPME
IR16 0/4/X
IC8 1N/4/X7R/50V/K/X
IC5 22P/4/NPO/50V/J/X
VDDP1
VDDP2
VDDP3
VDDP4
VDDP5
DVDD1
DVDD2
DVDD3
DVDD4
DVDD5
DVDD6
DVDD7
DVDD8
PHY_TEST_MA
PLLVDD
AVDD1
AVDD2
AVDD3
AVDD4
AVDD5
AVDD6
AVDD7
AXI
DGND1
DGND2
DGND3
DGND4
DGND5
DGND6
DGND7
DGND8
DGND9
DGND10
PLLGND
AGND1
AGND2
AGND3
AGND4
AGND5
AGND6
AGND7
IC1 12P/4/NPO/50V/J
IX1 24.576M/20p/30PPM/49US/40/D
IC2 12P/4/NPO/50V/J
XO
G_RST
-1394RST
IC3 1N/4/X7R/50V/K/X
R1
R0
IR8 6.34K/4/1
TPBIAS0
TPA0+
TPA0-
TPB0+
TPB0-
TPBIAS1
TPA1+
TPA1-
TPB1+
TPB1-
TPBIAS2
TPA2+
TPA2-
TPB2+
TPB2-
+12V_BUS
IR9 390K/4
CPS
CYCLEIN
IR10 8.2K/4
3VDUAL
PC0
PC1
PC2
CYCLEOUT
REG_EN
PCI_CLKRUN
IR11 220/4
IR12 8.2K/4
REG18_1
REG18_2
IC4 0.1U/6/Y5V/25V/Z
IC6 0.1U/6/Y5V/25V/Z
GPIO2/TEST0
GPIO3/TEST1
IR13 220/4
IR14 220/4
FILTER0
FILTER1
IC7 0.1U/6/Y5V/25V/Z
CNA
IR15 8.2K/4
SDA
SCL
IU1
TSB43AB23/[10HP2-804323-20R]
-REQ/-GNT2,
IDSEL AD30, -INTC
TPA_0-
TPA_0+
TPB_0-
TPB_0+
R_1394
TPA_2+
TPA_2-
TPB_2+
TPB_2-
TPA+
TPA-
TPB+
TPB-
C_GND1
C_GND2
1394/4P/GY/OS/RA/D/GF/1
F1_1394
TPA_0+
TPA_0-
TPB_0+
TPB_0-
PH/2*5K9/GY/2.54/VA/D
TPB0- IR22 56.2/4/1
TPB0+ IR26 56.2/4/1
IR23 5.11K/4/1
IC11 220p/4/NPO/50V/J
TPA0- IR28 56.2/4/1
TPA0+ IR30 56.2/4/1
TPBIAS0
IC13 1U/6/Y5V/10V/Z
IRN4
0/8P4R/6/SHT/X
F2_1394
TPA_1+
TPA_1-
TPB_1+
TPB_1-
TPB1- IR24 56.2/4/1
TPB1+ IR27 56.2/4/1
IR25 5.11K/4/1
IC12 220p/4/NPO/50V/J
TPA1- IR29 56.2/4/1
TPA1+ IR31 56.2/4/1
TPBIAS1
IC14 1U/6/Y5V/10V/Z
IRN5
TPB2- IR17 56.2/4/1
TPB2+ IR19 56.2/4/1
IR18 5.11K/4/1
IC9 220p/4/NPO/50V/J
TPA2- IR20 56.2/4/1
TPA2+ IR21 56.2/4/1
TPBIAS2
IC10 1U/6/Y5V/10V/Z
IL4
TOKO/S/X
IRN3
GIGABYTE CORP.
Title
TSB43AB23A 1394A
Size Custom
Document Number
GA-M59SLI-S5
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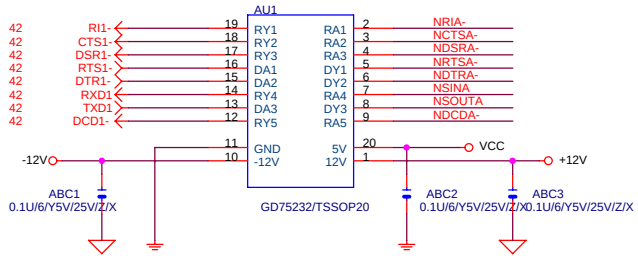

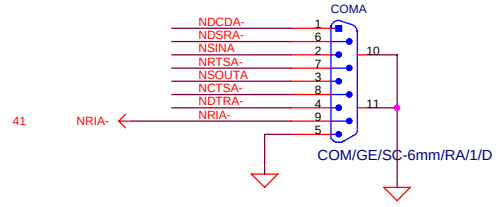

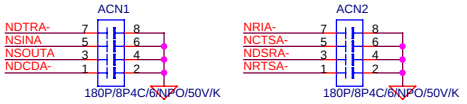

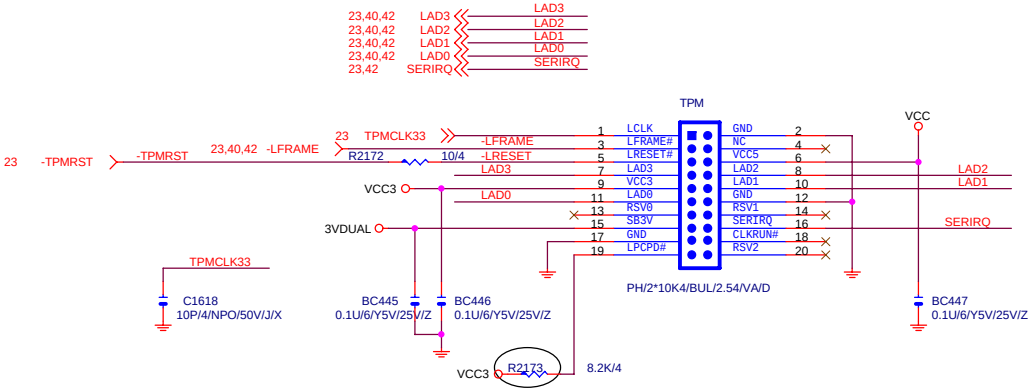

GIGABYTE CORP.		
Title: COMA & TPM		
Size: B	Document Number: GA-M59SLI-S5	Rev: 1.01
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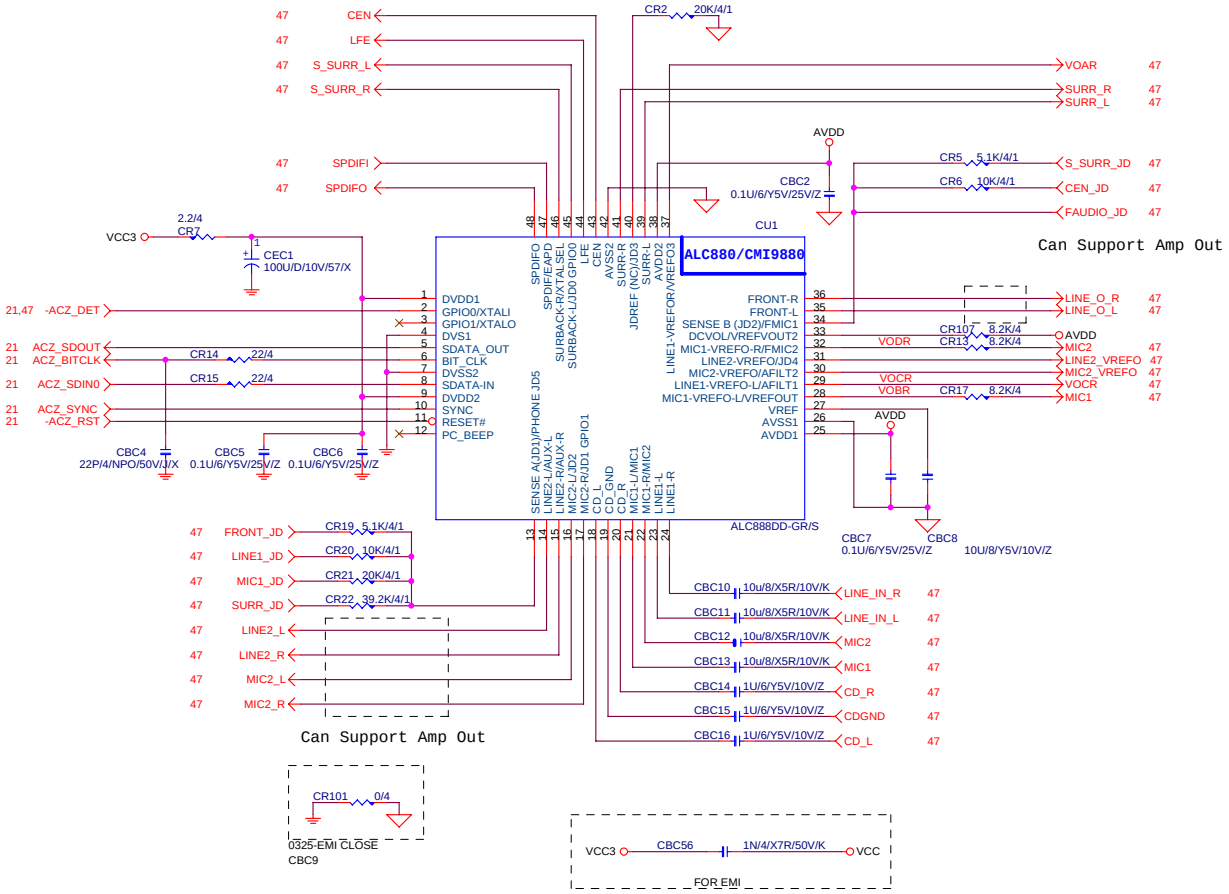
AZALIA CODEC



GIGABYTE CORP.

Title: AZALIA-ALC883

Size: Custom | Document Number: GA-M59SLI-S5 | Rev: 1.01

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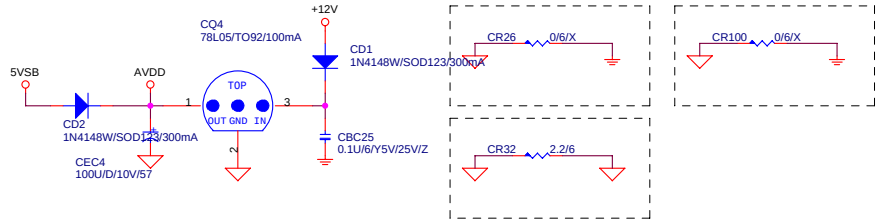
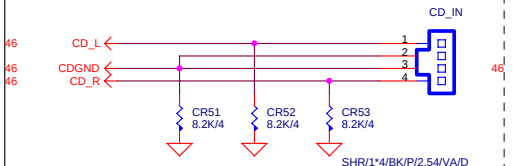
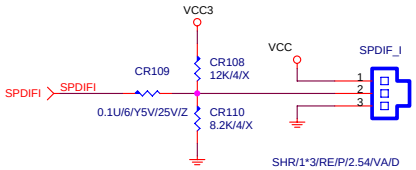
CODEC POWER/EMI PAD



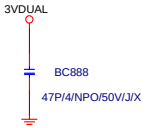
CD IN

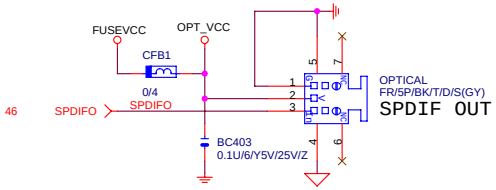




SPDIF

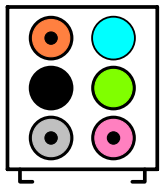
Remove COAXIAL



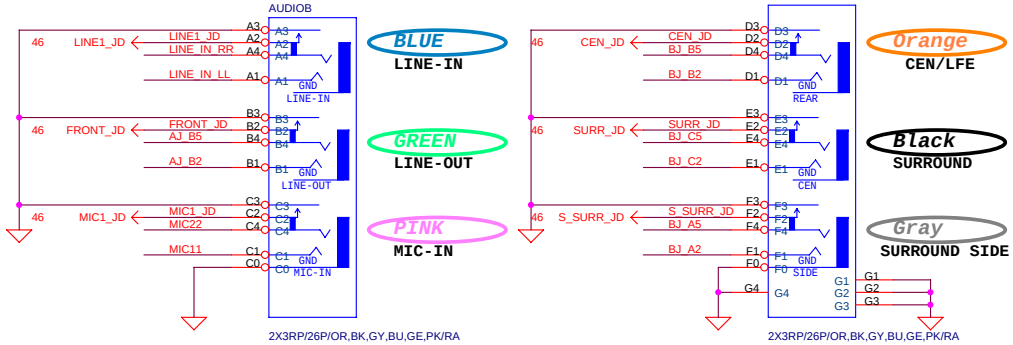


AZALIA JACK

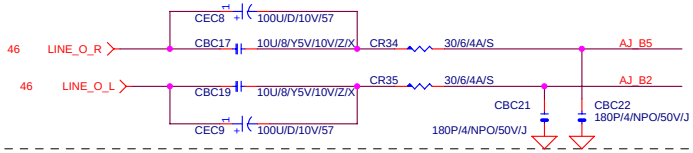
BTX AZALIA CONNECTOR



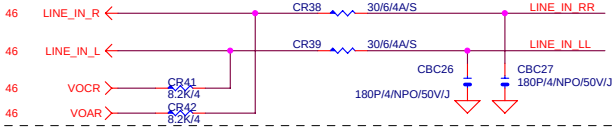
11NR6-403007-21



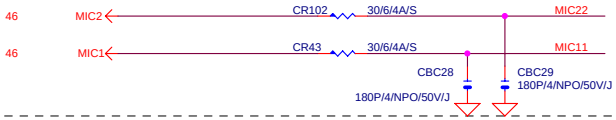
LINE-OUT



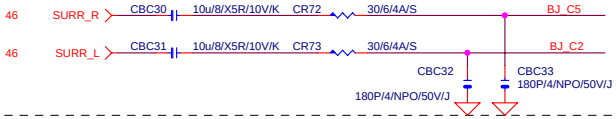
LINE-IN



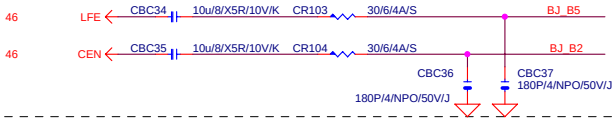
MIC-IN



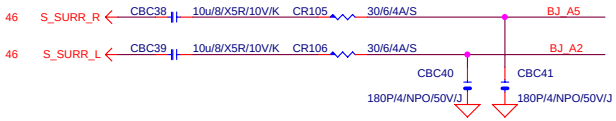
SURROUND



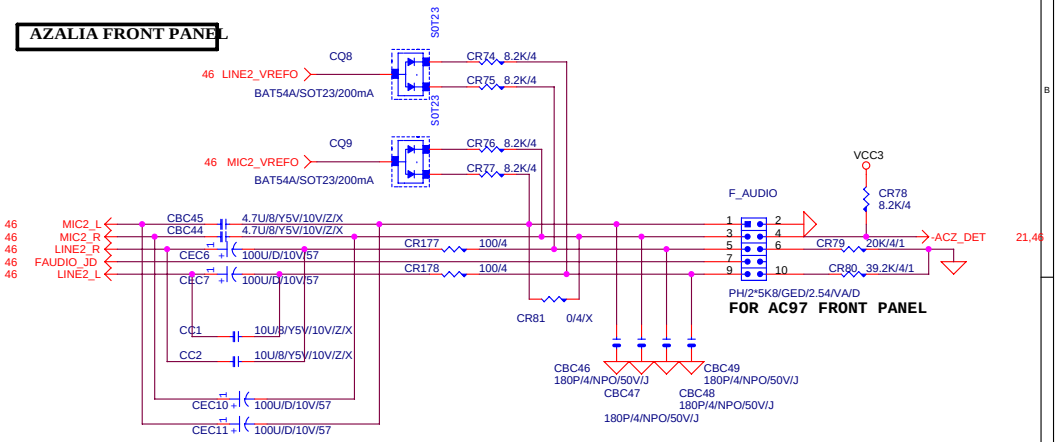
CEN/LFE



SURR BACK



AZALIA FRONT PANEL



GIGABYTE CORP.

Title	AUDIO JACK	
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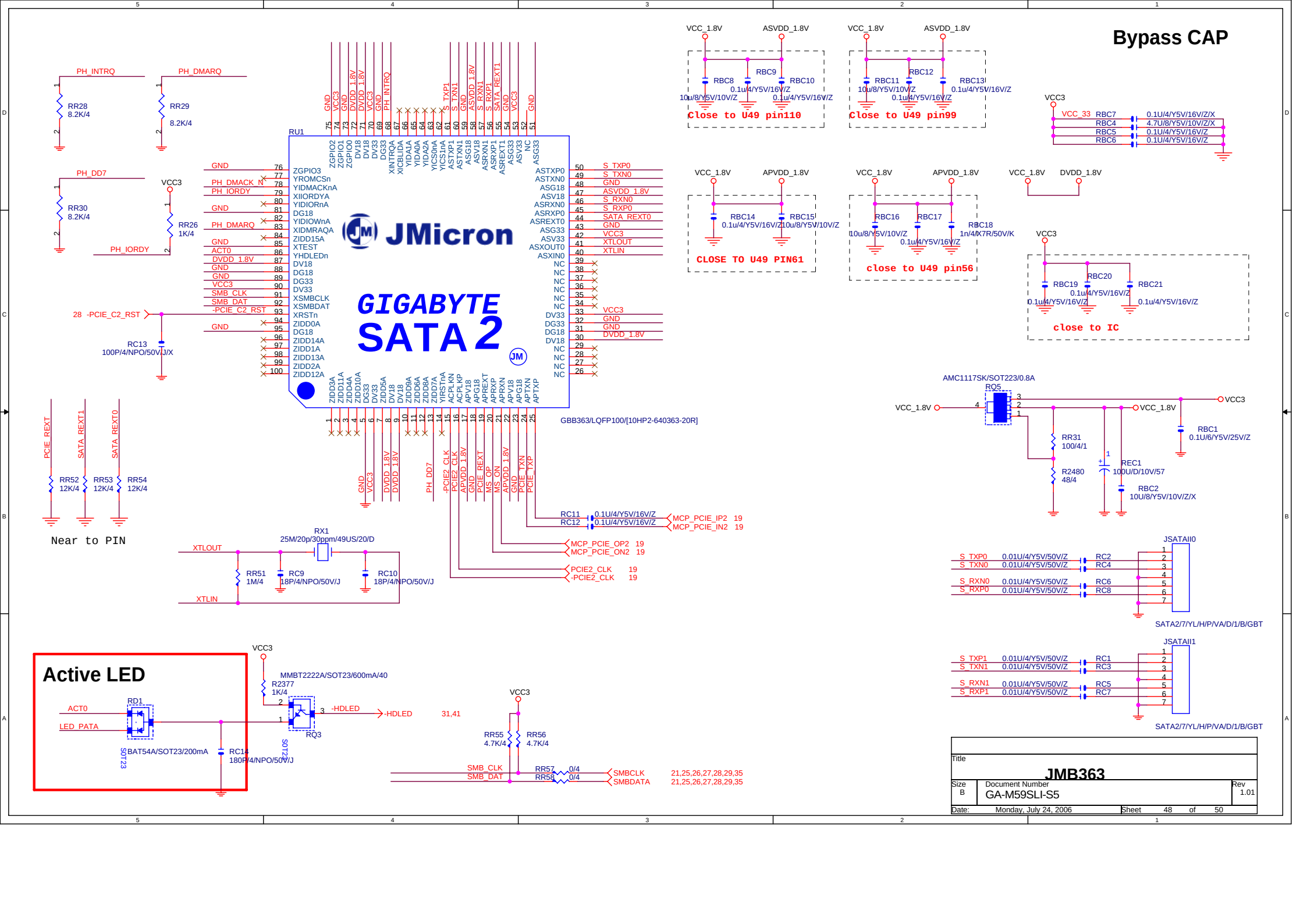
Bypass CAP
Close to U49 pin110
Close to U49 pin99
CLOSE TO U49 PIN61
close to U49 pin56
close to IC
JMicron
GIGABYTE
SATA2
RU1
GBB363/LQFP100/[10HP2-640363-20R]
Near to PIN
Active LED
AMC1117SK/SOT223/0.8A
JSATAII0
JSATAII1
SATA2/7/YL/H/P/VA/D/1/B/GBT
Title
JMB363
Size B
Document Number GA-M59SLI-S5
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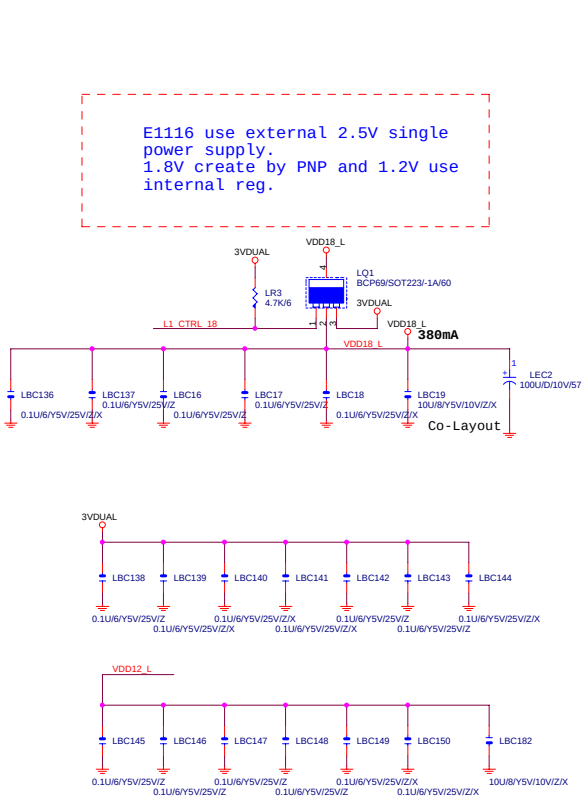
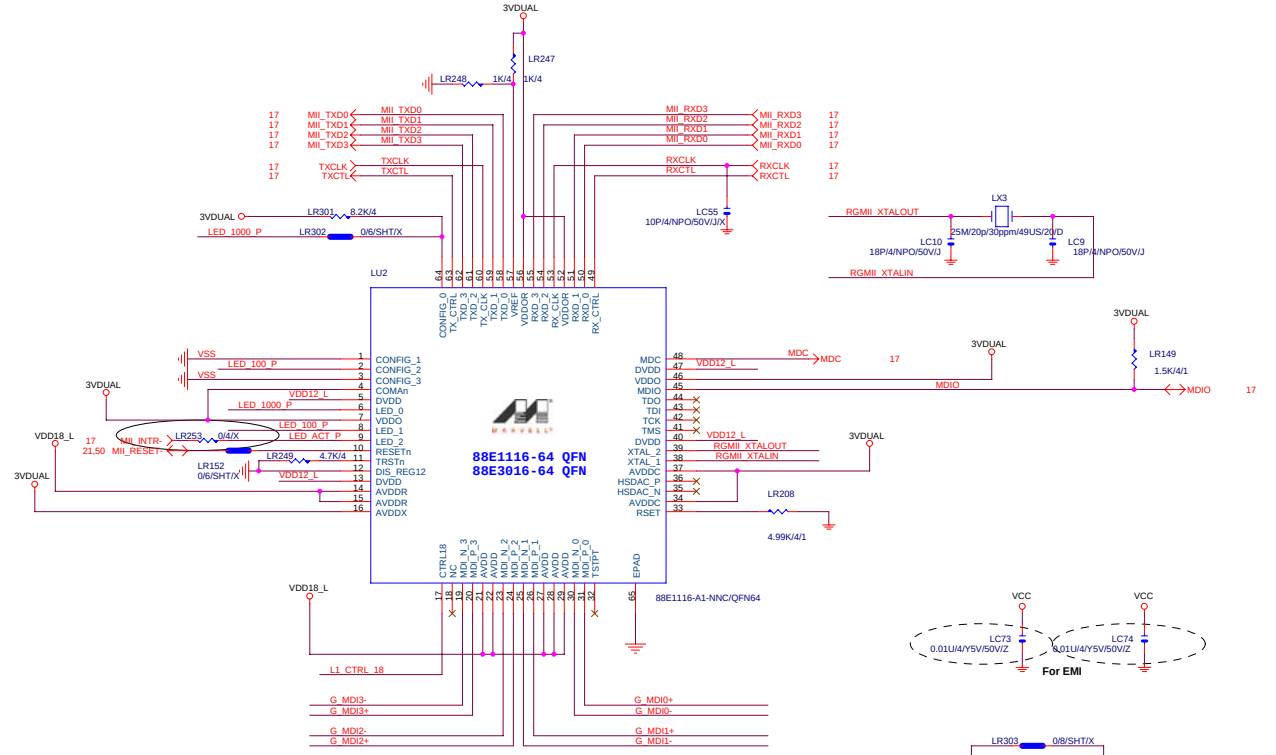
Hardware Configuration: See config _0:4

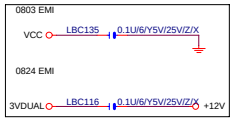
1. PHY address:00001
2. ENA_XC:Enable Auto-Crossover
3. RGMII_TX:Transmit clock not internally delayed
4. RGMII_RX:Receive clock transition when data transitions
5. Advertise all capabilities

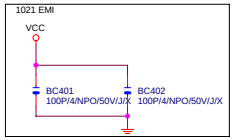
E1116 use external 2.5V single power supply.
1.8V create by PNP and 1.2V use internal reg.



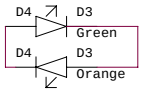


Bypass cap can share. User check it by layout consideration.

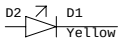




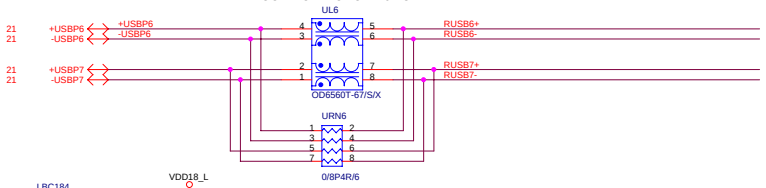
Dual Color LED

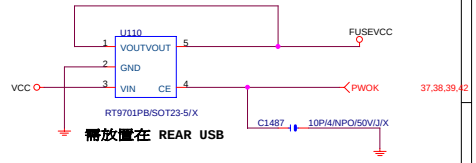


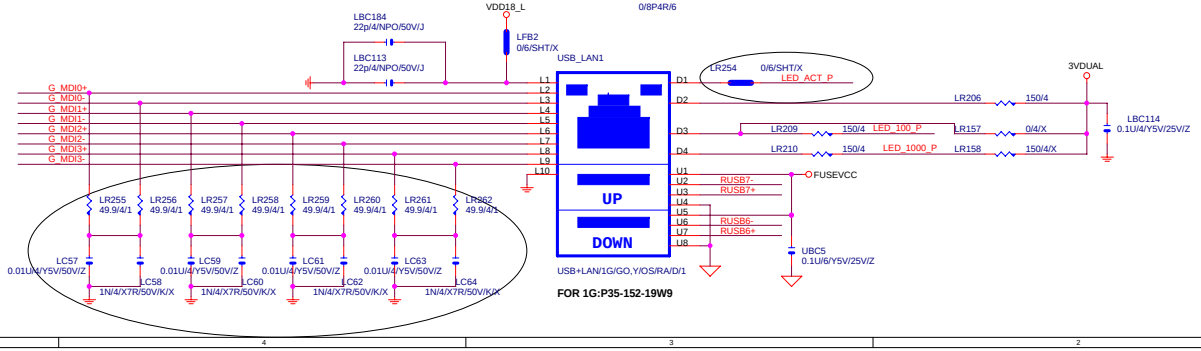
Single Color LED

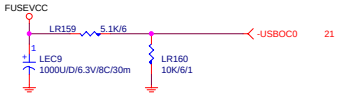


COMMOMD CHOKE 67 OHM









Title	Marvell 88E1116	
Size C	Document Number GA-M59SLI-S5	Rev 1.01
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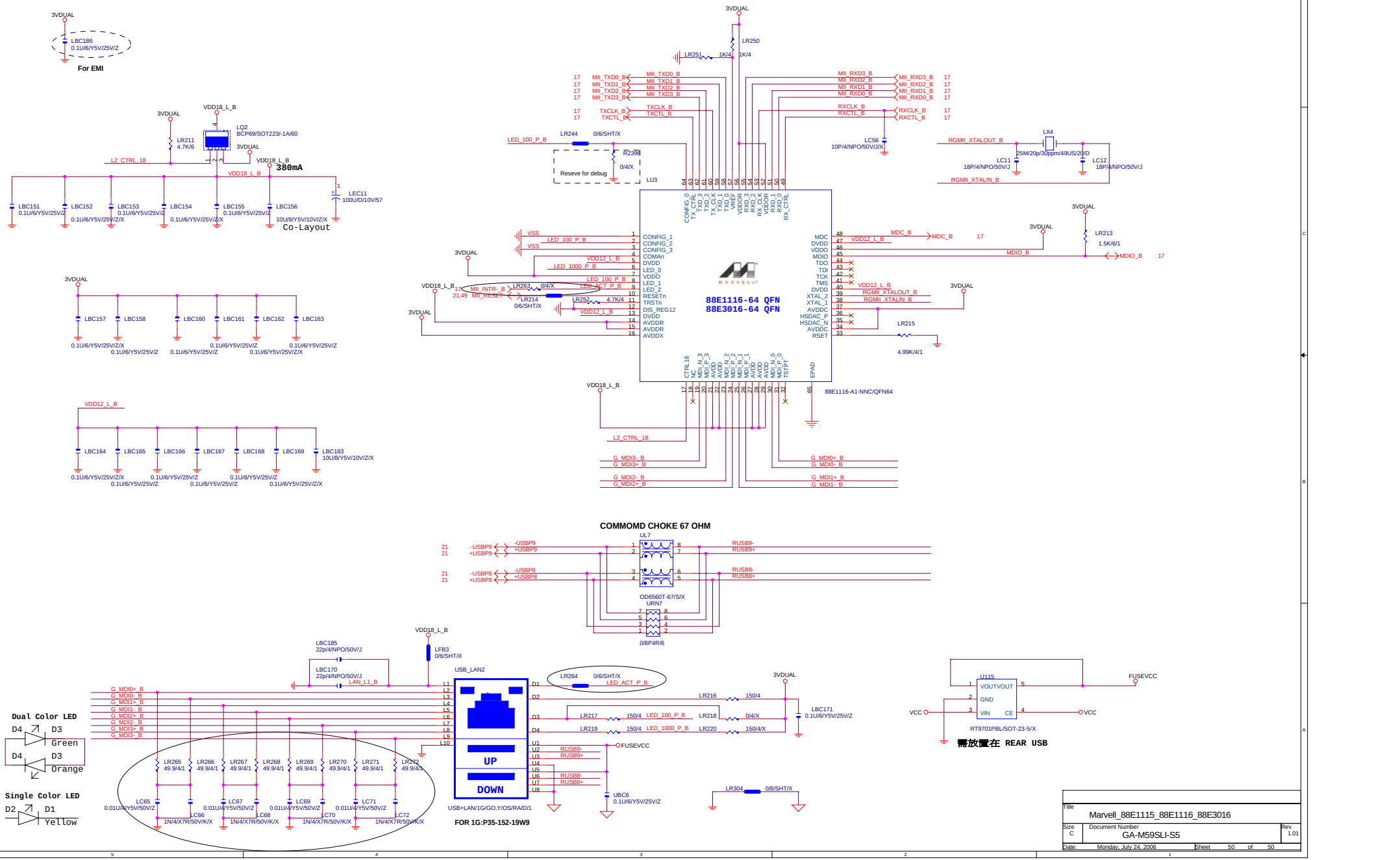
Hardware Configuration: See config _0:4

1. PHY address:00010
2. ENA_XC:Enable Auto-Crossover
3. RGMII_TX:Transmit clock not internally delayed
4. RGMII_RX:Receive clock transition when data transitions
5. Advertise all capabilities



Title	Marvell_88E1115_88E1116_88E3016	
Size C	Document Number GA-M59SLI-S5	Rev 1.01
Date: Monday, July 24, 2006	Sheet 50 of 50	