

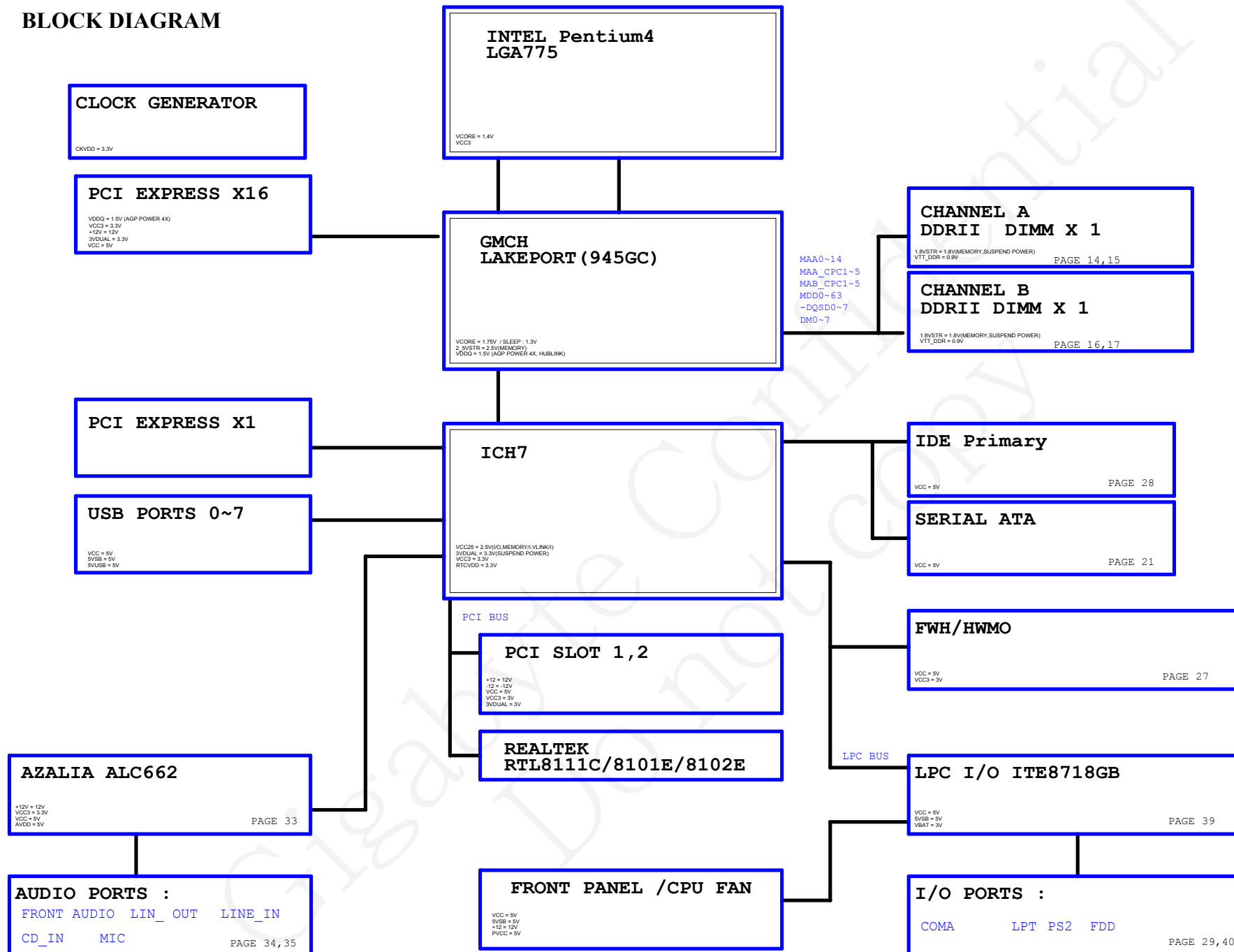
SHEET TITLE

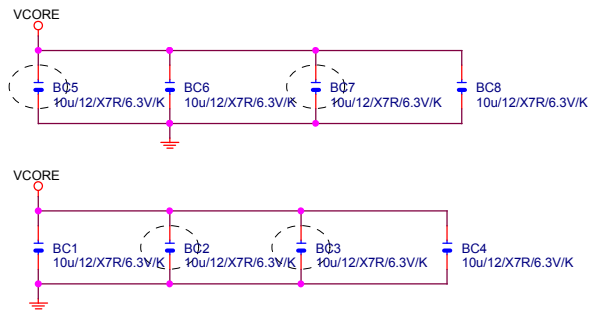
01	COVER SHEET
02	BLOCK DIAGRAM
03	BOM & PCB MODIFY HISTORY
04	P4 LGA775 A
05	P4 LGA775 B
06	P4 LGA775 C
07	P4 LGA775 D,E,F,G
08	GMCH-LAKEPORT HOST
09	GMCH-LAKEPORT DDRII
10	GMCH-LAKEPORT PCI E, DMI
11	GMCH-LAKEPORT INT VGA
12	GMCH-LAKEPORT GND
13	GMCH-LAKEPORT PWR
14	DDRII CHANNEL A 1
15	DDRII CHANNEL B 2
16	DDRII TERMINATION
17	PCI EXPRESS*16 SLOT
18	ICH7 PCI, USB, DMI, LAN
19	ICH7 IDE, GPIO, SATA, CTRL
20	ICH7 VCC, GND
21	GB/CK505-OC CLOCK.
22	PCI SLOT 1,2,PCIEX1
23	IDE/FLOPPY
24	ITE 8718 GBIX
25	COM LPT
26	BIOS,CI,HWM,KB/MS
27	AZALIA ALC662

SHEET TITLE

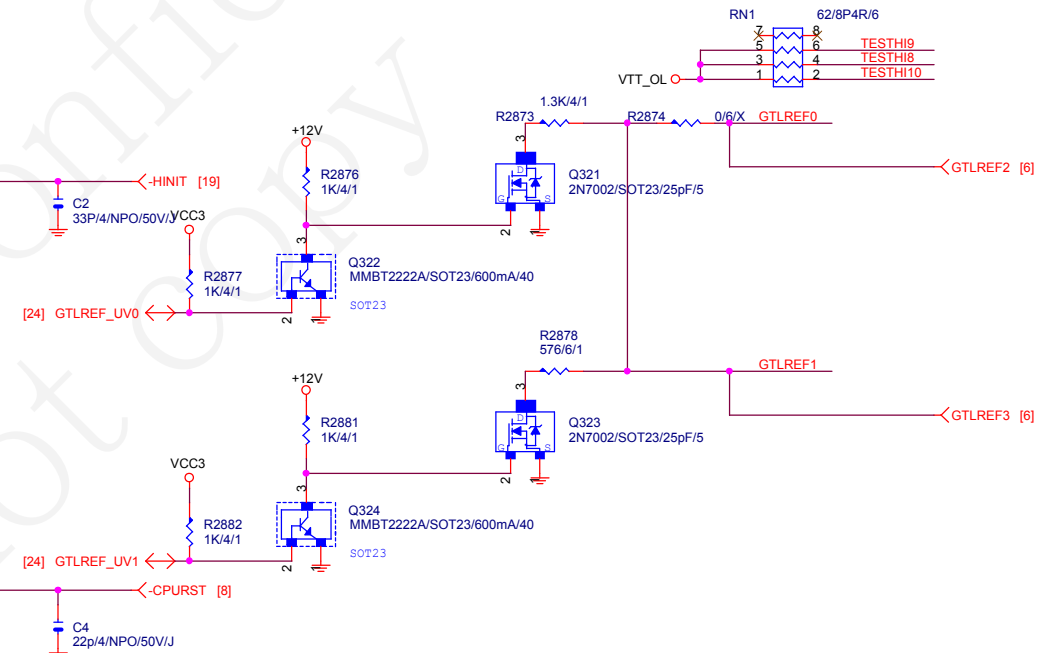
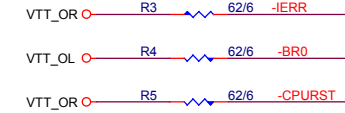
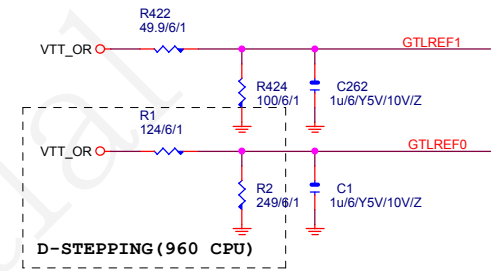
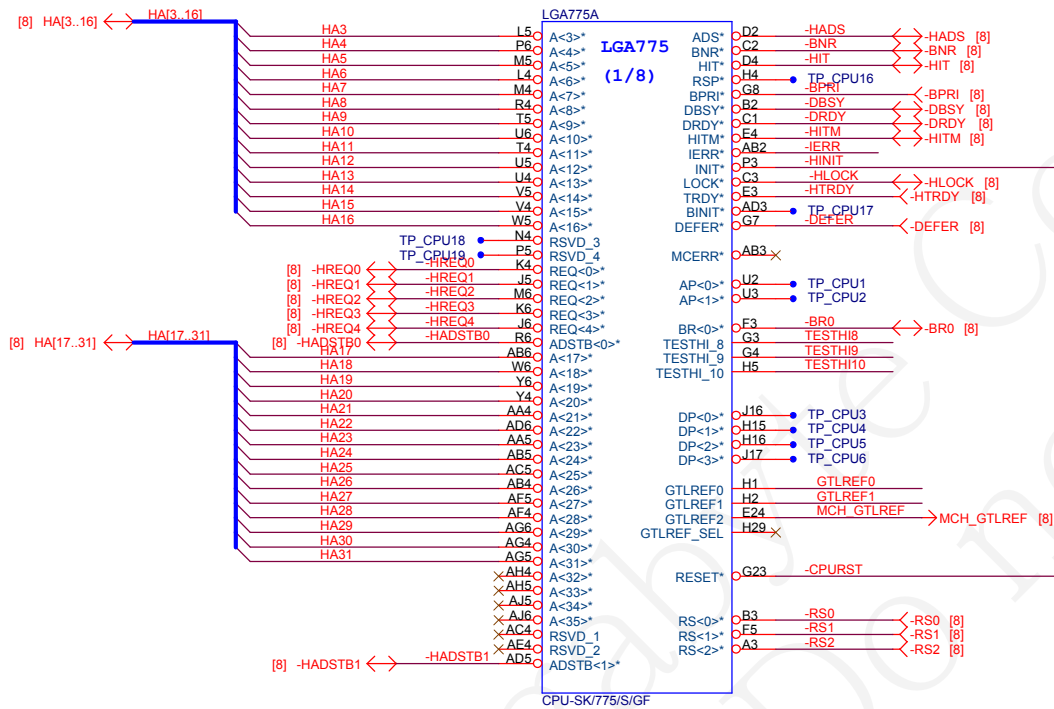
28	REAR AUDIO JACK
29	DISCRETE POWER
30	VCORE PWM ISL6312
31	ATX, OTHERS POWER
32	REALTEK RTL8111C/8101E/8102E
33	FRONT PANEL

BLOCK DIAGRAM



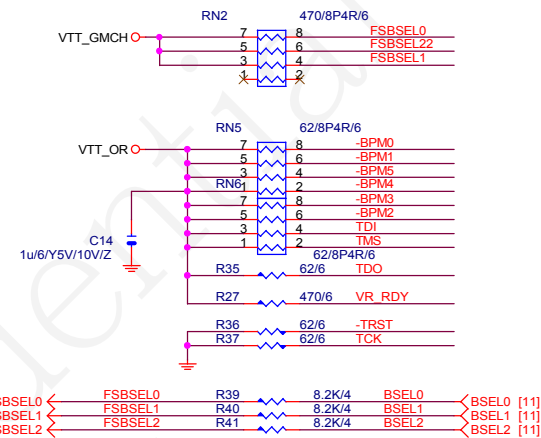


footprint: LGA775-3A9

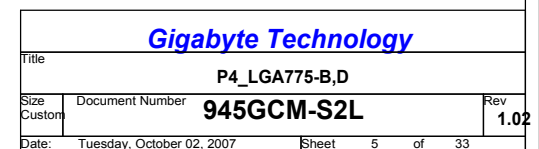


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P4_LGA775-A		
Size	Document Number	Rev
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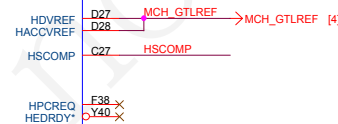
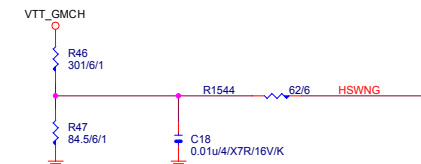
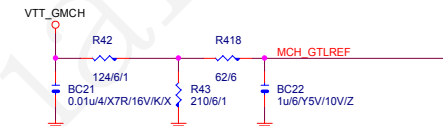
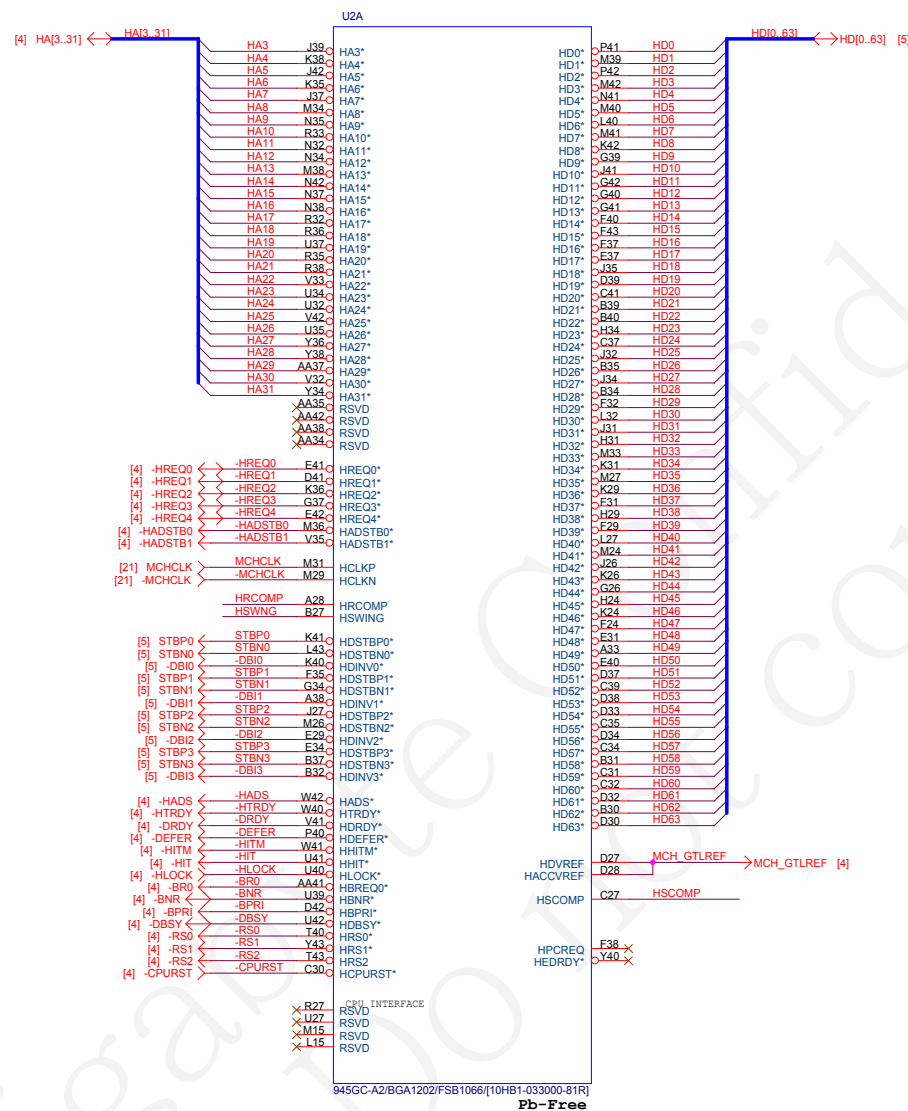


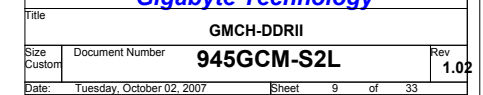
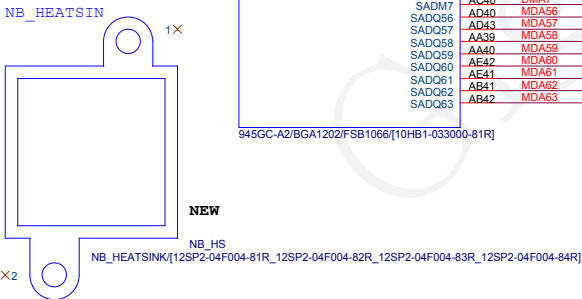
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0	0	1	133MHz
0	1	1	166MHz
0	1	0	200MHz
0	0	0	266MHz



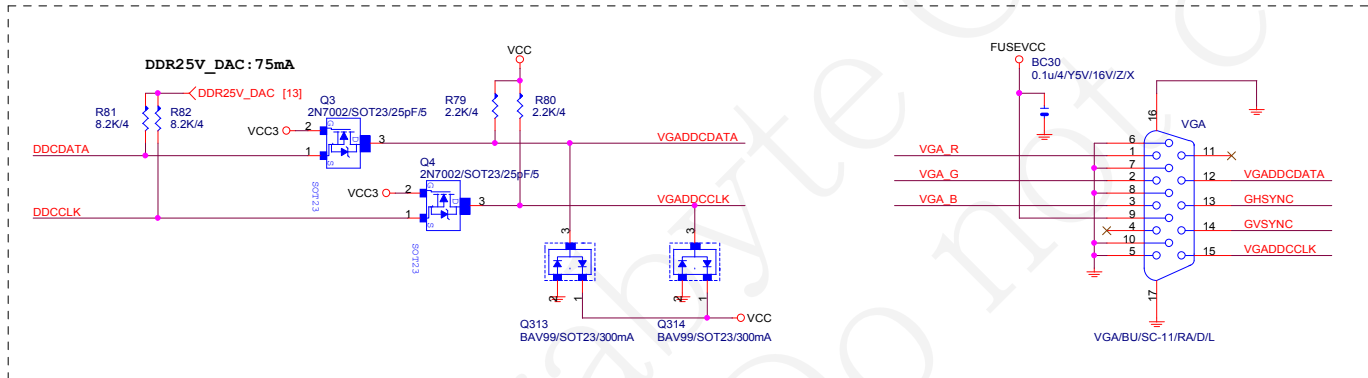
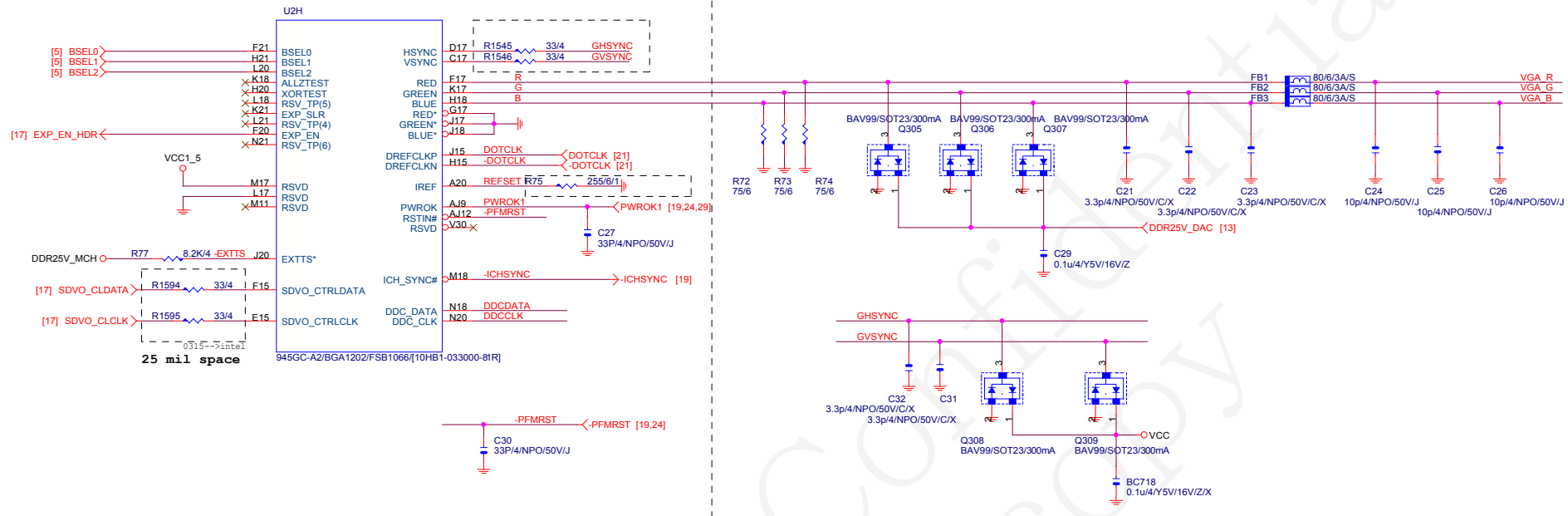
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U2C	
A4	VSS
A16	VSS
A22	VSS
A26	VSS
A31	VSS
A35	VSS
B4	VSS
B6	VSS
B9	VSS
B11	VSS
B13	VSS
B21	VSS
B22	VSS
B28	VSS
B33	VSS
B38	VSS
C3	VSS
C5	VSS
C7	VSS
C12	VSS
C14	VSS
C22	VSS
C40	VSS
D2	VSS
D5	VSS
D10	VSS
D16	VSS
D20	VSS
D21	VSS
E4	VSS
E7	VSS
E9	VSS
E12	VSS
E13	VSS
E17	VSS
E18	VSS
E20	VSS
E21	VSS
E32	VSS
F2	VSS
F6	VSS
F13	VSS
F18	VSS
F26	VSS
F34	VSS
F42	VSS
G3	VSS
G5	VSS
G7	VSS
G9	VSS
G10	VSS
G13	VSS
G15	VSS
G18	VSS
G20	VSS
G21	VSS
G24	VSS
G27	VSS
G29	VSS
G31	VSS
G32	VSS
G35	VSS
G38	VSS
H12	VSS
H17	VSS
H26	VSS
H27	VSS
H32	VSS
J2	VSS
J5	VSS
J7	VSS
J10	VSS
J12	VSS
J21	VSS
J24	VSS
J29	VSS
J38	VSS
J43	VSS
K3	VSS
K5	VSS
K6	VSS
K7	VSS
K10	VSS
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K13	VSS
K15	VSS
K20	VSS
K27	VSS
K32	VSS
K34	VSS
K37	VSS
K39	VSS
L2	VSS
L12	VSS
L13	VSS
L24	VSS
L26	VSS
L29	VSS
L31	VSS
L42	VSS
M3	VSS
M5	VSS
M8	VSS
M9	VSS
M10	VSS
M13	VSS
M20	VSS
M21	VSS
M35	VSS
M37	VSS

945GC-A2/BGA1202/FSB1066/[10HB1-033000-81R]

N2	VSS
N6	VSS
N8	VSS
N13	VSS
N15	VSS
N24	VSS
N26	VSS
N27	VSS
N29	VSS
N31	VSS
N33	VSS
N36	VSS
N39	VSS
N43	VSS
P3	VSS
P14	VSS
P15	VSS
P24	VSS
P26	VSS
P27	VSS
P29	VSS
P30	VSS
R6	VSS
R9	VSS
R12	VSS
R14	VSS
R30	VSS
R31	VSS
R34	VSS
R37	VSS
R39	VSS
T2	VSS
T42	VSS
U3	VSS
U5	VSS
U12	VSS
U14	VSS
U31	VSS
U33	VSS
U36	VSS
U38	VSS
V2	VSS
V8	VSS
V11	VSS
V12	VSS
V14	VSS
V44	VSS
V36	VSS
V37	VSS
V38	VSS
V39	VSS
V43	VSS
W3	VSS
Y2	VSS
Y5	VSS
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Y9	VSS
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AA8	VSS
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AA12	VSS
AA14	VSS
AA21	VSS
AA23	VSS
AA31	VSS
AA33	VSS
AA36	VSS
AB2	VSS
AB43	VSS
AC2	VSS
AC3	VSS
AC7	VSS
AC10	VSS
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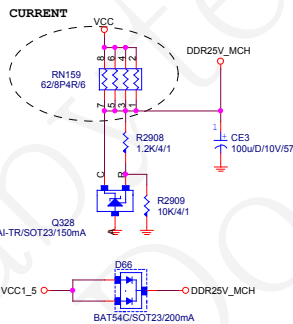
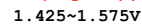
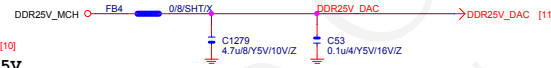
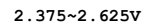
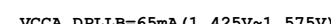
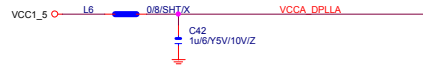
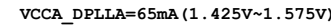
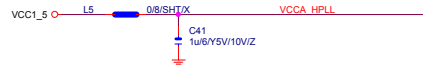
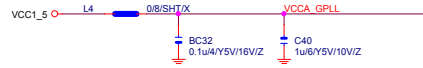
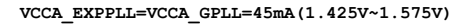
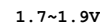
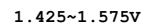
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AD9	VSS
AD11	VSS
AD13	VSS
AD33	VSS
N24	VSS
AD37	VSS
AD42	VSS
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AF2	VSS
N33	VSS
AF5	VSS
N39	VSS
AF36	VSS
AF38	VSS
AF43	VSS
P15	VSS
AG31	VSS
AG33	VSS
AG36	VSS
P29	VSS
AG38	VSS
AG39	VSS
AH42	VSS
R12	VSS
A10	VSS
A30	VSS
A31	VSS
R34	VSS
A35	VSS
A37	VSS
AK24	VSS
AK26	VSS
AK29	VSS
AK30	VSS
U9	VSS
AL1	VSS
AL2	VSS
AL3	VSS
AL7	VSS
AL10	VSS
AL12	VSS
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AL15	VSS
AL18	VSS
AL21	VSS
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AN17	VSS
AN18	VSS
AN20	VSS
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AN23	VSS
AN24	VSS
AN26	VSS
AN27	VSS
AN31	VSS
AN42	VSS
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AR6	VSS
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AR32	VSS
AR37	VSS
AR39	VSS
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AU15	VSS
AU17	VSS
AU20	VSS
AD18	VSS
AD20	VSS
AD22	VSS
AD24	VSS
AD27	VSS
AD29	VSS
AE19	VSS
AE21	VSS
AE23	VSS
AE25	VSS
AF18	VSS
AF20	VSS
AF22	VSS
AF24	VSS
AY1	VSS
BC4	VSS

VSS	AU21
VSS	AU24
VSS	AU26
VSS	AU29
VSS	AU32
VSS	AU34
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VSS	AV10
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VSS	BB11
VSS	BB14
VSS	BB19
VSS	BB34
VSS	BB39
VSS	BB41
VSS	BC9
VSS	A40
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VSS	D43
VSS	R26
VSS	R29
VSS	U29
VSS	V24
VSS	V26
VSS	V29
VSS	W21
VSS	W23
VSS	W25
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VSS	Y29
VSS	AA25
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NC	B3
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NC	B42
NC	B43
NC	C42
NC	C42
NC	E35
NC	AV26
NC	AV27
NC	AW2
NC	AW26
NC	BA2
NC	BB1
NC	BB2
NC	BB43
NC	BC1
NC	BC2
NC	BC42
NC	BC43
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RSVD	AJ23
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RSVD	AL29
RSVD	AL50
RSVD	AJ21
RSVD	AL26
RSVD	AK27
RSVD	AD36
RSVD	AC34
RSVD	Y30
RSVD	Y33
RSVD	AF31
RSVD	AD31
RSVD	U31
RSVD	V31
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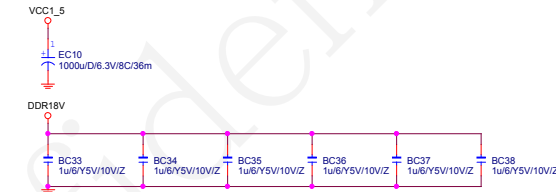
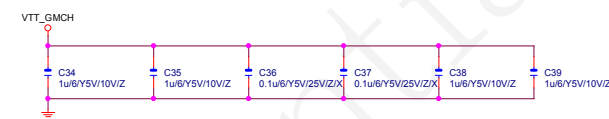
945GC-A2/BGA1202/FSB1066/[10HB1-033000-81R]

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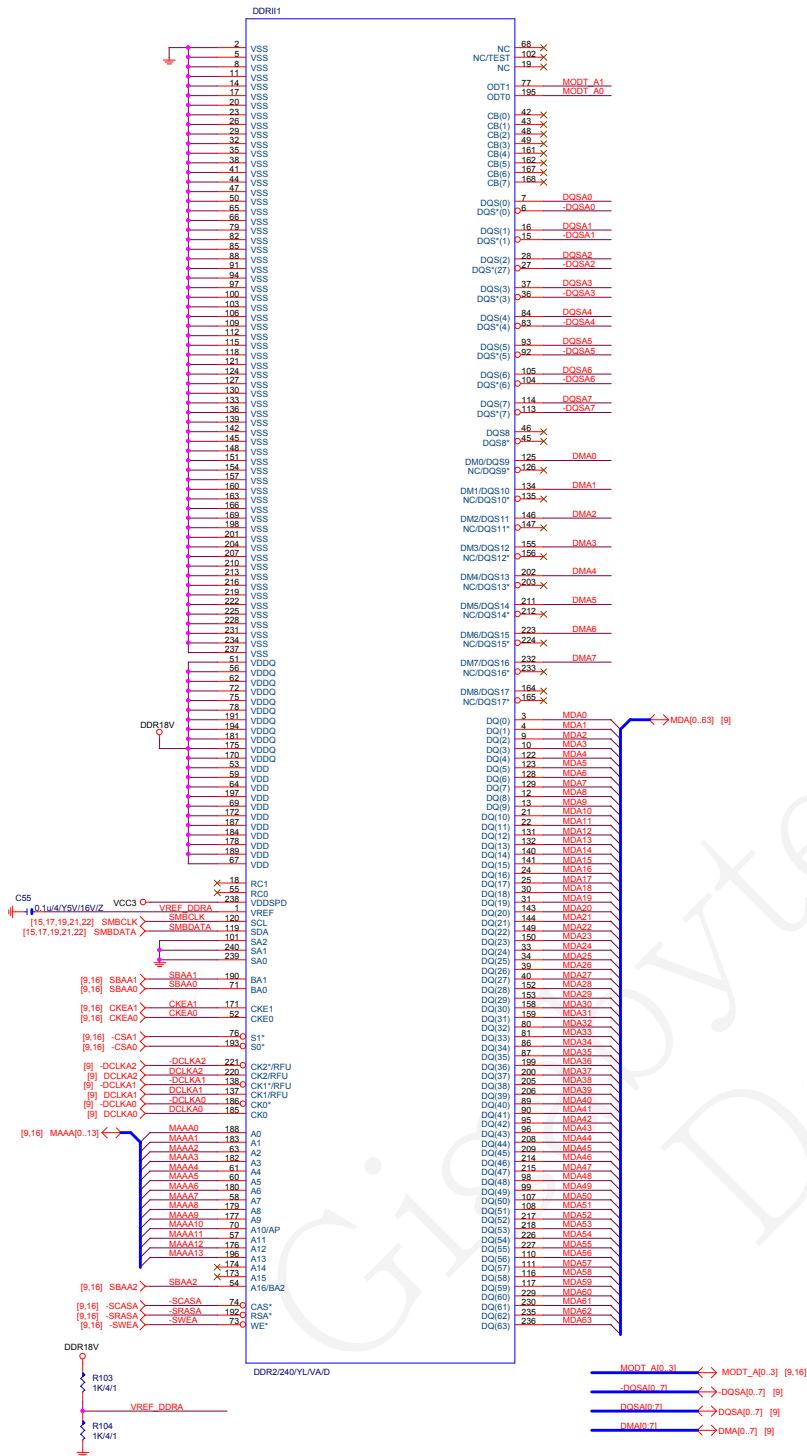
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GMCH-GND		
Size	Document Number	Rev
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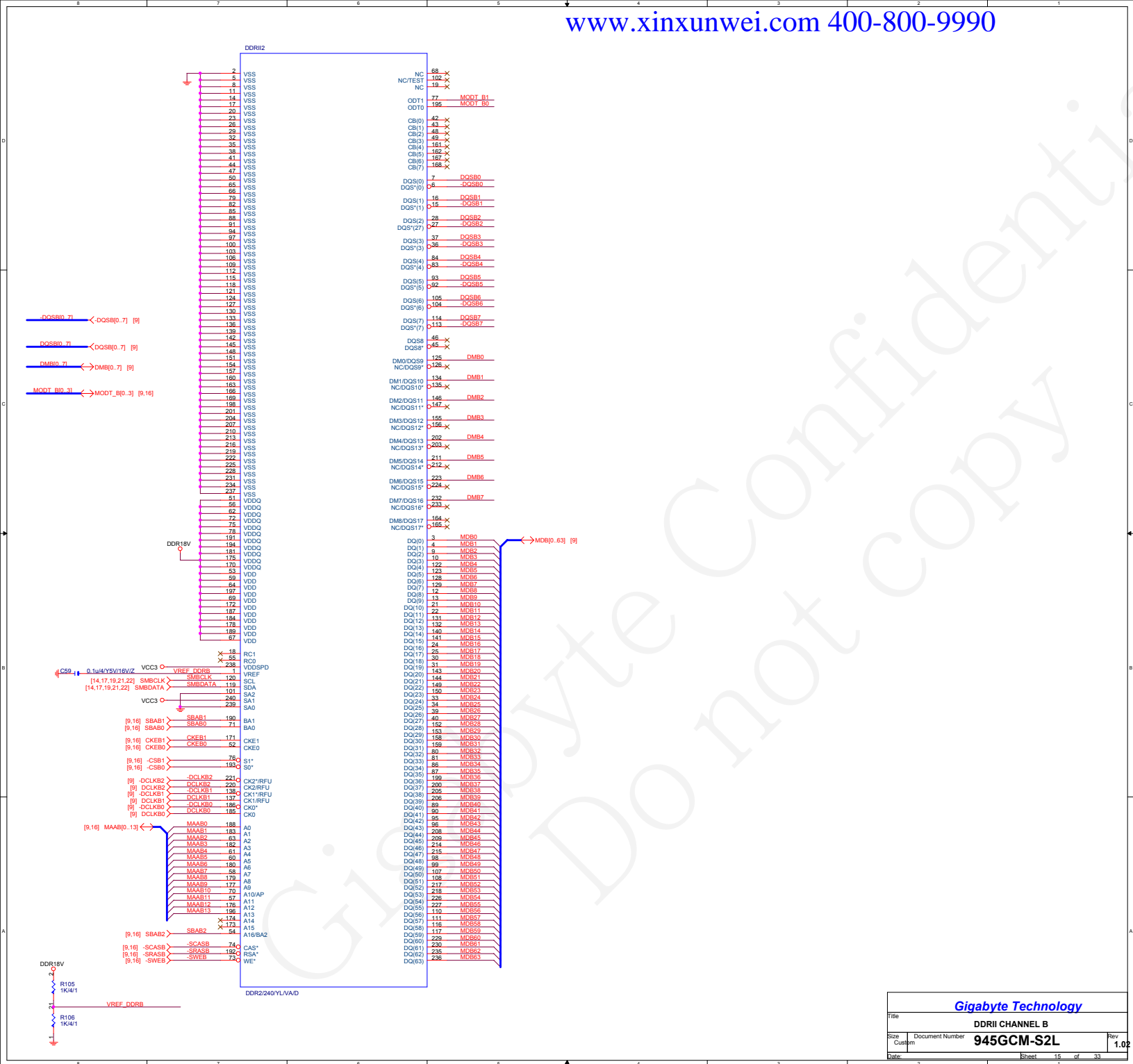


945 Design Guide rev1.5 spec.
VCCA_EXPLL>VCCA GPLL=45mA(1.425V~1.575V)
VCCA_HPLL>50mA 公板爲200mA(1.425V~1.575V)
VCCA_DPLL=65mA(1.425V~1.575V)
VCCA_DPLLB=65mA(1.425V~1.575V)
VCCA_MPLL>50mA(1.425V~1.575V)
VCCA_DACL=DDR25V DAC=70mA(2.375~2.625V)



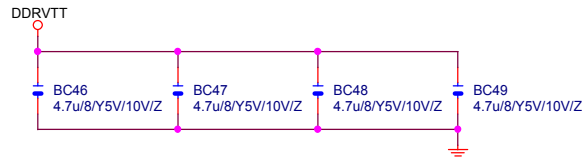
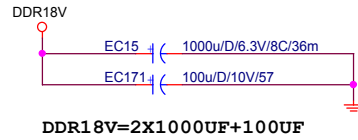
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Title			
GMCH-PWR			
Size Custom	Document Number		Rev
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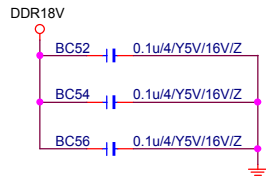


DDR TERMINATION CHANNEL A

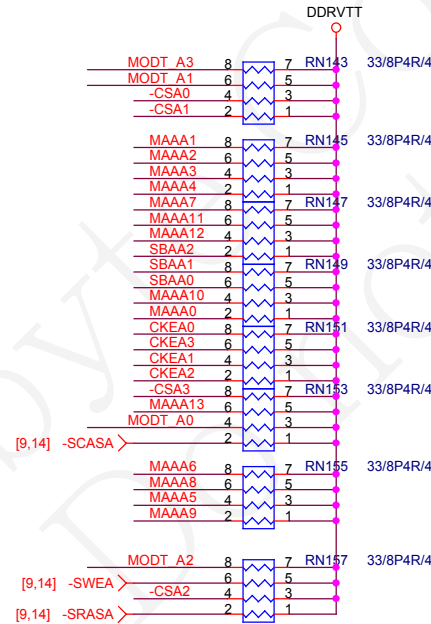
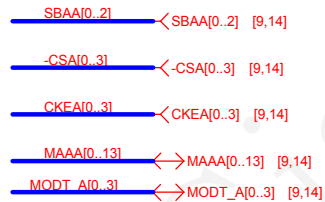
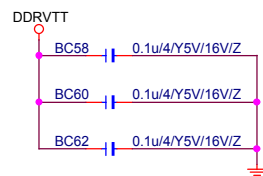
DDRVTT Decouple



DDR18V Decouple

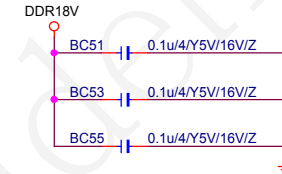


DDRVTT Decouple

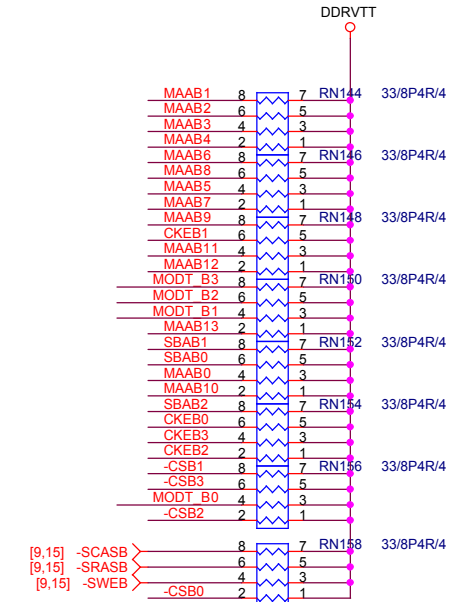
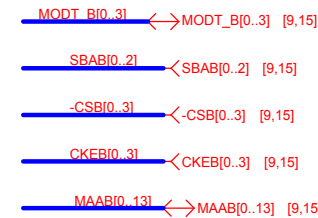
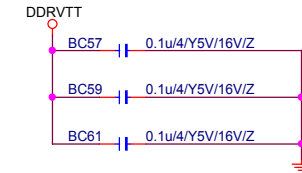


DDR TERMINATION CHANNEL B

DDR18V Decouple

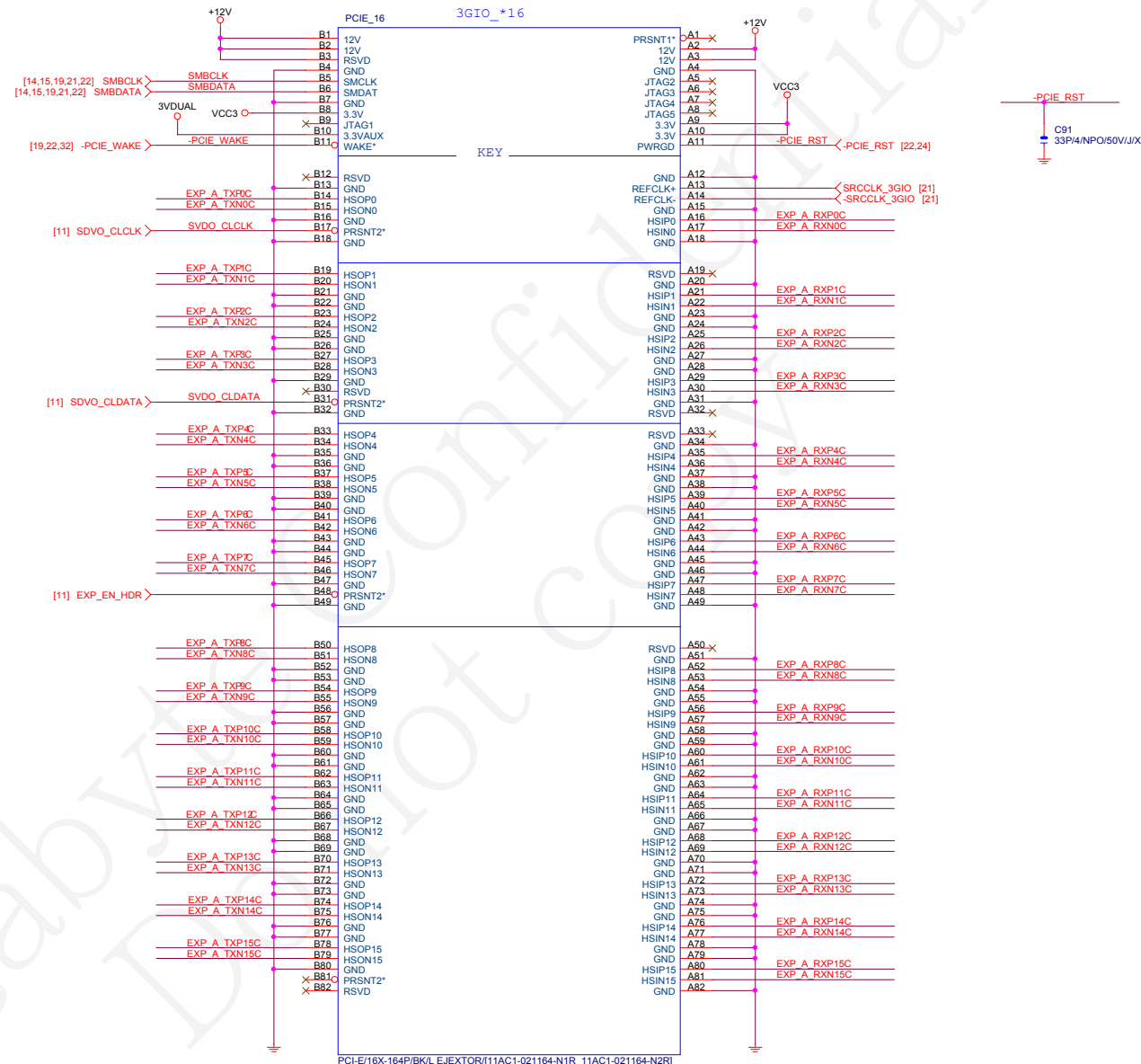
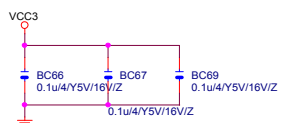


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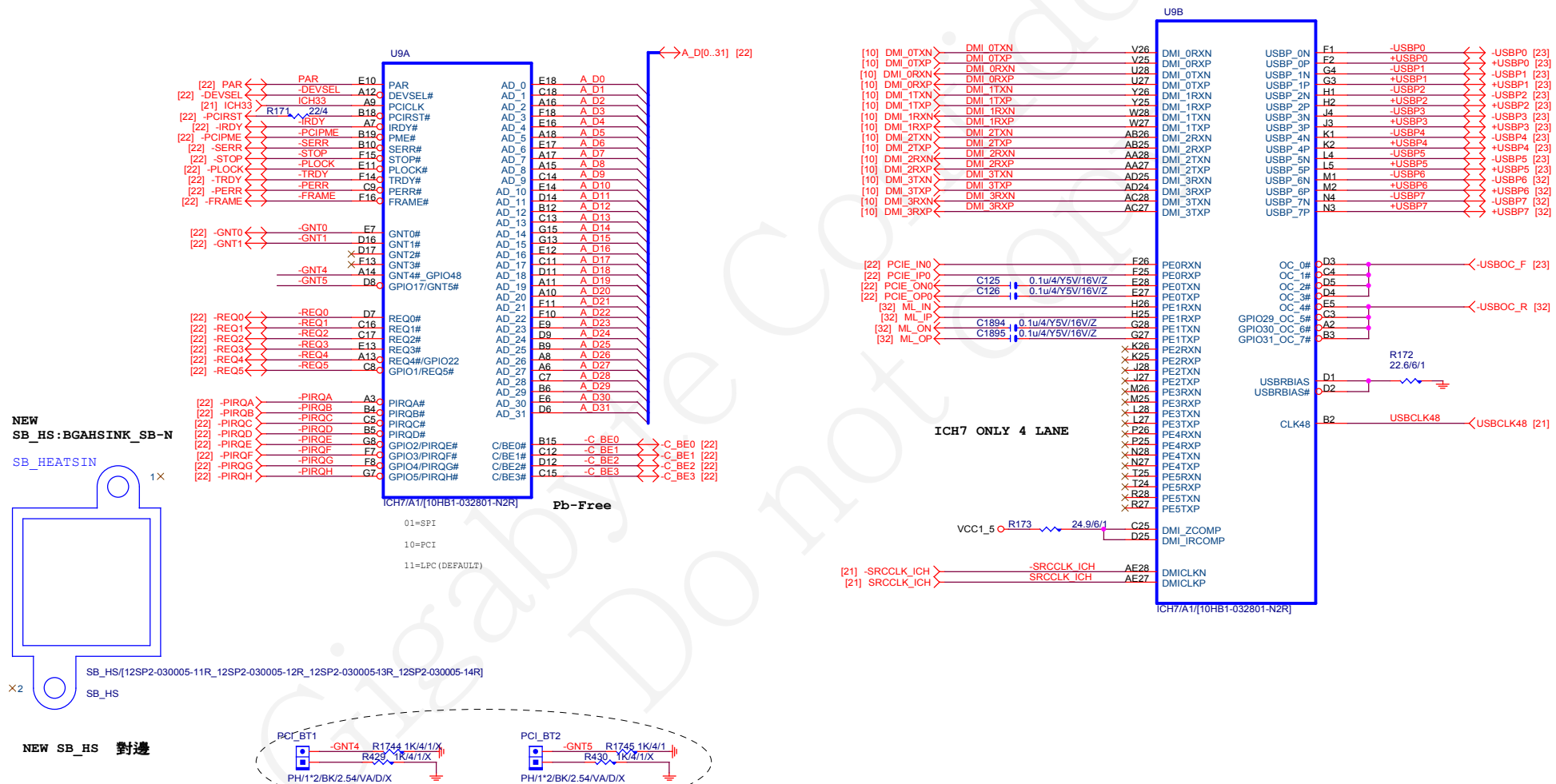


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Title			DDRII TERMINATOR
Size	Document Number	945GCM-S2L	
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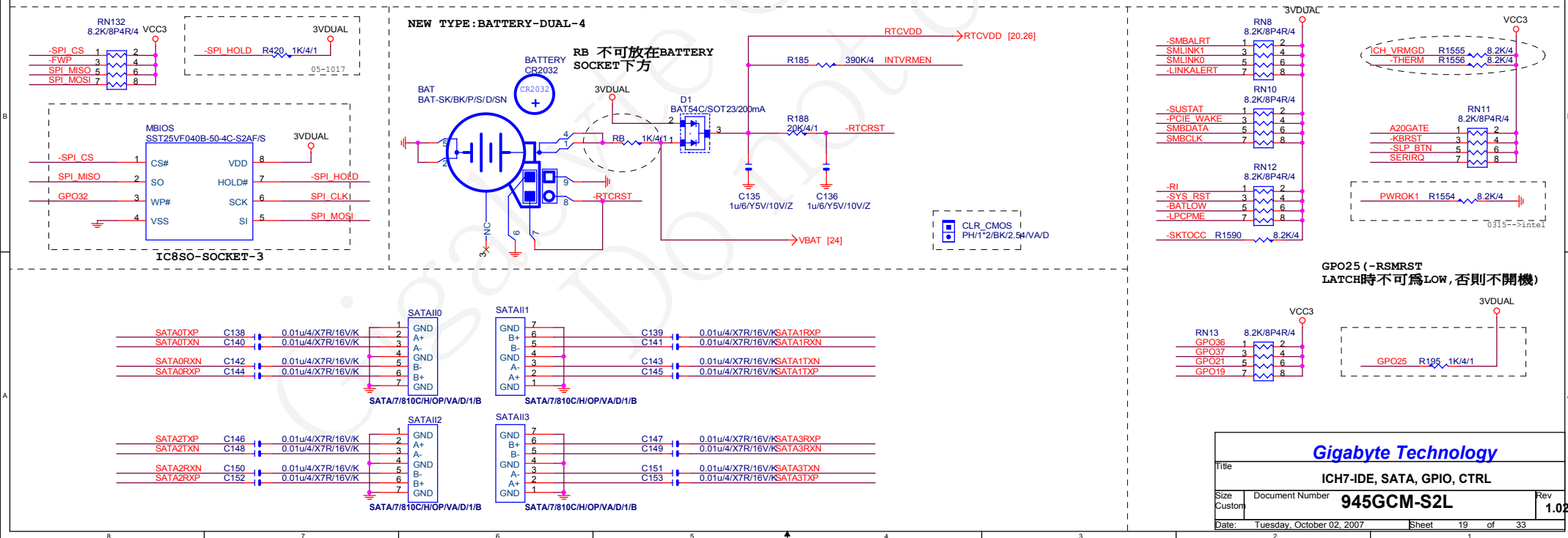
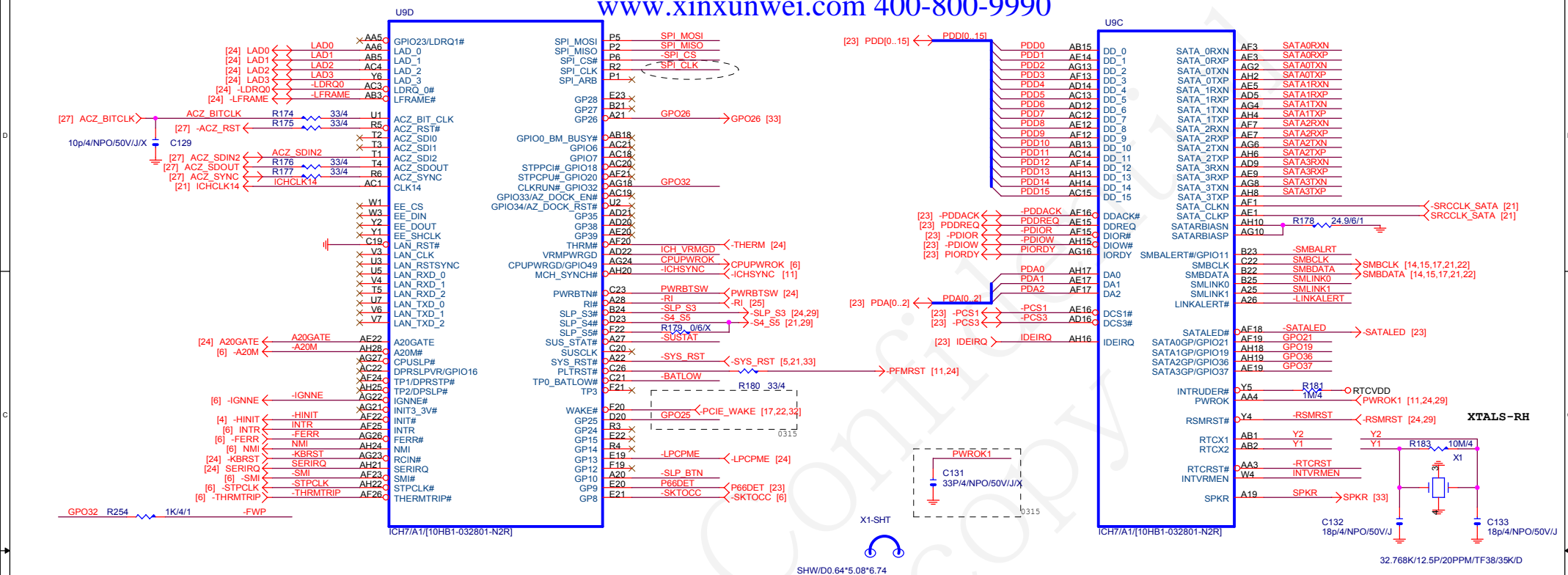


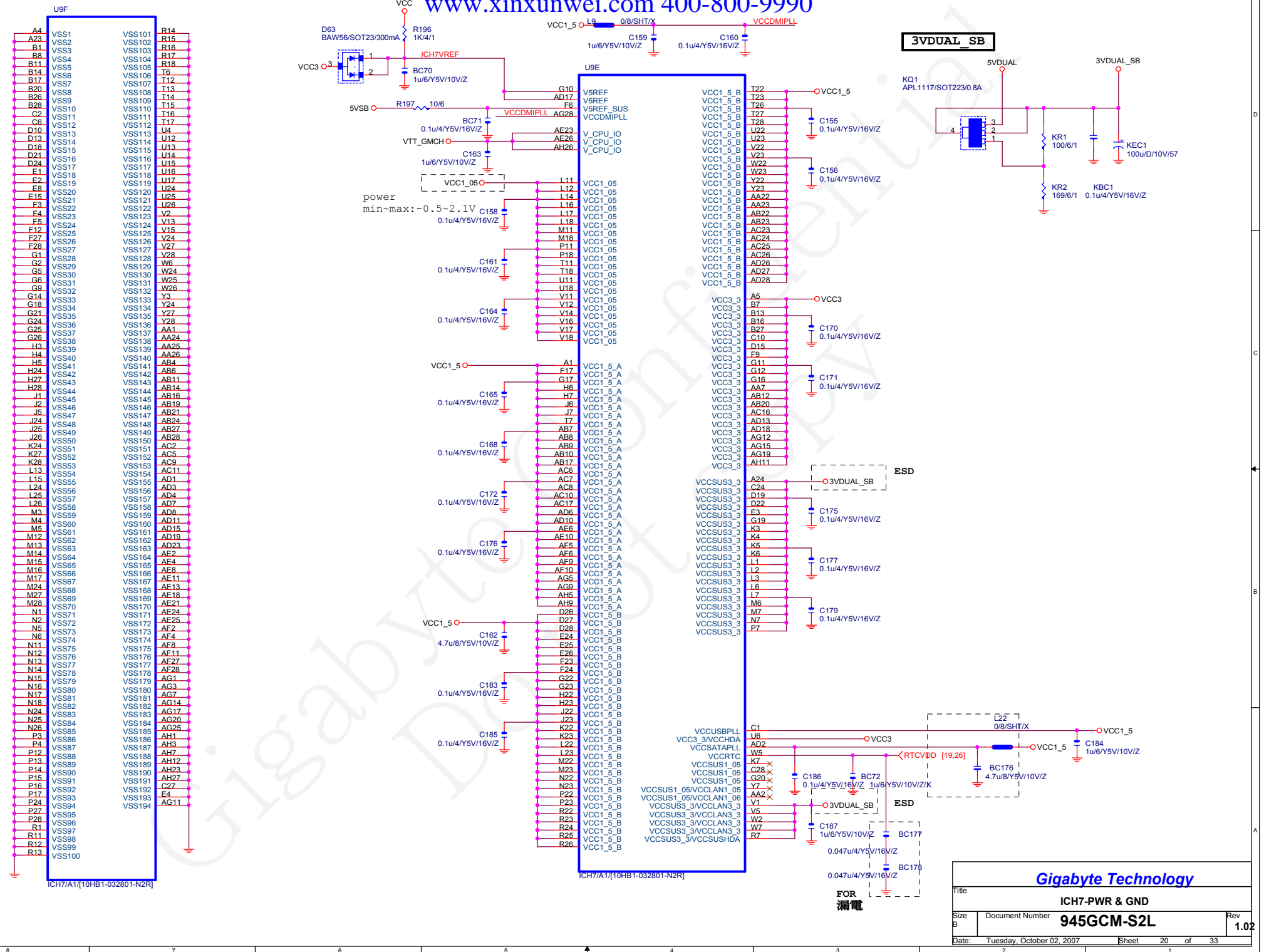
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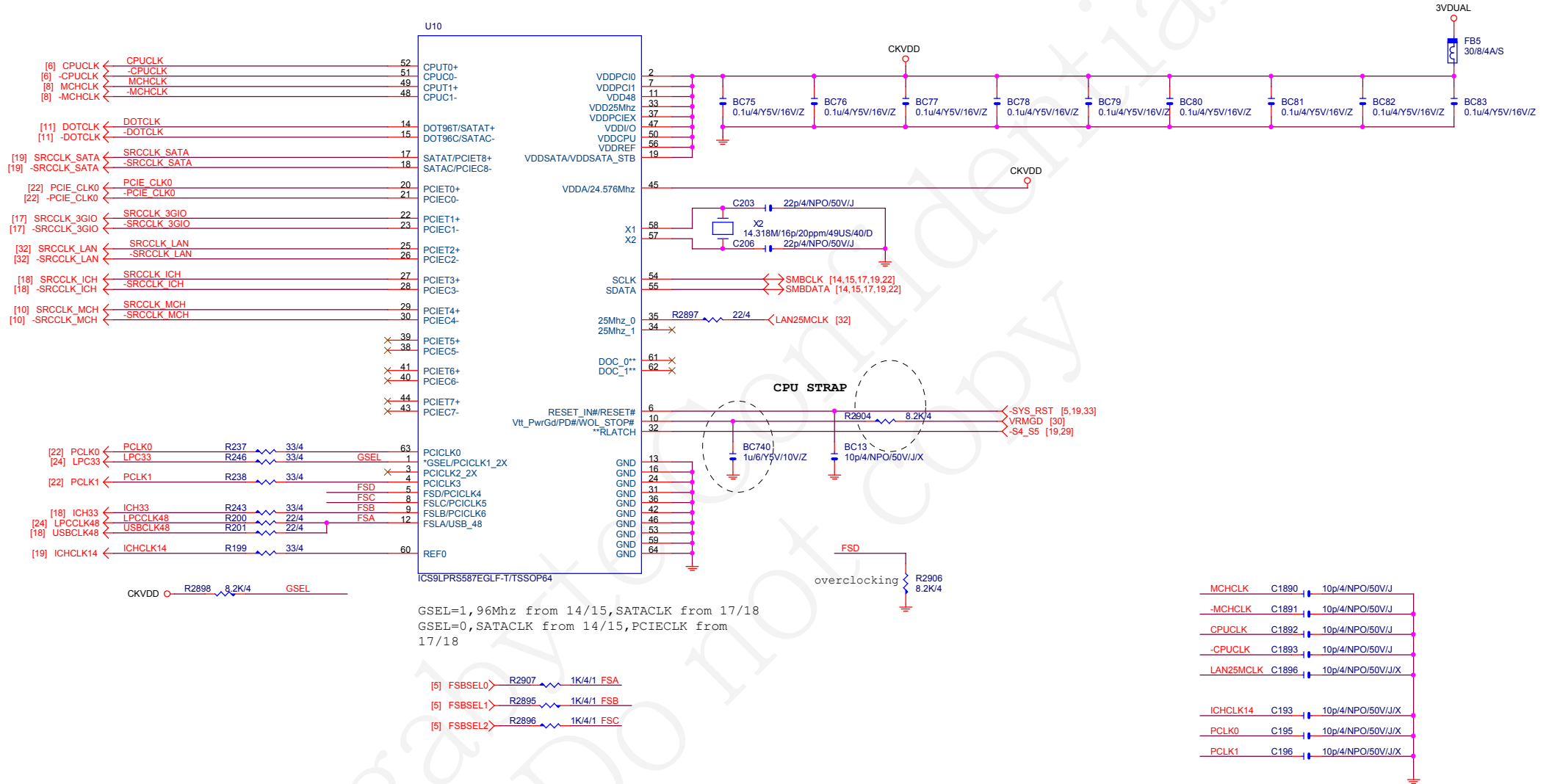


Gigabyte Technology

Title		
ICH7-PCI, DMI, LAN, USB		
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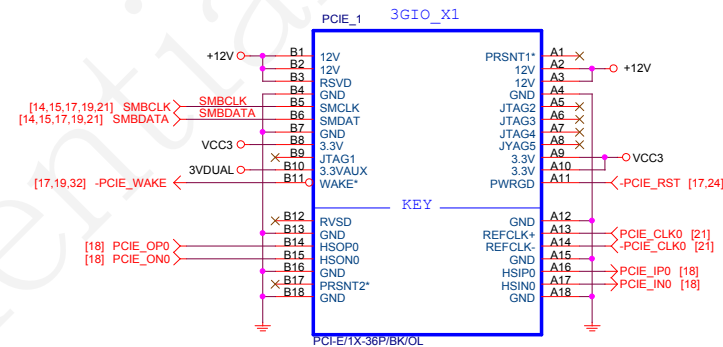
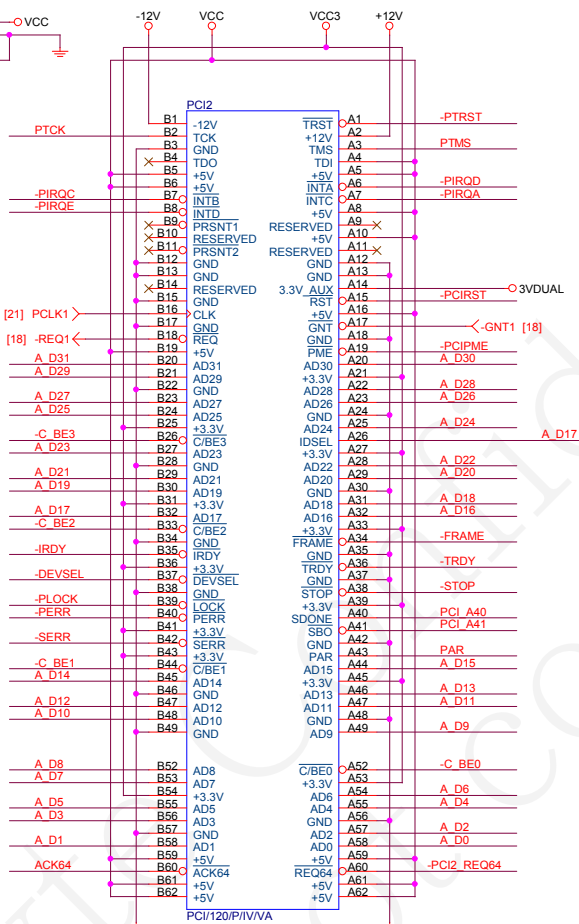
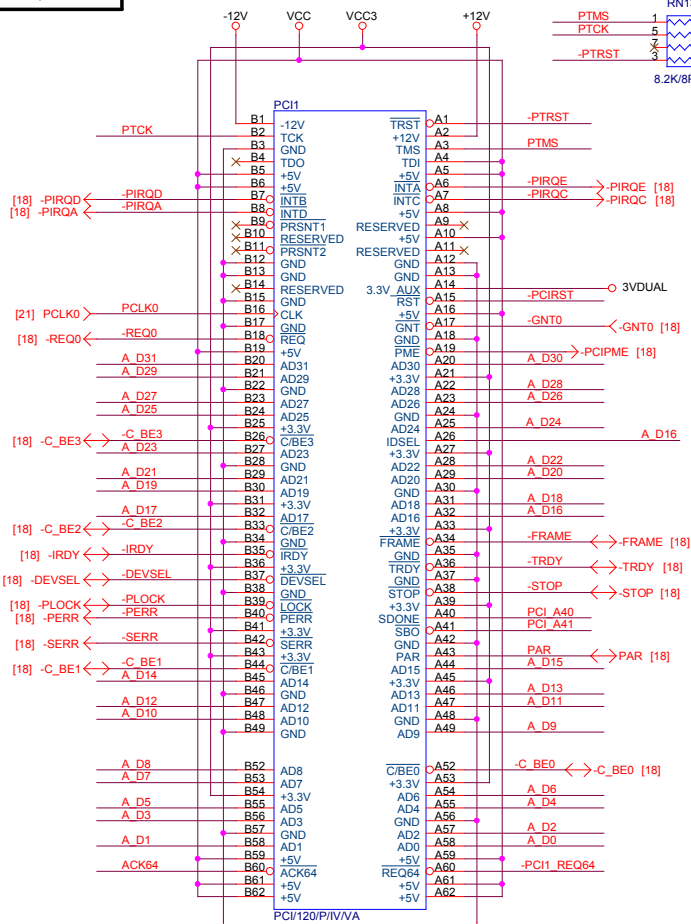




Gigabyte Technology

Title		
CK505 CLK GEN		
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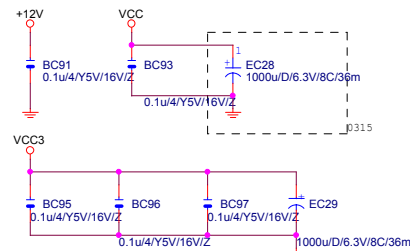
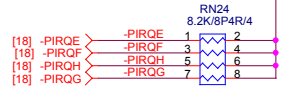
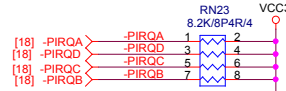
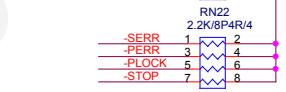
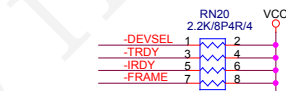
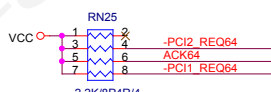
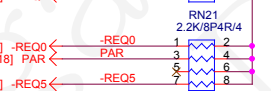
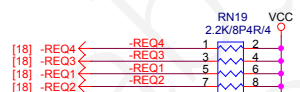
PCI1, 2 SLOT



[18] A_D[0..31] <-> A_D0..31

-PCIRST <-> PCIRST [18]

Place close to PCI1

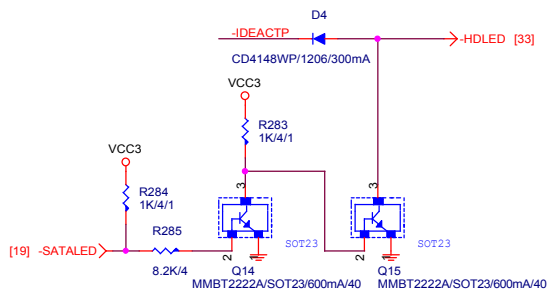


Gigabyte Technology

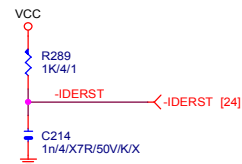
PCI SLOT 1, 2/PCIEX1

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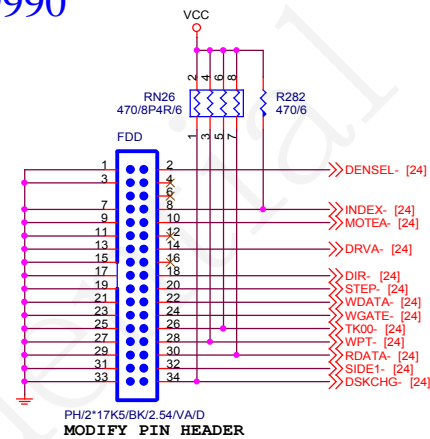
IDE/SATA LED



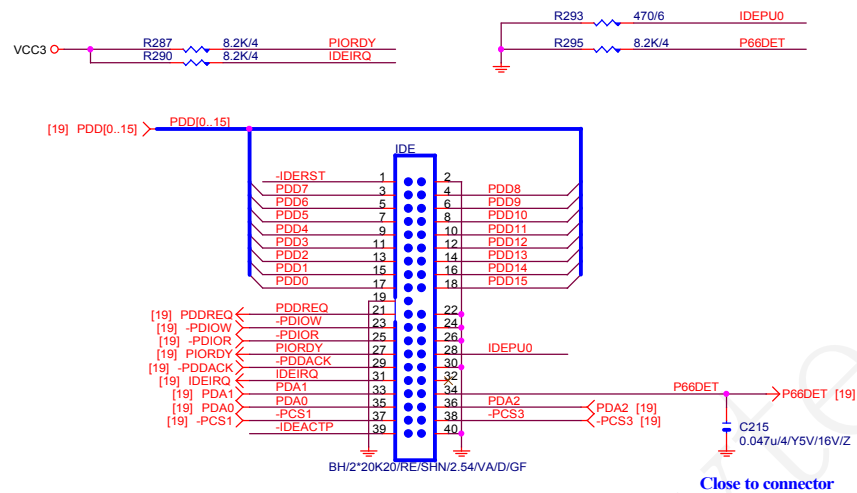
IDE RESET



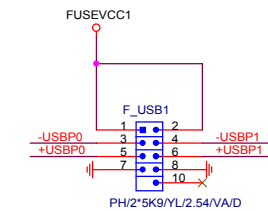
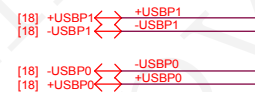
FLOPPY



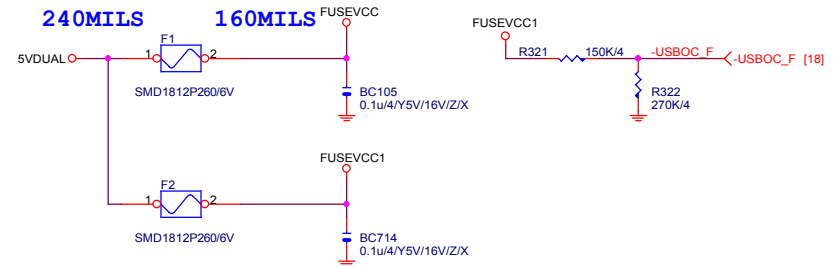
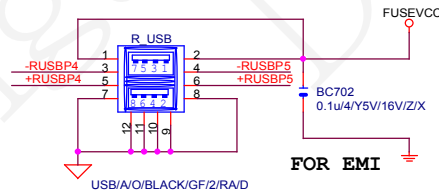
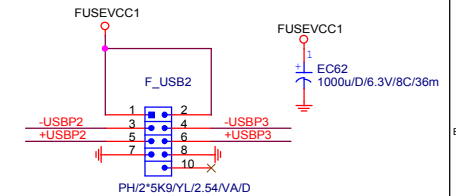
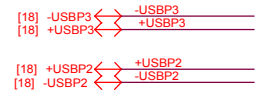
IDE



FRONT USB1



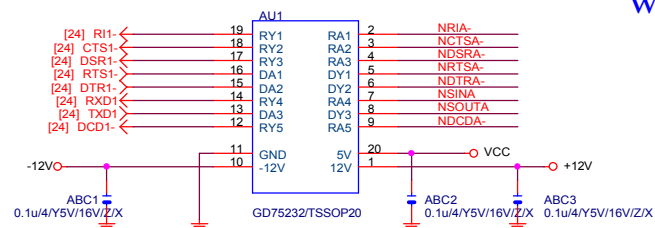
FRONT USB2



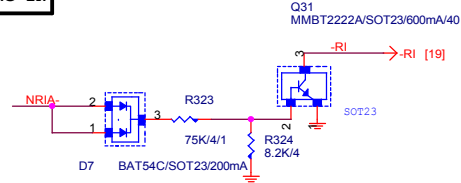
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Title		
IDE,FDD,F_USB		
Size B Document Number 945GCM-S2L Rev 1.02		
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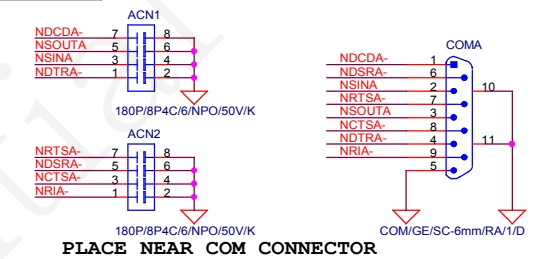
COMA



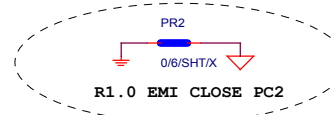
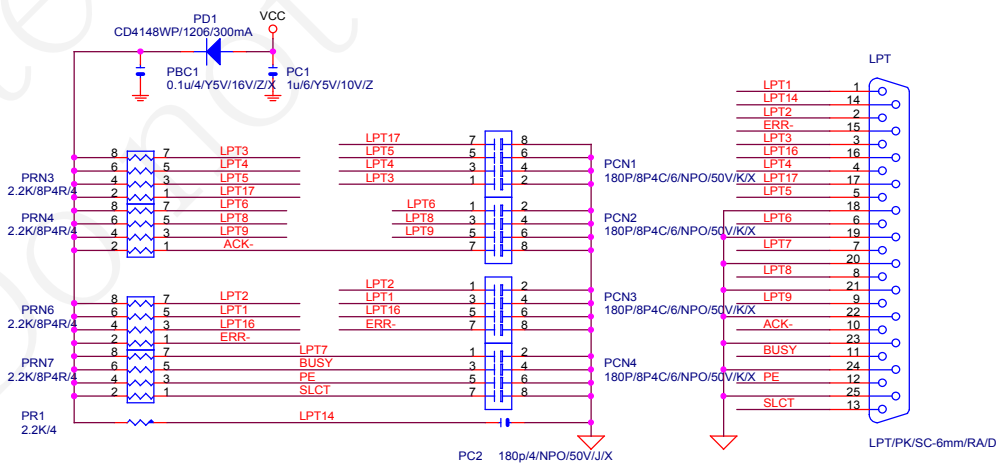
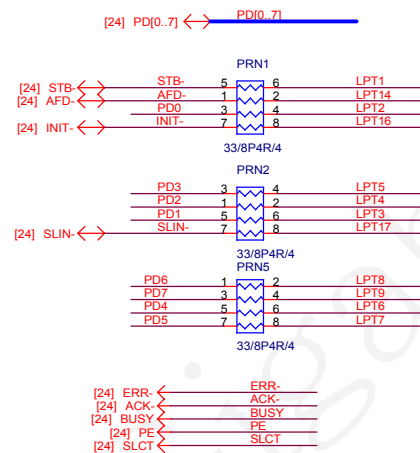
RING IN



EXTERNAL COMA



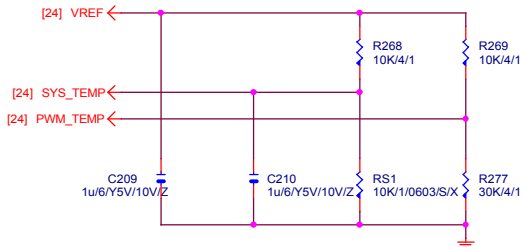
LPT PORT



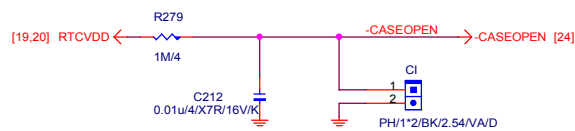
Gigabyte Technology

COM & LPT PORT		
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TEMP H/W MONITOR

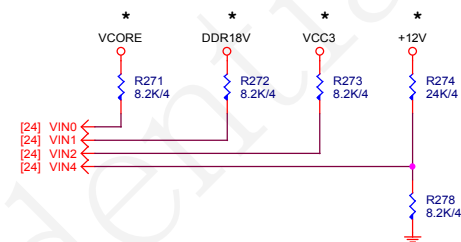
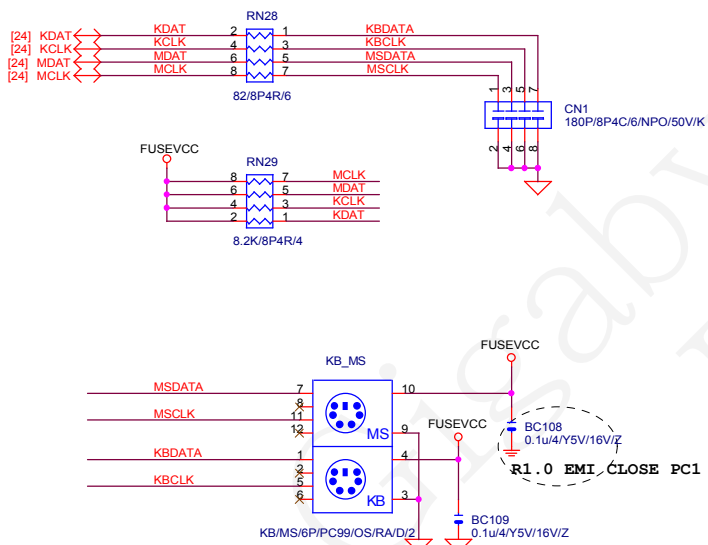


CASE OPEN



Case Open Circuits

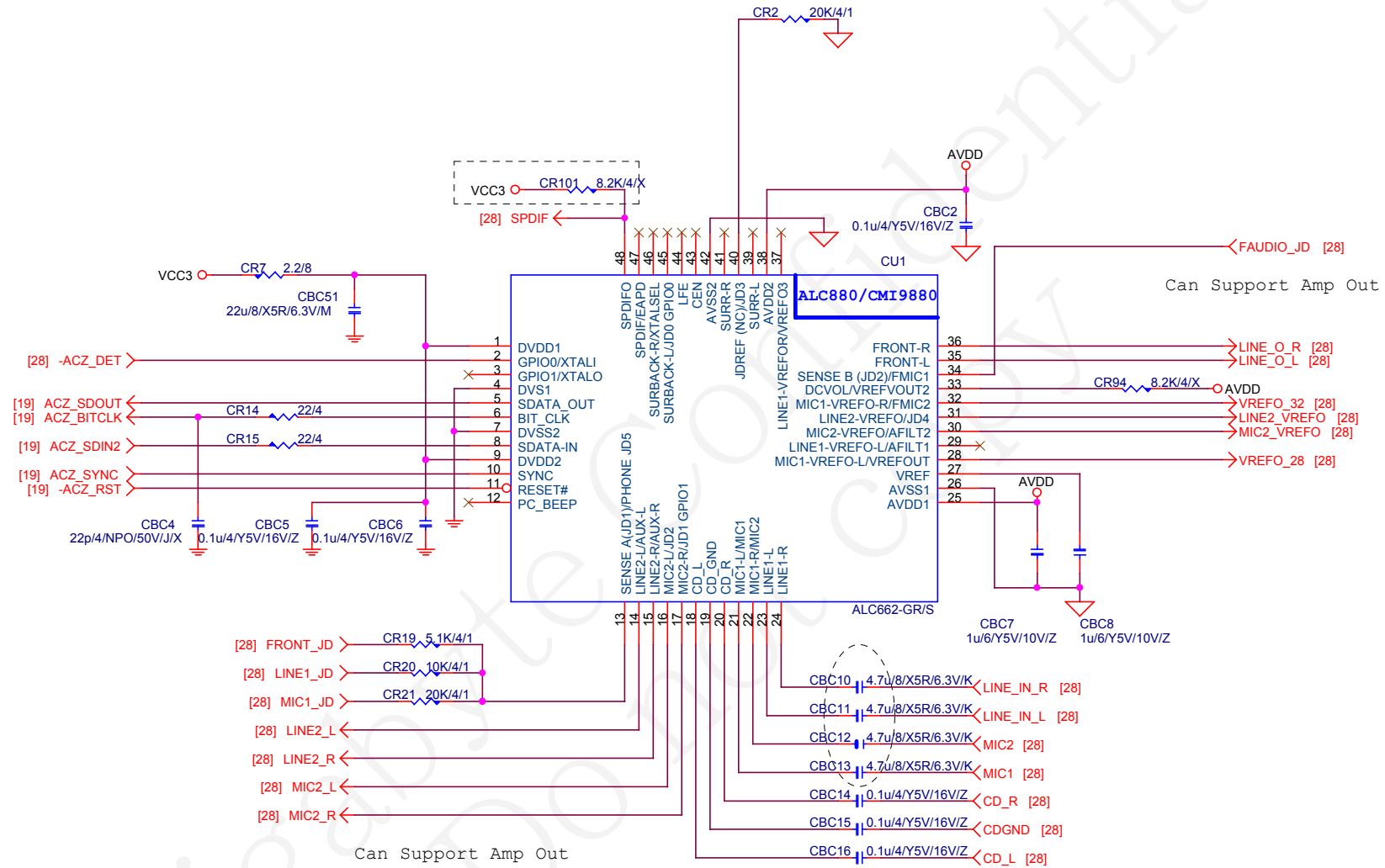
KB/MS



Gigabyte Technology

Title			BIOS/HW-MONITOR/CI/KB/MS
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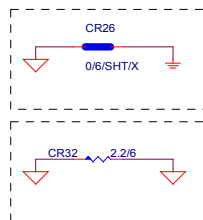
AZALIA CODEC



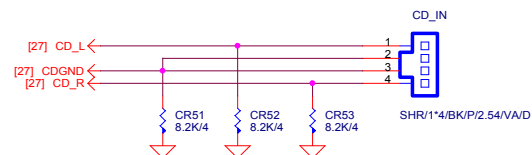
Gigabyte Technology

Title		
AZALIA ALC662		
Size	Document Number	Rev
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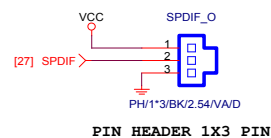
CD	IN
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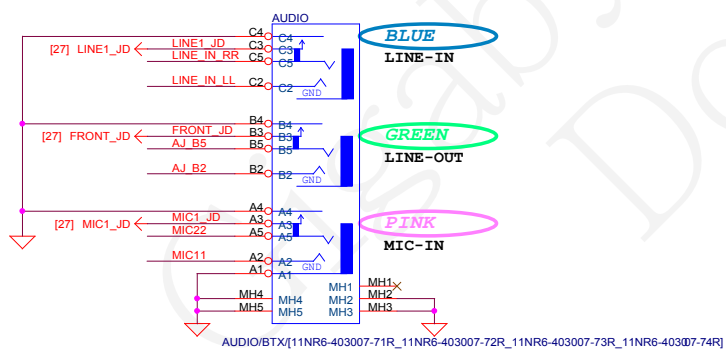
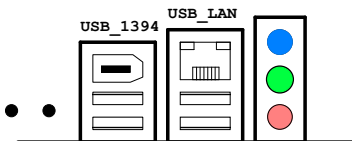
CD	IN
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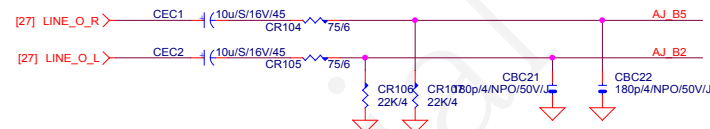
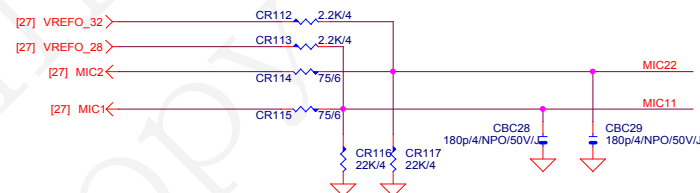
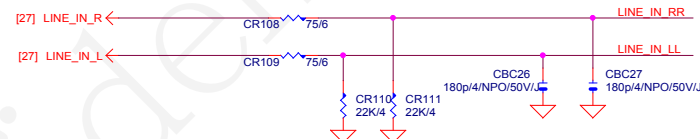
SPDIF



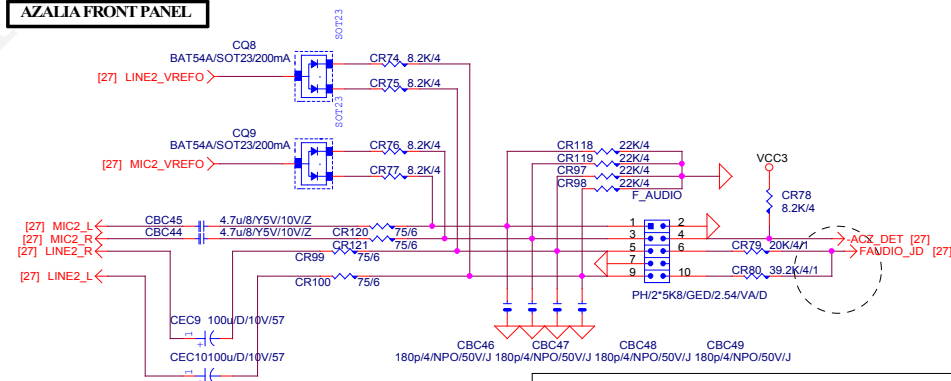
AZALIA JACK



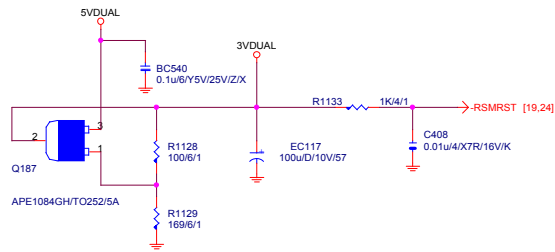
LINE-IN

**MIC-IN**

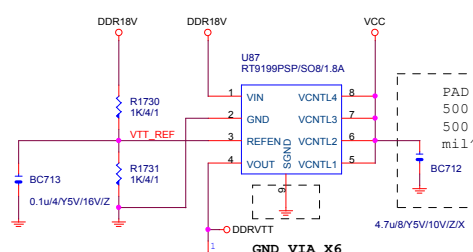
AZALIA FRONT PANEL



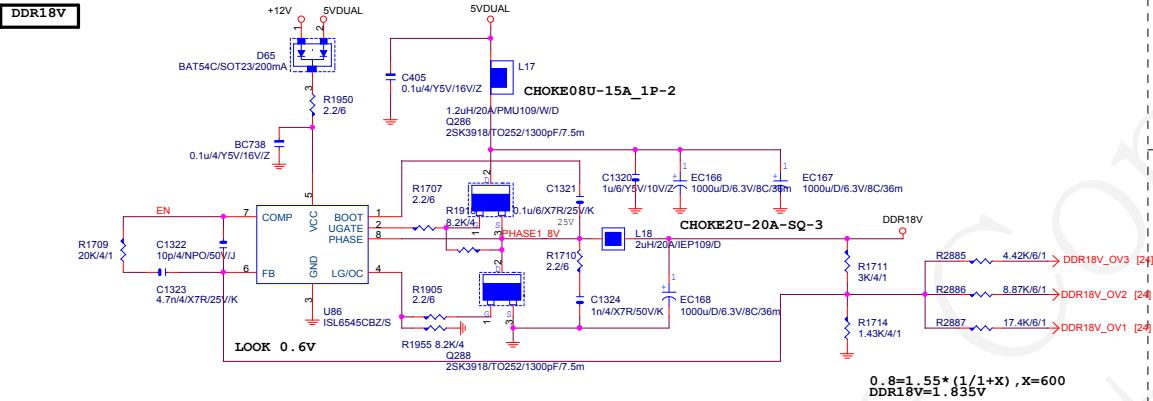
3VDUAL CIRCUIT



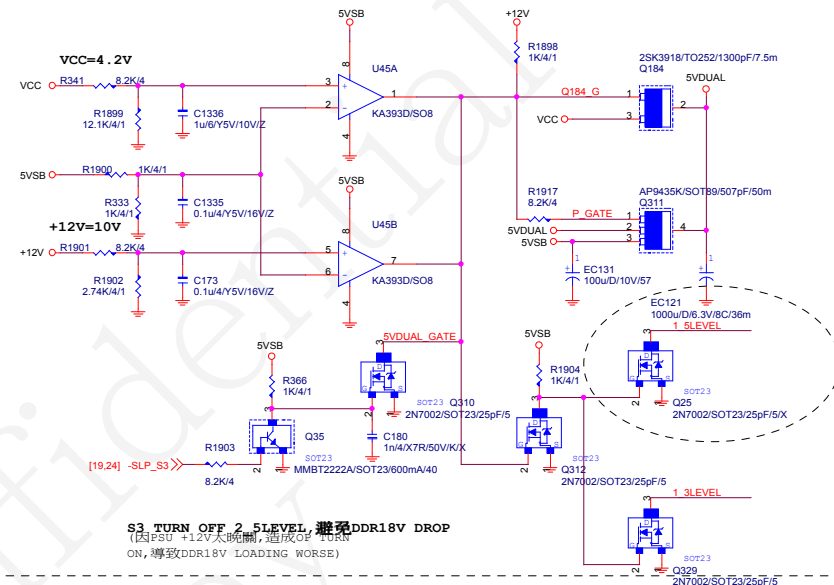
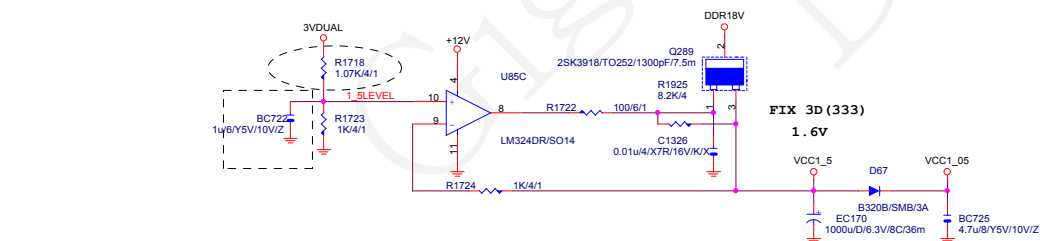
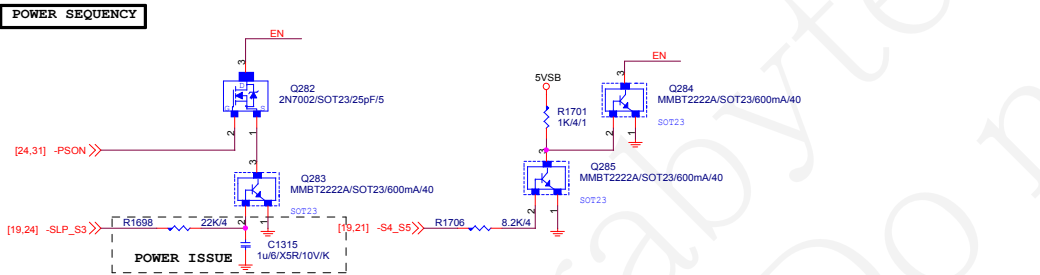
DDRVTT



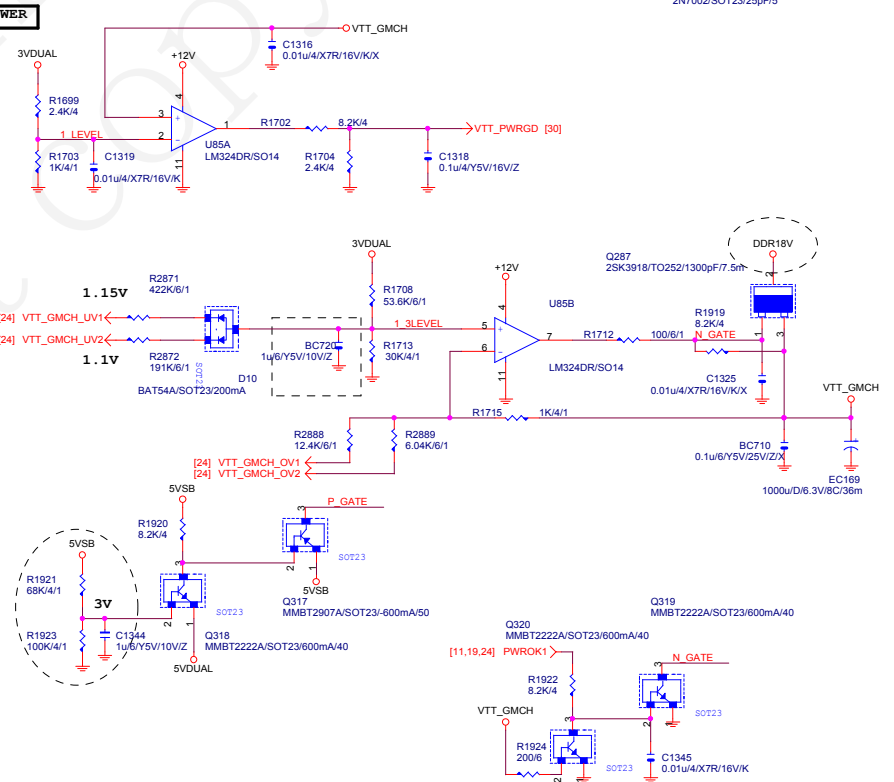
DDR18V



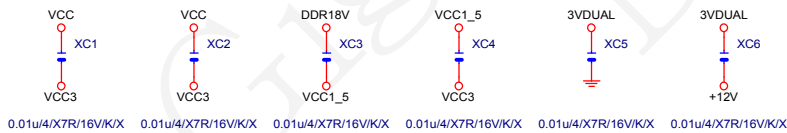
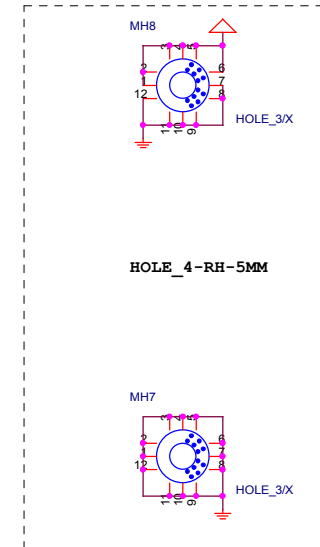
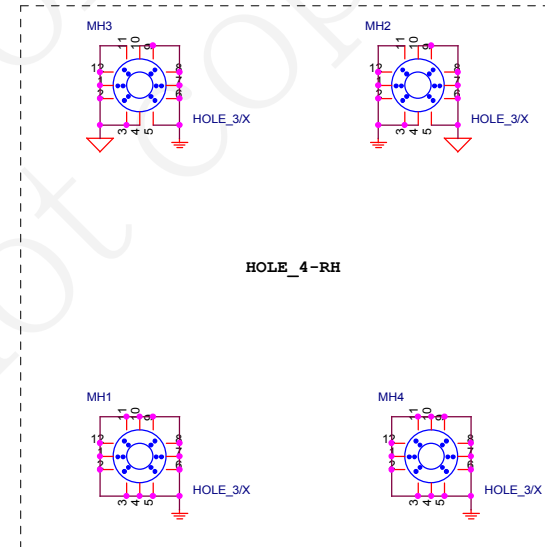
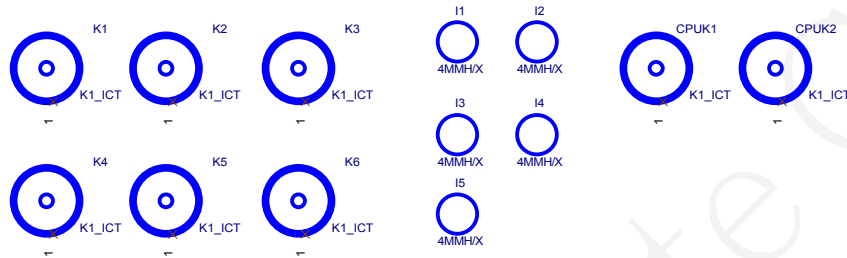
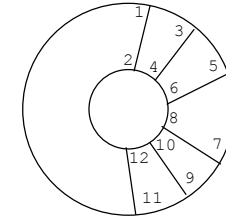
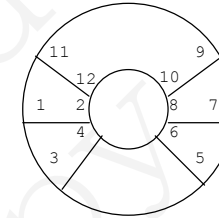
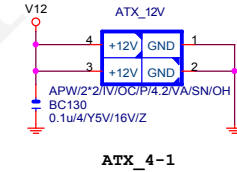
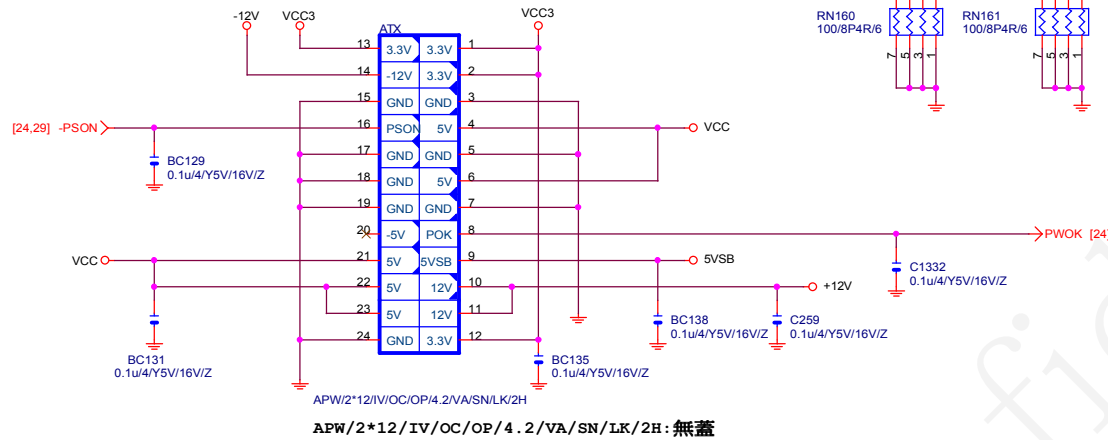
POWER SEQUENCY



POWER



ATXPWR_24-2
ATX POWER CONNECTOR



PCIE-1G LAN

LR33:0/6 DISABLE SWITCHING REG

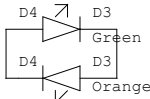
[21] LAN25MCLK
 LR16:
 RTL8101E-->2K/4/1
 RTL8111C/8102E-->2.49K/4/1

RTL8111C

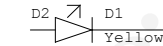
LR36:
 RTL8101E/8102E -->X
 RTL8111C-->O

www.xinxunwei.com 400-800-9990

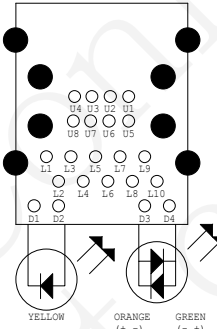
Dual Color LED



Single Color LED



P35-152-19W9



USB LAN CONNECTOR

RTL8101E:LR38/LC5/LR43/LC6-->O
 RTL8102E:LC5/LC6-->O
 RTL8111C:LC6-->O

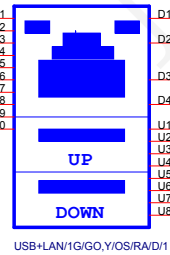
RTL8101E :LI+LI0-->AVDD18+0.1U(BIOS DISABLE MDI-X FUNCTION)

1G :USB+LAN/1G/GO,Y/OS/RA/D/1
 100M:USB+LAN/100/GO,Y/OS/RA/D/1

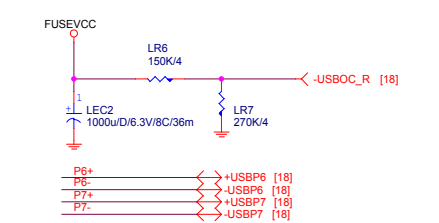
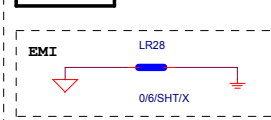
RTL8102E -->X

CLOSE LAN CHIP

USB_LAN

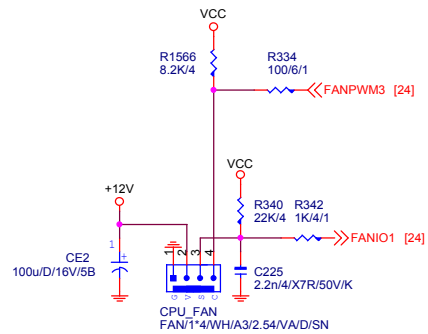


USB LAN

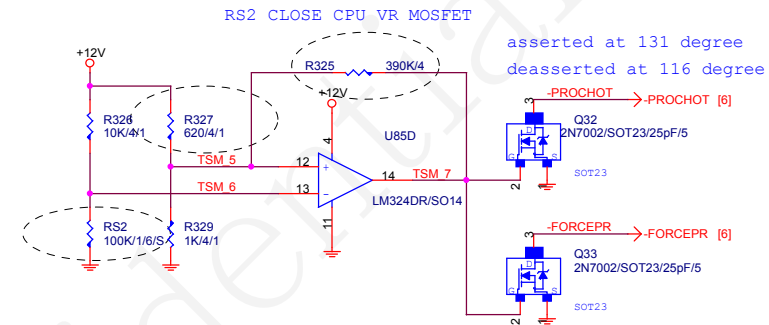


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REALTEK RTL8111C/8101E			
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CPU SMART FAN SMART FAN

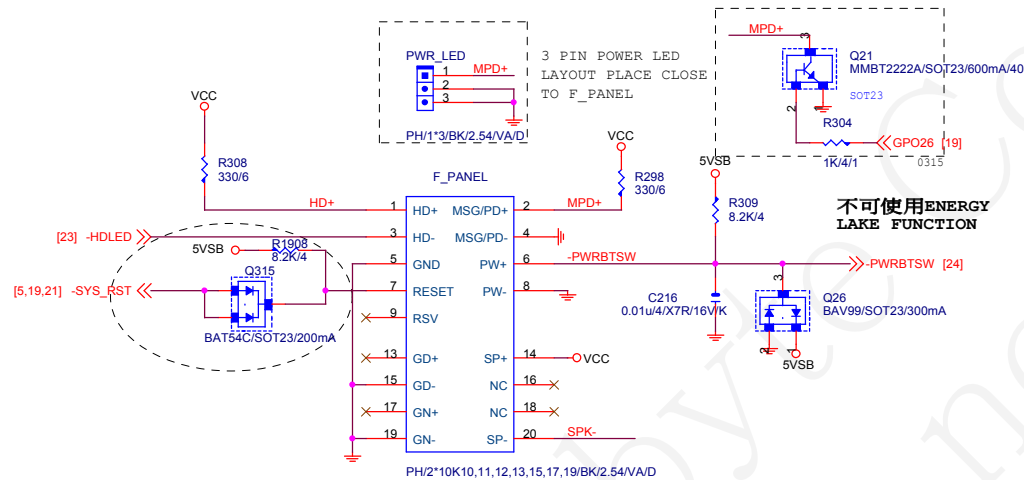


PROCESSOR HOT

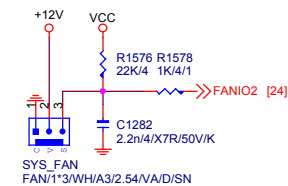


INTEL FRONT PANEL

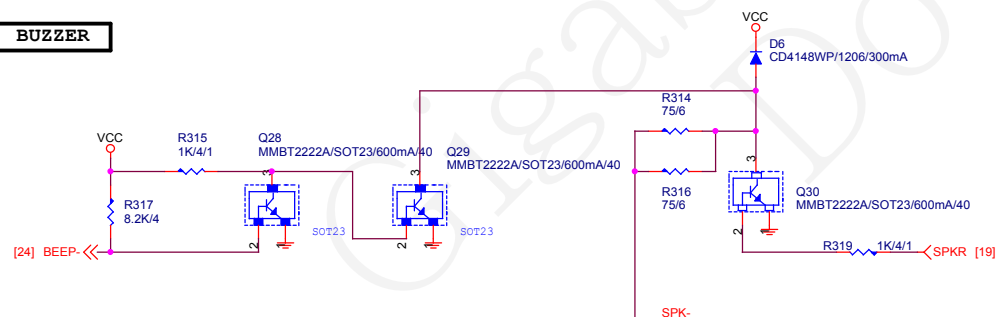
MPD- : (GPIO25--VCCSUS3+HI+HI+DEFINED (C3/C4/S/1/S3/S/4/S5))-->INTEL



SYS_FAN



BUZZER



Gigabyte Technology

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FRONT PANEL			
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