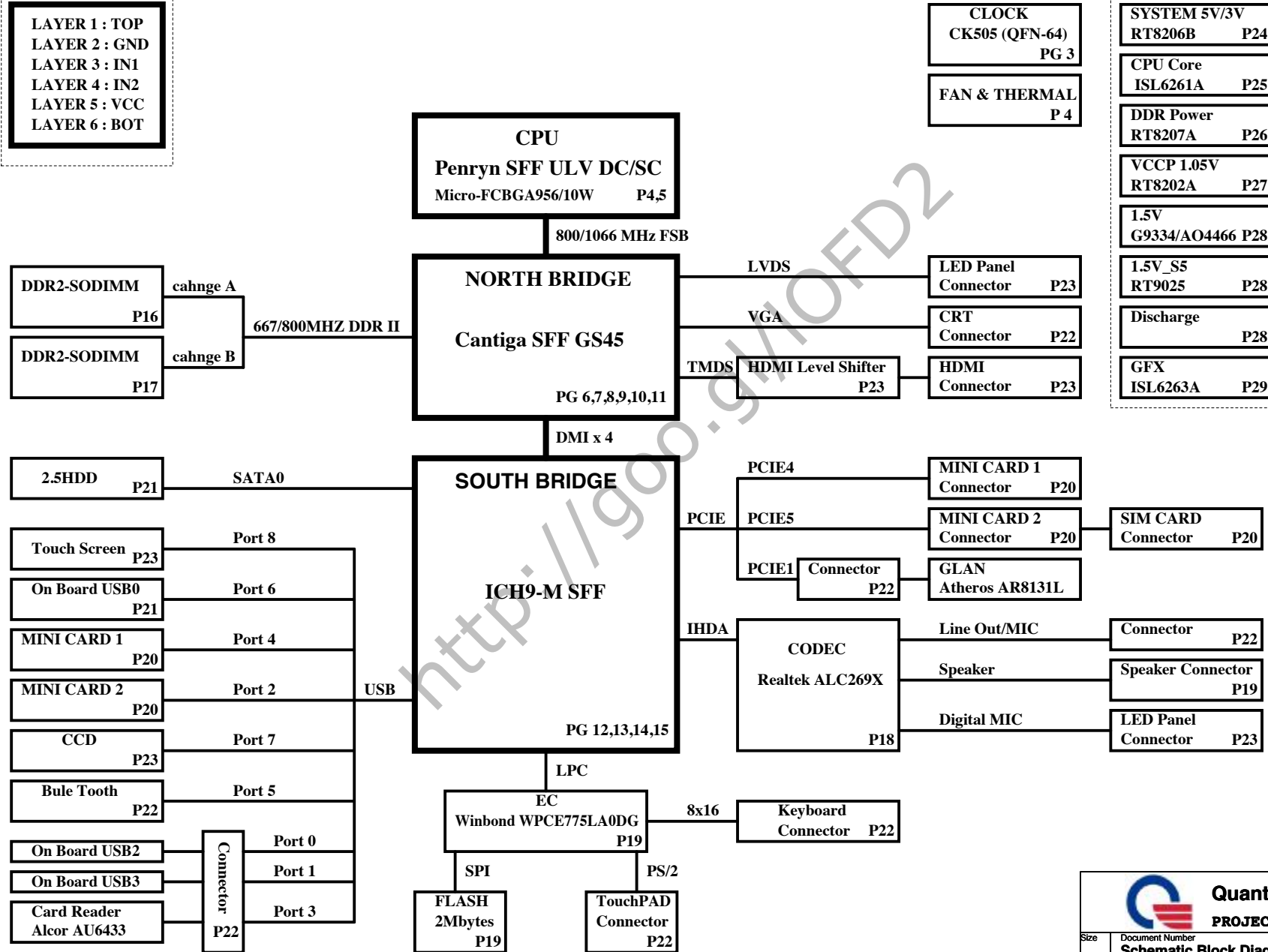


ZE8 BLOCK DIAGRAM

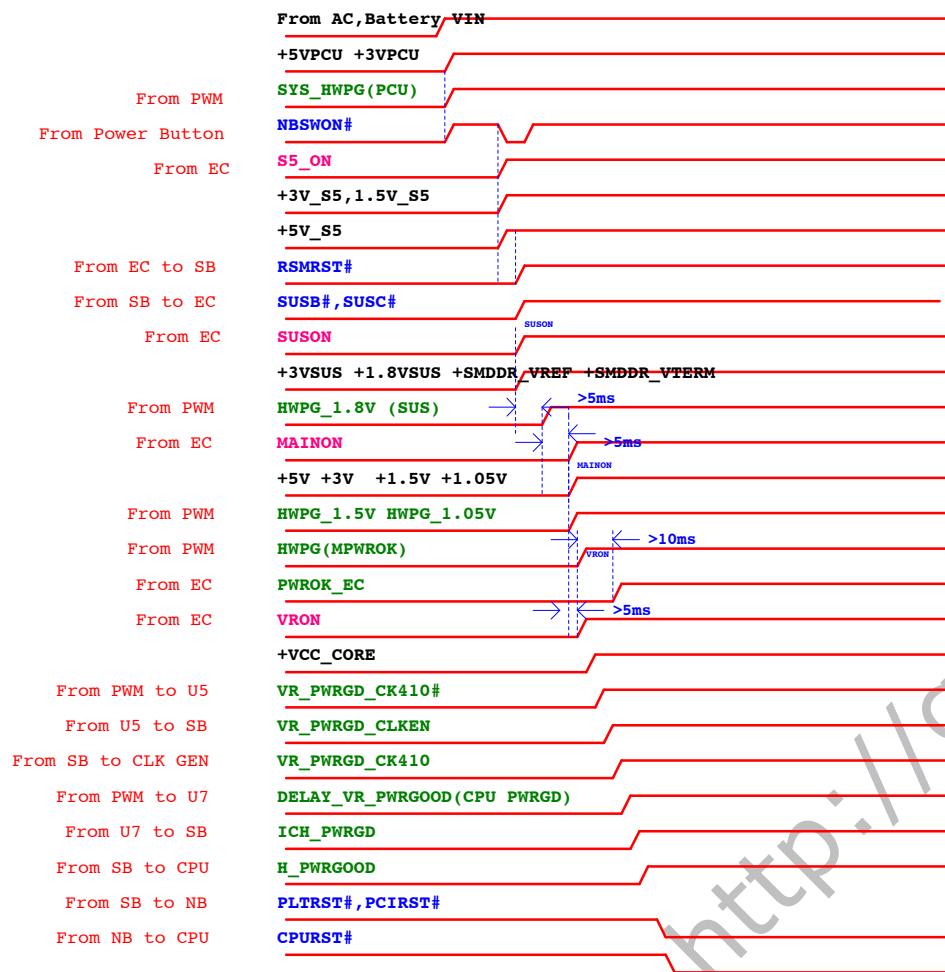
PCB STACK UP 6L HDI

LAYER 1 : TOP
LAYER 2 : GND
LAYER 3 : IN1
LAYER 4 : IN2
LAYER 5 : VCC
LAYER 6 : BOT



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PROJECT : ZE8

ZE8 Power On Sequence



BOM naming rule

Items	Function	Name	Description
1	With HDMI	HD@	
2	Without HDMI	NHD@	
3	3G Module	3G@	
4			
5			
6			

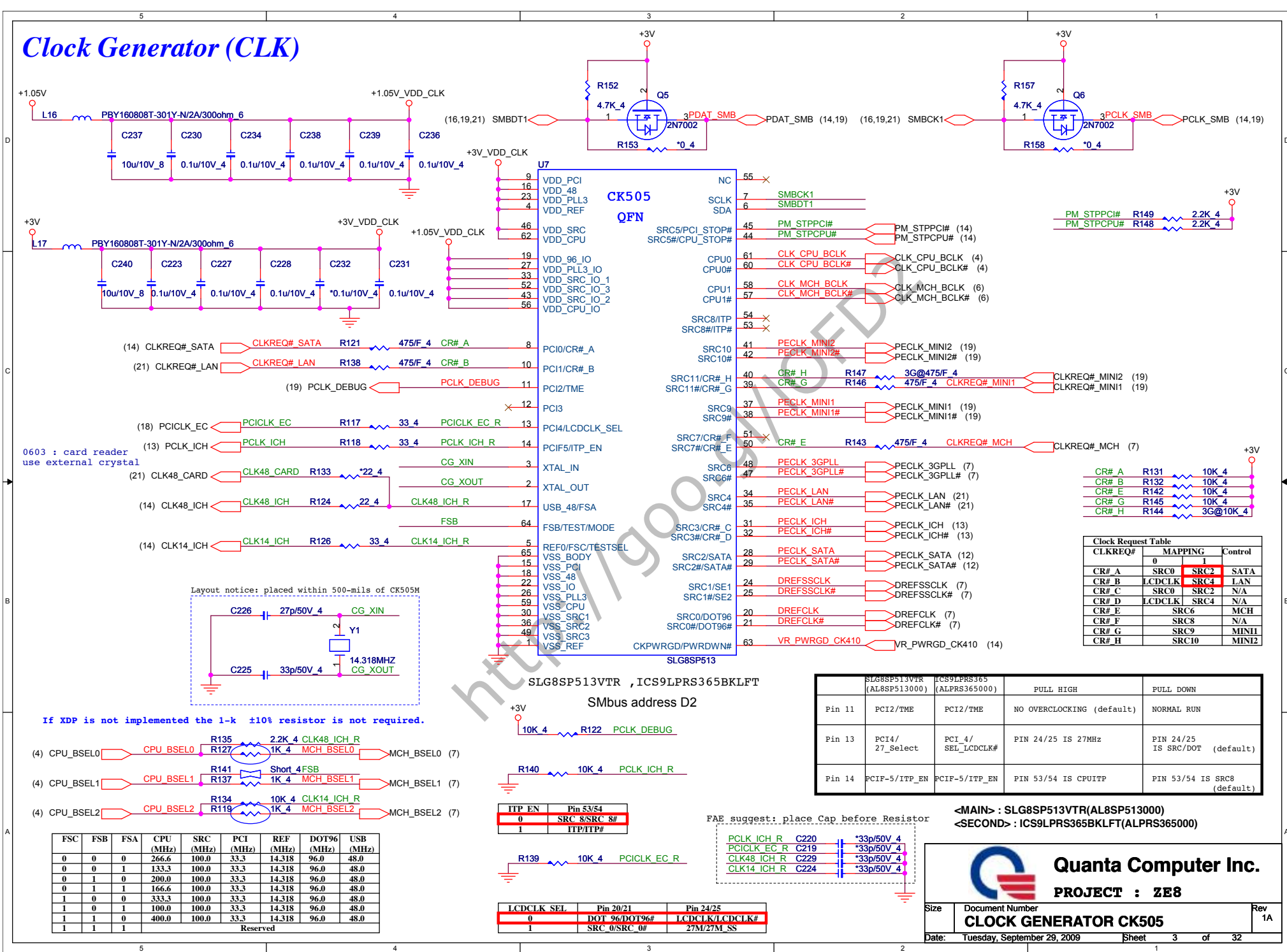
ICH9M SFF SMBUS Table

	CLK GEN	RAM	Mini Card (WLAN/WMAX)	Mini Card (3G)	G sensor
(SMB_DATA) / (SMB_CLK) (+3V_S5)	V	V	V	V	V
Power Plane	+3V	+3V	+3V	+3VSUS	+3V
MOS CKT	Stuff	Stuff	Stuff	Stuff	Stuff

EC SMBUS Table

	Battery	CPU thermal Sensor	EC EEPROM
EC775 SDATA1/SCLK1 (+3VPCU)	V		
EC775 SDATA2/SCLK2 (+3V)		V	
EC775 SDATA3/SCLK3 (+3VPCU)			V
Power Plane	+3VPCU	+3V	+3VPCU
MOS CKT	X	X	X

Clock Generator (CLK)



Clock Request Table				
CLKREQ#	MAPPING		Control	
	0	1		
CR# A	SRC0	SRC2	SATA	
CR# B	LCDCCLK	SRC4	LAN	
CR# C	SRC0	SRC2	N/A	
CR# D	LCDCCLK	SRC4	N/A	
CR# E	SRC6		MCH	
CR# F	SRC8		N/A	
CR# G	SRC9		MINI1	
CR# H	SRC10		MINI2	

	SLG8SP513VTR (AL8SP513000)	ICS9LPRS365 (ALPRS365000)	PULL HIGH	PULL DOWN
Pin 11	PCI2/TME	PCI2/TME	NO OVERCLOCKING (default)	NORMAL RUN
Pin 13	PCI4/ 27_Select	PCI4/ SEL_LCDCCLK#	PIN 24/25 IS 27MHz	PIN 24/25 IS SRC/DOT (default)
Pin 14	PCIF-5/ITP_EN	PCIF-5/ITP_EN	PIN 53/54 IS CPUITP	PIN 53/54 IS SRC8 (default)

FSC	FSB	FSA	CPU (MHz)	SRC (MHz)	PCI (MHz)	REF (MHz)	DOT96 (MHz)	USB (MHz)
0	0	0	266.6	100.0	33.3	14.318	96.0	48.0
0	0	1	133.3	100.0	33.3	14.318	96.0	48.0
0	1	0	200.0	100.0	33.3	14.318	96.0	48.0
0	1	1	166.6	100.0	33.3	14.318	96.0	48.0
1	0	0	333.3	100.0	33.3	14.318	96.0	48.0
1	0	1	100.0	100.0	33.3	14.318	96.0	48.0
1	1	0	400.0	100.0	33.3	14.318	96.0	48.0
1	1	1						

ITP EN	Pin 53/54
0	SRC 8/SRC 8#
1	ITP/ITP#

LCDCCLK SEL	Pin 20/21	Pin 24/25
0	DOT 96/DOT96#	LCDCCLK/LCDCCLK#
1	SRC 0/SRC 0#	27M/27M SS

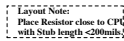
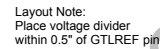
<MAIN> : SLG8SP513VTR(AL8SP513000)
<SECOND> : ICS9LPRS365BKLT(ALPRS365000)

PROJECT : ZE8

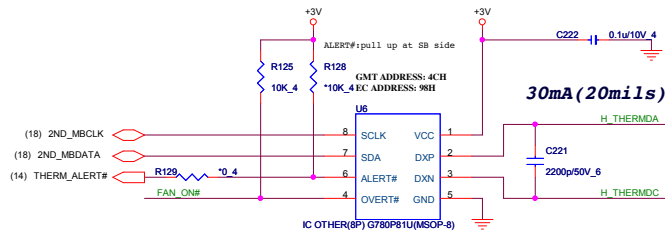
Size	Document Number	Rev
	CLOCK GENERATOR CK505	1A

Date: Tuesday, September 29, 2009	Sheet 3 of 32
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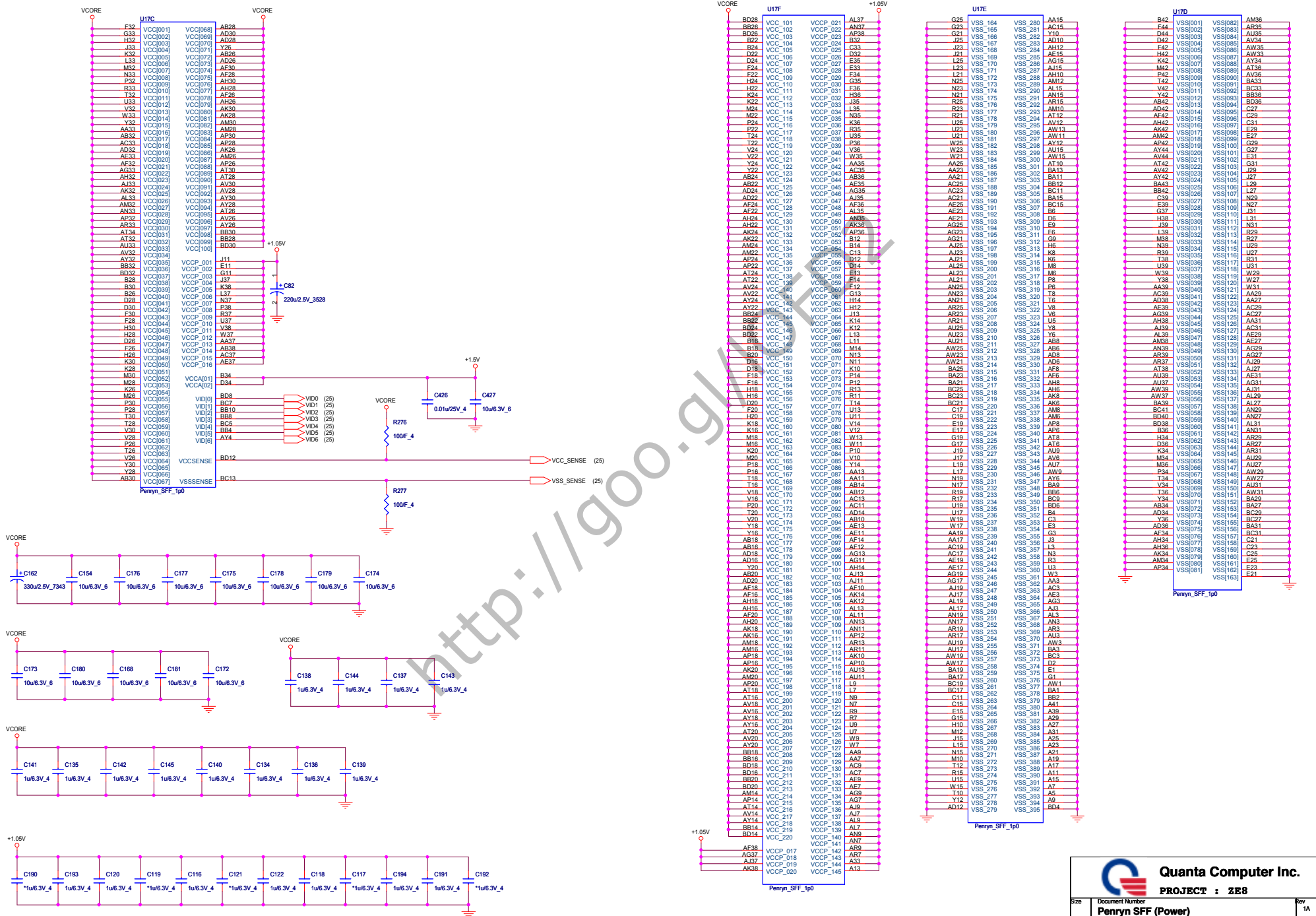
Celeron 743	AJSLGEVVT03
SU2300	AJSLGYNVT03
SU4100	AJSLGS4VT03
SU7300	AJSLGYVVT06



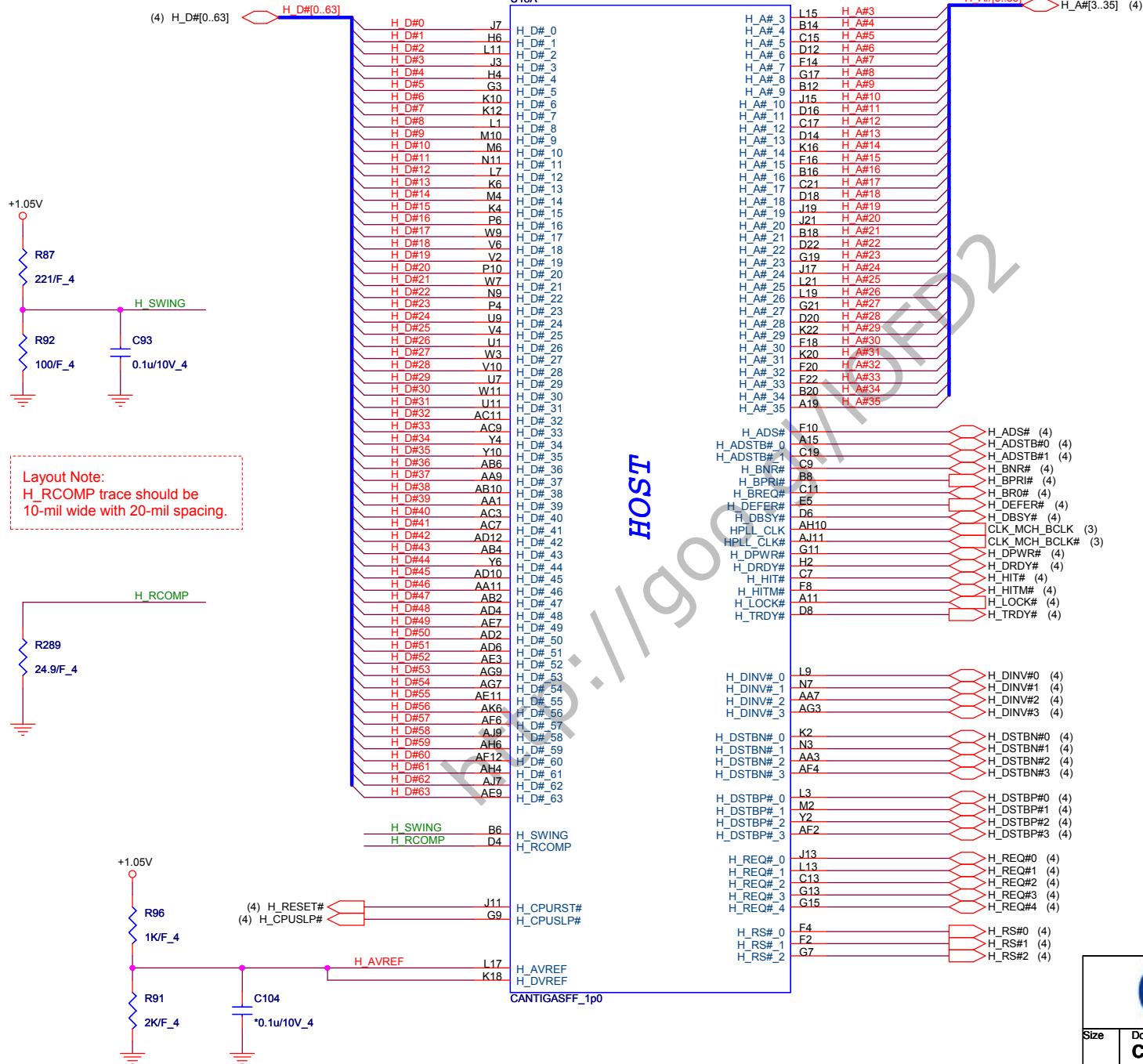
CPU Thermal Monitor(THM)



Penryn SFF - Power (CPU)



Cantiga SFF - Host Bus (CLG)



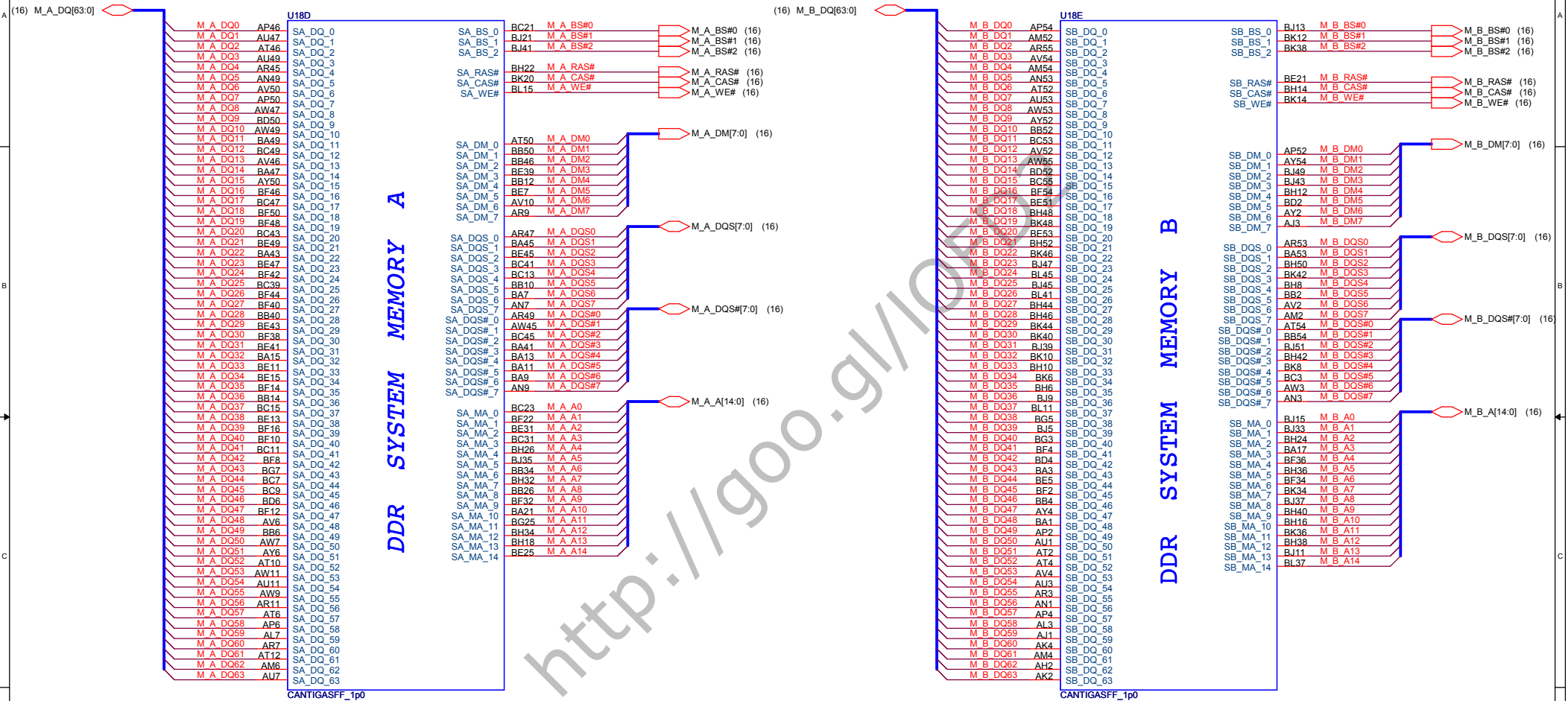
HOST



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PROJECT : ZE8

Size	Document Number	Rev
	Cantiga SFF (Host Bus)	1A
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Cantiga SFF - DDRII (CLG)



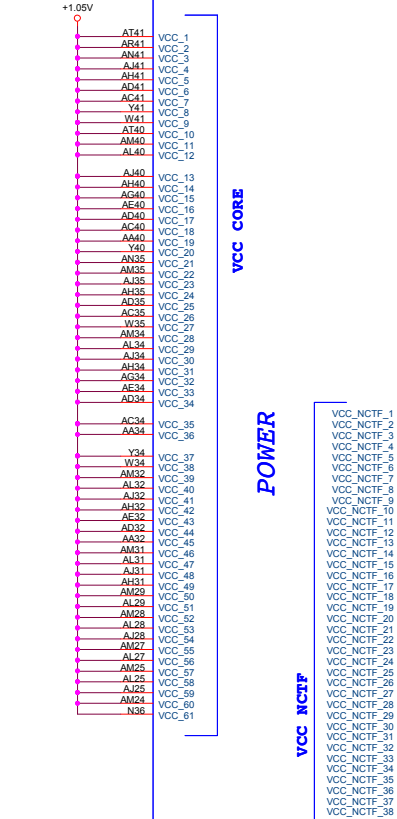
Cantiga SFF - VCC/NCTF (CLG)

Ivcc internal VGA 2.4A
(Shape or 140mils)

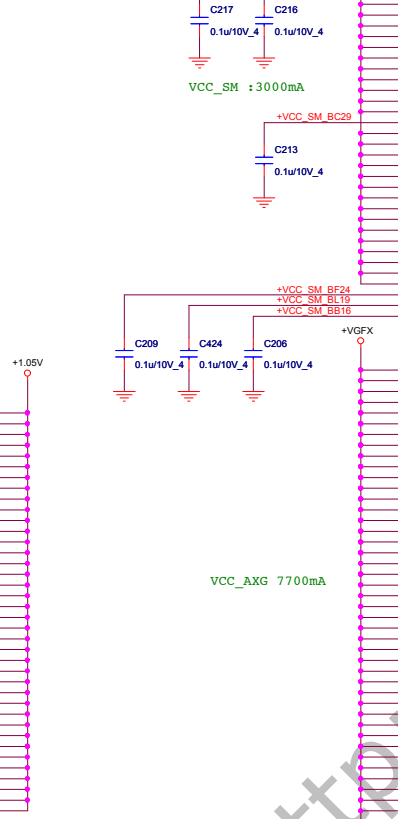
VCC_SM(+1.5V_SUS)
DDR3(800M) : 3162.5mA
DDR3(1067M) : 4140mA

UMA 9.6A(GM45)
(Plane or shape)

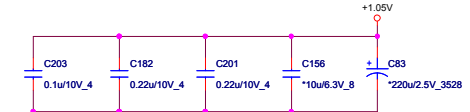
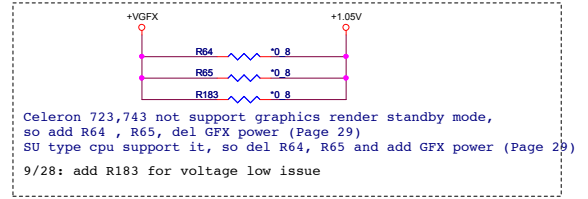
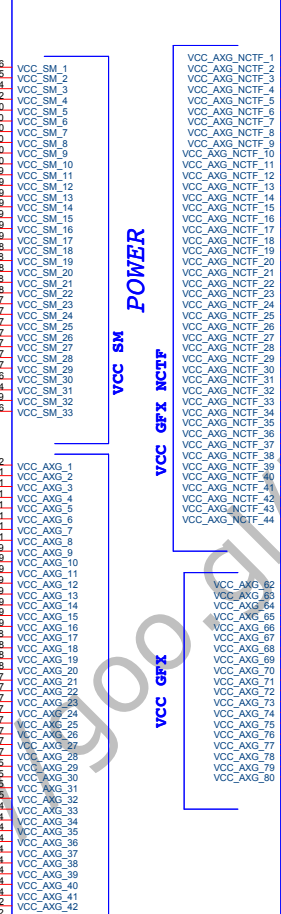
VCC 2200mA



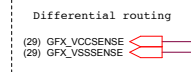
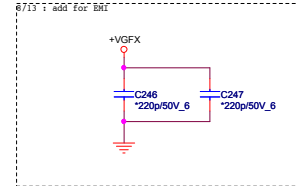
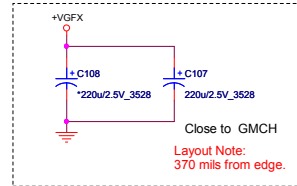
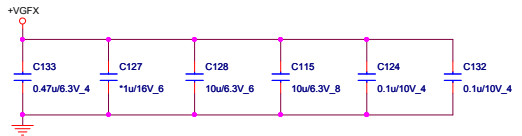
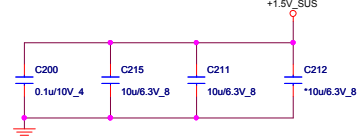
VCC 2200mA



UMA 9.6A(GM45)
(Plane or shape)

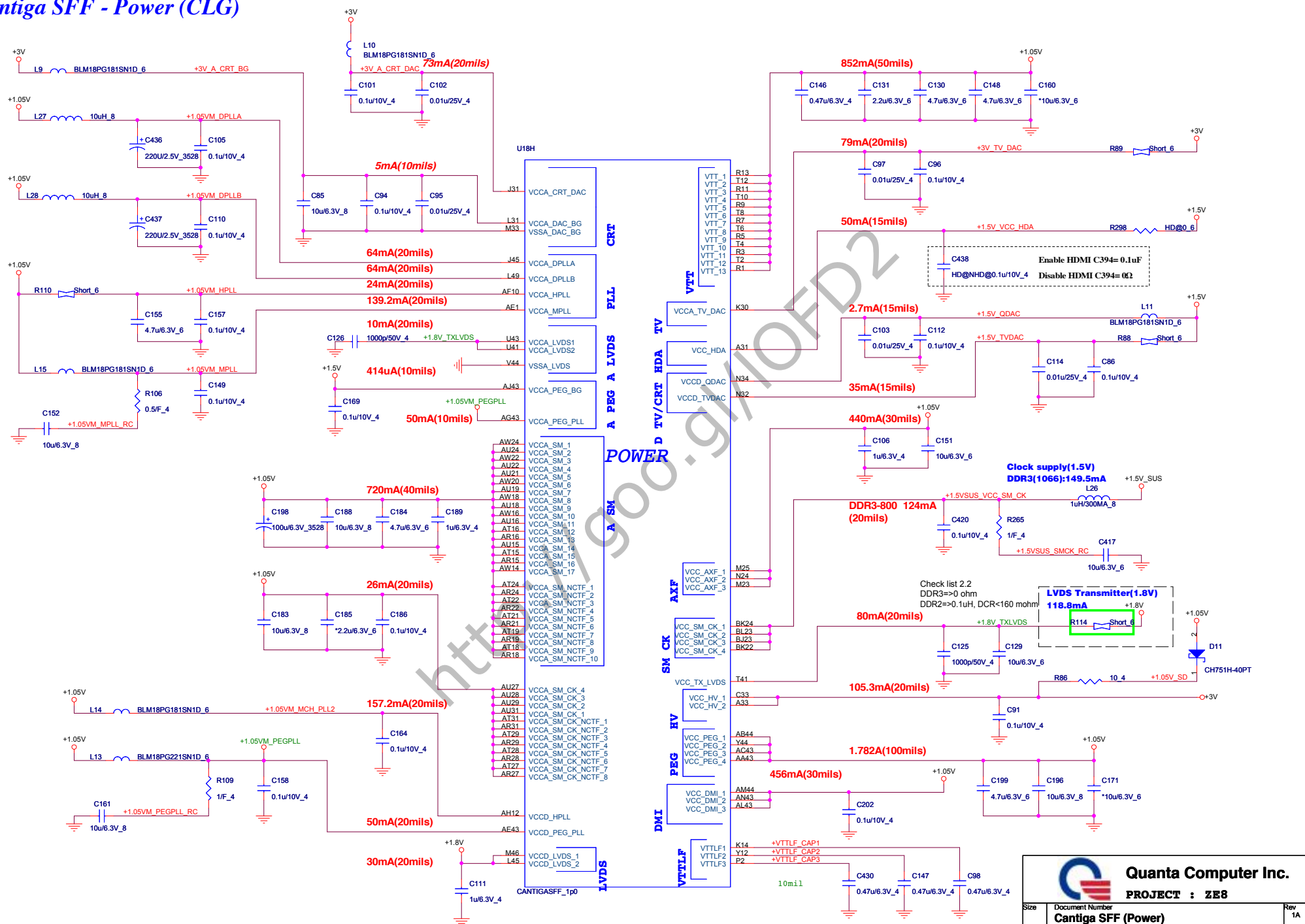


Layout Note:
Inside GMCH cavity.

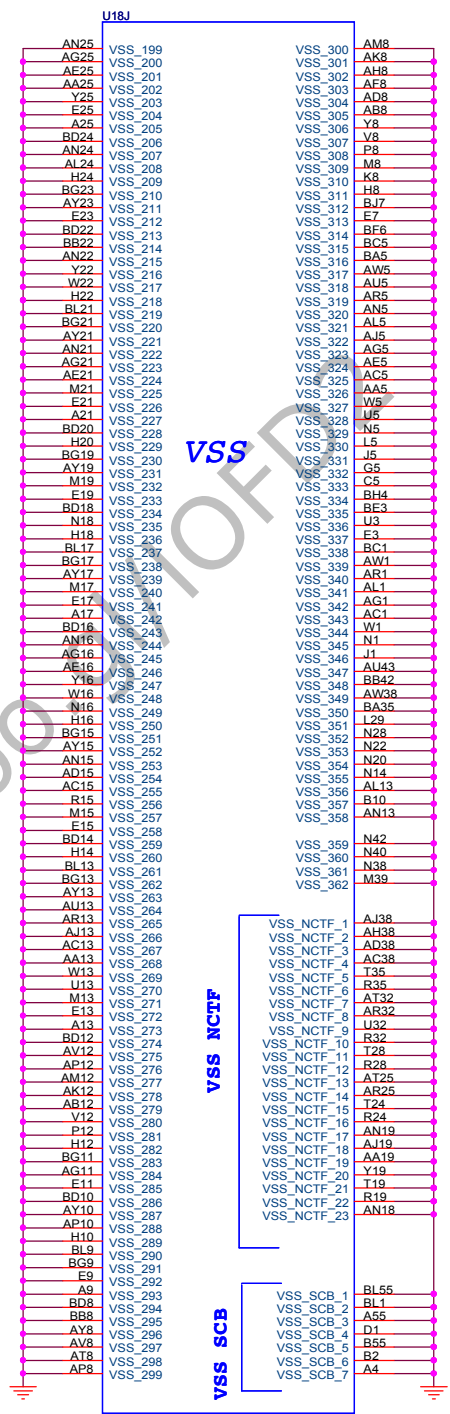
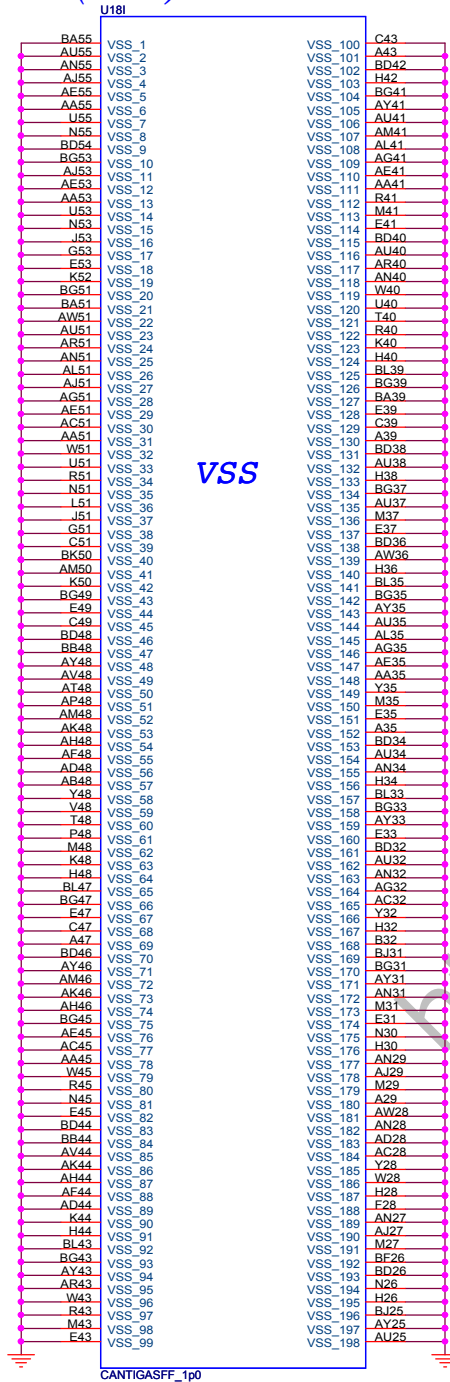


1. Route VCC_AxG_SENSE and VSS_AxG_SENSE differentially
2. VCC_AxG_SENSE PU to +VGFx_CORE_INT with 10ohm and VSS_AxG_SENSE PD with 10ohm for Intel suggest

Cantiga SFF - Power (CLG)



Cantiga SFF - GND (CLG)

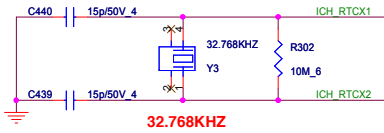


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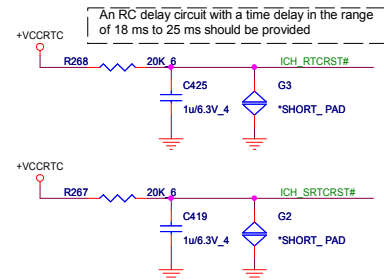
PROJECT : ZE8

Size	Document Number	Rev
	Cantiga SFF (GND)	1A
Date:	Tuesday, September 29, 2009	Sheet 11 of 32

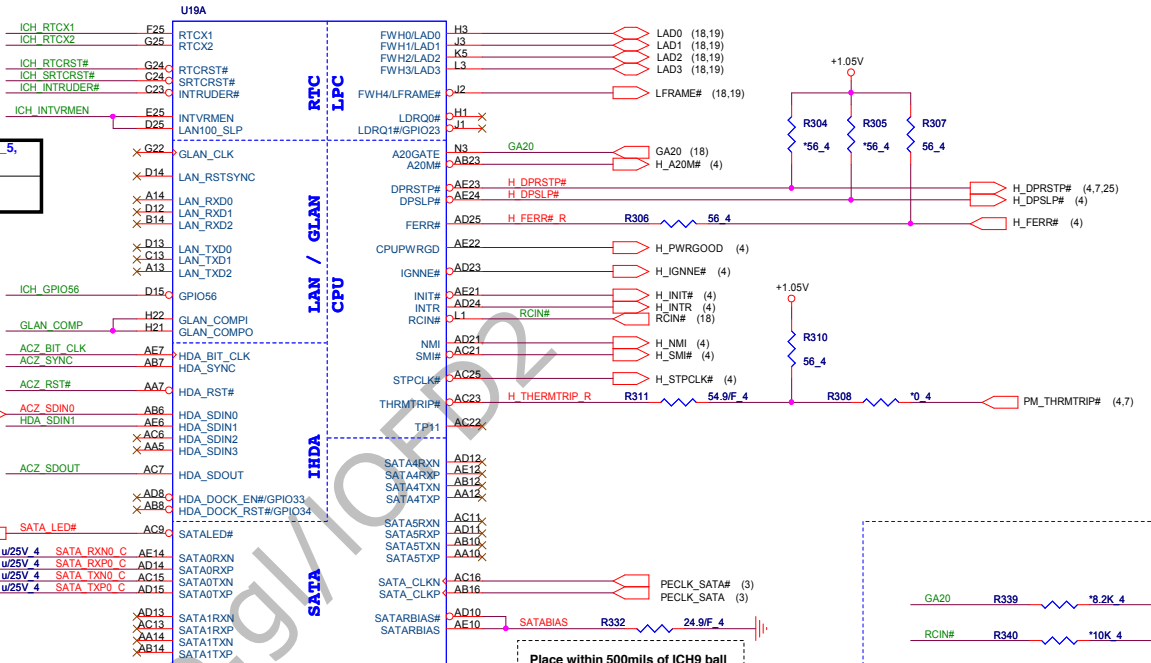
RTC CRYSTAL



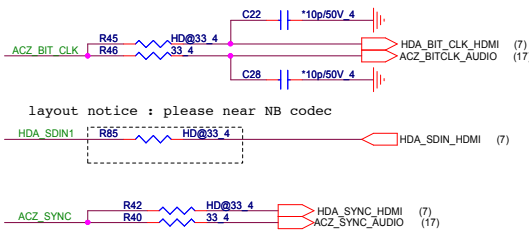
RESET JUMP



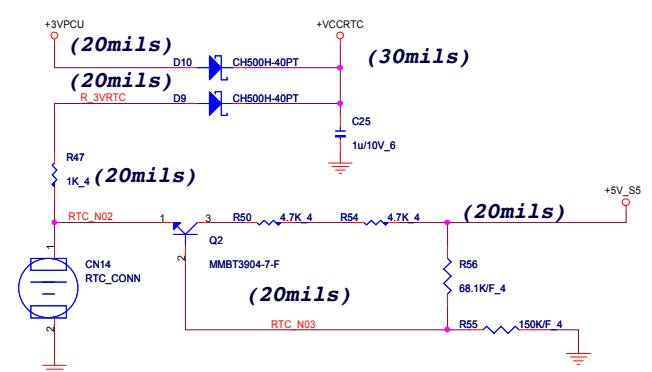
ICH9M SFF - Host,SATA,HDA (CLG)



HD Audio Interface



RTC BATTERY (RTC)

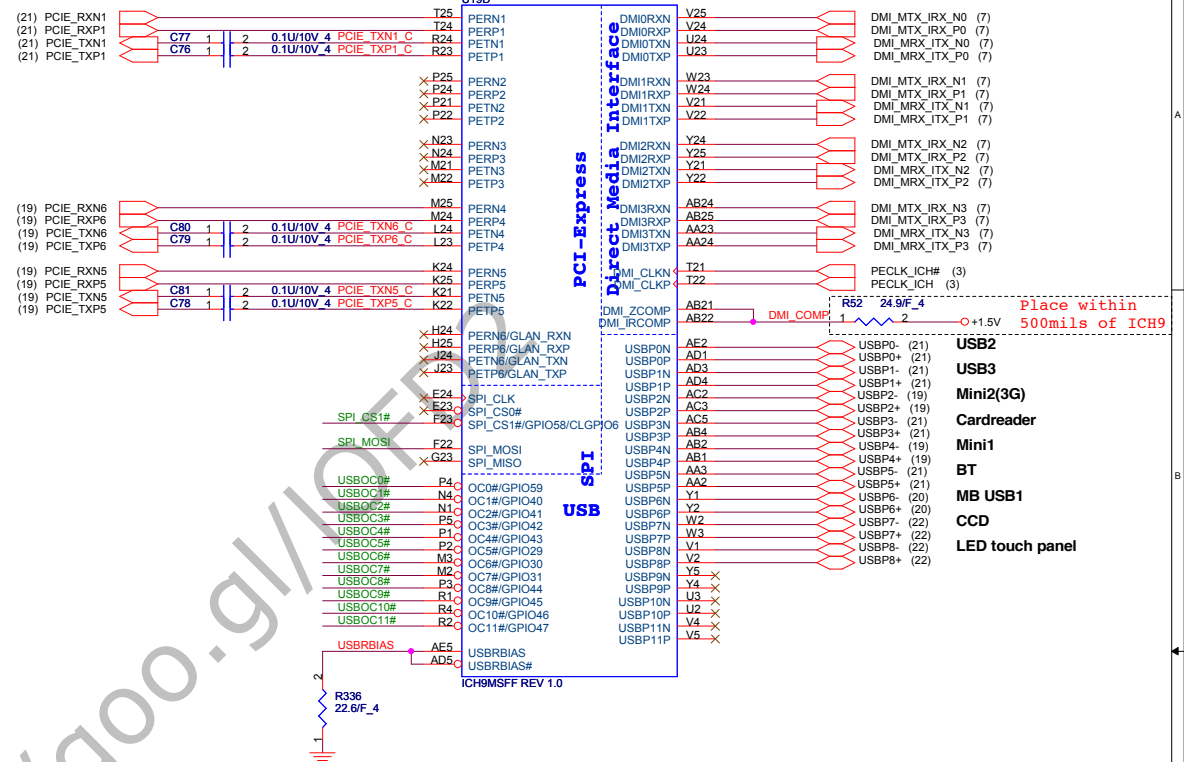
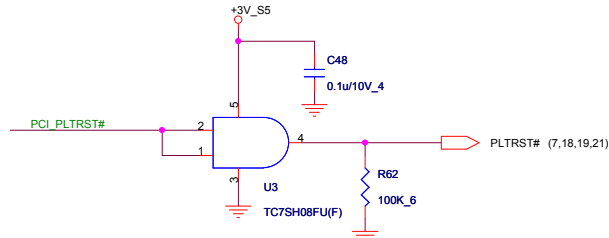
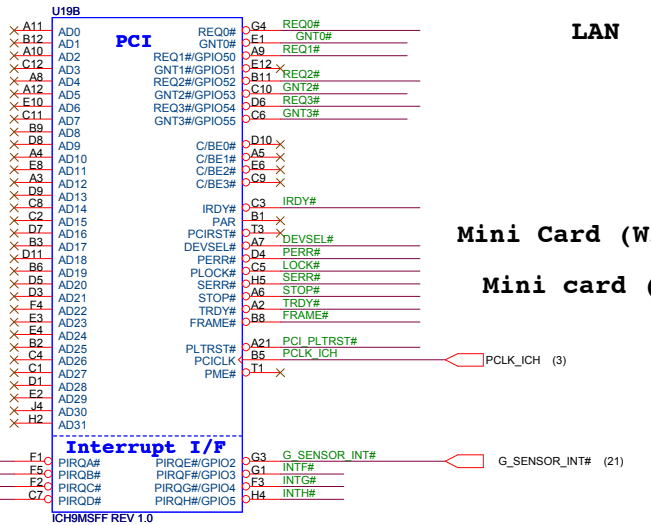


South Bridge Strap Pin (1/3)

Pin Name	Strap description	Sampled	Configuration	PU/PD
HDA_DOCK_EN/ GPIO33	Flash Descriptor Security Override Strap	PWROK	0 = The Flash Descriptor Security will be overridden. 1 = The security measures defined in the Flash Descriptor will be in effect	This strap should only be enabled in manufacturing environments using an external pull-up resistor.
SATALED#	PCI Express Lane Reversal (Lanes 1-4)	PWROK	Internal PU	
	XOR Chain Entrance	PWROK	ICH_TP3	
			0	0
			0	1
			1	0
			1	1
HDA_SDOUT	XOR Chain Entrance /PCI Express* Port Config 1 bit 1(Port 1-4)	PWROK		

ICH9M SFF - USB/PCIE/DMI (CLG)

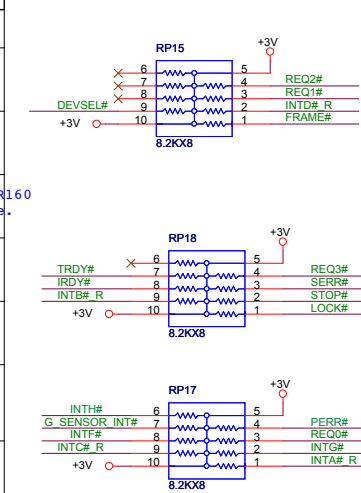
Place TX DC blocking caps close ICH9.



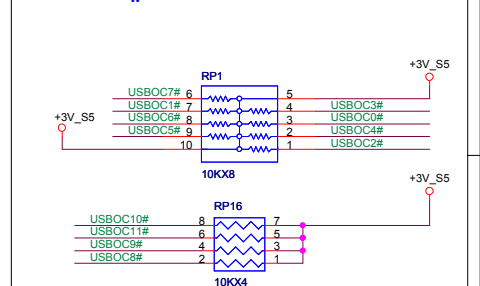
South Bridge Strap Pin (2/3)

Pin Name	Strap description	Sampled	Configuration			PU/PD
HDA_SYNC	PCI Express Port Config 1 bit 0 (Port 1-4)	PWROK	0 = Default 1 = Setting bit 0			
GNT2# / GPIO53	PCI Express Port Config 2 bit 2 (Port 5-6)	PWROK	0 = Setting bit 2 1 = Default			
GNT1# / GPIO51	ESI Strap(Server Only)	PWROK	0 = DMI for ESI-compatible 1 = Default			8/28 : add pull high resistor P in GNT3# pin for no video issue
GNT3# / GPIO55	Top-Block Swap Override	PWROK	0 = "top-block swap" mode 1 = Default			
SPI_MOSI	Integrated TPM Enable	CLPWROK	0 = INT TPM disable(Default) 1 = INT TPM enable			
GNT0#	Boot BIOS Selection 0	PWROK	PCI_GNT#0	SPI_CS#1	Boot Location	
			0	1	SPI(Default)	
SPI_CS1# / GPIO58 / CLGPIO6	Boot BIOS Selection 1	CLPWROK	1	0	PCI	

PCI PULL-UP



USBOC# PULL-UP



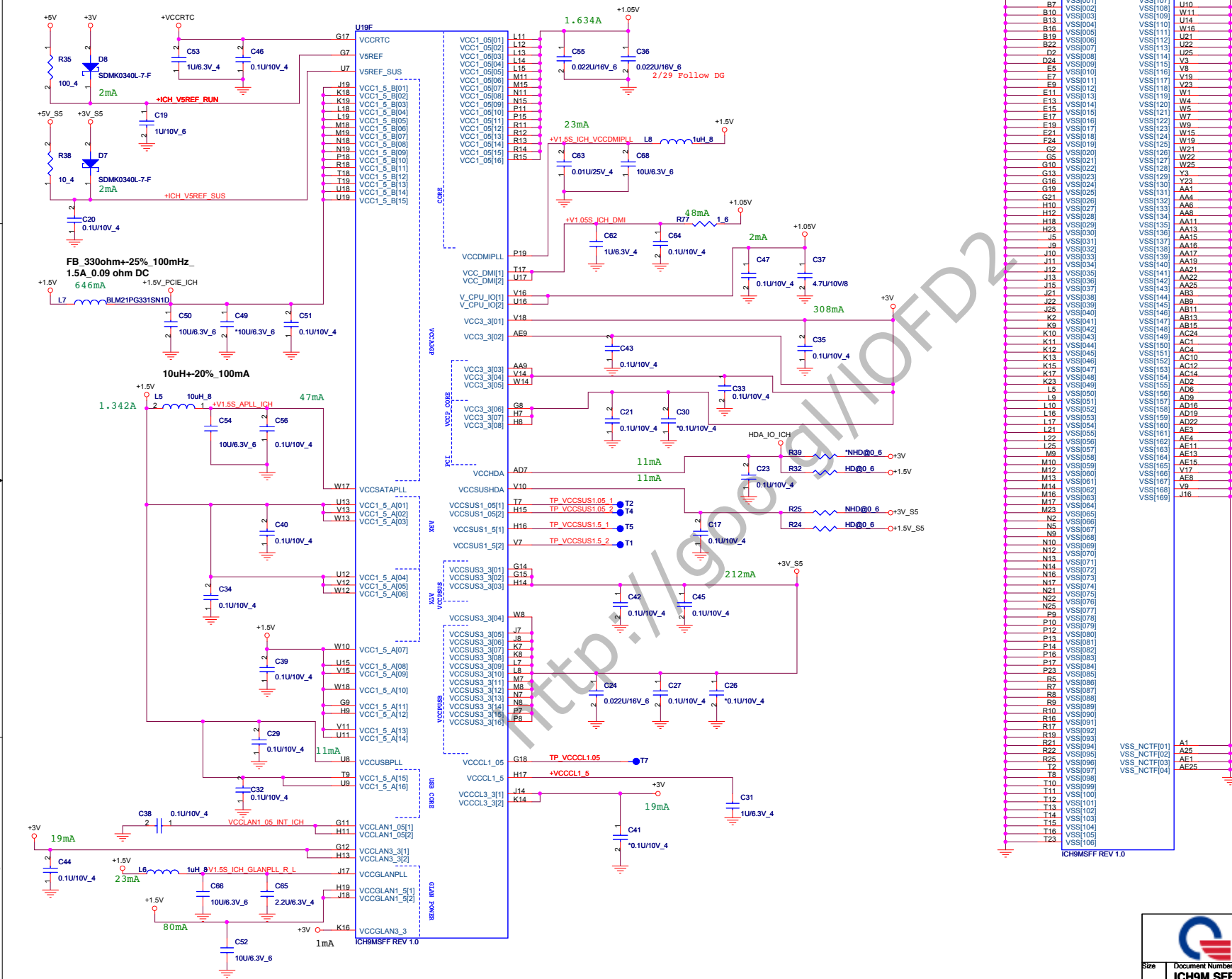
Quanta Computer Inc.

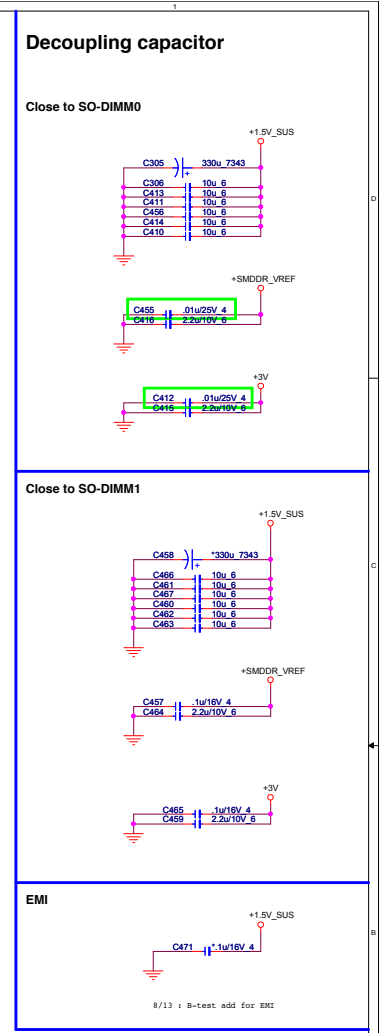
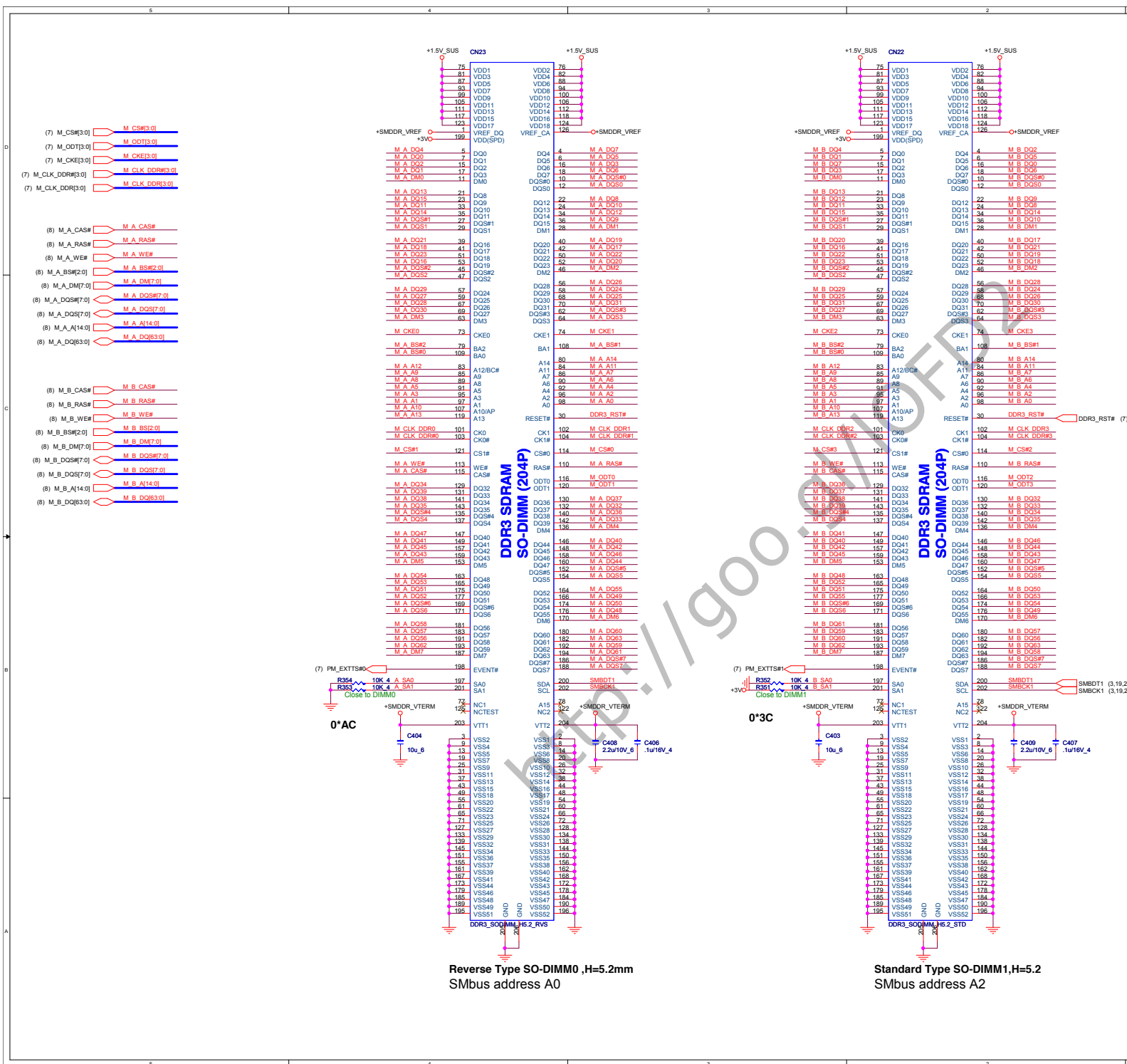
PROJECT : ZE8

Size: Document Number: ICH9M SFF (USB/PCIE/DMI) Rev: 1A

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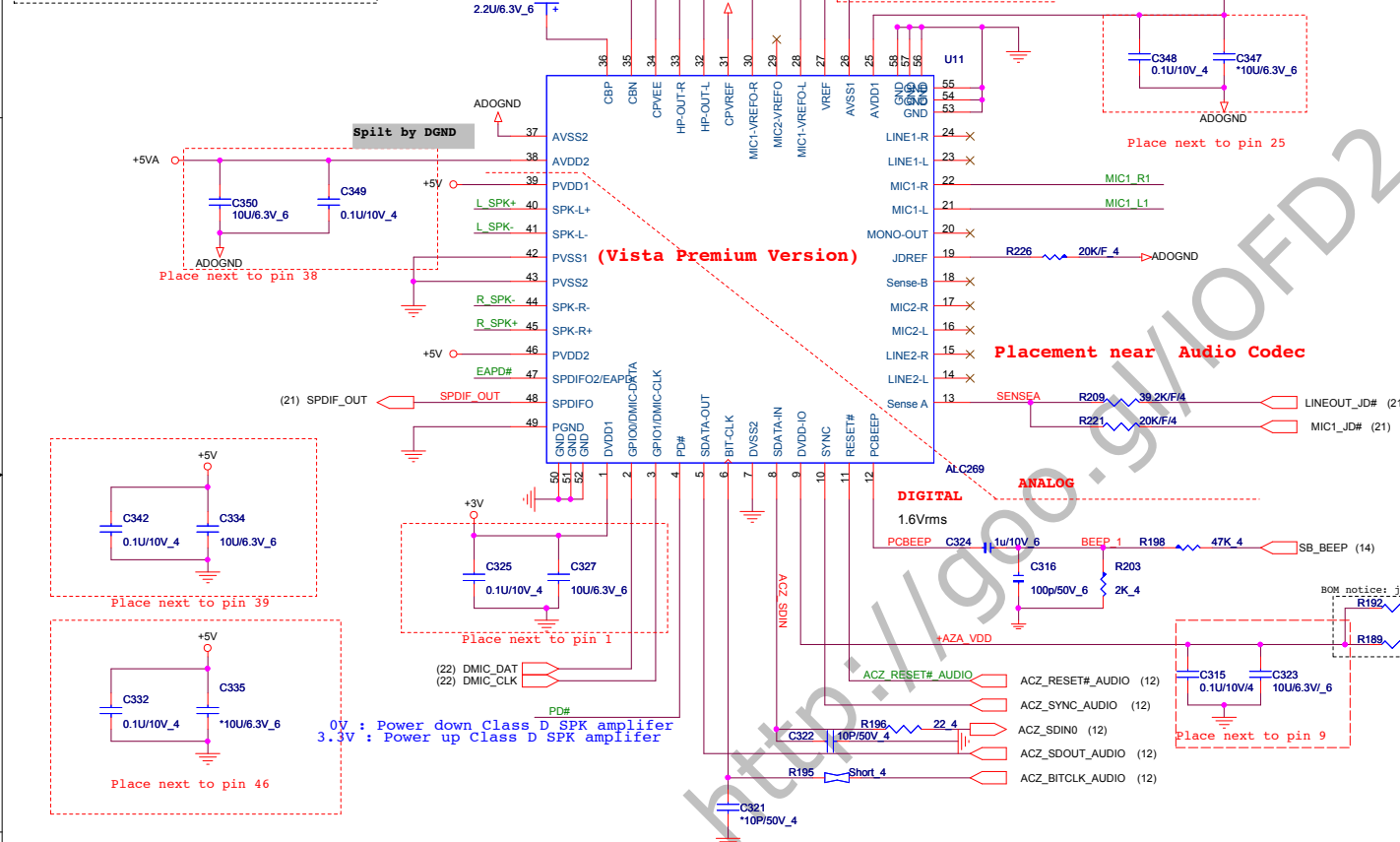
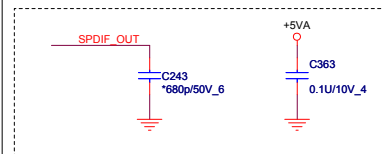
ICH9M SFF - Power/GND (CLG)



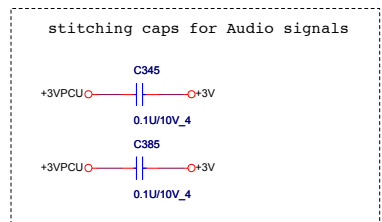
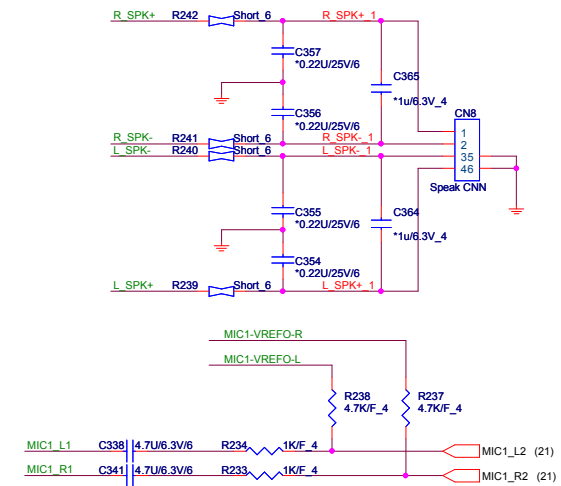


Codec ALC269X (ADO)

B-test 8/11: for EMI



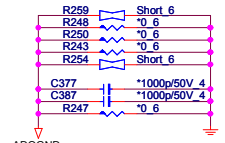
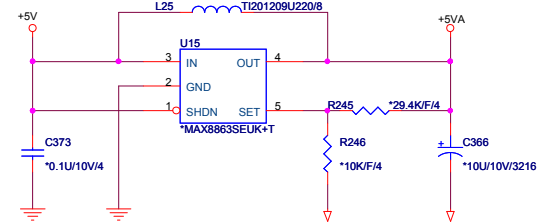
Speaker (AMP)



Power (ADO)

Demodulation Filter

Place close to Codec



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PROJECT : ZE8

[illegible]

Schematic diagram of the SPI interface between the W25X16 and the +3VPCU. The W25X16 chip is shown with pins 14 (SO), 15 (SI), 16 (SCK), and 17 (CE) connected to the +3VPCU. The +3VPCU is connected to the W25X16 via a 10K resistor (R229) and a 22 ohm resistor (R230). The W25X16 is also connected to a 0.1uF capacitor (C346) to ground. The W25X16 is labeled W25X16 and the +3VPCU is labeled +3VPCU.

SUSLED#-R	R180	10K	4
BATLED#	R254	10K	4
BATLED#	R206	10K	4
PWRLED#-R	R200	10K	4

Q16
"DTA114YUA"

3 1

PWVRLED# (Z1)

R201
Short_4

PWVRLED# R

Q9
"DTA114YUA"

3 1

SUSLED# (Z1)

R172
Short_4

D15 BAS316

(28) HWPG_+1.8V

D16 BAS316

(27) HWPG_1.05V

D14 BAS316

(7,26) HWPG_+1.5V_SUS

D17 BAS316

(24) HWPG_SYS

D19 BAS316

(28) HWPG_-1.5VS5

D20 SU3500BAS316

(28) HWPG_GFX

R166

R173
Short_4

10K_4

MPWR0K

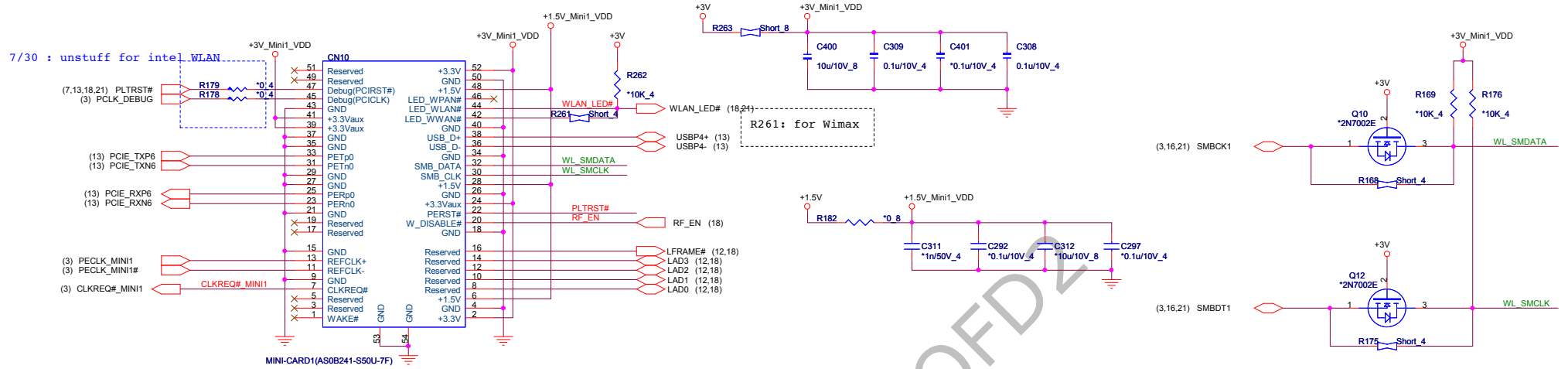
Celeron 723, 743 not support graphics render standby mode, so del D20
SU7300, SU2300, SU2700, SU4100 support it, so add D20

I/O Address		
BADDR1-0	Index	Data
0 0	XOR TREE TEST MODE	
0 1	CORE DEFINED	
1 0	2Eh	2Fh
1 1	164Eh	164Fh

SHBM=0: Enable shared memory with host BIO

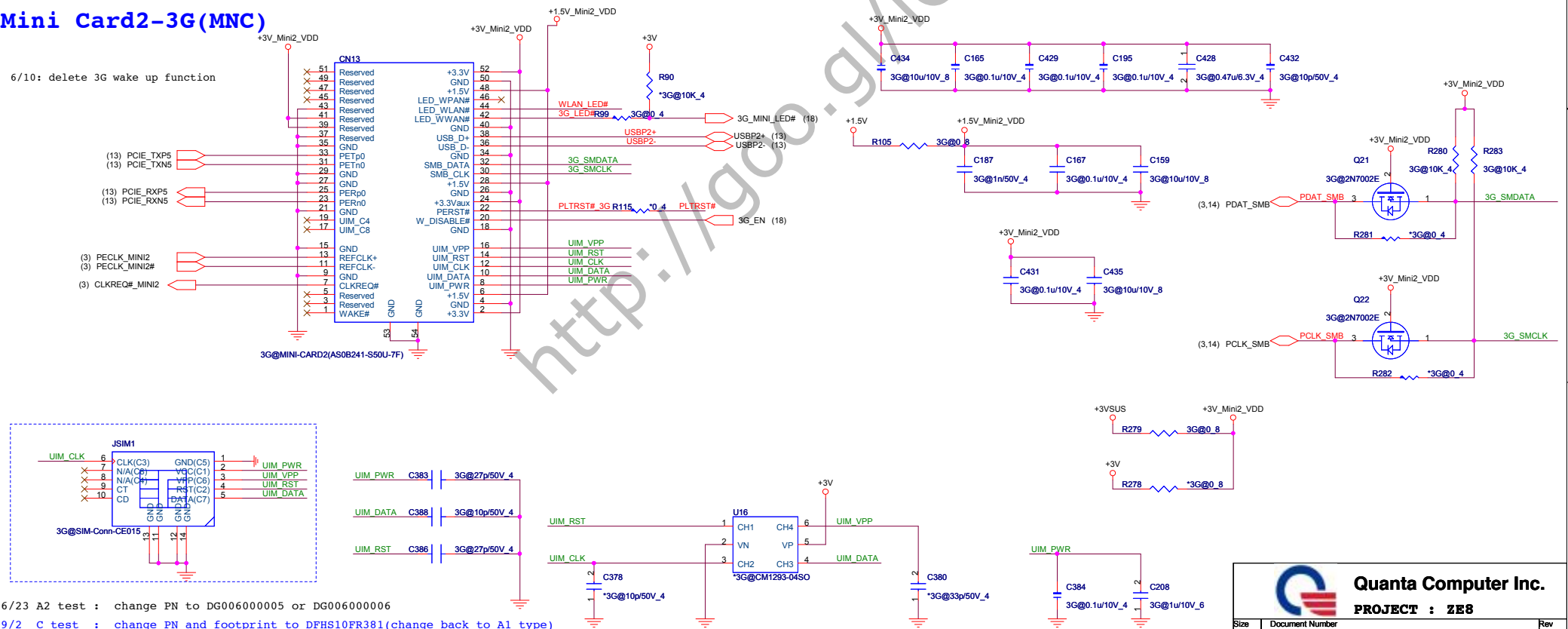
[illegible]

Mini Card1-WLAN/WMAX(MNC)



Mini Card2-3G(MNC)

6/10: delete 3G wake up function

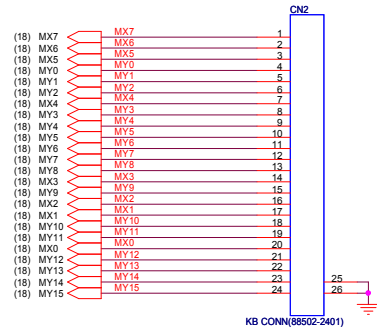


6/23 A2 test : change PN to DG006000005 or DG006000006

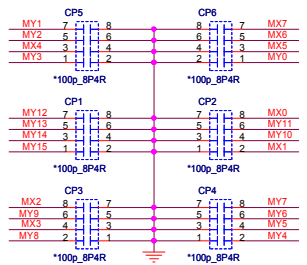
9/2 C test : change PN and footprint to DFHS10FR381(change back to A1 type)

Layout : C431 and C252 place near JSIM2

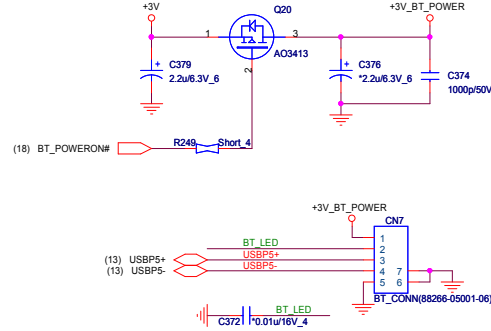
Keyboard(KBC)



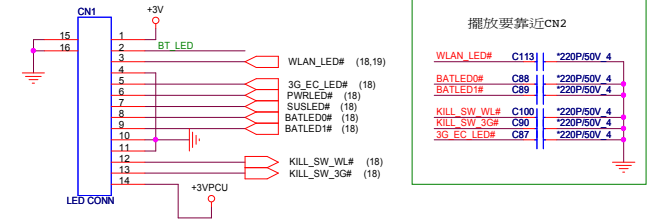
For EMI Reserve Caps for debug



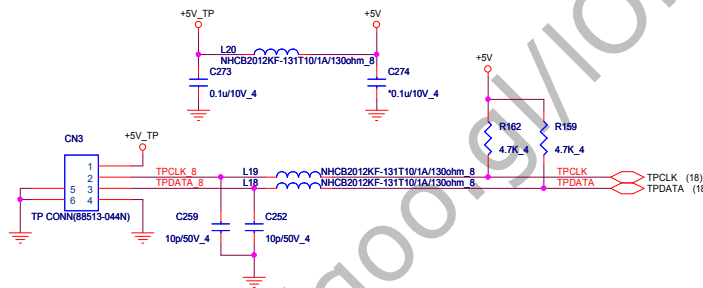
BuleTooth (BTM)



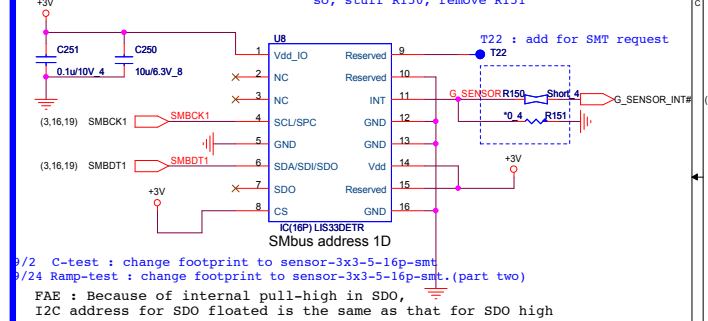
LED D/B (UIF)



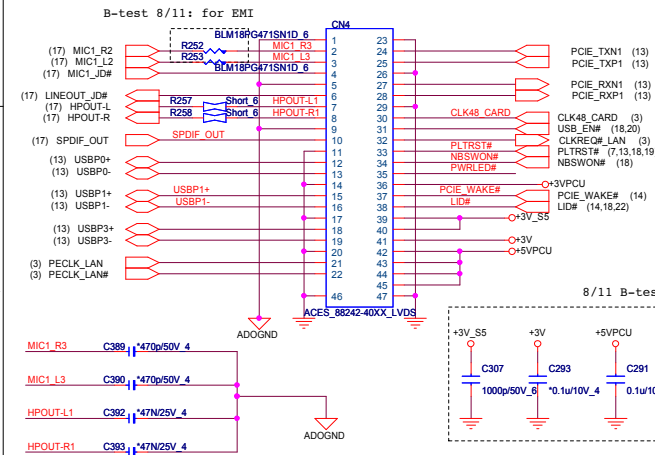
Touch Pad D/B (TPD)



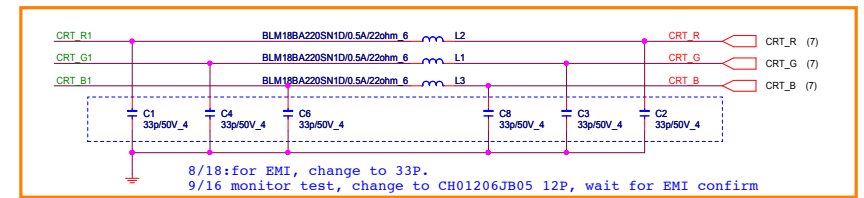
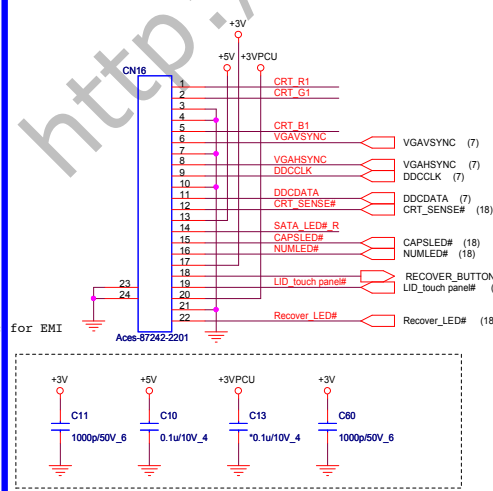
G SENSOR(GSR)



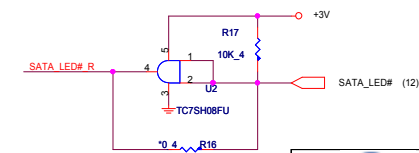
Card Reader/USB DB CONNECTER(MMC)/Power Connector



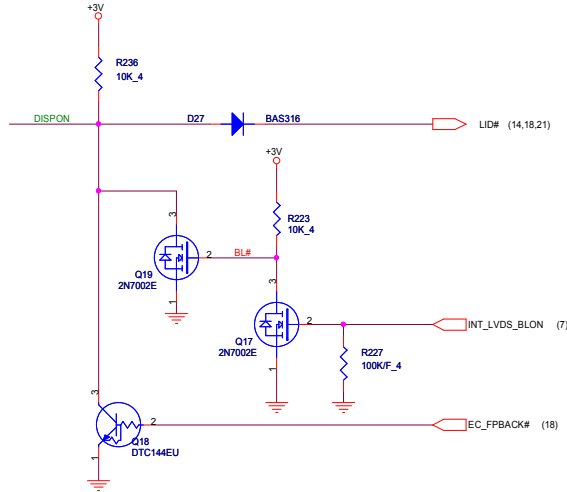
CRT D/B (CRT)



For EMI

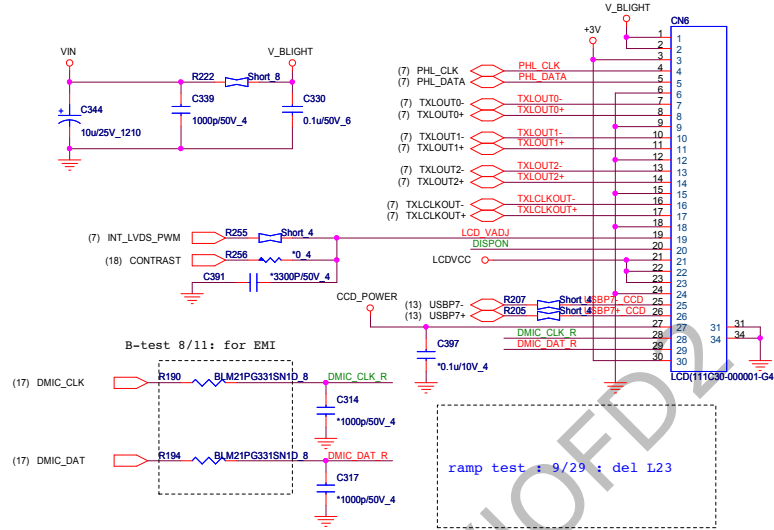


Backlight Control(LDS)

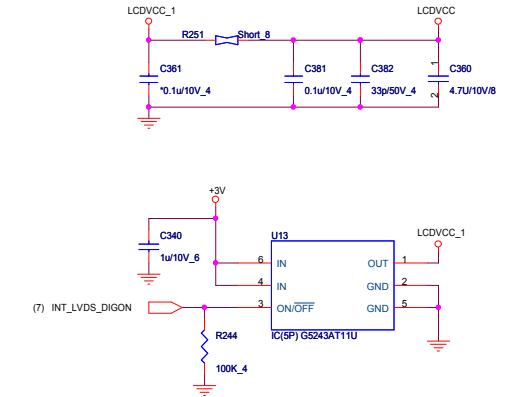


LED Panel(LDS)

C test: 8/31: exchange V_BLIGHT and LCDVCC pin define

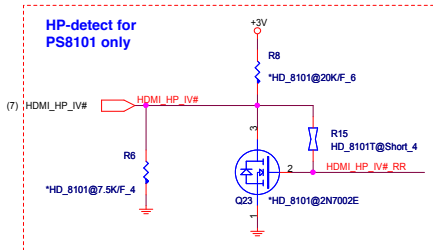


LED Panel POWER SWITCH(LDS)

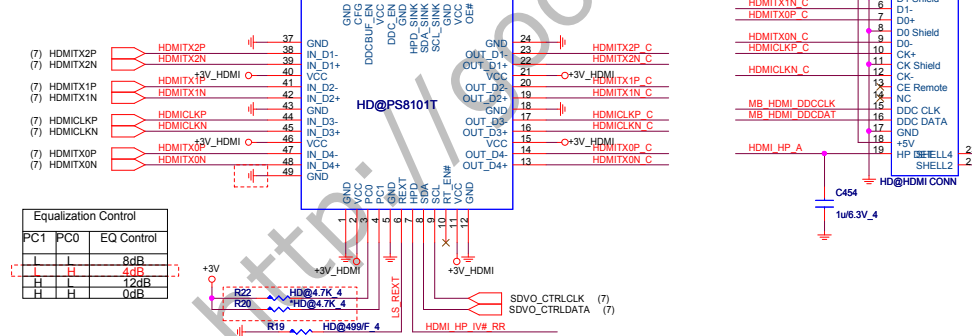


HDMI(HDM)

HDMI

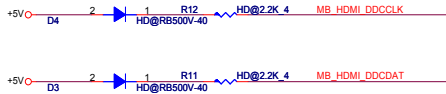


PS8101 : AL008101000
PS8101T : AL008101001---default

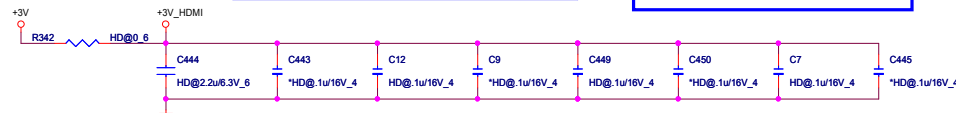


PC1	PC0	EQ Control
H	H	8dB
H	H	4dB
H	H	12dB
H	H	0dB

SDVO I2C Control



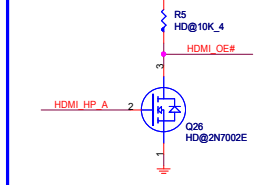
	PS8101 AL008101000	PS8101T AL008101001
pin 7	HPD	HPD#
pin 34	DDCBUF_EN	CFG0
pin 35	CFG	CFG1



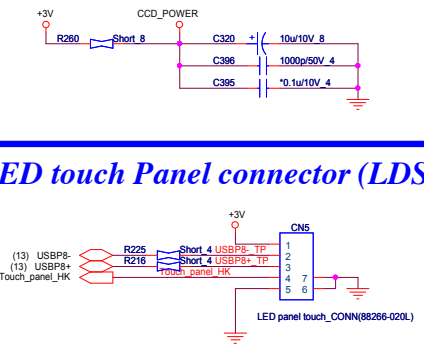
FOR EMI



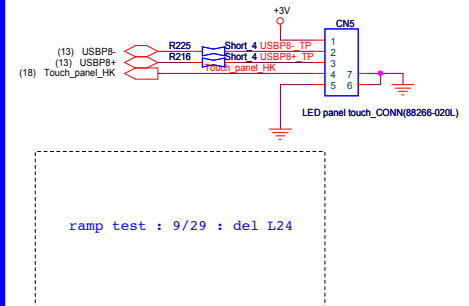
OE# control for power saving



Camera(CCD)

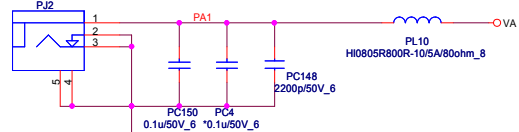


LED touch Panel connector (LDS)

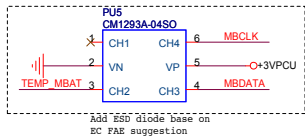


Charger(DCD)

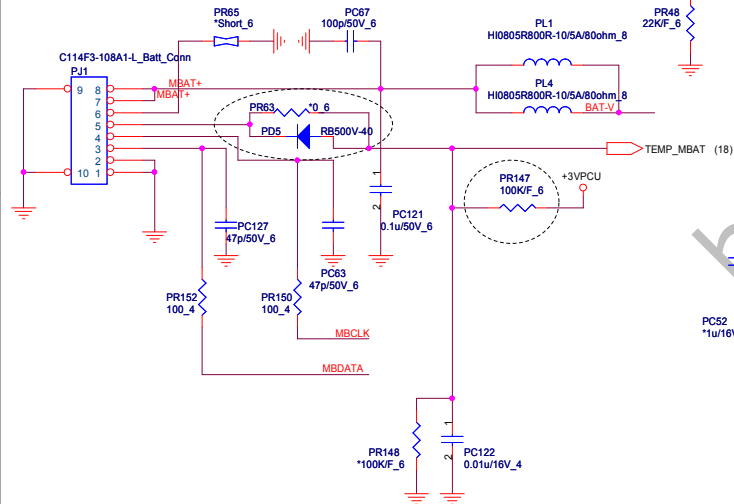
DC-IN JACK



POWER JACK
dgk-2dc3003-001211-5p



Add ESU diode base on
EC FAE suggestion



pull-up resistor should be
68ohm with +1.05V

modify PIN 27 PGDIN

modify PR194 for
higher OCP=17A

DCR=3m

Total capacitor : 440 uF
ESR : 4.5mΩ
f : 333k Hz
VCORE(Peak 18A,AVG 13.5A)

OVP 15A

ESR=9m

modify PR208

Load-line=-4mV/A
for CULV

pop PC167

add PC165

modify
PR200/PR203/PR198197

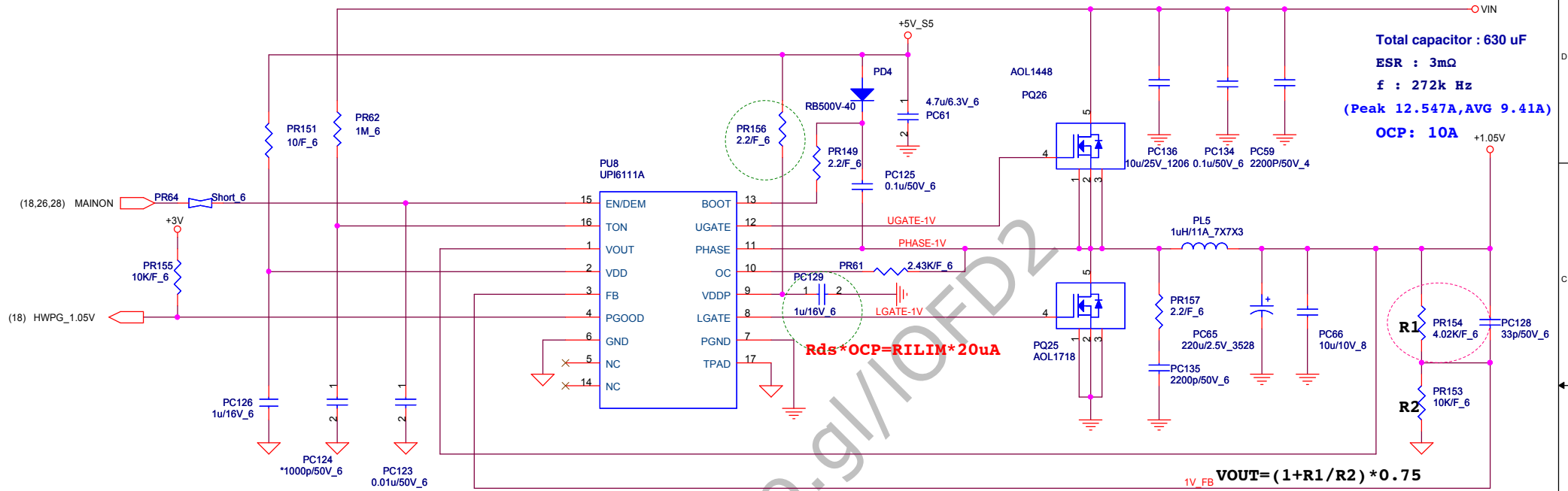
$t_{SW} = 16.3pF \times (R_{TON} + 6.5K)$
fsw=300KHz

VID 1.0V



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PROJECT : ZE8

Size	Document Number	Rev
	VCORE(IMAX8796GTJ+)	1A
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$$TON=3.85p*RTON*Vout/(Vin-0.5)$$

$$Frequency=Vout/(Vin*TON)$$

$$TON=3.85p*1M*1/(Vin-0.5)$$

$$Frequency=1/(0.0036767)=272K$$

AOL1718 Rdson=4.6mOhm

OCP=10-0.8A

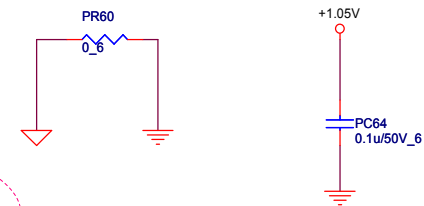
$$L(ripple\ current) = (19-1.05)*1.05/(1u*272k*19) \sim 3.646A$$

$$4.6m*10=RILIM*20uA$$

$$RILIM(PR61)=2.3K---2.43K$$

RAMP CHANGE

	743 CPU	Other CPU
PR154	4.22K (CS24223F917)	4.02K (CS24023F928)



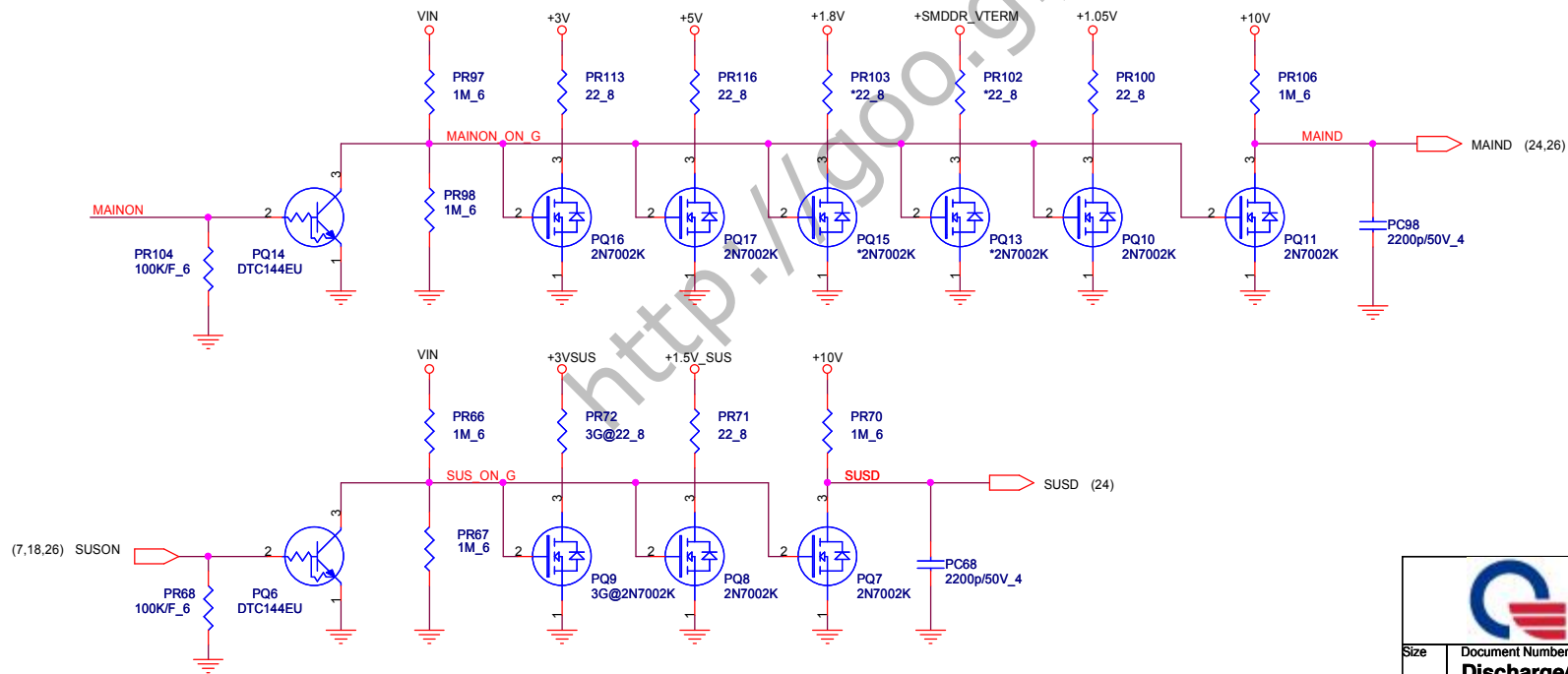
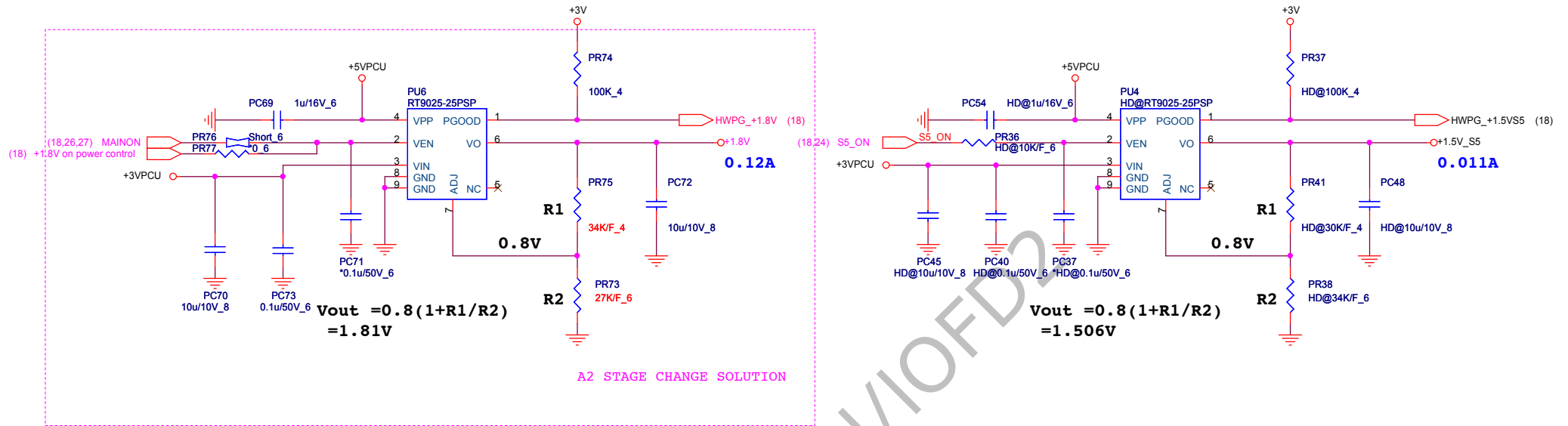
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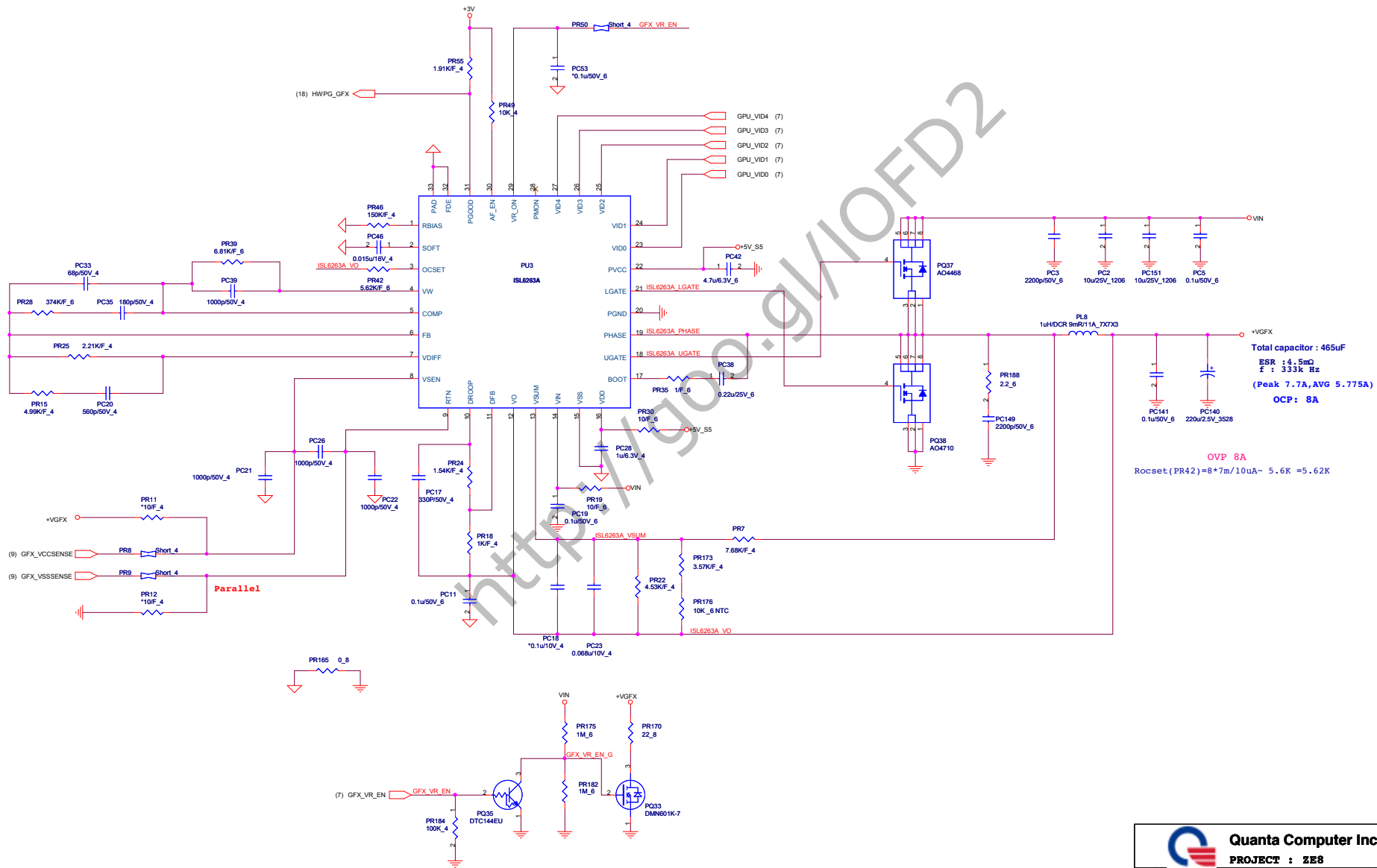
PROJECT : ZE8

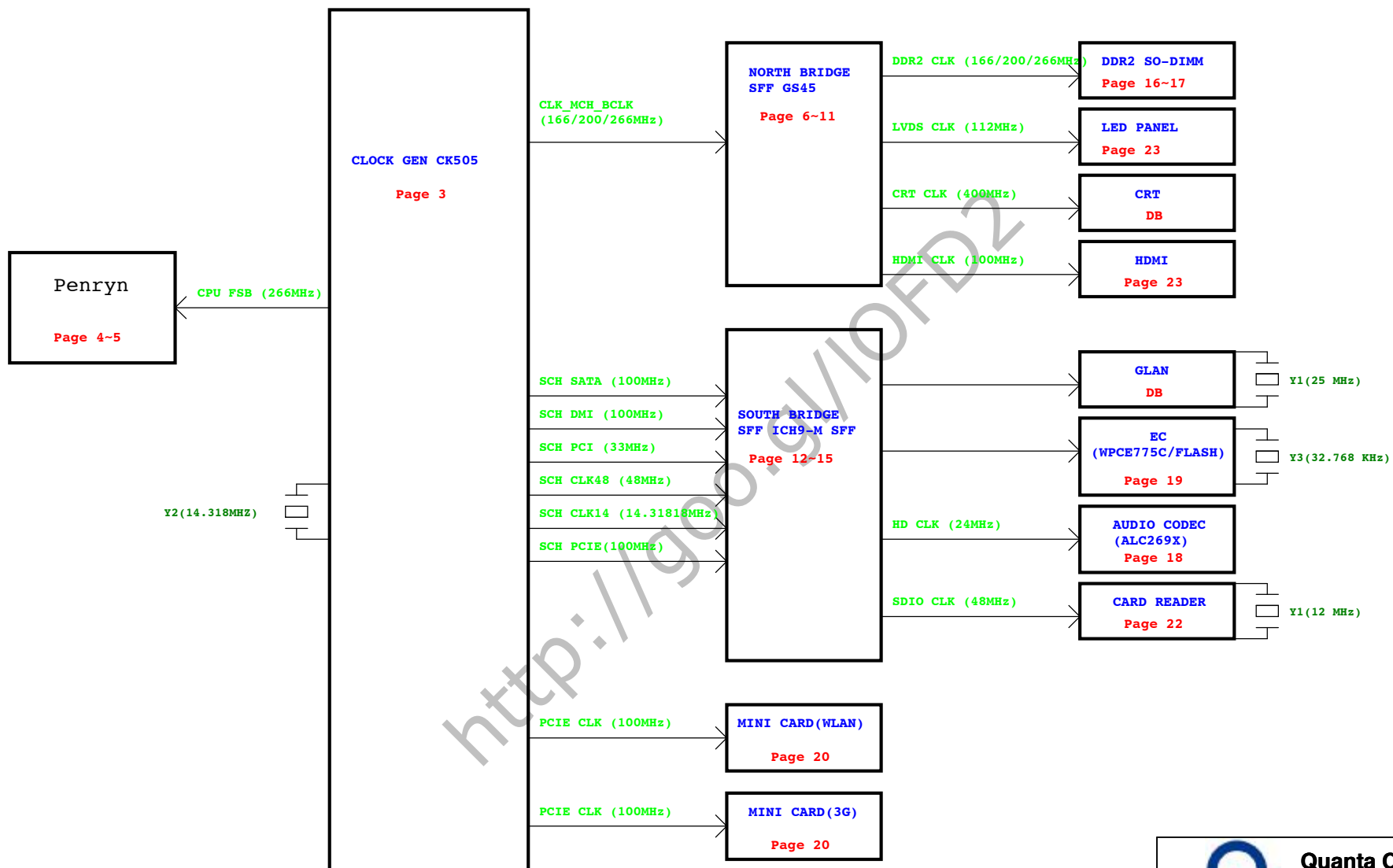
Size	Document Number	Rev
	VCCP 1.05V (RT8202A)	1A
Date:	Tuesday, September 29, 2009	Sheet 27 of 34

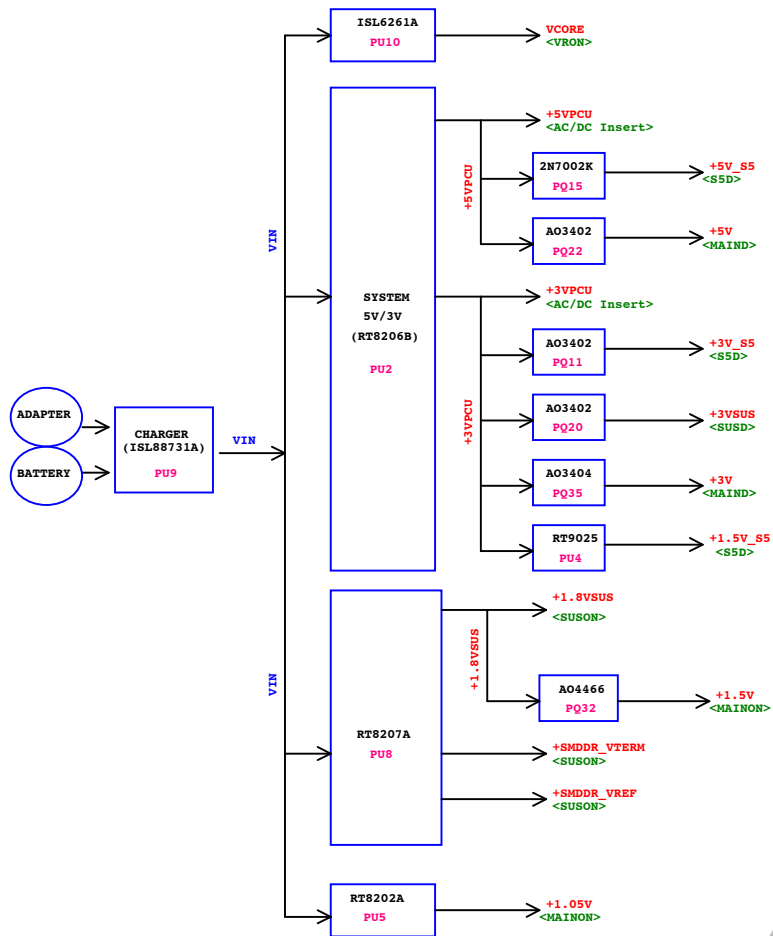
Discharger/1.8V(DCD)

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POWER	Distribution
Vcore	CPU
+5VPCU	RTC, USB Connector
+5V_S5	ICH9M Power
+5V	ICH9M Power, CRT, Audio Codec, SATA HDD, Touch Pad ,HDMI
+3VPCU	RTC, LED Power, CRT, EC, ID , SPI Flash , Green Adapter
+3V_S5	ICH9M Power, CR
+3VSUS	3G
+3V	CLK_GEN Power, Thermal Sensor Power, NB Power, SB, DDRII Power, Audio Codec, LCD Power, WLAN/WMAX, 3G, Card Reader, BT, EC, LED, CRT, CAMERA
+1.5V_S5	ICH9M Power
+1.8VSUS	NB Power, DDRII SO-DIMM
+1.5V	CPU, NB, SB, AUDIO Codec, WLAN/WMAX, 3G
+SMDDR_VTERM	DDRII SO-DIMM
+SMDDR_VREF	DDRII SO-DIMM
+1.05V	CLK_GEN, CPU, NB, SB

CK505 Clock Setting Table

Differential CPU Clock

Pin Name	Pin	Net Name	Description
CPU_0	61	CLK_CPU_BCLK	Differential CPU clock
CPU_0#	60	CLK_CPU_BCLK#	
CPU_1	58	CLK_MCH_BCLK	
CPU_1#	57	CLK_MCH_BCLK#	Differential NB GS45 clock

PCI Express Clock

Pin Name	Pin	Net Name	Description
SRC0/DOT96	20	DREFCLK	96MHz DOT clock for NB GS45
SRC0#/DOT96#	21	DREFCLK#	
LCDCLK/27M	24	DREFSSCLK	Clock output for NB GS45 graphic controller
LCDCLK#/27M_SS	25	DREFSSCLK#	
SRC2	28	PECLK_SATA	Differential Serial Reference Clock for SB ICH9M SATA
SRC2#	29	PECLK_SATA#	
SRC3/CR#_C	31	PECLK_ICH	Differential Serial Reference Clock for SB ICH9M
SRC3#/CR#_D	32	PECLK_ICH#	
SRC4	34	PECLK_LAN	Differential Serial Reference Clock for on board LAN
SRC4#	35	PECLK_LAN#	
SRC6	48	PECLK_MINI2	Differential Serial Reference Clock for Mini Card 2
SRC6#	47	PECLK_MINI2#	
SRC7/CR#_F	51		No use
SRC7#/CR#_E	50	CLKREQ#_MINI2	Clock Request for Mini Card 2 (SRC6)
SRC8/CPU_ITP	54		No use
SRC8#/CPU_ITP#	53		
SRC9	37	PECLK_MINI1	Differential Serial Reference Clock for MINI CARD 1
SRC9#	38	PECLK_MINI1#	
SRC10	41	PECLK_3GPLL	Differential Serial Reference Clock for NB GS45
SRC10#	42	PECLK_3GPLL#	
SRC11/CR#_H	40	CLKREQ#_MCH	Clock Request for NB GS45 (SRC10)
SRC11#/CR#_G	39	CLKREQ#_MINI1	Clock Request for Mini Card 1 (SRC9)

PCI Clock

Pin Name	Pin	Net Name	Description
PCI0/CR#_A	8	CLKREQ#_SATA	Clock Request for SATA (SRC2)
PCI1/CR#_B	10	CLKREQ#_LAN	Clock Request for on board LAN (SRC4)
PCI2	11	PCLK_DEBUG	PCI clock for debug card
PCI3	12		No use
PCI4	13	PCLK_EC	PCI clock for EC
PCI5	14	PCLK_ICH	PCI clock for SB ICH9M

Other Clock

Pin Name	Pin	Net Name	Description
USB_48	17	CLK48_ICH	48MHz for SB ICH9M
		CLK48_CARD	48MHz for USB Card Reader
REF	5	CLK14_ICH	14.318MHz for SB ICH9M

Clock Request Table

CLKREQ#	MAPPING		Control
	0	1	
CR#_A	SRC0	SRC2	SATA
CR#_B	LCDCLK	SRC4	LAN
CR#_C	SRC0	SRC2	N/A
CR#_D	LCDCLK	SRC4	N/A
CR#_E		SRC6	MINI2
CR#_F		SRC8	N/A
CR#_G		SRC9	MINI1
CR#_H		SRC10	MCH



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PROJECT : ZE8

Size	Document Number	Rev
	Schematic Setting	1A

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Model	REV	DATE	CHANGE LIST	NOTE
ZE8	A1A		PAGE23 :move LED touch Panel hall sensor to LAN DB PAGE20 : reserve R179 , R183 for 3G wake up function PAGE5 : Del C128,C173,C149,C171,C130,C131,C133,C169,C181,C177,C132,C175,C140,C138,C185,C154,C135,C92,C184,C106,C117,C156,C186,C153 for placing C386 in CPU BGA TOP side PAGE18 :change U14 footprint to qfn48-7x7-5-58p-0_9h PAGE23 :change CN18 PN to DFHD19MR053 PAGE23 :Add L28 and L29 for CCD and Touch screen USB signals PAGE23 :change CN18 footprint to hdmi-100042mr019m21h2r-19p-v PAGE23 :change CN19 footprint to 85204-0500x-5p-I PAGE23 :add 5V power trace to CN19 for touch screen IC PAGE19 :FAE suggest that add R352 for VCC latch up PAGE19 : FAE suggest that change C347 and C350 value from 15p to 6.8p PAGE10 : add stitching caps C149,C153 and C154 for DMI signals PAGE14 : add stitching caps C156,C169 and C171 for DMI signals PAGE20 : add C431 for SIM Card to filter power noise. PAGE20 : change U10 PN from AL001293003 to AL001293000 PAGE21 : reserve ESD protection U11 for SATA signals. PAGE23 : del +5V signal of CN19 PAGE18 : add stitching caps C432,C438 for Audio signals PAGE21 : del hole 19 PAGE22 : reserve C439, C440,C445,C446,C447,C448 for EMI PAGE23 : reserve C106 for EMI PAGE 19, 20 : del R179, R183 and 3G wake up signals of 3G wake up function PAGE19 : add D30 for WLAN_LED# connect from WALN connector to EC PAGE19 : add 3G_EC_LED# signal from EC to LED connector CN2 PAGE19 : change R233 to D31 for leakage issue. PAGE22 : del C426 due to don't need 3G_MINI_LED# singal from 3G connector to LED connector CN2 PAGE21 : add EMI bypass caps PAGE23 : HDMICKLP swap to HDMITX0P,HDMICKLN swap to HDMITX0N,HDMICKLP_C swap to HDMITX0P_C,HDMICKLN_C swap to HDMITX0N_C 6/13 : PAGE10 : change C63 and C208 value from 220u to 10u. 6/15 : PAGE18 : due to layout, add 9 GND pin for U14 6/15 : PAGE19 and 23 : add Touch_panel_HK signal for hot key on touch panel 6/16 : PAGE 23 : change R14 to C454 of CN18 for HDMI detect issue 6/18 : PAGE 23 : change CN5 PN to DFHD05MRD98 6/18 : PAGE 19 : change U14 PN to AKE38ZA0Q00	ECN Release
	B1A		6/22 : PAGE 21 : change CN17 PN to DFHS04FR269 6/22 : PAGE 24 : change PJ1 PN to DFHD08MR085 6/23 : PAGE 22 : Per Acer request, use interrupt pin of G-sensor to detect panel status ,so , stuff R150, remove R151 6/25 : PAGE 19 : EC add +1.5V on power control net name to control 1.5V 6/25 : PAGE 22 : connect G-sensor interrupt signal to SB_PIRQE# 6/26 : PAGE 26 : change V-core solution to Maxim IC 6/26 : PAGE 24 : add PD20 in TEMP_MBAT signal 6/29 : PAGE 9 : change C212 from 330U to 10U for placement issue 6/30 : PAGE 16 : change DDR2 to DDR3 7/2 : PAGE 14 : LID_touch panel# change from GPIO19 to GPIO7 (SCI) 7/2 : PAGE 16 : change DDR3 connector footprint to H=5.2mm 7/6 : PAGE 18,21 : add RECOVER_BUTTON# signal in EC and CRT DB 7/7 : PAGE 18,21 : add RECOVER_LED# signal in EC and CRT DB 7/7 : PAGE 24 : add PD11 and PD12 7/7 : PAGE 25 : add PD13 7/7 : PAGE 20 : add nut on Hole 7, Hole 8 and Hole 11 7/7 : PAGE 18 : add R355 for power consumption issue Vendor suggest to place it close to EC. 7/8 : PAGE 18 : add D30 for current leakage issue of 3G_EC_LED# signal. 7/9 : PAGE 18 : add D31 to prevent current leakage of Recover_LED# signal. 7/10 : PAGE 19 : change the direction of Q21 and Q22 to prevent the current leakage 7/10 : PAGE 3 : follow vendor suggestion to change C226 from 33p to 27p 7/13 : PAGE 18 : follow vendor suggestion to change C337 and C343 from 6.8p to 15p.	

Model	REV	DATE	CHANGE LIST	NOTE
ZE8	C1A		7/23 : PAGE 20 : change CN17 footprint to usb-04w4b-4p-r-v 7/23 : PAGE 20 : add U38 re-driver IC for SATA connector 7/29 : PAGE 19 : change JSIM1 pin define to solve SIM card not detect issue 7/31 : PAGE 20 : add parade solution of SATA re-driver IC 8/4 : PAGE 20 : change footprint of U38 to qfn20-4x4-5-21p-ps8511b 8/6 : because of DMI reference to GND, so, del C60 C67 C61 C150 C166 C153 CAPS 8/6 : PAGE 20 : change Hole 18 footprint HG-C237D94P2, Hole 16 to H-C91D91N 8/10 : PAGE 19 : change JSIM1 PN to DFHS06FS017 and change footprint to simcard-sim-06lj3g-10p 8/11 : add C244 C245=220pF, add C243 =680pF,change C11= 1000pF,add C60=1000pF,change C307= 1000pF,add C363=0.1uF,change C10= 0.1uF, R113 change to BLM18BA750SN1 ferrite bead,R252, R253 = ferrite bead (BLM18PG471SN1),R190, R194 = BLM21PG331SN1 for EMI 8/12 : change JSIM1 back to A2-test P/N and footprint. 8/13 : add C246,C247=220pF, add C471=0.1uF for EMI 8/28 : page13 : add pull high resistor R160 in GNT3# pin for no video issue. 8/31 : page 22 : exchange V_BLIGHT and LCDVCC pin define 9/2 : page 19 : change PN and footprint of JSIM1 back to A1 type. 9/2 : page 21 : change G-Sensor footprint to sensor-3x3-5-16p-smt for SMT solder issue. 9/8 : page 23 : change battery connector footprint to bat-btj-08fg0b-8p-l-v for SMT issue. 9/8 : change R141,R303,R199,R259,R254,R174,R201,R172,R173,R217,R261,R168,R175,R249,R150,R15 to short pad	ECN Release
	C3A		9/28 : change PU2 footprint from QFN28-5X5-5-33P to qfn28-5x5-5-33p-nb4	