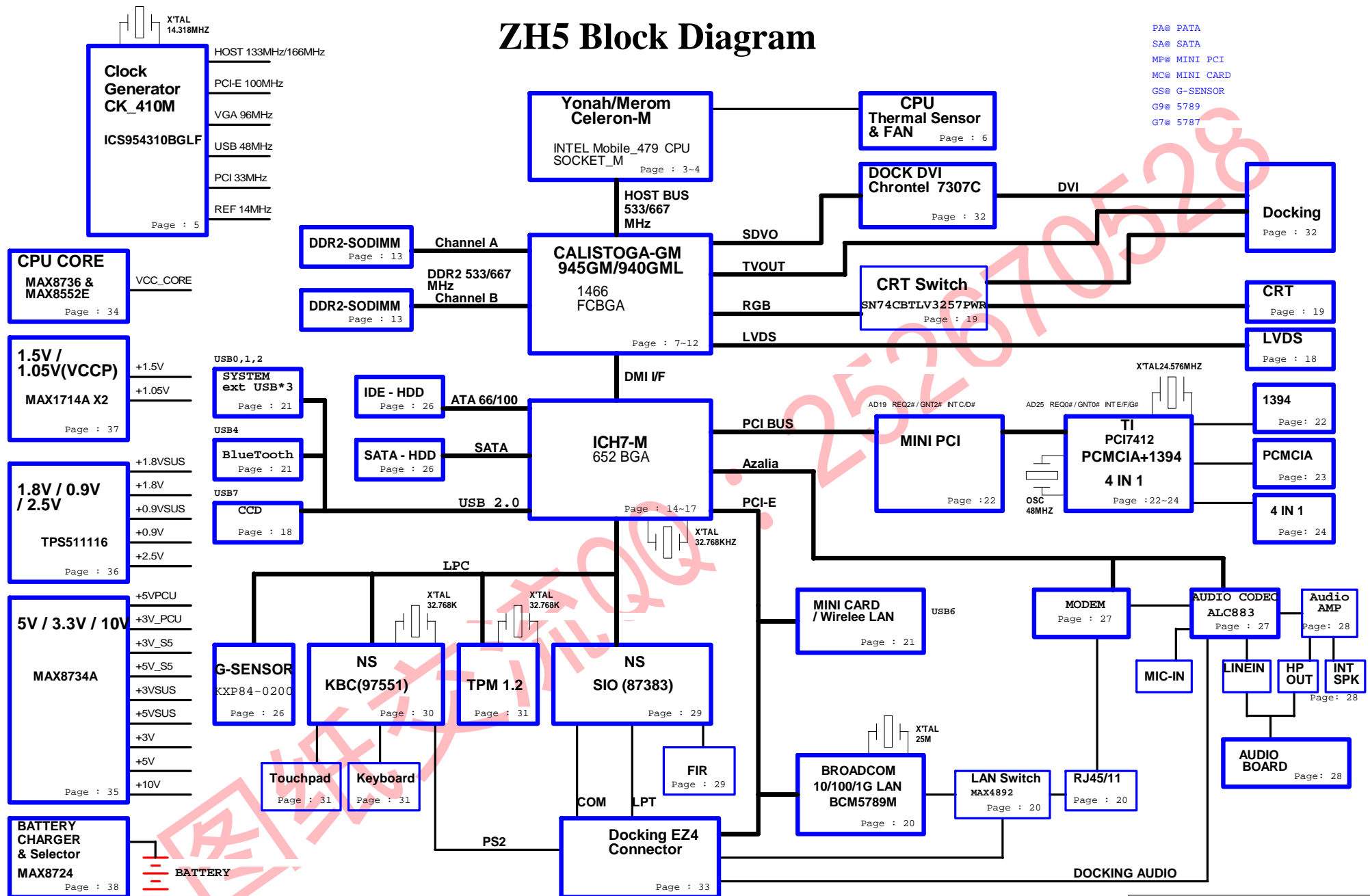


# ZH5 Block Diagram

PA@ PATA  
SA@ SATA  
MP@ MINI PCI  
MC@ MINI CARD  
GS@ G-SENSOR  
G9@ 5789  
G7@ 5787



PCI/DEVICE	IDSEL#	REQ# / GNT#	Interrupts
PCI7412	AD25	REQ0# / GNT0#	INT E/F/G#
MINI PCI	AD19	REQ2# / GNT2#	INT C/D#

**PROJECT : ZH5**  
**Quanta Computer Inc.**

Size	Document Number	Rev
	<b>BLOCK DIAGRAM</b>	1A
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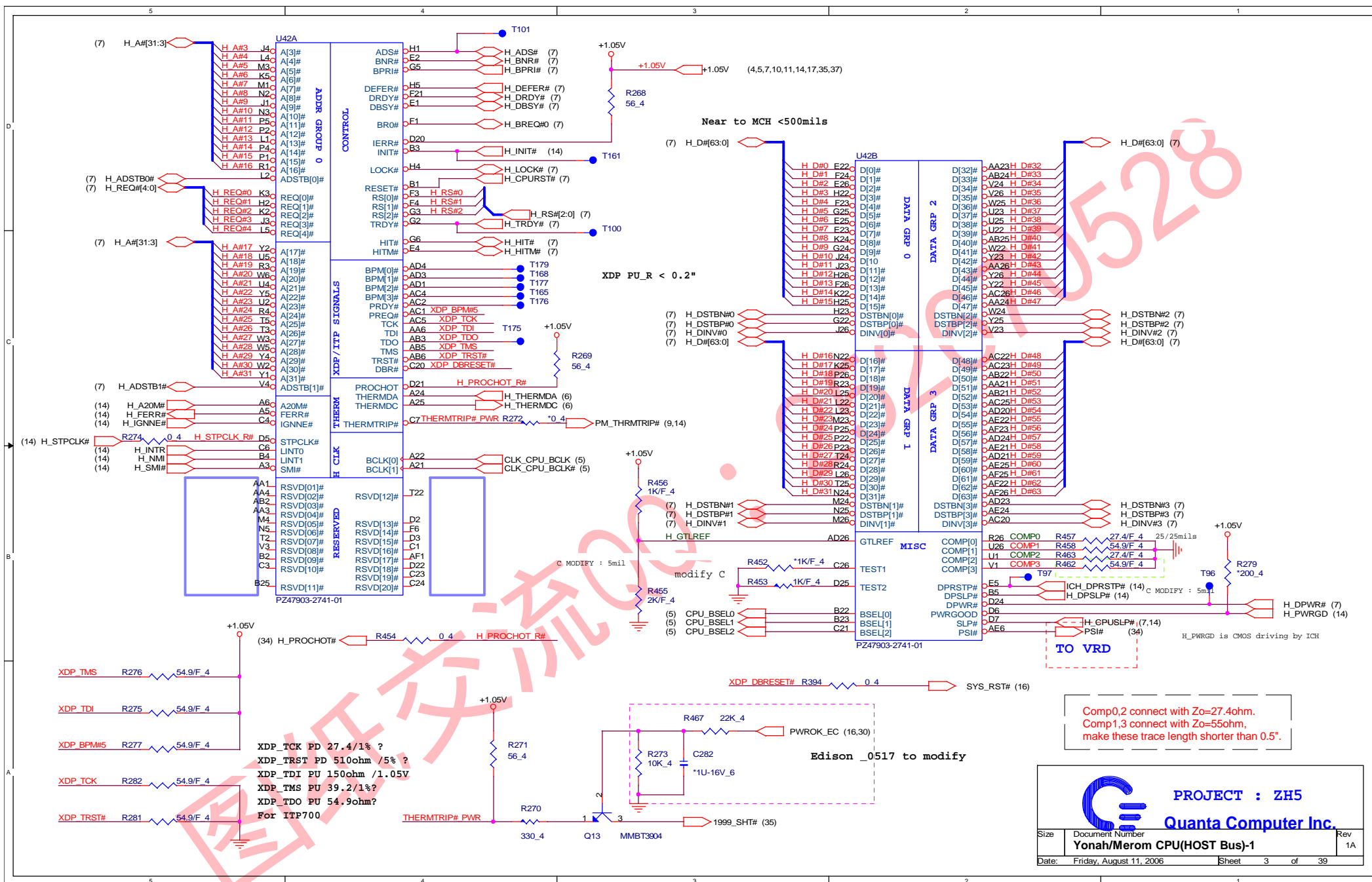
## TABLE OF CONTENTS

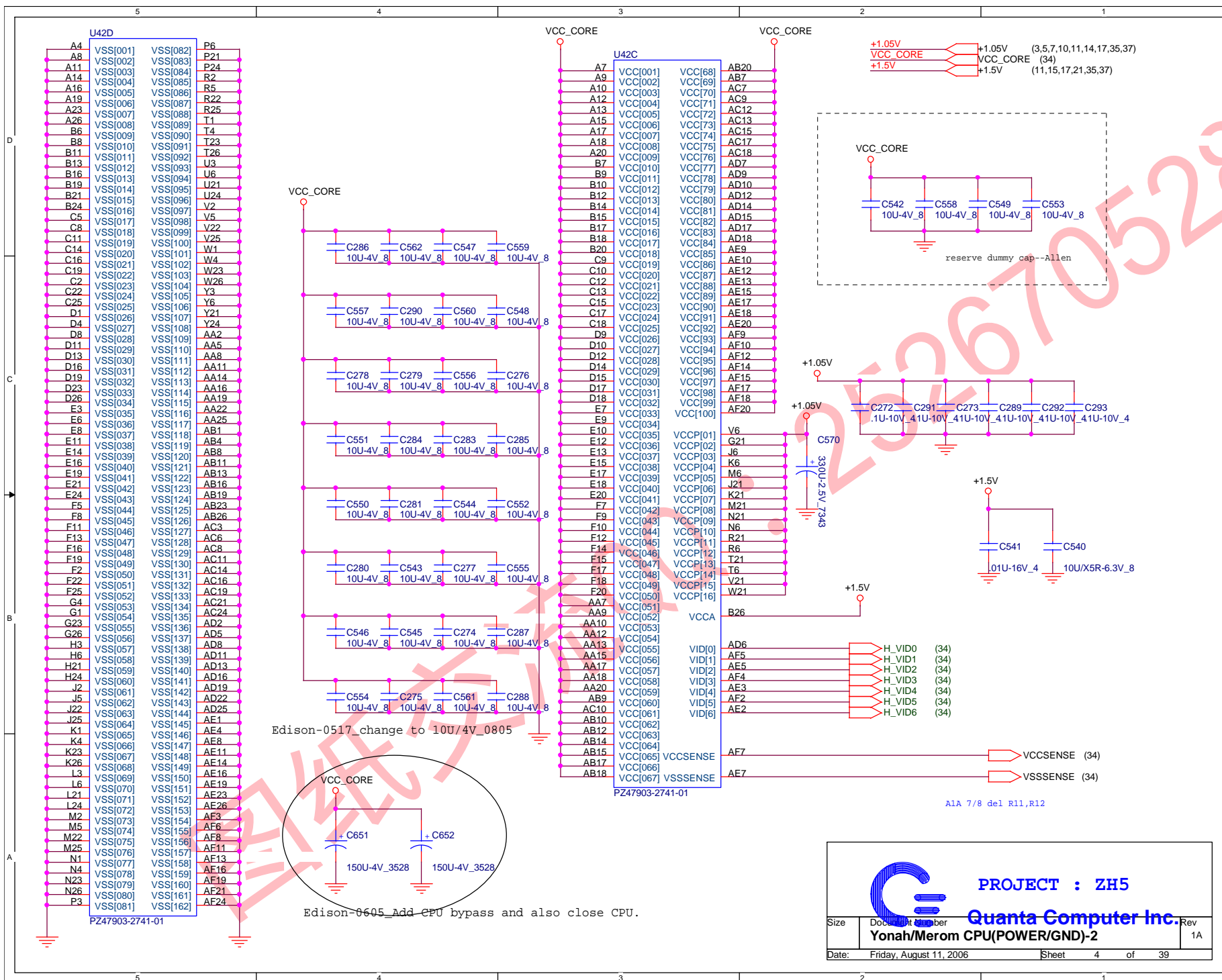
Page 01 :	BLOCK DIAGRAM
Page 02 :	TABLE OF CONTENTS
Page 03 :	Yonah/Merom CPU(HOST Bus)-1
Page 04 :	Yonah/Merom CPU(POWER/NC)-2
Page 05 :	CLOCK GENERATOR
Page 06 :	THERMAL SENSOR & FAN
Page 07 :	GMCH HOST Bus(1 of 6)
Page 08 :	GMCH DDRII MEMORY (2 of 6)
Page 09 :	GMCH DMI & VEDIO (3 of 6)
Page 10 :	GMCH POWER & STRAP(4 of 6)
Page 11 :	GMCH LVDS/DAC-PWR2 (5 of 6)
Page 12 :	GMCH GND (6 of 6)
Page 13 :	DDRII SO-DIMM & TERMINATOR
Page 14 :	ICH7-M RTC/SATA/IDE/AZALIA/CPU (1 OF 4)
Page 15 :	ICH7-M MDI/PCI E/PCI/USB (2 OF 4)
Page 16 :	ICH7-M GPIO/SMBus (3 of 4)
Page 17 :	ICH7-M POWER & GND (4 of 4)
Page 18 :	LVDS CONNECTOR & CCD
Page 19 :	CRT PORT
Page 20 :	GigaLAN BCM5787MKMLG & RJ45/RJ11
Page 21 :	PCMCIA /Mini Card /USB / Blue Tooth
Page 22 :	PCI7412-IEEE1394
Page 23 :	PCI7412-PCMCIA
Page 24 :	PCI7412-CARD READER
Page 25 :	HOLES
Page 26 :	SATA/PATA HDD /G SENSOR
Page 27 :	CODEC ALC883 & MDC
Page 28 :	AUDIO AMP & SPEAK/LIN OUT
Page 29 :	SIO (87383)
Page 30 :	EC Controller PC97551 & FLASH
Page 31 :	SWITCH,LED,KB,TP,TPM1.2,EMI PAD
Page 32 :	DOCK DVI CH7307C
Page 33 :	DOCK EZ4 CONNECTOR
Page 34 :	CPU CORE (MAX8736ETL+)
Page 35 :	SYSTEM +5V/+3V(MAX8734A)
Page 36 :	DDRII POWER 1.8VSUS / 0.9VTERM
Page 37 :	CHIPSET POWER +1.5V / VCCP(+1.05V)
Page 38 :	BATTERY CHARGER & SELECTOR



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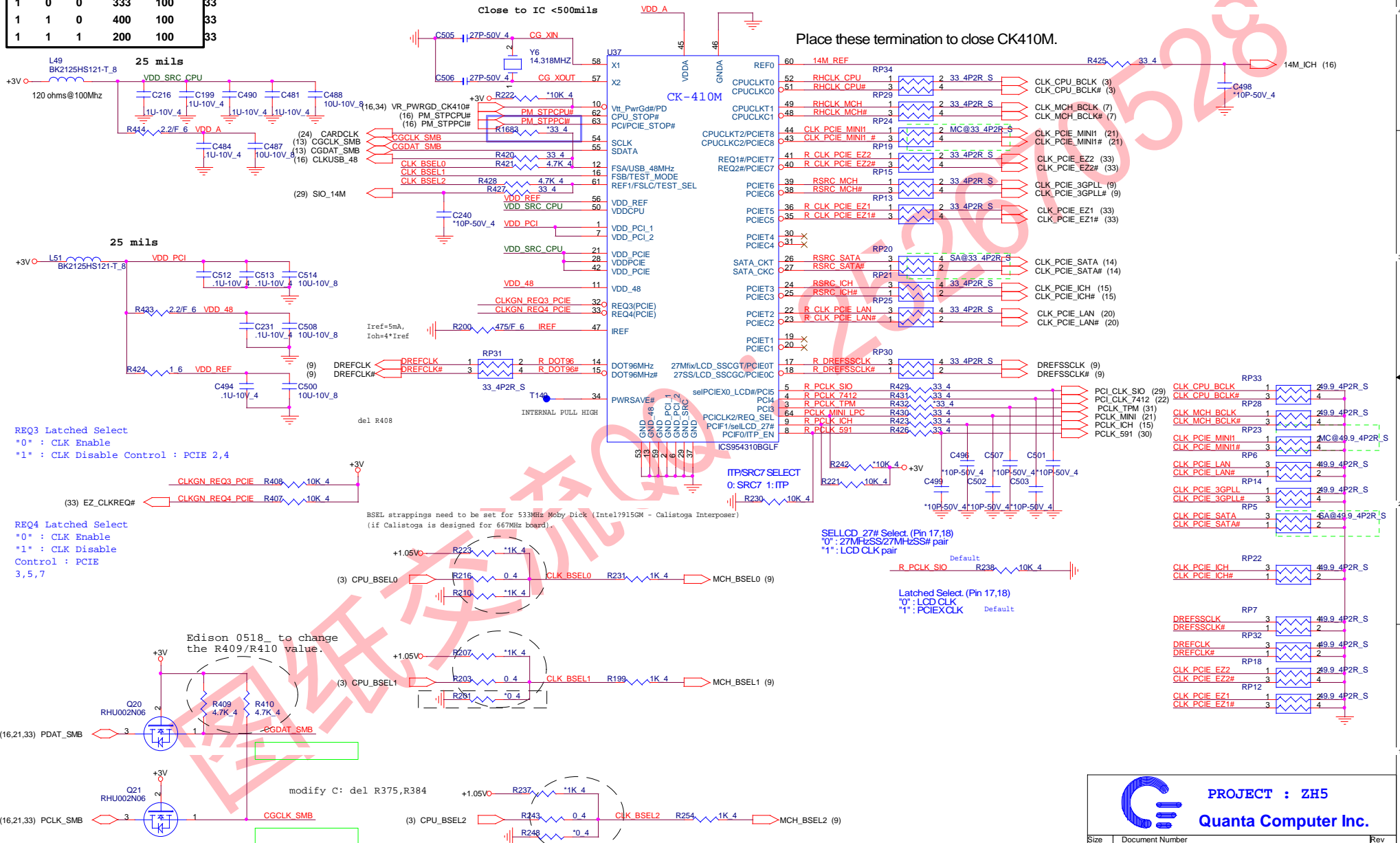
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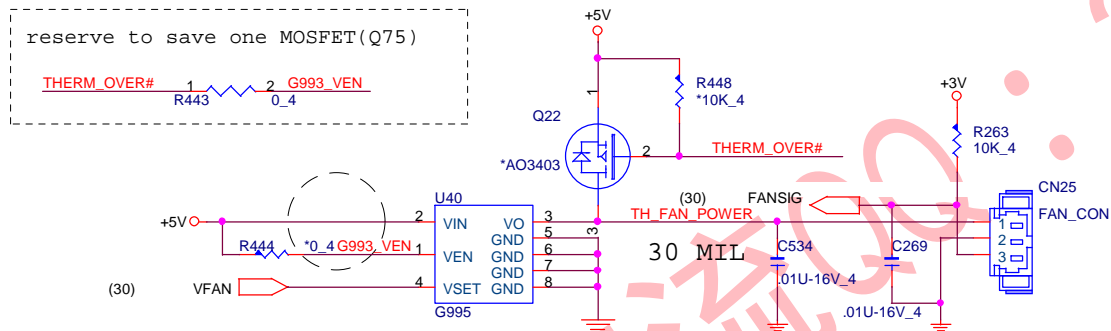




FSC	FSB	FSA	CPU	SRC	PCI
1	0	1	100	100	33
0	0	1	133	100	33
0	1	1	166	100	33
0	1	0	200	100	33
0	0	0	266	100	33
1	0	0	333	100	33
1	1	0	400	100	33
1	1	1	200	100	33

Default

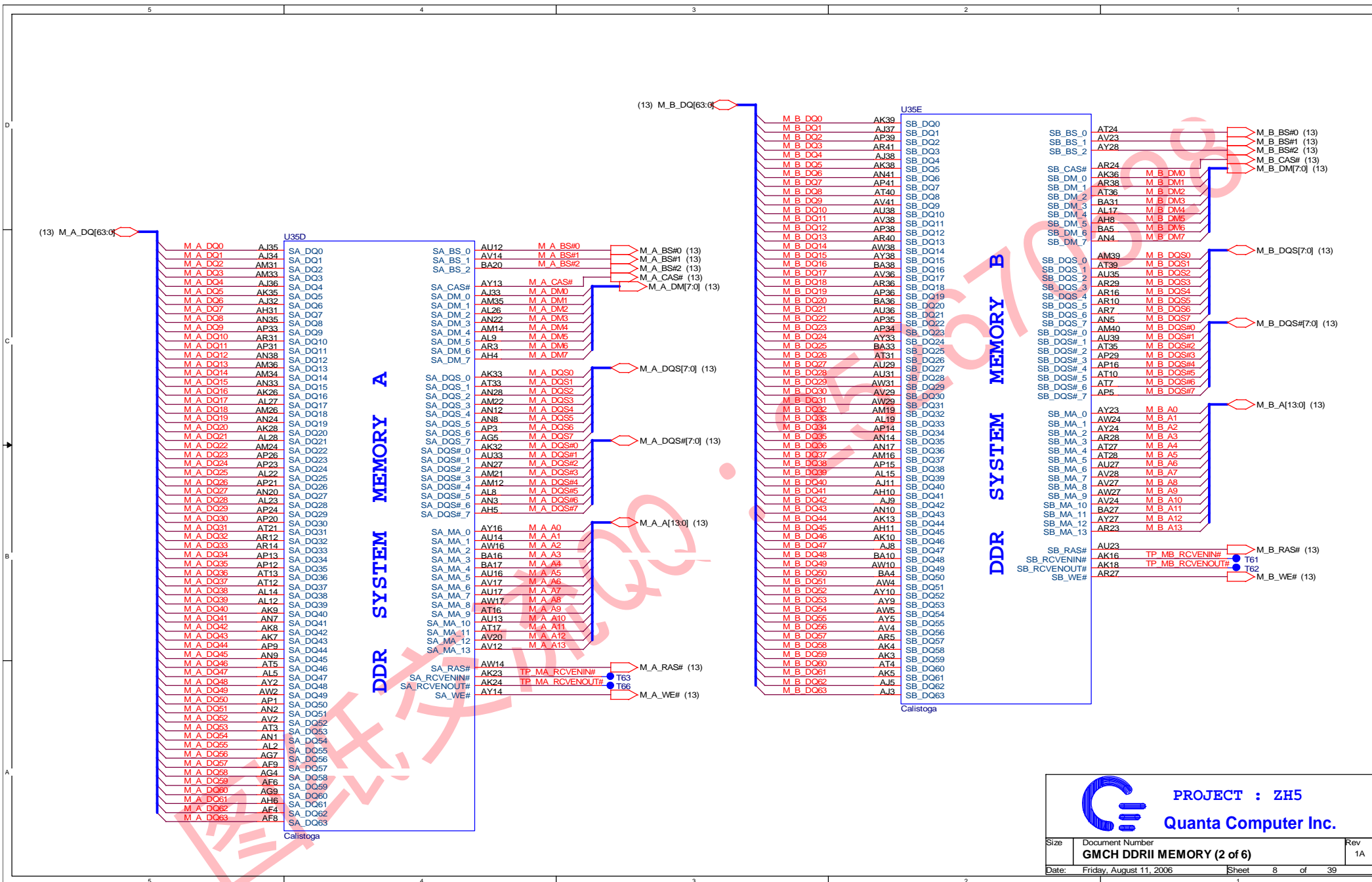




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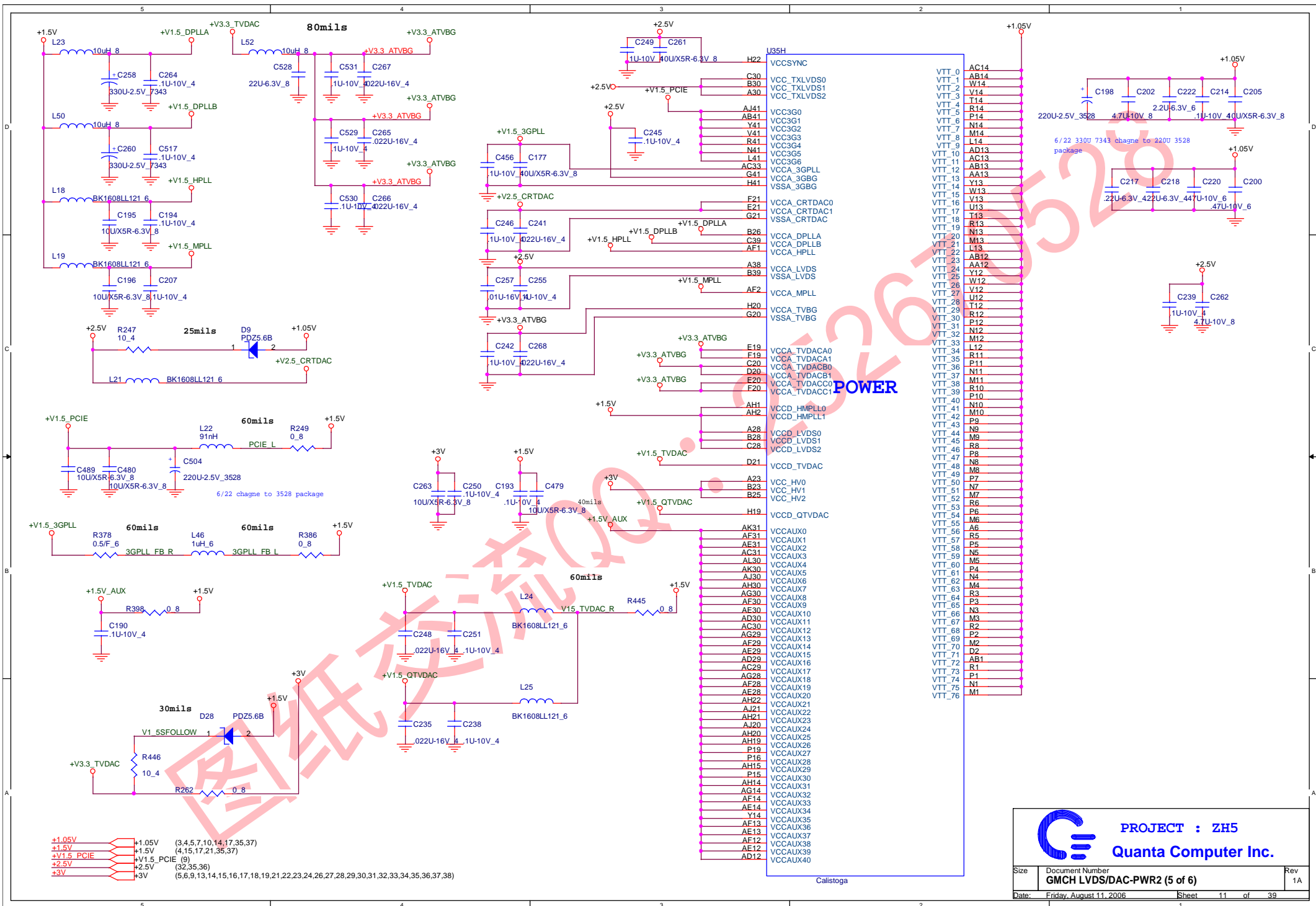


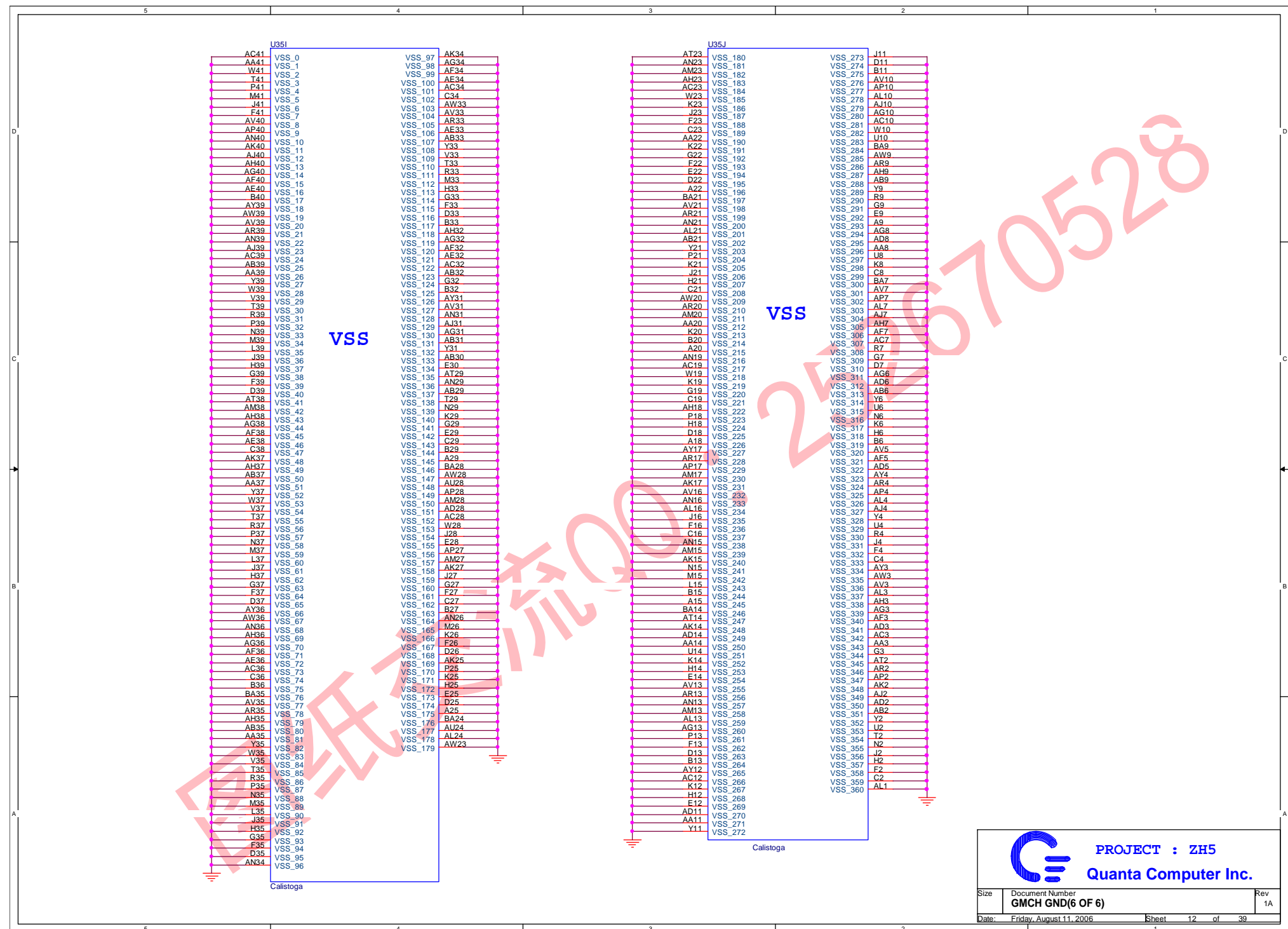










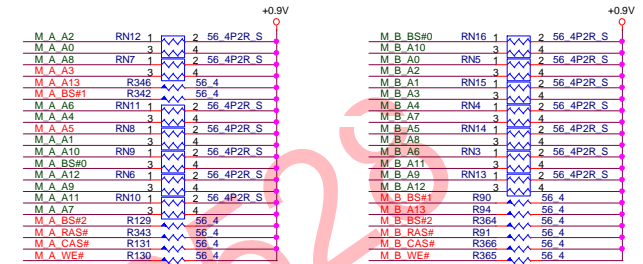
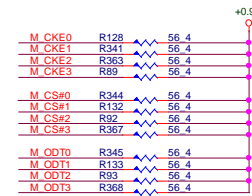
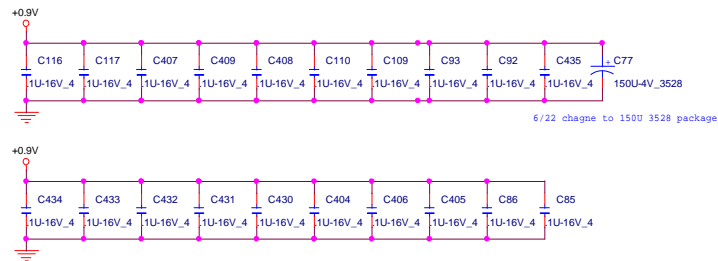


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**Quanta Computer Inc.**

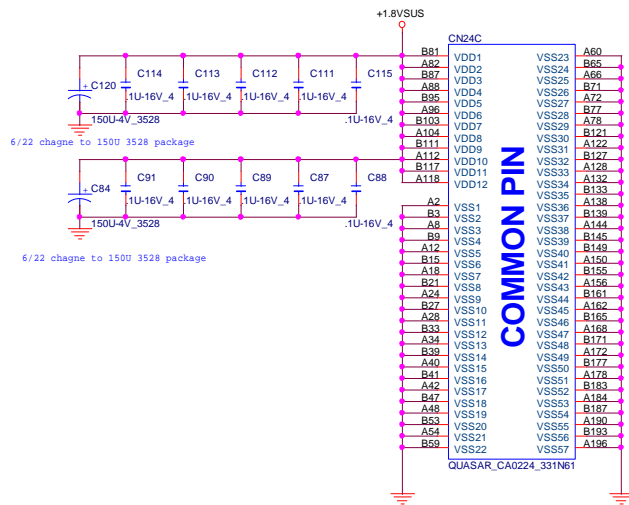
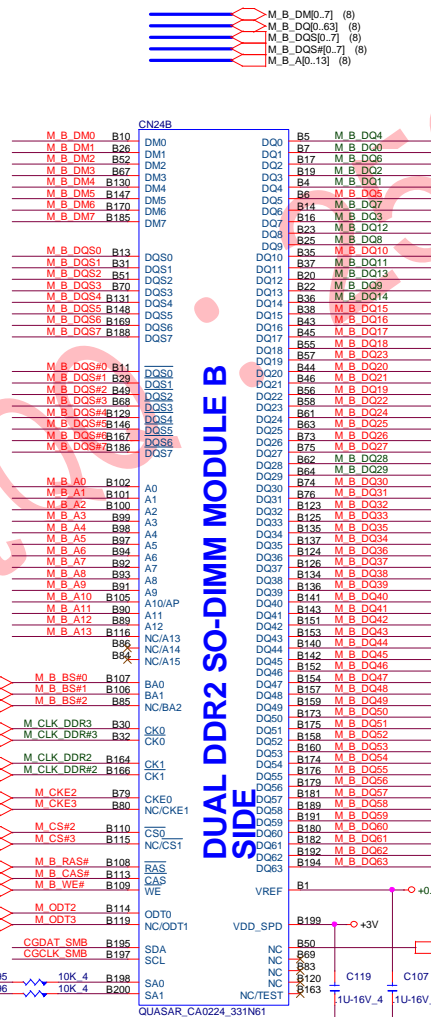
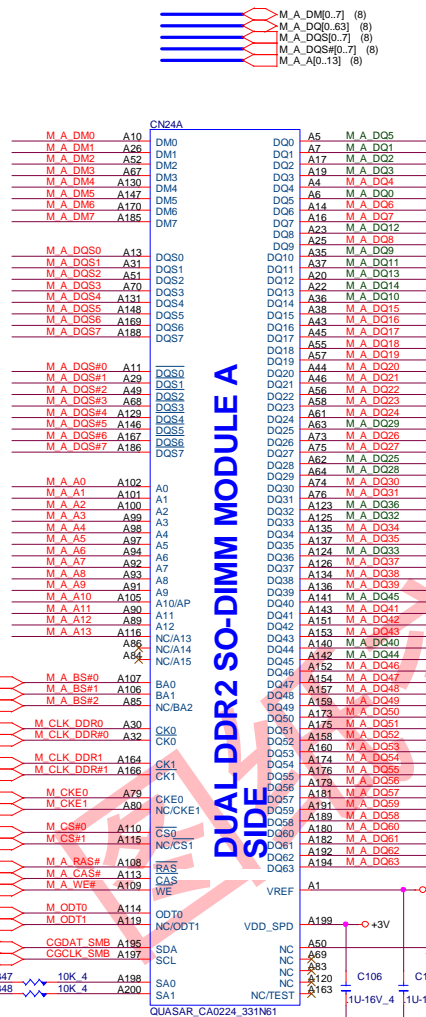
Size	Document Number	Rev
	GMCH GND(6 OF 6)	1A
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## DDR2 TERMINATOR



## DDR2 SO-DIMM SOCKET



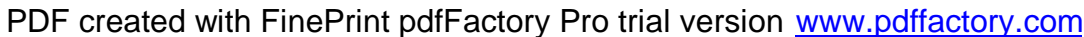
**COMMON PIN**

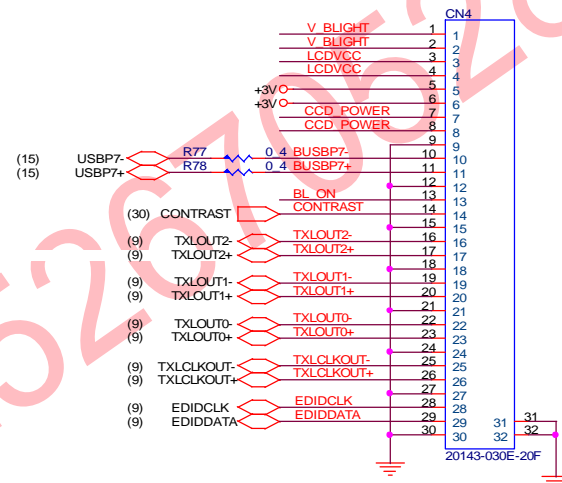
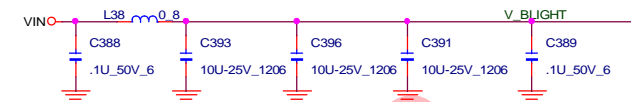
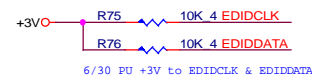
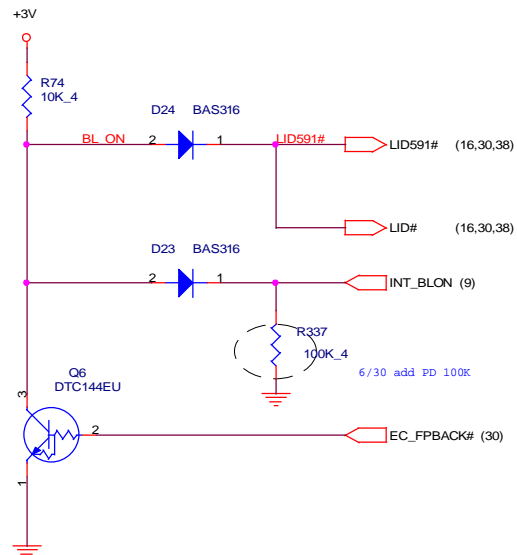




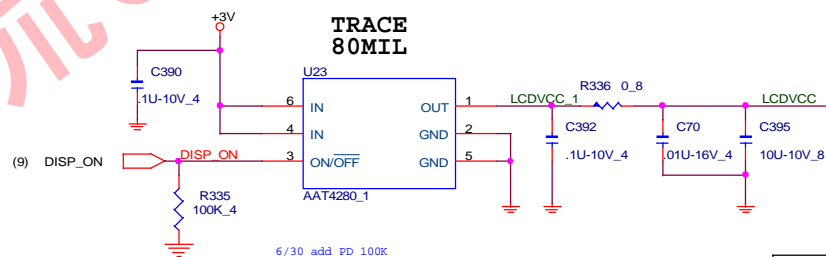
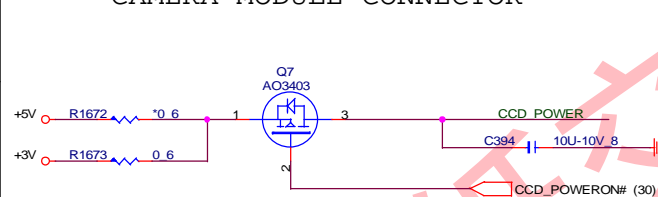









## CAMERA MODULE CONNECTOR





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**Quanta Computer Inc.**

Size	Document Number	Rev
	<b>LVDS CONNECTOR &amp; CCD</b>	1A
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(9) VGA\_RED  
(9) VGA\_GRN  
(9) VGA\_BLU

(9) VSYNC  
(9) HSYNC

(9) CRTCLK  
(9) CRTDAT

(33) PR\_INSERT\_5V

U6

VCC  
A0  
A1  
B0  
B1  
C0  
C1  
D0  
D1  
SE  
EN#  
GND

16  
2  
3  
5  
6  
11  
10  
14  
13  
8

C\_A  
C\_B  
C\_C  
C\_D  
D0  
D1

SN74CBTLV3257PWR

+5V  
VGA\_RED\_SYS  
VGA\_RED\_PR  
VGA\_GRN\_SYS  
VGA\_GRN\_PR  
VGA\_BLU\_SYS  
VGA\_BLU\_PR

(33)  
(33)  
(33)  
(33)

VGA\_RED\_PR  
VGA\_GRN\_PR  
VGA\_BLU\_PR

(33)  
(33)  
(33)

+5V

C311

.1U-10V\_4

+5V

C1

.1U-10V\_4

+5V

C327

.1U-10V\_4

SEL	FUNCTION
LOW	IN_B0
HIGH	IN_B1

(16) CRT\_SENSE#

CN15

CRT\_070546FR015S209CL

11

12

13

14

15

R411

\*10K\_4

(33)

(33)

Edison 0523 Delete F2.

+5V

CRTVDD2

D10

SSM14

CRTVDD3

25 MIL

VGA\_RED\_SYS

VGA\_GRN\_SYS

VGA\_BLU\_SYS

L28

BLM18BA220SN1\_6

CRT R1

CRT G1

CRT B1

L27

BLM18BA220SN1\_6

L26

BLM18BA220SN1\_6

R293

150/F\_4

C310

10P-50V\_4

R292

150/F\_4

C309

10P-50V\_4

R291

150/F\_4

C308

10P-50V\_4

C298

10P-50V\_4

C299

10P-50V\_4

C300

10P-50V\_4

C modify Change to CX808600101

(30) DETECT\_CRT

Edison 0530 Add 24 ohm resistor.

VSYNC\_EZ4

HSYNC\_EZ4

(33)

(33)

U10

VCC\_SYNC

SYNC\_OUT2

SYNC\_OUT1

VCC\_DDC

BYP

VCC\_VIDEO

VIDEO\_1

VIDEO\_2

VIDEO\_3

GND

CM2009

16

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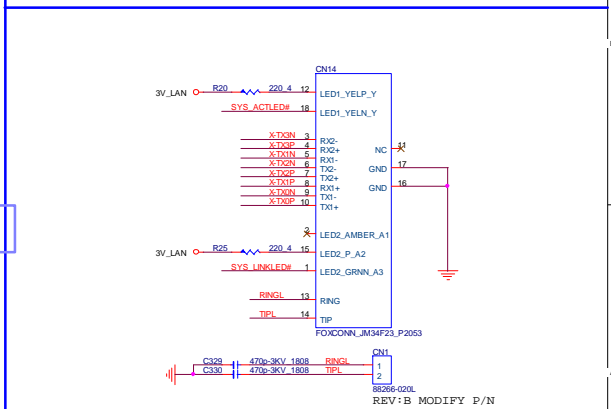
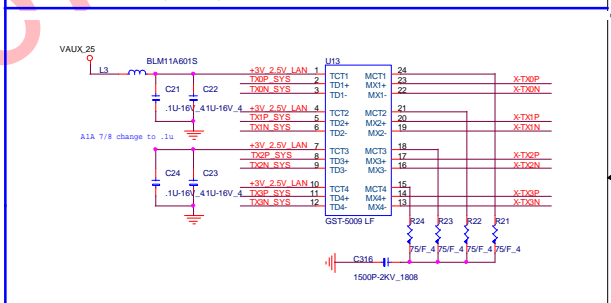
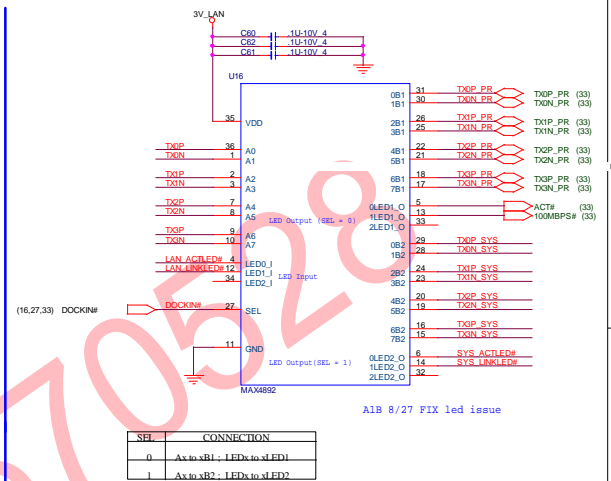
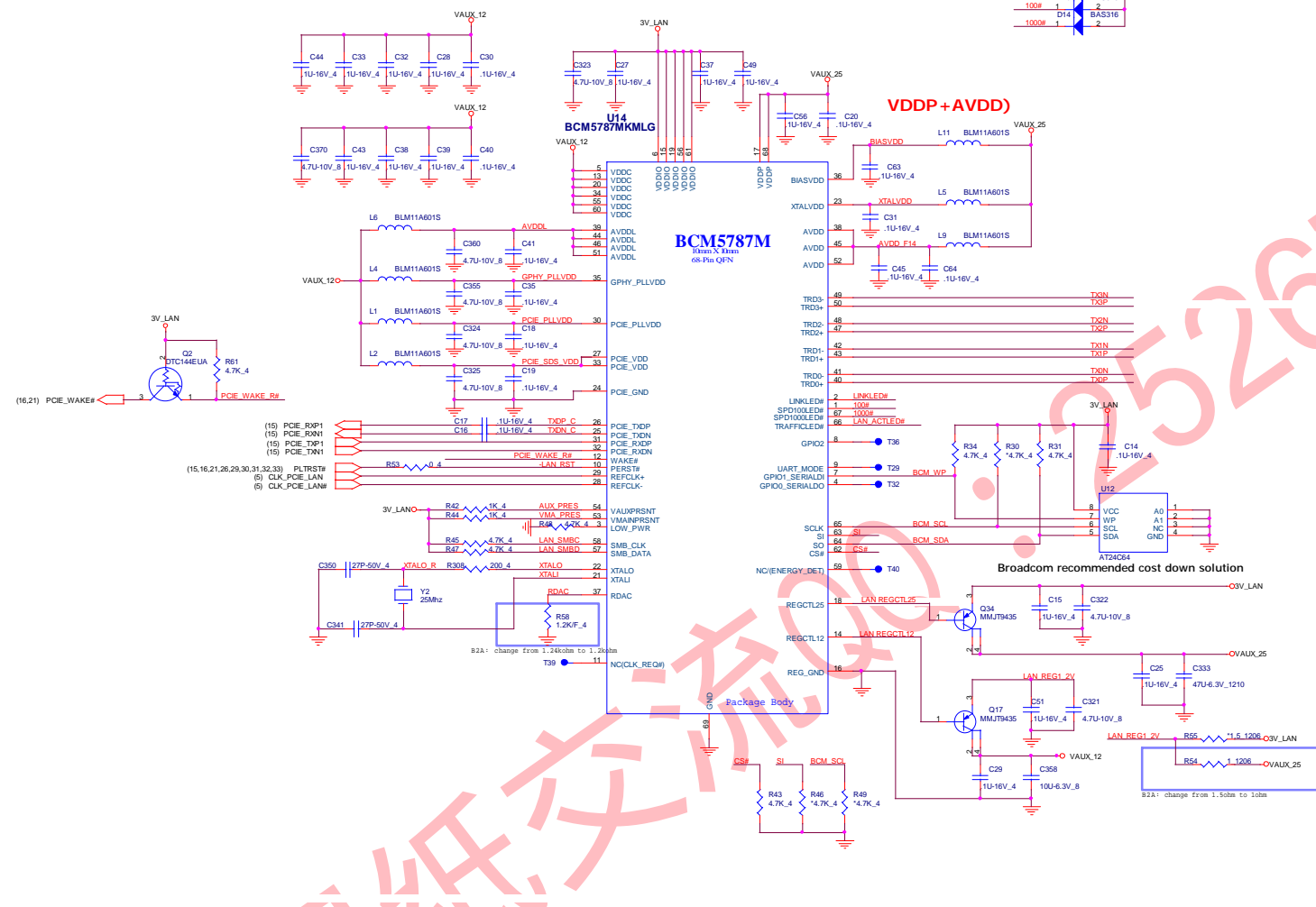
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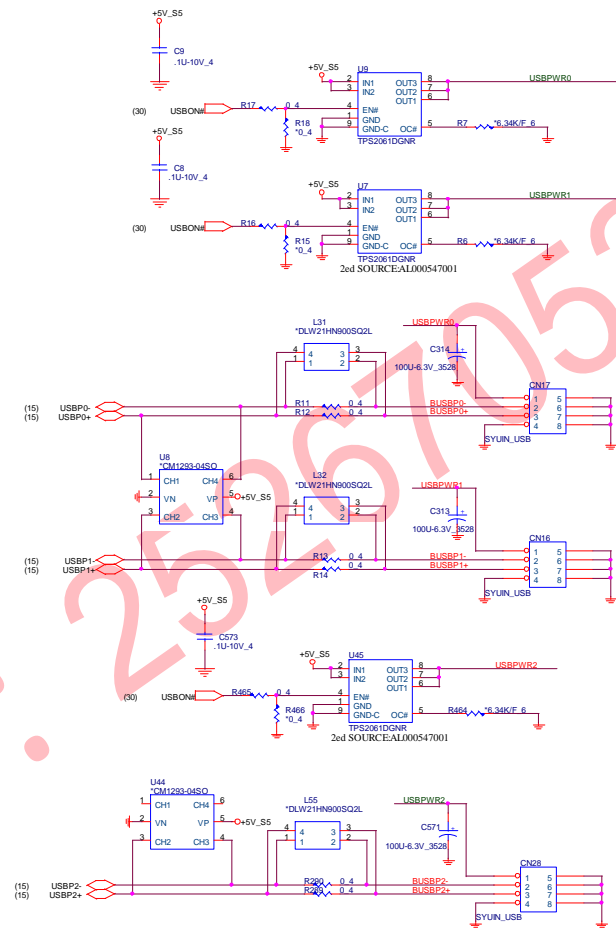
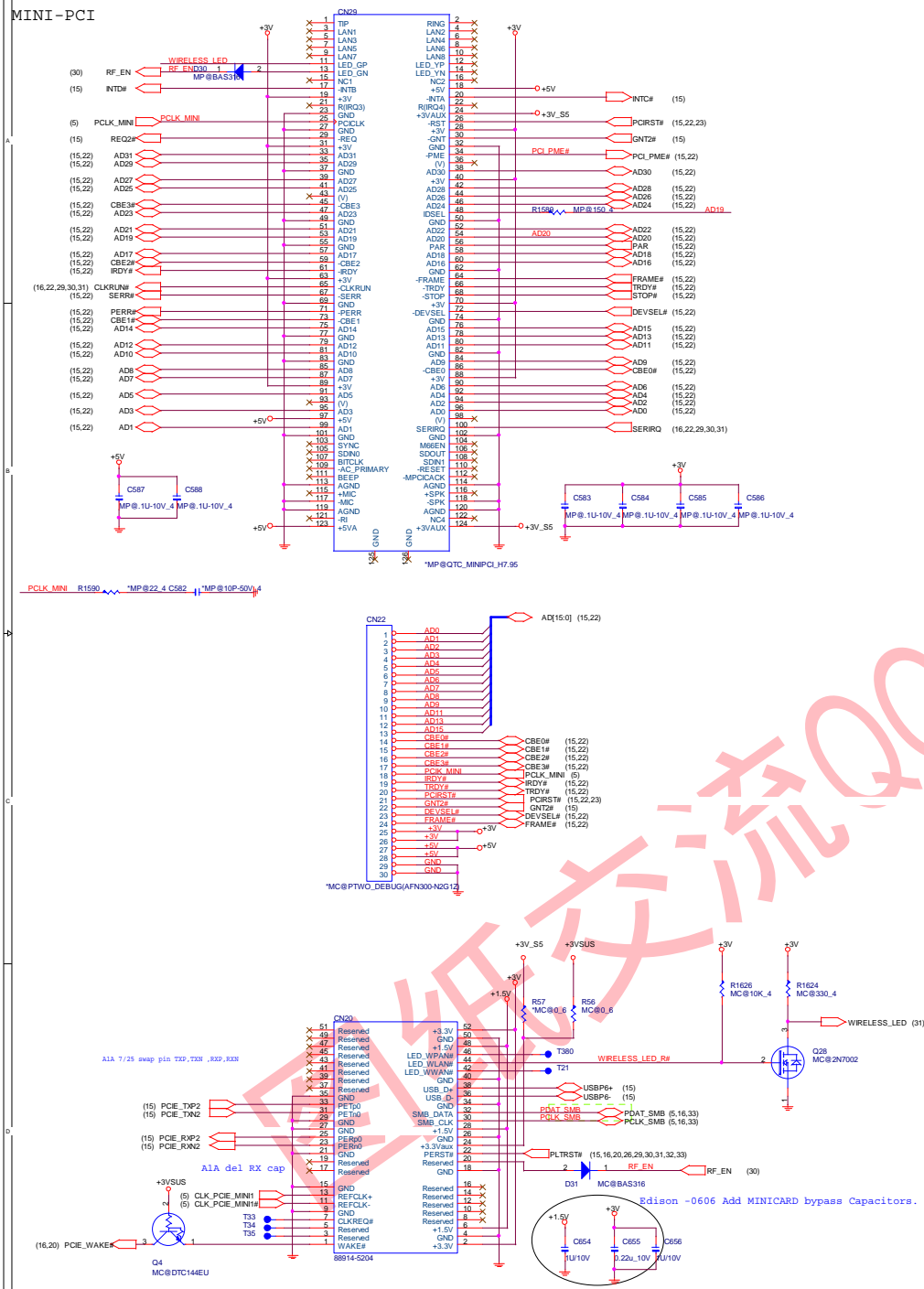
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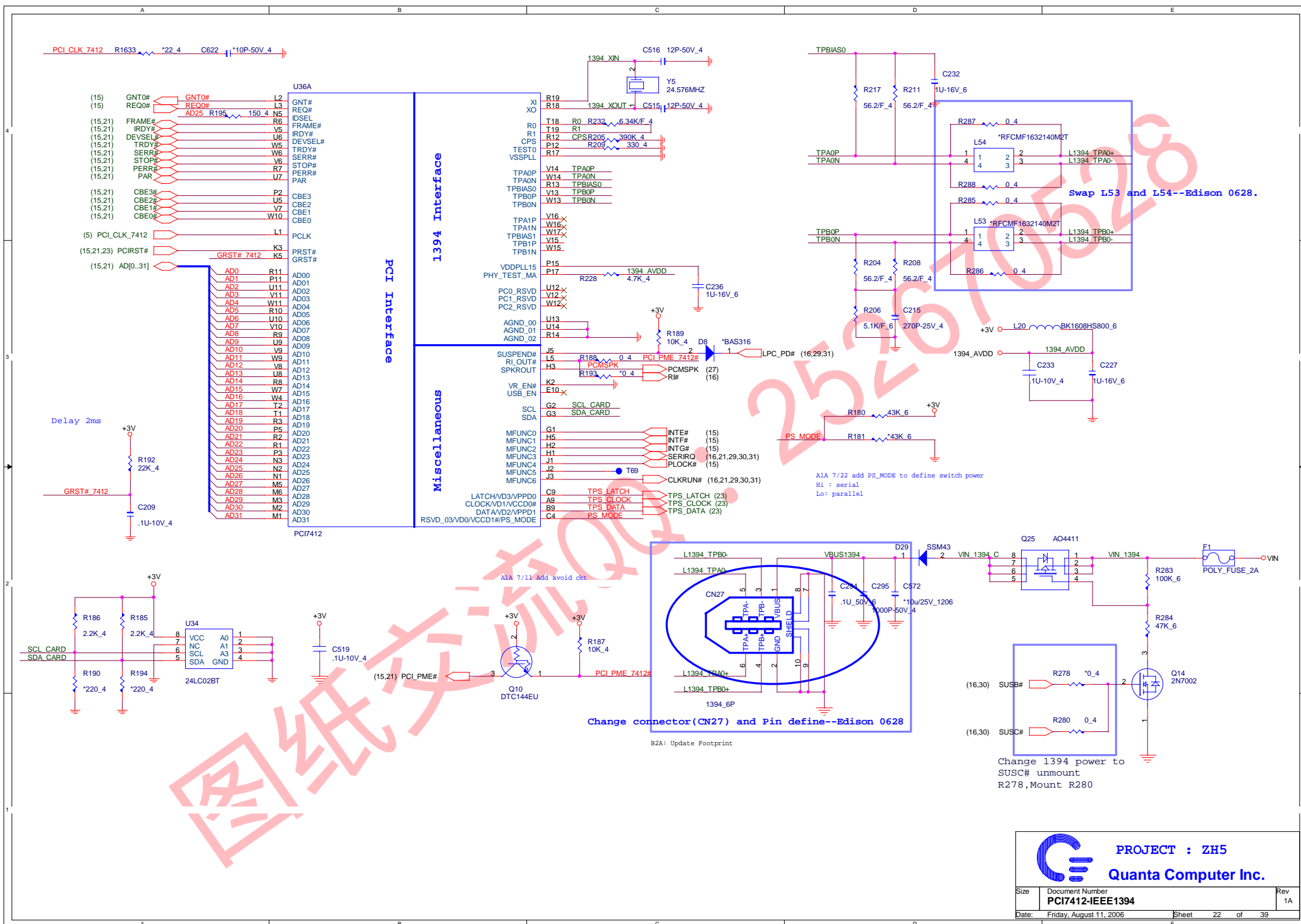
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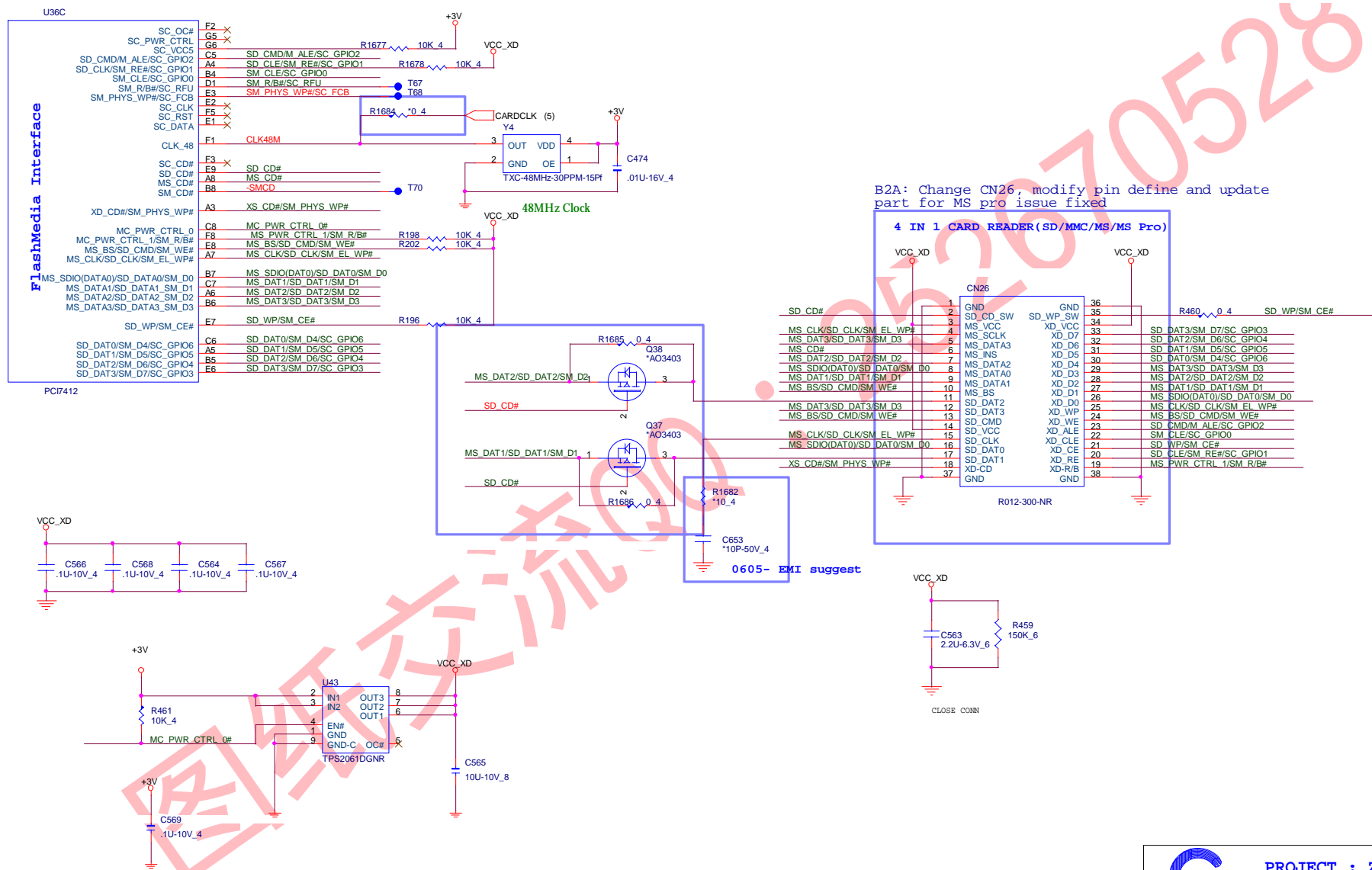


# MINI-PCI



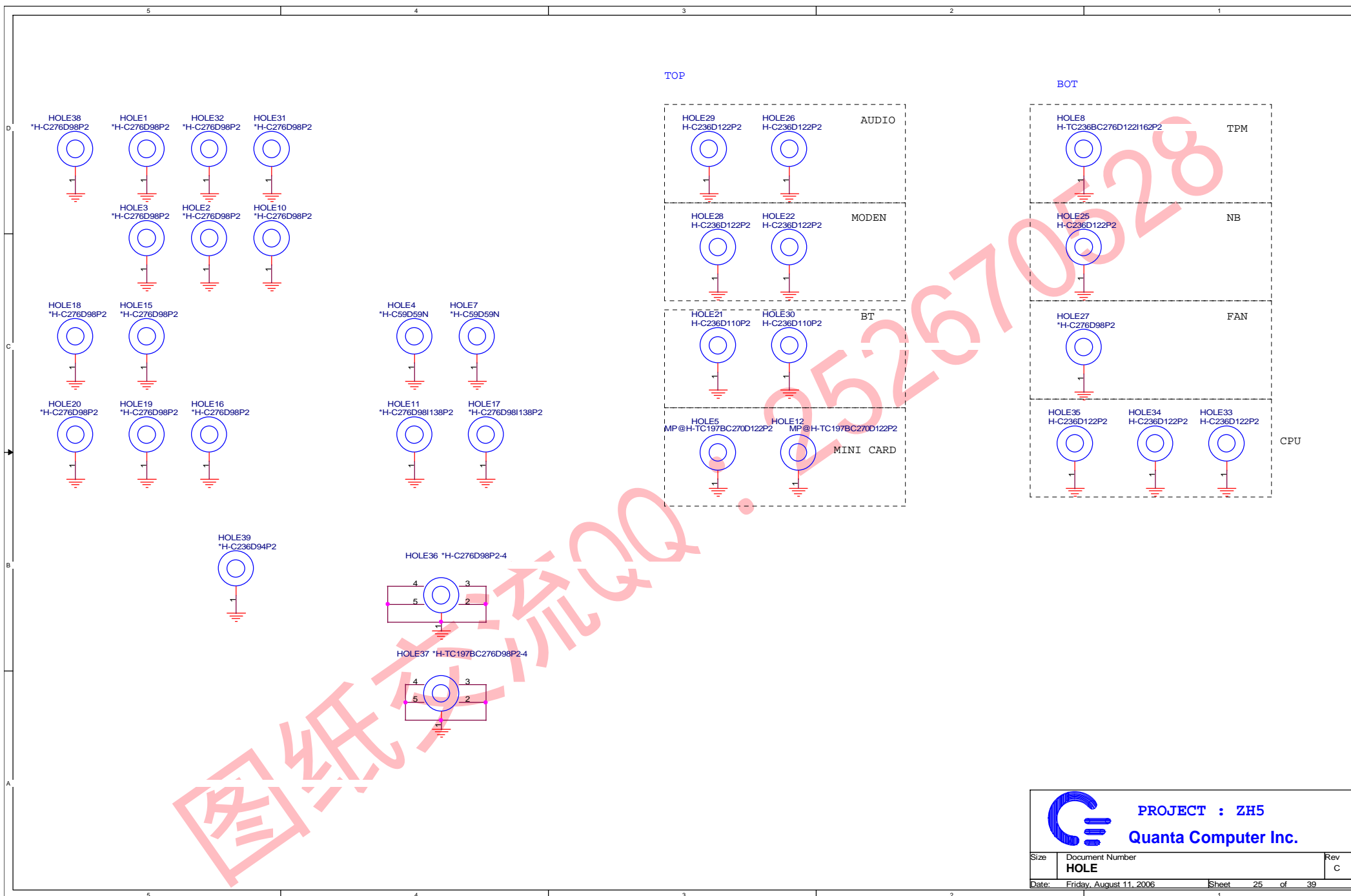






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Quanta Computer Inc.

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	PCI7412-CARD READER	1A
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**LINE IN**



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Package 0805 for THD+N performance for Vista Logo requirements.

# Speaker & Hear-Phone Amplifier

U30 MAX9789A

MAX9789A  
TQFN  
32PIN

For Speaker

Layout Note:  
The C525 close pin18,  
The C524 close pin8.

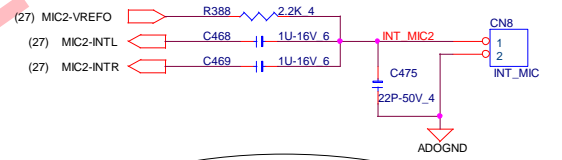
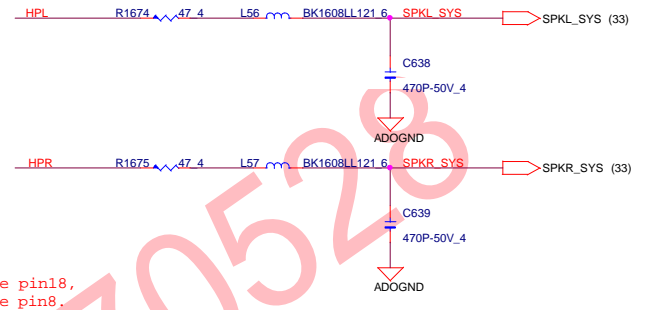
Layout Note:  
The C521 close pin9,  
The C451 close pin17.

MIC

Add A-LDO  
option  
resistor  
---Edison\_0628

GAIN1	GAIN2	GAIN
0	0	6dB
0	1	10dB
1	0	15.6dB
1	1	21.6dB

## DOCK HEADPHONE



The Placement close to U27(ALC883/ALC268)

Docking Microphone Input for ALC883 ---Edison\_0628

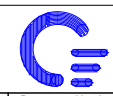
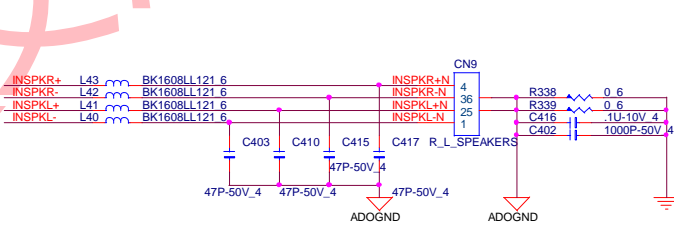
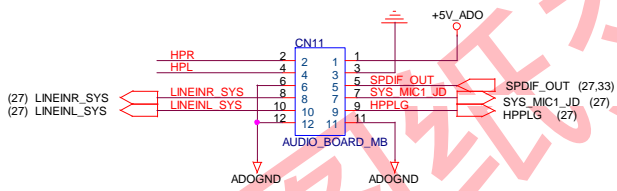


Docking Microphone Input for ALC268 ---Edison\_0628



## AUDIO BOARD

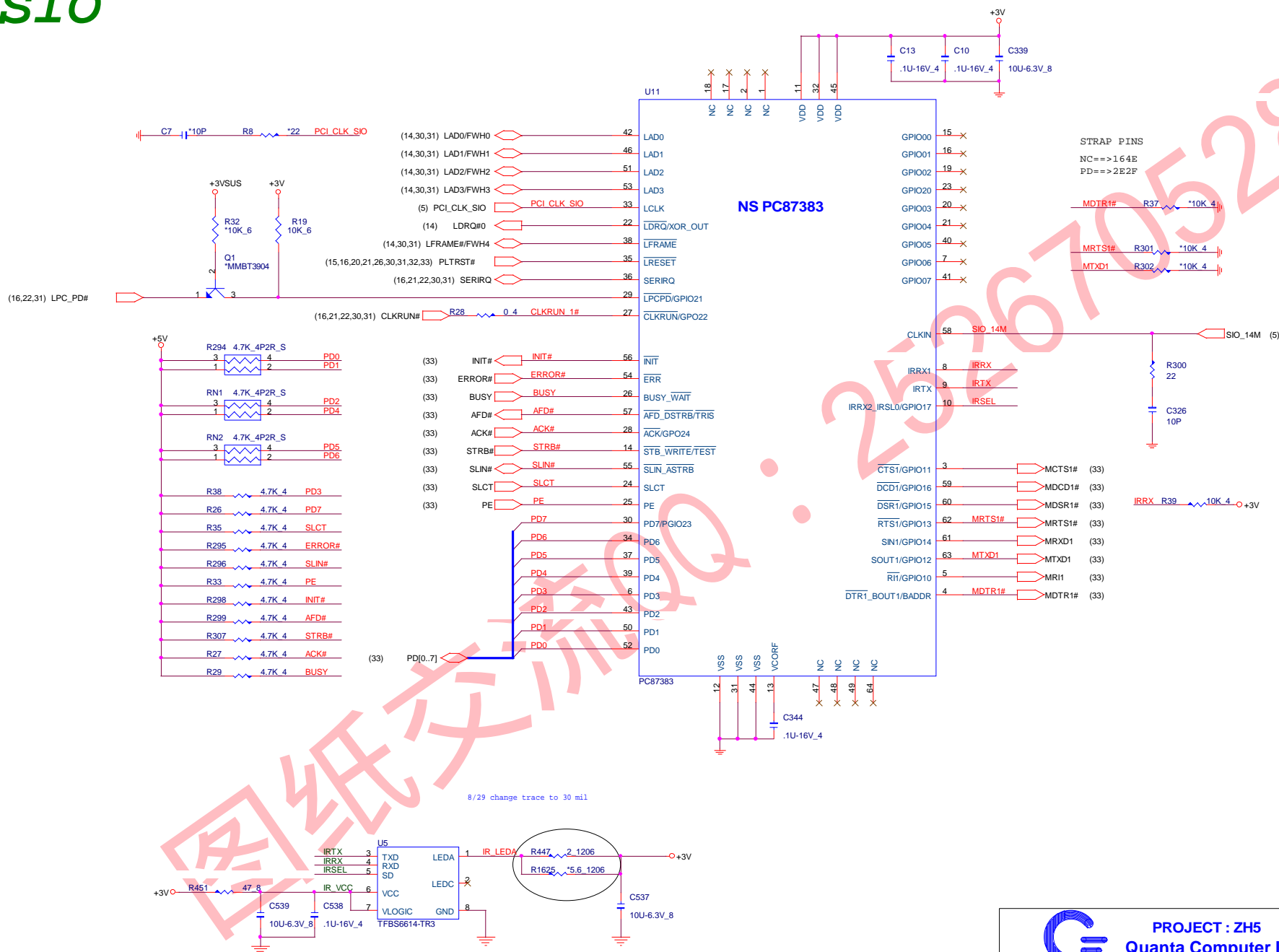
## SPEAKER CONNECTOR



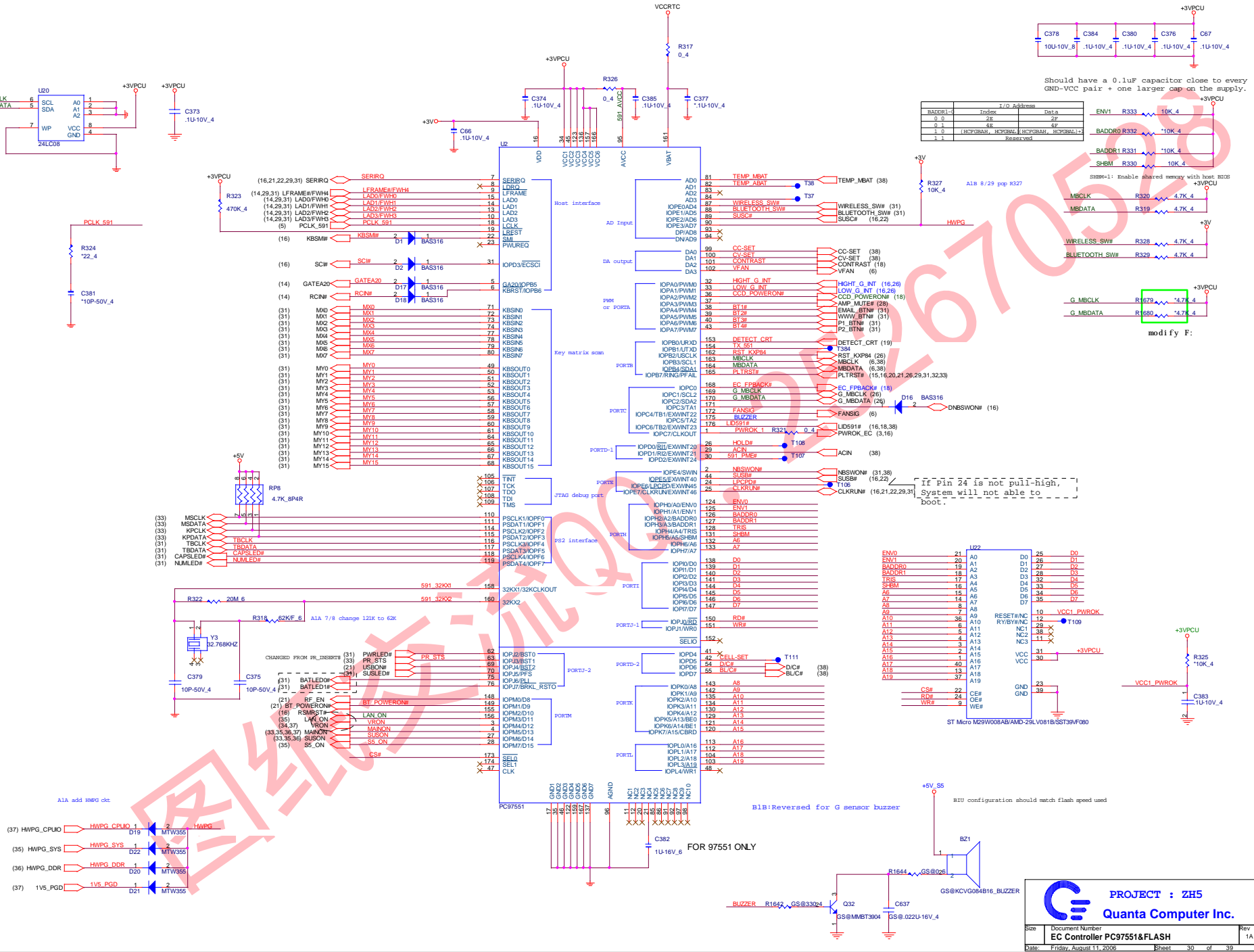
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	AUDIO AMP & SPEAK/LIN OUT	1A
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**SIO**



LDRQ#(pin 8) internal is no use

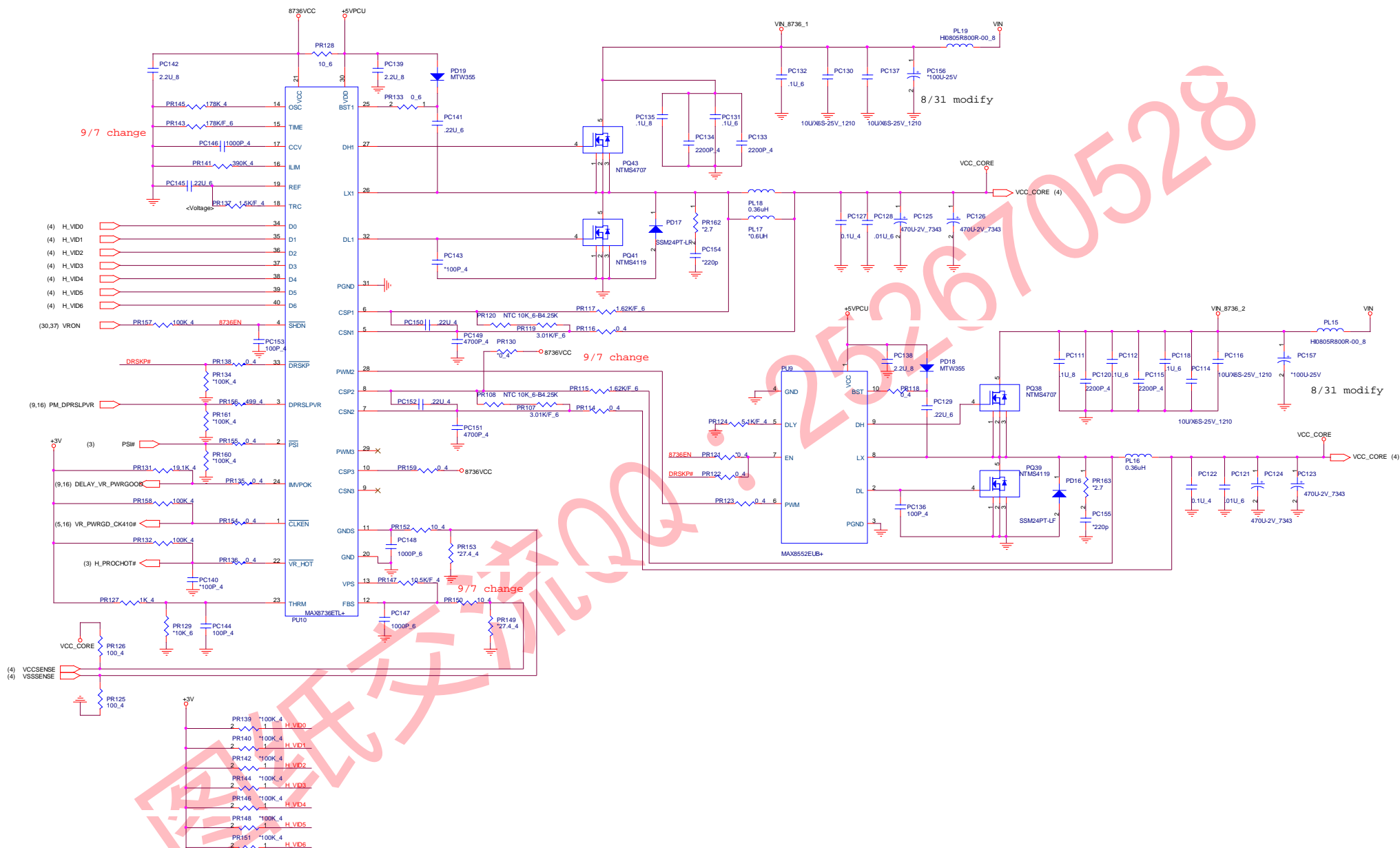


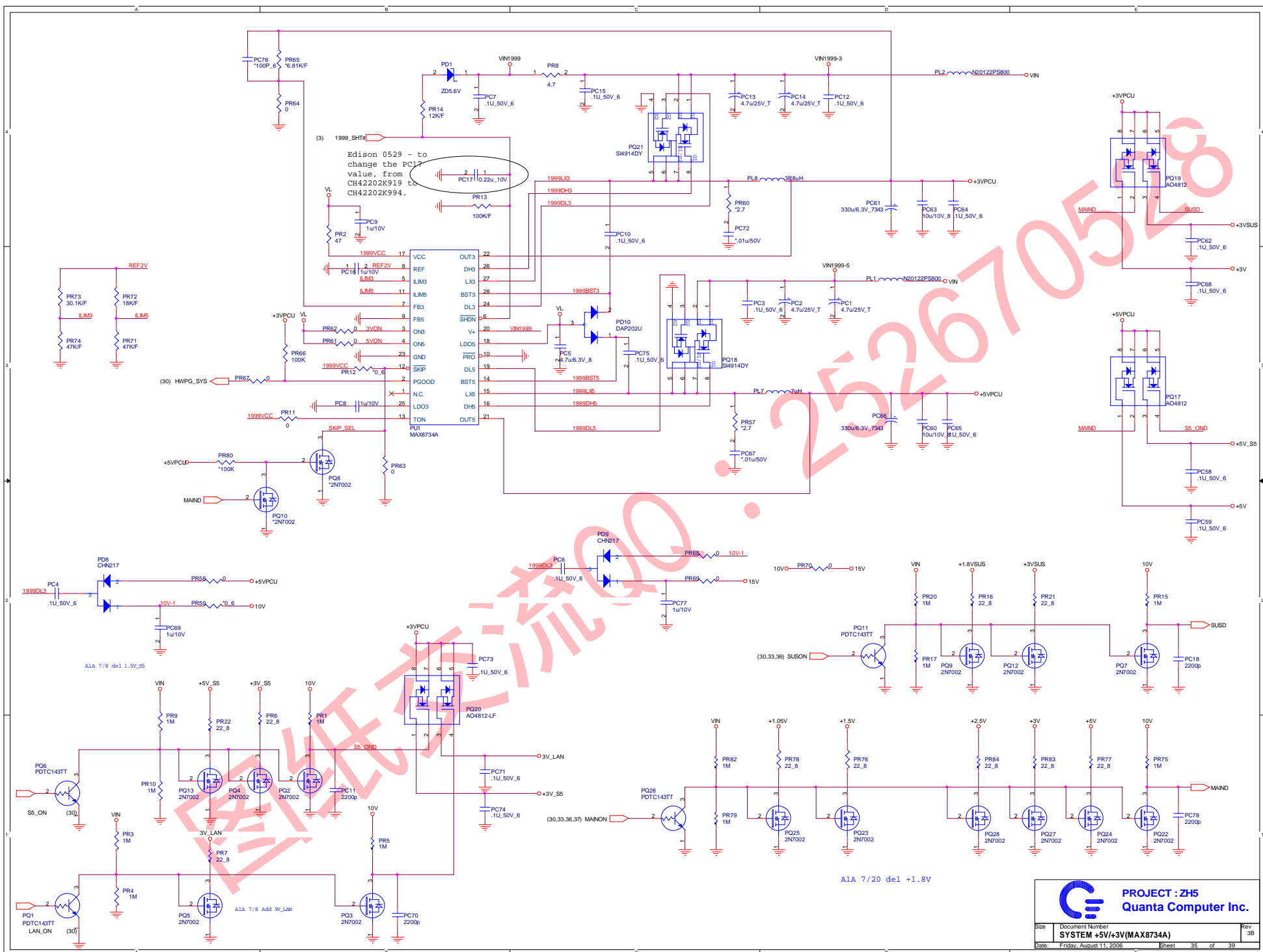


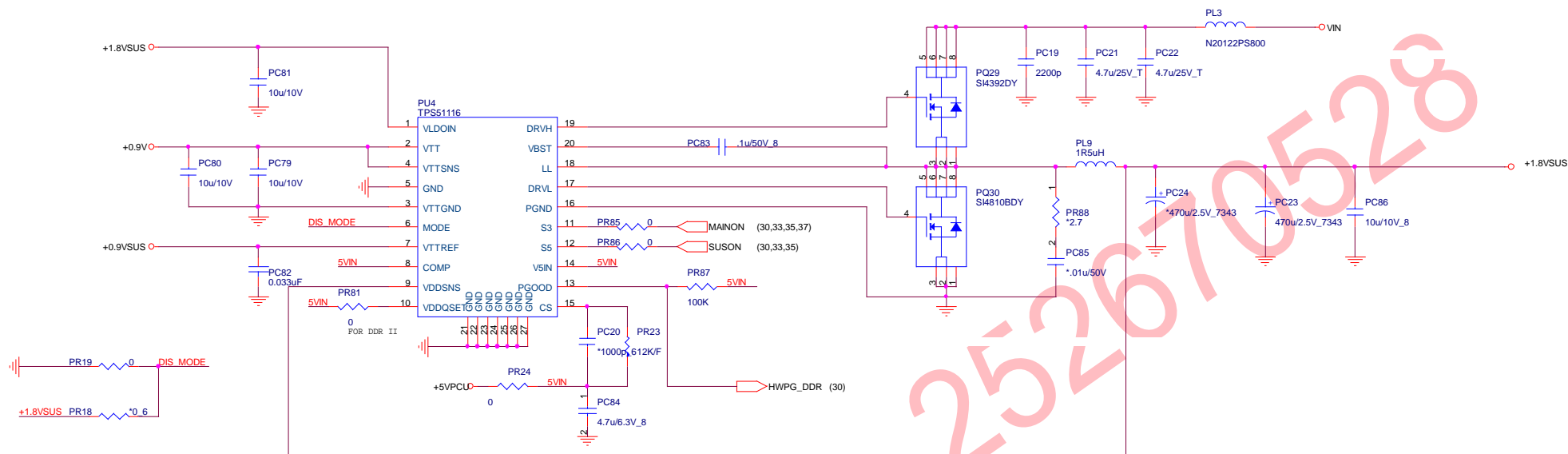




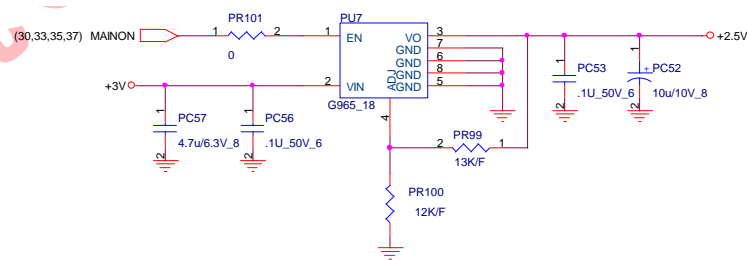








A1A 7/20 del +1.8V



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	DDRII POWER 1.8VSUS / 0.9VTERM	3B
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