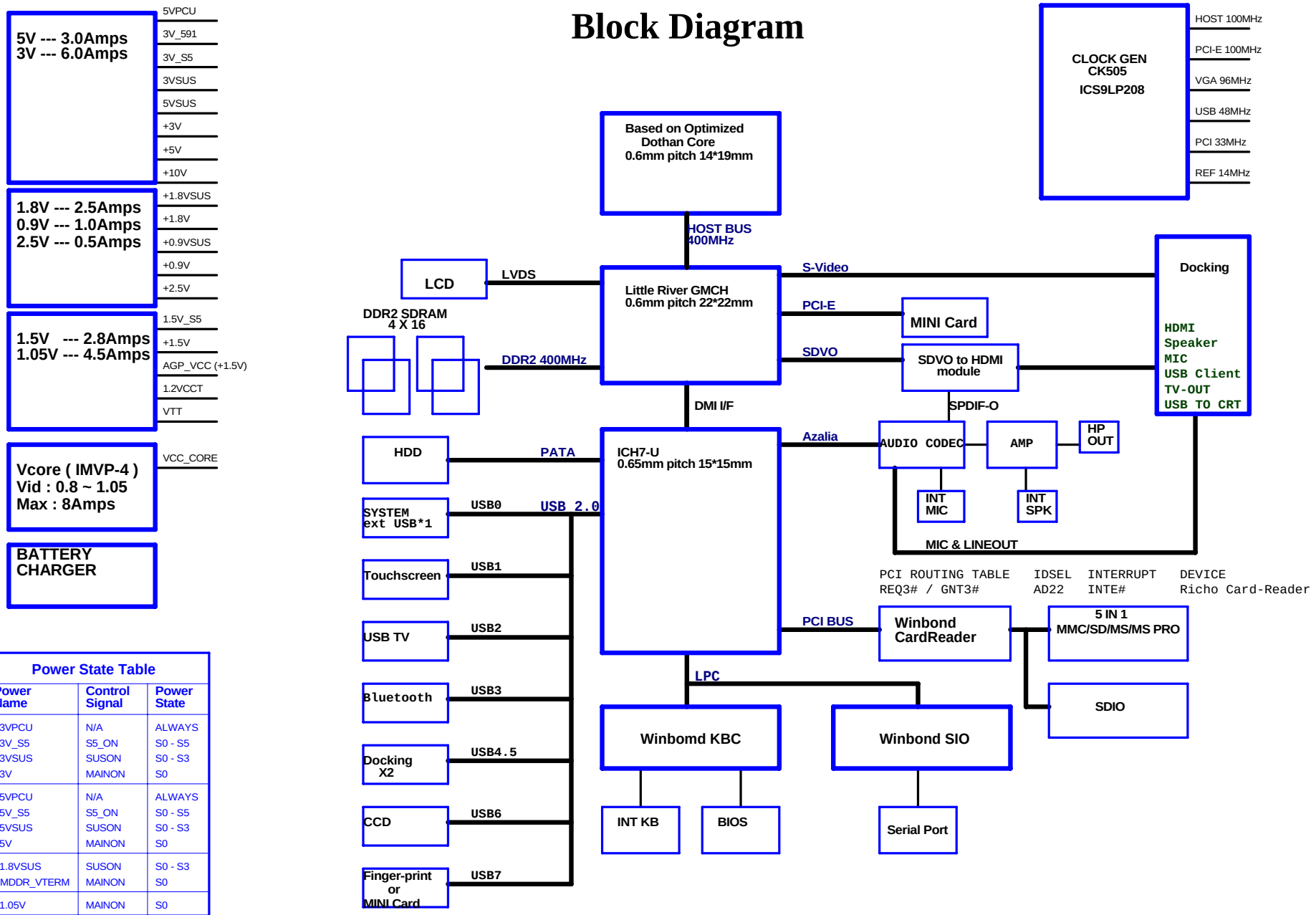
Block Diagram

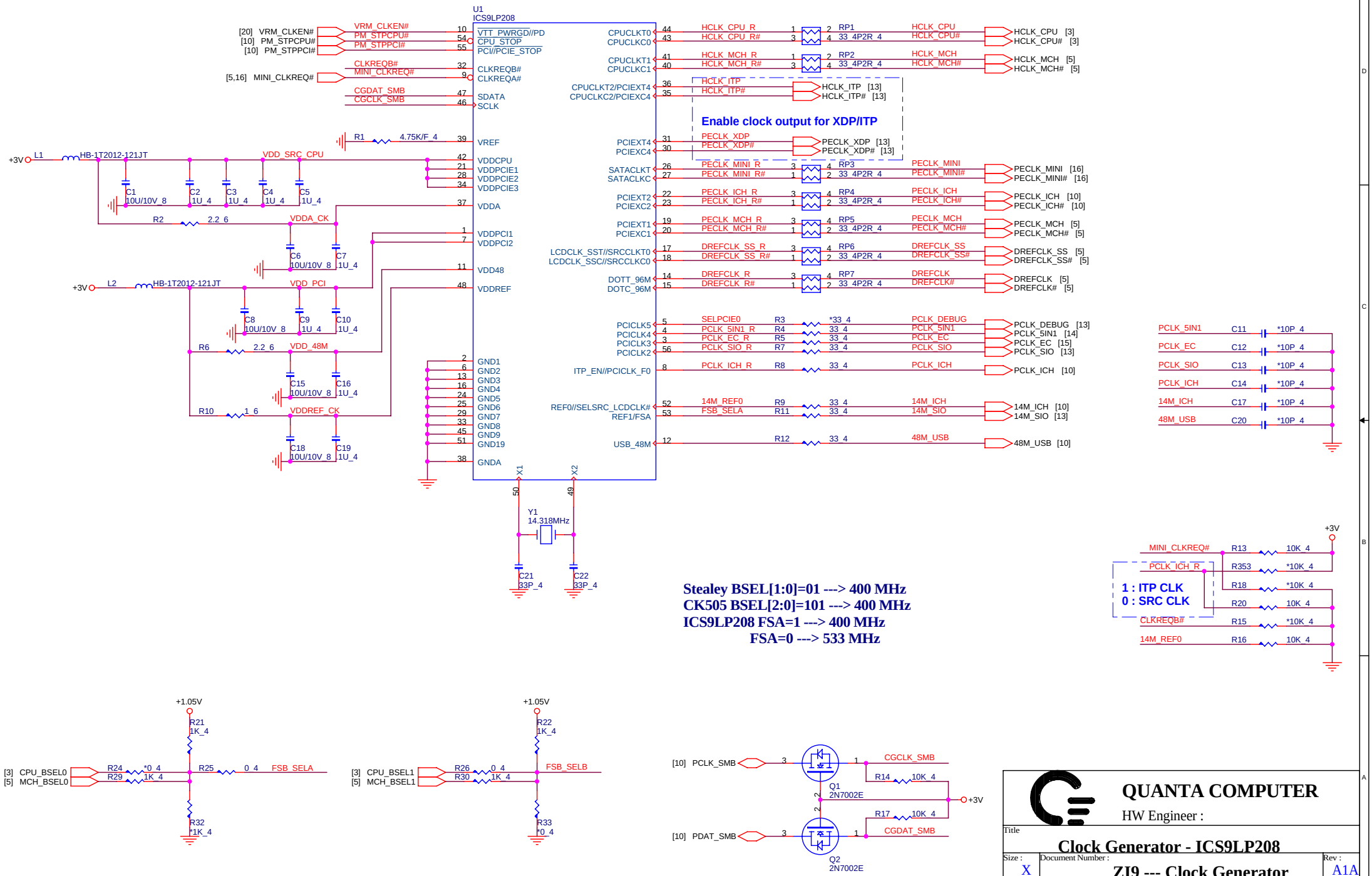


Power State Table

Power Name	Control Signal	Power State
+3VPCU +3V_S5 +3VSUS +3V	N/A S5_ON SUSON MAINON	ALWAYS S0 - S5 S0 - S3 S0
+5VPCU +5V_S5 +5VSUS +5V	N/A S5_ON SUSON MAINON	ALWAYS S0 - S5 S0 - S3 S0
+1.8VSUS SMDDR_VTERM	SUSON MAINON	S0 - S3 S0
+1.05V	MAINON	S0
+1.5V	MAINON	S0
+2.5V	MAINON	S0
+VCC_CORE	VRON	S0

QUANTA COMPUTER
HW Engineer :

Title: Block Diagram
Size: X | Document Number: ZI9 --- Block Diagram | Rev: A1A
Date: Monday, August 21, 2006 | Sheet 1 of 22



QUANTA COMPUTER

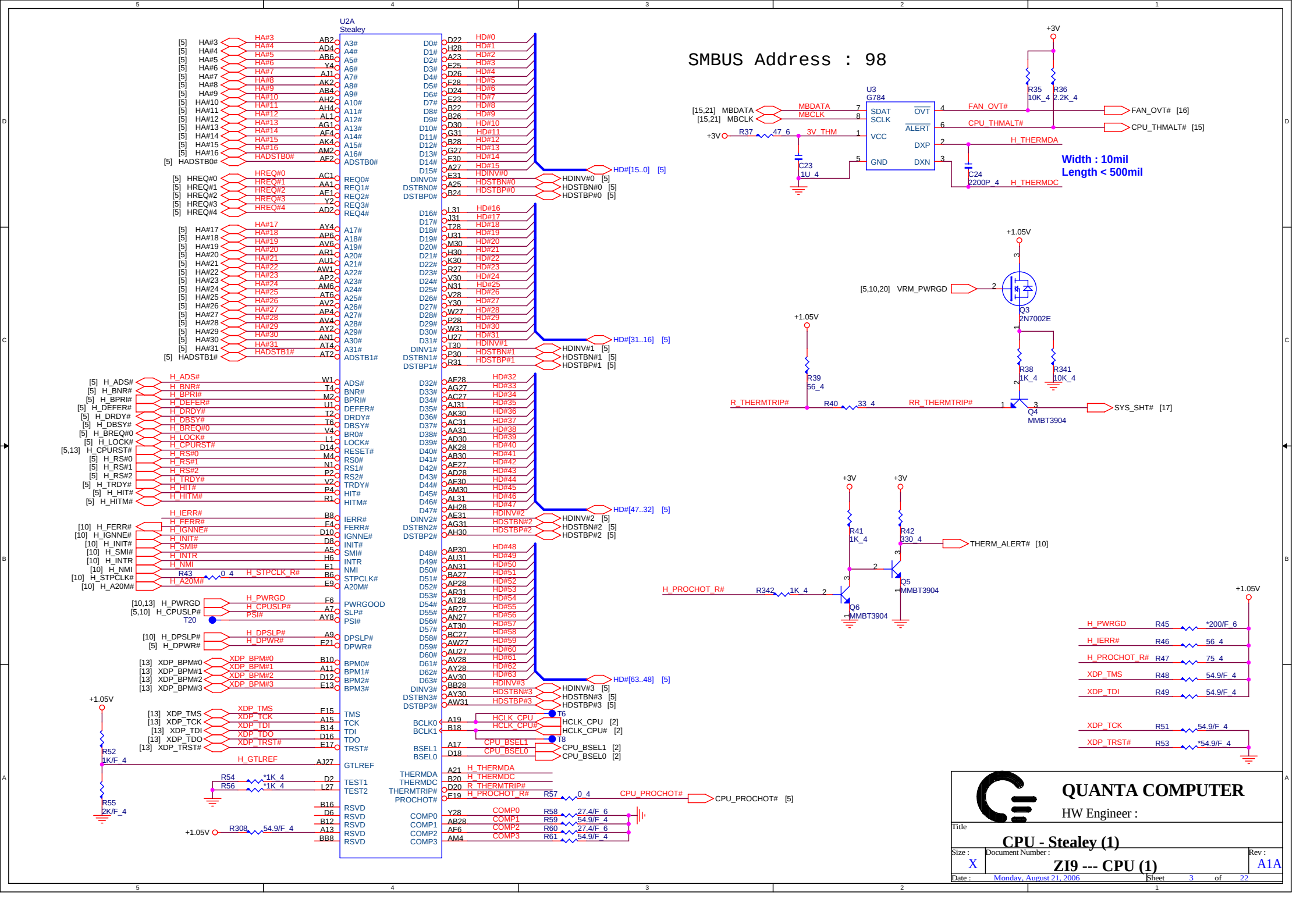
HW Engineer :

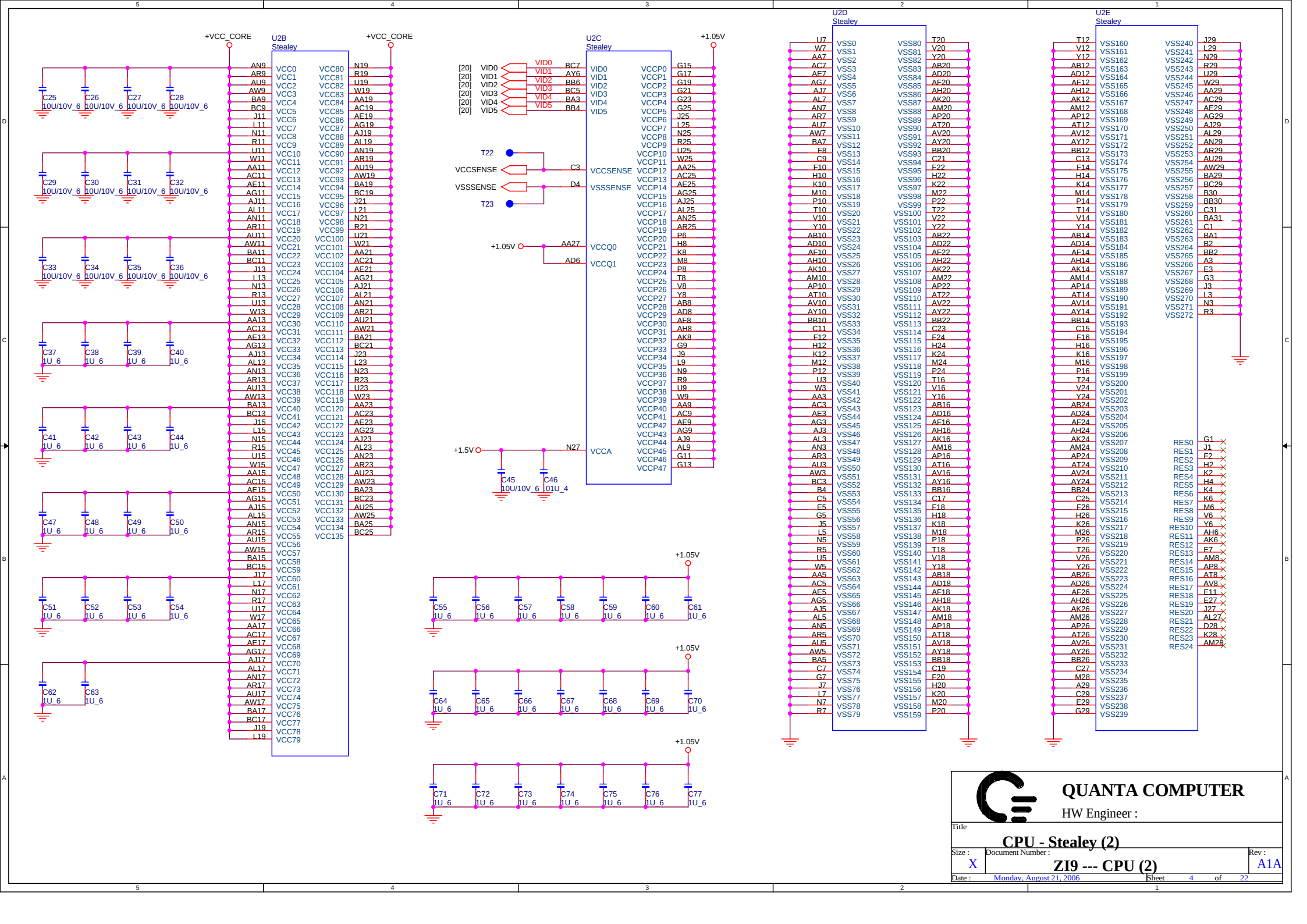
Title

Clock Generator - ICS9LP208

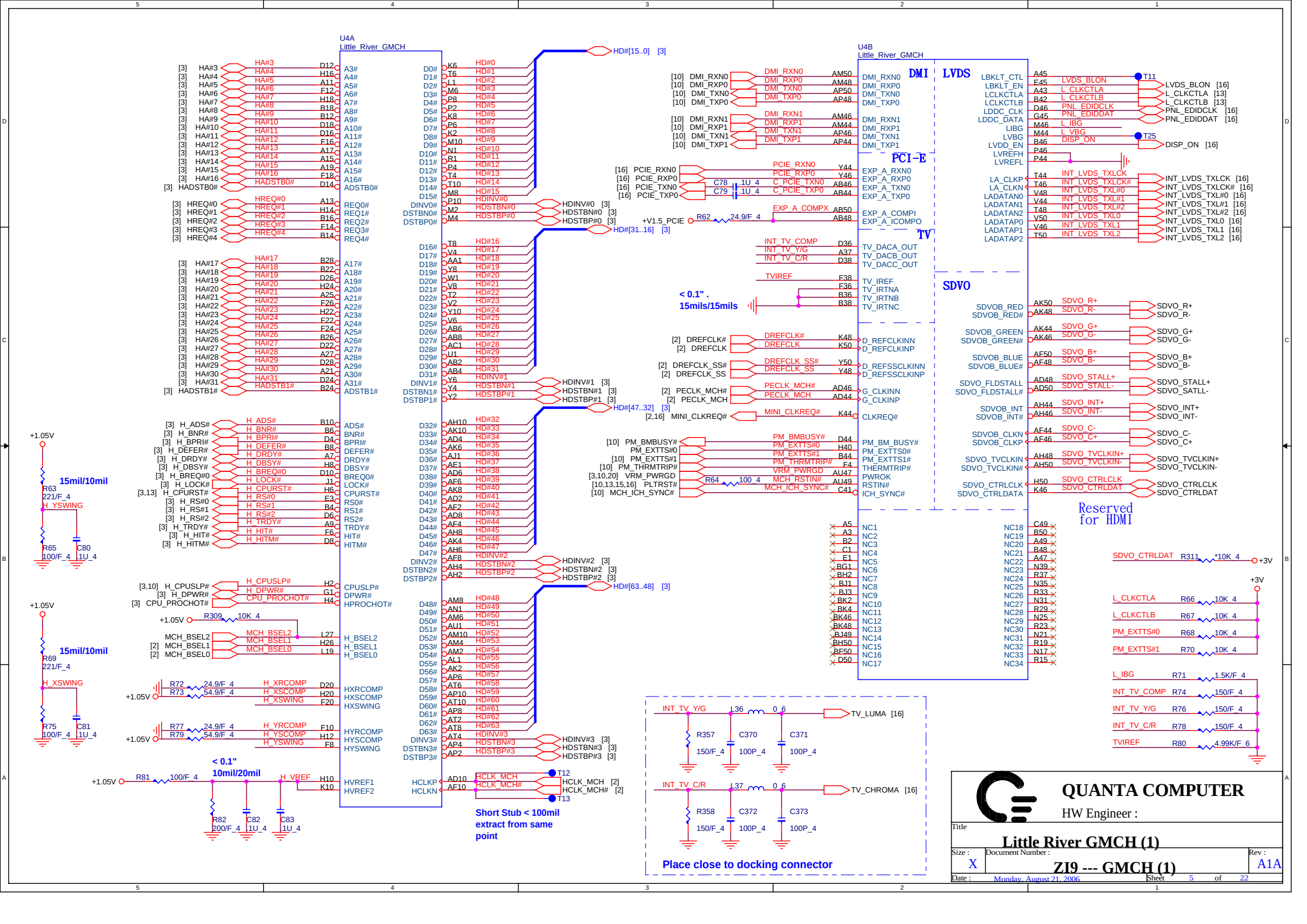
Size :	Document Number :	Rev :
X	ZI9 --- Clock Generator	A1A

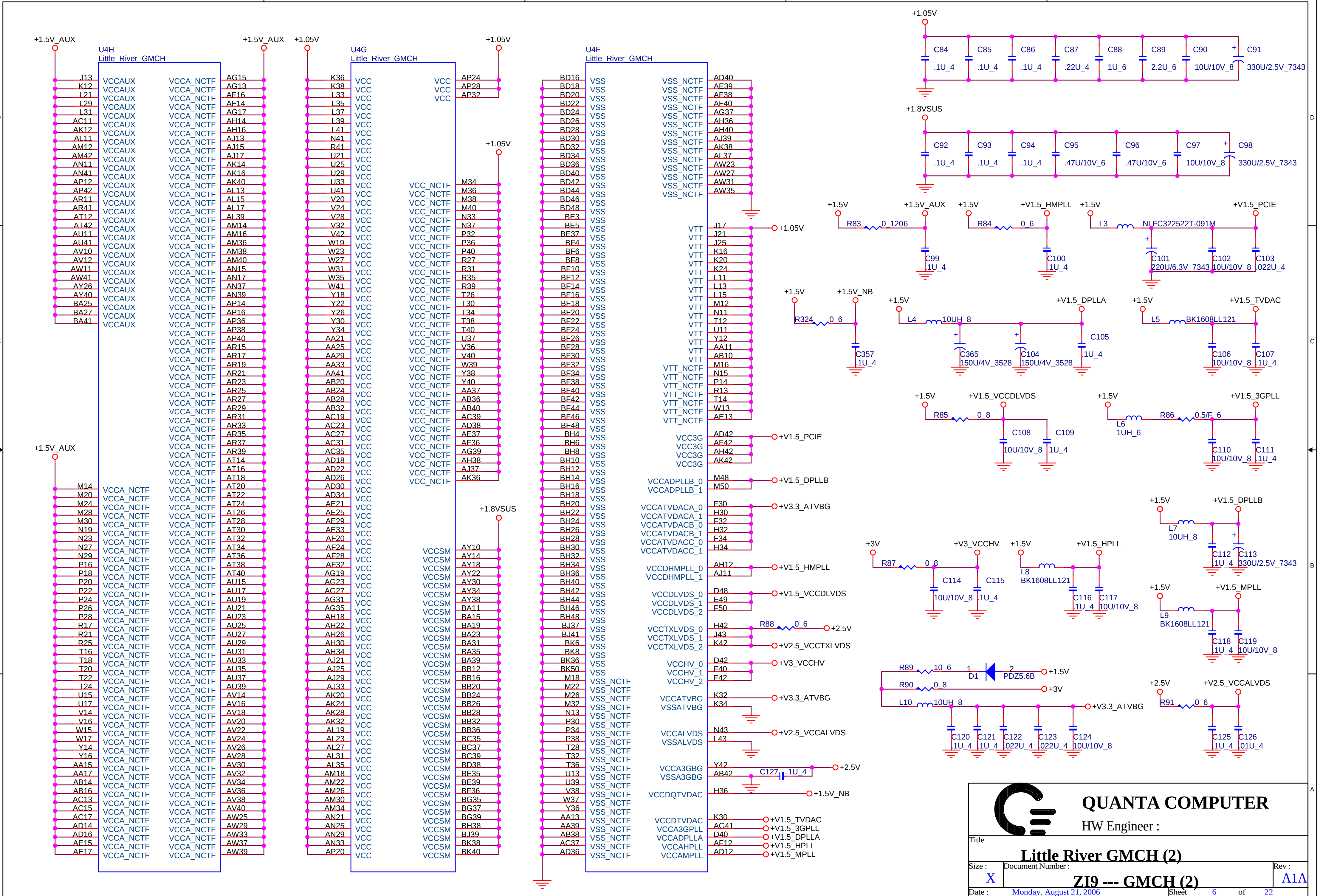
Date : Monday, August 21, 2006 Sheet 2 of 22


U2A
Stealey
SMBUS Address : 98
U3
G784
SDAT
SCLK
VCC
GND
OVT
ALERT
DXP
DXN
Width : 10mil
Length < 500mil
Q3
2N7002E
Q4
MMBT3904
Q5
MMBT3904
Q6
MMBT3904
QUANTA COMPUTER
HW Engineer :
Title
CPU - Stealey (1)
Size :
X
Document Number :
ZI9 --- CPU (1)
Rev :
A1A
Date :
Monday, August 21, 2006
Sheet
3
of
22



Company	QUANTA COMPUTER
HW Engineer	
Title	CPU - Stealey (2)
Size	X
Document Number	ZI9 --- CPU (2)
Rev	A1A
Date	Monday, August 21, 2006
Sheet	4 of 22


U4A
Little_River_GMCH
U4B
Little_River_GMCH
DMI
PCI-E
LVDS
TV
SDVO
Reserved for HDMI
< 0.1" .
15mils/15mils
< 0.1"
10mil/20mil
Short Stub < 100mil
extract from same point
Place close to docking connector
QUANTA COMPUTER
HW Engineer :
Title
Little River GMCH (1)
Size : X
Document Number :
ZJ9 --- GMCH (1)
Rev : A1A
Date : Monday, August 21, 2006
Sheet 5 of 22



QUANTA COMPUTER

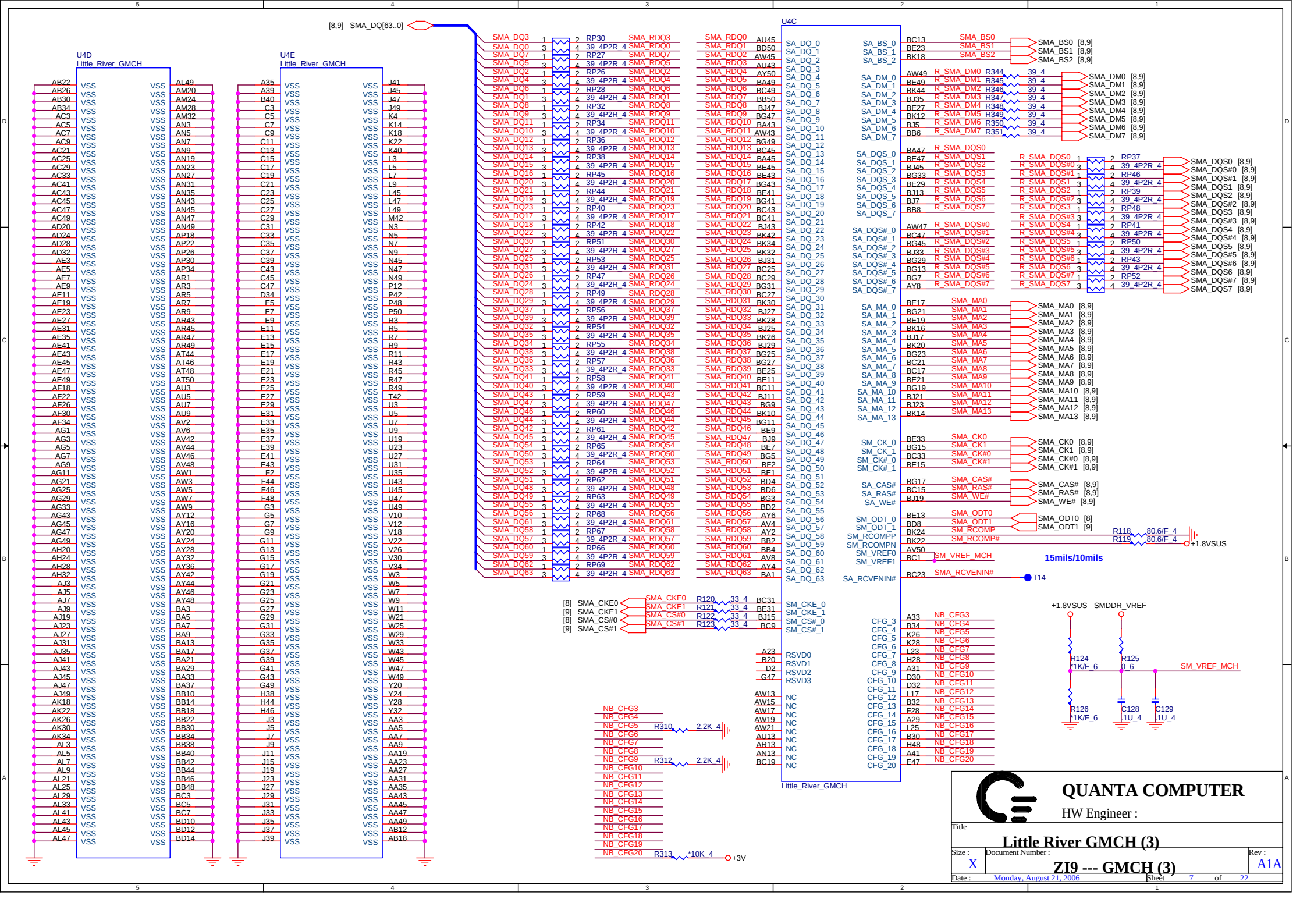
HW Engineer :

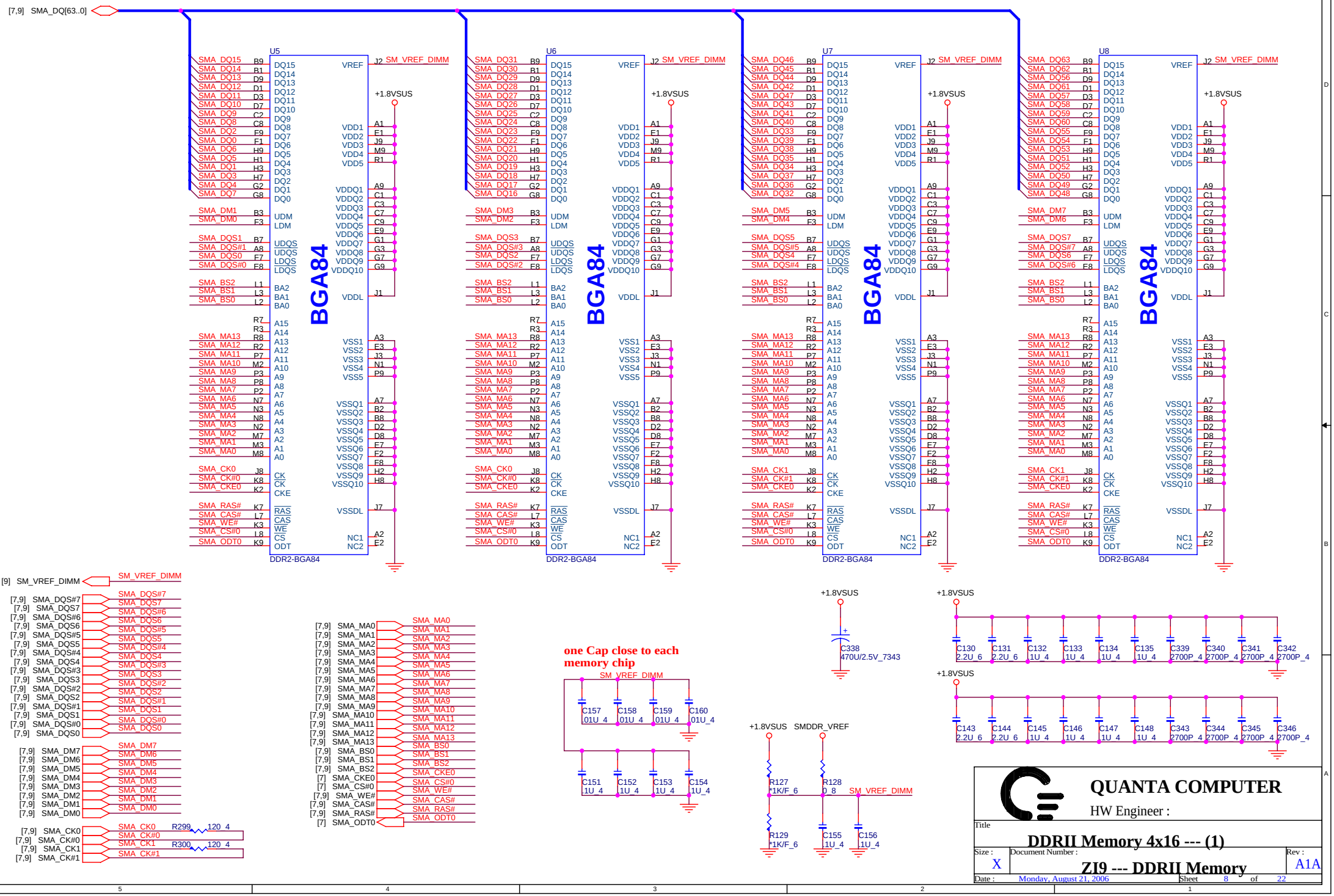
Title

Little River GMCH (2)

Size :	Document Number :	Rev :
X	ZI9 --- GMCH (2)	A1A

Date : Monday, August 21, 2006 Sheet 6 of 22


[8,9] SMA_DQ[63..0]
U4D
Little_River_GMCH
U4E
Little_River_GMCH
U4C
Little_River_GMCH
SMA_DQ3
SMA_DQ0
SMA_DQ7
SMA_DQ5
SMA_DQ2
SMA_DQ4
SMA_DQ6
SMA_DQ1
SMA_DQ8
SMA_DQ9
SMA_DQ11
SMA_DQ10
SMA_DQ12
SMA_DQ13
SMA_DQ14
SMA_DQ15
SMA_DQ16
SMA_DQ20
SMA_DQ21
SMA_DQ19
SMA_DQ23
SMA_DQ17
SMA_DQ18
SMA_DQ22
SMA_DQ30
SMA_DQ27
SMA_DQ25
SMA_DQ31
SMA_DQ26
SMA_DQ24
SMA_DQ28
SMA_DQ29
SMA_DQ37
SMA_DQ39
SMA_DQ32
SMA_DQ35
SMA_DQ34
SMA_DQ38
SMA_DQ36
SMA_DQ33
SMA_DQ41
SMA_DQ40
SMA_DQ43
SMA_DQ47
SMA_DQ46
SMA_DQ44
SMA_DQ42
SMA_DQ45
SMA_DQ54
SMA_DQ50
SMA_DQ53
SMA_DQ52
SMA_DQ51
SMA_DQ48
SMA_DQ49
SMA_DQ55
SMA_DQ56
SMA_DQ61
SMA_DQ58
SMA_DQ57
SMA_DQ60
SMA_DQ59
SMA_DQ62
SMA_DQ63
RP30
RP27
RP26
RP28
RP32
RP34
RP36
RP38
RP45
RP44
RP40
RP42
RP51
RP53
RP56
RP54
RP55
RP57
RP58
RP59
RP60
RP61
RP65
RP63
RP68
RP67
RP66
RP69
39_4P2R_4
SMA_RDQ0
SMA_RDQ1
SMA_RDQ2
SMA_RDQ3
SMA_RDQ4
SMA_RDQ5
SMA_RDQ6
SMA_RDQ7
SMA_RDQ8
SMA_RDQ9
SMA_RDQ10
SMA_RDQ11
SMA_RDQ12
SMA_RDQ13
SMA_RDQ14
SMA_RDQ15
SMA_RDQ16
SMA_RDQ17
SMA_RDQ18
SMA_RDQ19
SMA_RDQ20
SMA_RDQ21
SMA_RDQ22
SMA_RDQ23
SMA_RDQ24
SMA_RDQ25
SMA_RDQ26
SMA_RDQ27
SMA_RDQ28
SMA_RDQ29
SMA_RDQ30
SMA_RDQ31
SMA_RDQ32
SMA_RDQ33
SMA_RDQ34
SMA_RDQ35
SMA_RDQ36
SMA_RDQ37
SMA_RDQ38
SMA_RDQ39
SMA_RDQ40
SMA_RDQ41
SMA_RDQ42
SMA_RDQ43
SMA_RDQ44
SMA_RDQ45
SMA_RDQ46
SMA_RDQ47
SMA_RDQ48
SMA_RDQ49
SMA_RDQ50
SMA_RDQ51
SMA_RDQ52
SMA_RDQ53
SMA_RDQ54
SMA_RDQ55
SMA_RDQ56
SMA_RDQ57
SMA_RDQ58
SMA_RDQ59
SMA_RDQ60
SMA_RDQ61
SMA_RDQ62
SMA_RDQ63
SA_DQ_0 ... SA_DQ_63
SA_BS_0
SA_BS_1
SA_BS_2
SA_DM_0 ... SA_DM_7
SA_DQS_0 ... SA_DQS_7
SA_DQS#_0 ... SA_DQS#_7
SA_MA_0 ... SA_MA_13
SM_CK_0
SM_CK_1
SM_CK#_0
SM_CK#_1
SA_CAS#
SA_RAS#
SA_WE#
SM_ODT_0
SM_ODT_1
SM_RCOMPP
SM_RCOMPN
SM_VREF0
SM_VREF1
SA_RCVENIN#
SM_CKE_0
SM_CKE_1
SM_CS#_0
SM_CS#_1
RSVD0
RSVD1
RSVD2
RSVD3
NC
SMA_BS0
SMA_BS1
SMA_BS2
R_SMA_DM0 ... R_SMA_DM7
R344 ... R351
39_4
R_SMA_DQS0 ... R_SMA_DQS7
R_SMA_DQS#0 ... R_SMA_DQS#7
RP37
RP46
RP39
RP48
RP41
RP50
RP43
RP52
SMA_MA0 ... SMA_MA13
SMA_CK0
SMA_CK1
SMA_CK#0
SMA_CK#1
SMA_CAS#
SMA_RAS#
SMA_WE#
SMA_ODT0
SMA_ODT1
SM_RCOMP
SM_RCOMP#
R118 80.6/F_4
R119 80.6/F_4
+1.8VSUS
SM_VREF_MCH
15mils/10mils
T14
[8] SMA_CKE0
[9] SMA_CKE1
[8] SMA_CS#0
[9] SMA_CS#1
SMA_CKE0
SMA_CKE1
SMA_CS#0
SMA_CS#1
R120 33_4
R121 33_4
R122 33_4
R123 33_4
NB_CFG3 ... NB_CFG20
CFG_3 ... CFG_20
R310 2.2K_4
R312 2.2K_4
R313 *10K_4
+3V
+1.8VSUS
SMDDR_VREF
R124 *1K/F_6
R125 0_6
R126 *1K/F_6
C128 1U_4
C129 1U_4
SM_VREF_MCH
QUANTA COMPUTER
HW Engineer :
Title
Little River GMCH (3)
Size : X
Document Number :
ZJ9 --- GMCH (3)
Rev : A1A
Date : Monday, August 21, 2006
Sheet 7 of 22



QUANTA COMPUTER

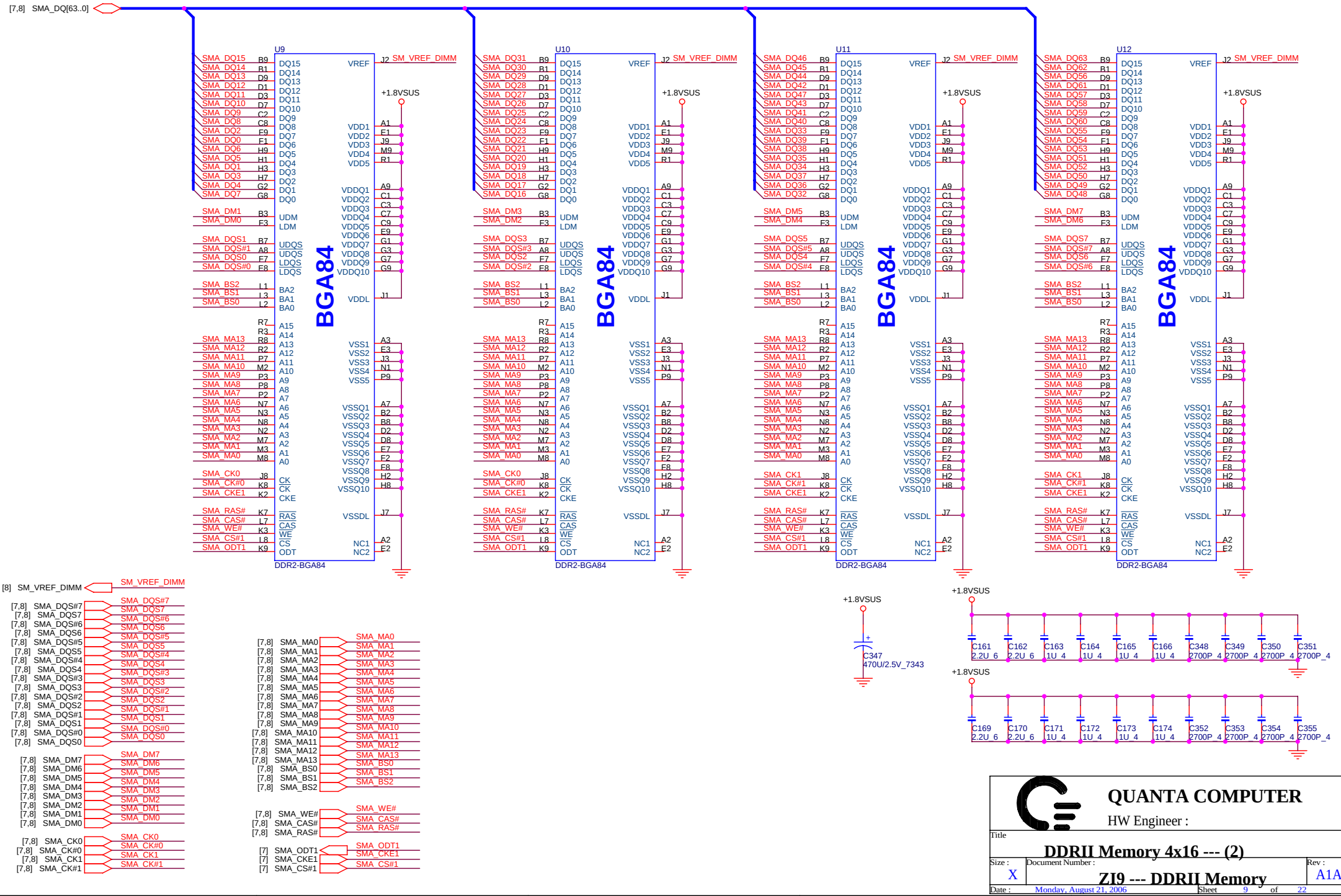
HW Engineer :

Title

DDRII Memory 4x16 --- (1)

Size :	Document Number :	Rev :
X	ZJ9 --- DDRII Memory	A1A

Date : Monday, August 21, 2006 Sheet 8 of 22



QUANTA COMPUTER

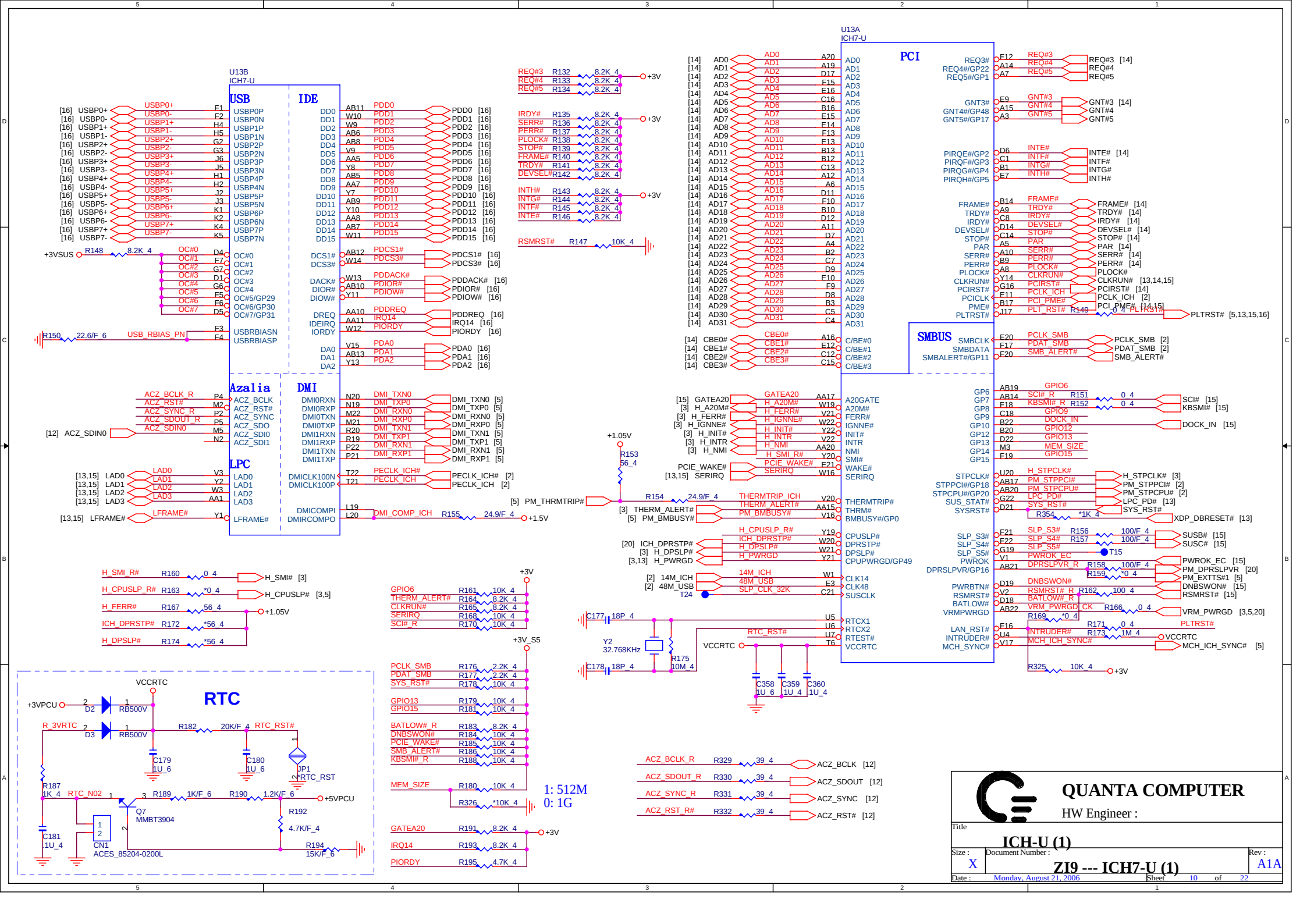
HW Engineer :

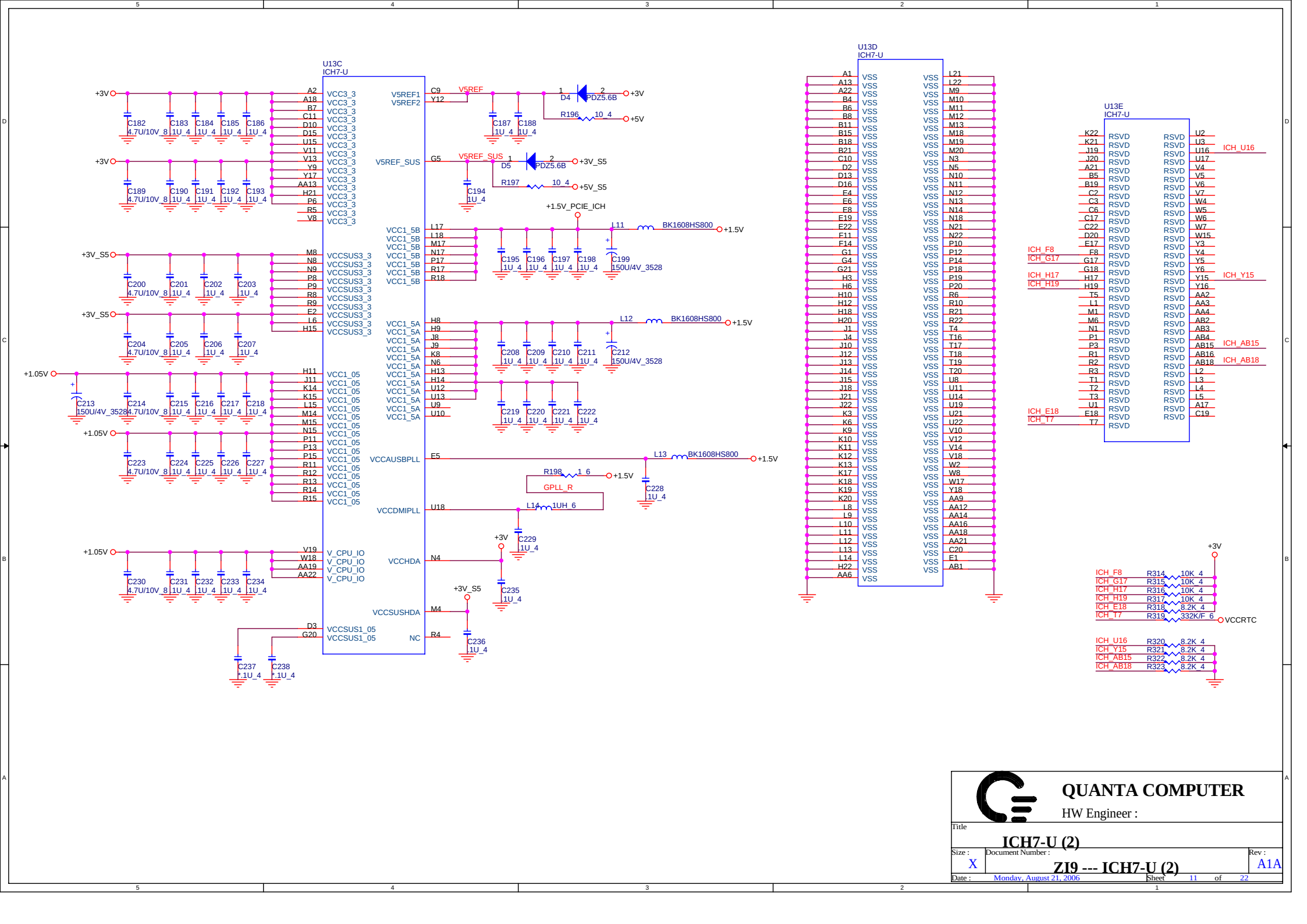
Title

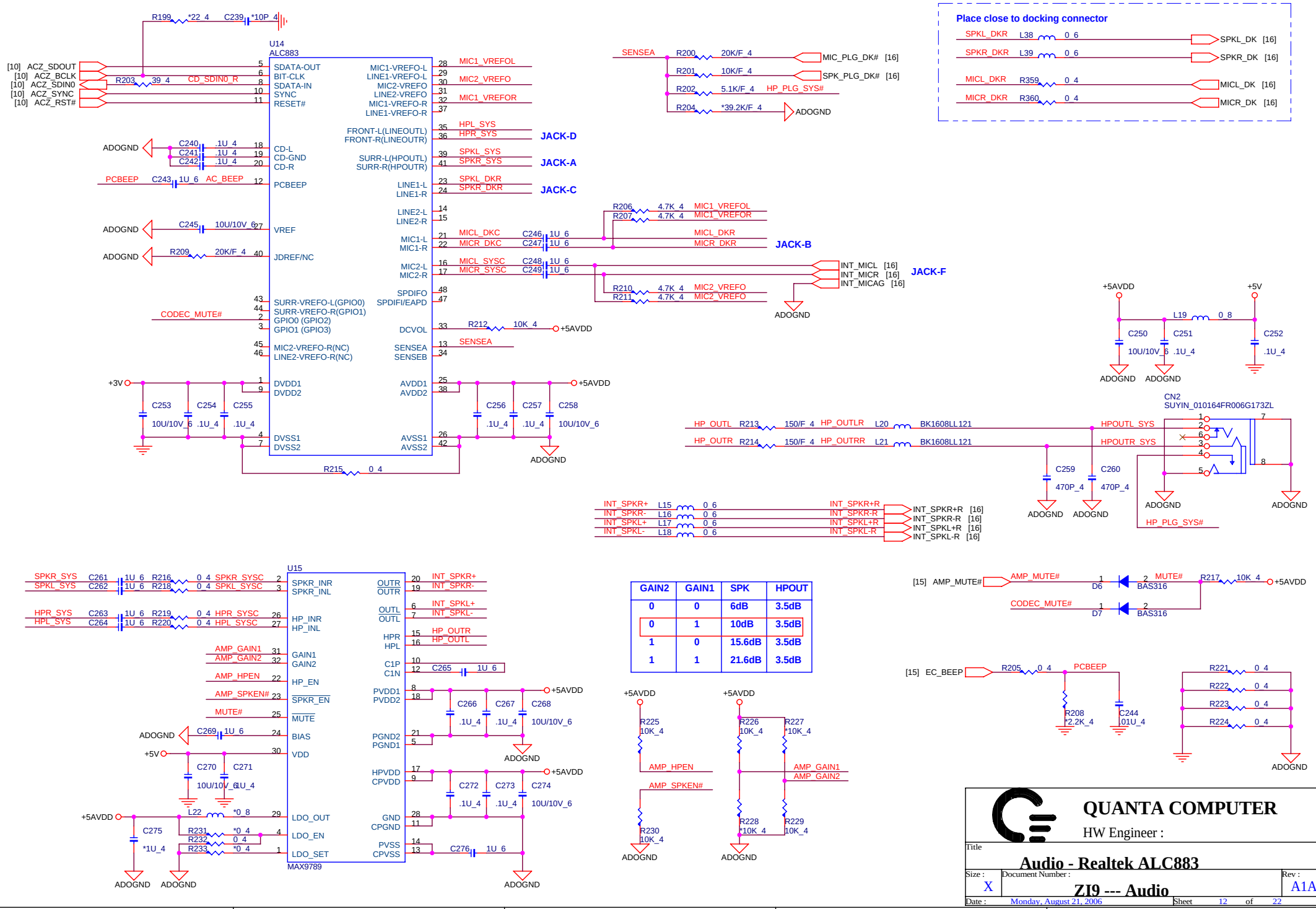
DDRII Memory 4x16 --- (2)

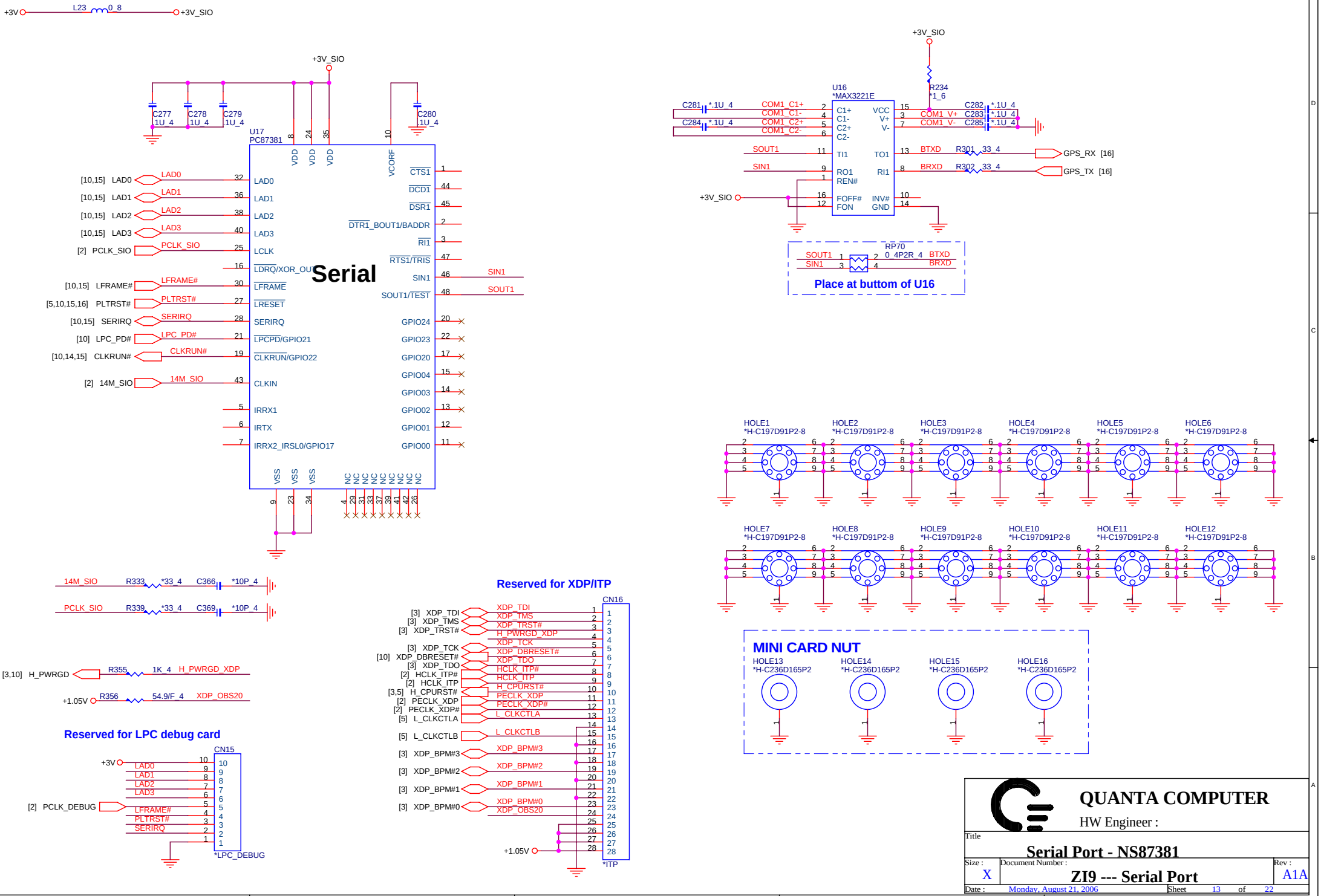
Size :	Document Number :	Rev :
X	ZJ9 --- DDRII Memory	A1A

Date : Monday, August 21, 2006 Sheet 9 of 22

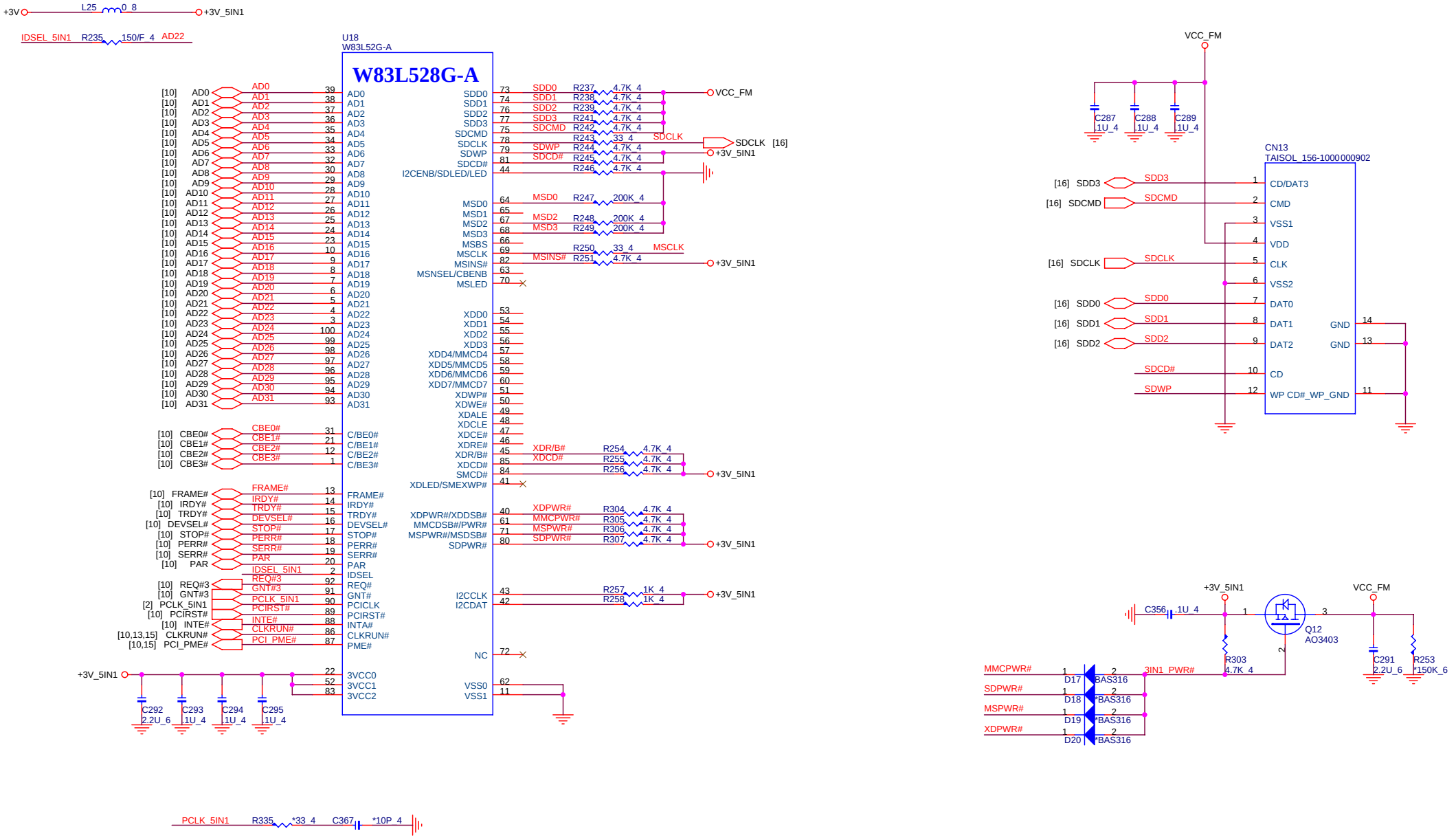

U13B
ICH7-U
USB
IDE
Azalia
DMI
LPC
U13A
ICH7-U
PCI
SMBUS
RTC
QUANTA COMPUTER
HW Engineer :
Title
ICH-U (1)
Size : X
Document Number :
ZJ9 --- ICH7-U (1)
Rev : A1A
Date : Monday, August 21, 2006
Sheet 10 of 22


U13C
ICH7-U
U13D
ICH7-U
U13E
ICH7-U
QUANTA COMPUTER
HW Engineer :
Title
ICH7-U (2)
Size : X
Document Number :
ZJ9 --- ICH7-U (2)
Rev : A1A
Date : Monday, August 21, 2006
Sheet 11 of 22

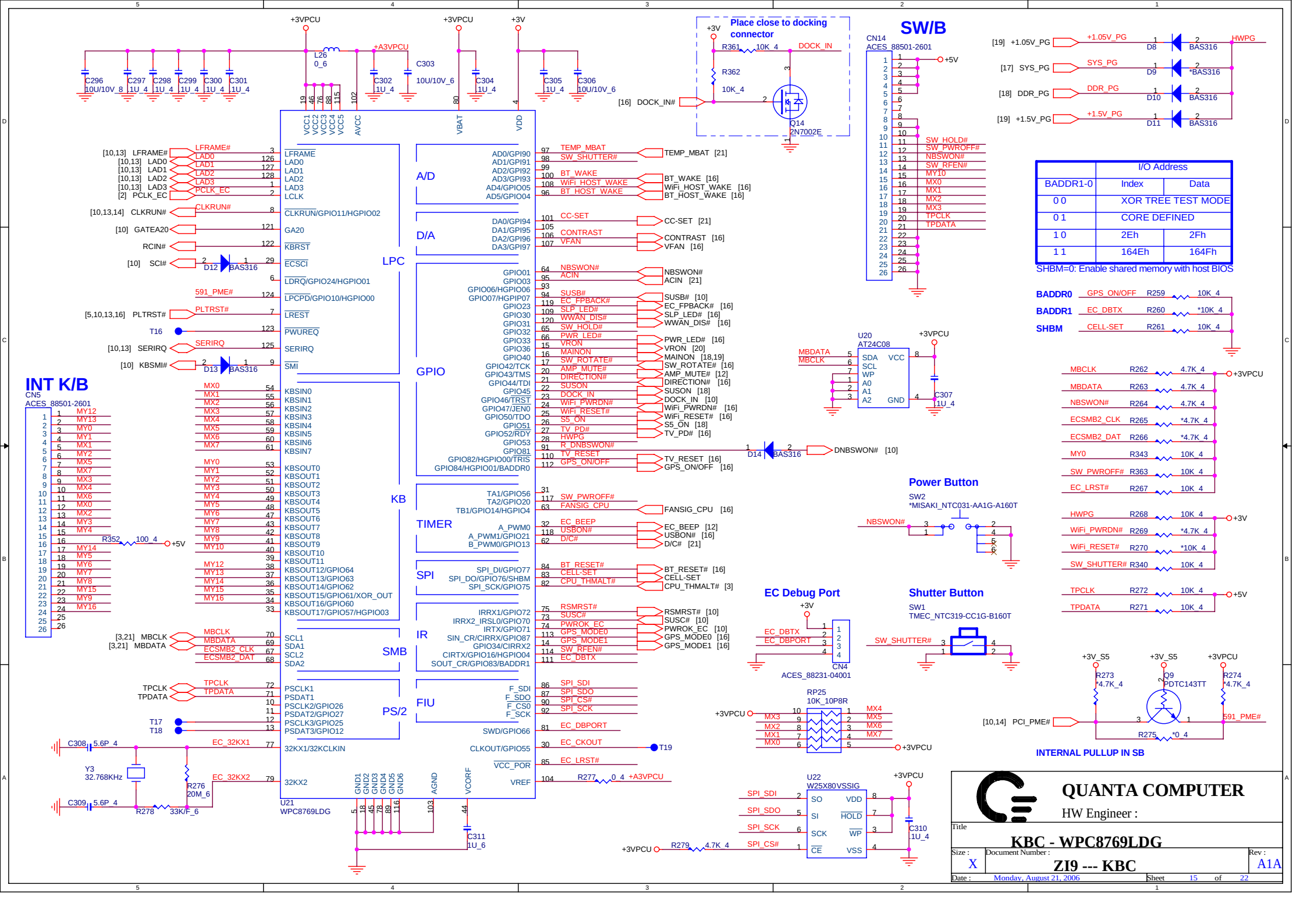

Place close to docking connector
SPKL_DKR L38 0_6 SPKL_DK [16]
SPKR_DKR L39 0_6 SPKR_DK [16]
MICL_DKR R359 0_4 MICL_DK [16]
MICR_DKR R360 0_4 MICR_DK [16]
U14
ALC883
SDATA-OUT
BIT-CLK
SDATA-IN
SYNC
RESET#
CD-L
CD-GND
CD-R
PCBEEP
VREF
JDREF/NC
SURR-VREFO-L(GPIO0)
SURR-VREFO-R(GPIO1)
GPIO0 (GPIO2)
GPIO1 (GPIO3)
MIC2-VREFO-R(NC)
LINE2-VREFO-R(NC)
DVDD1
DVDD2
DVSS1
DVSS2
MIC1-VREFO-L
LINE1-VREFO-L
MIC2-VREFO
LINE2-VREFO
MIC1-VREFO-R
LINE1-VREFO-R
FRONT-L(LINEOUTL)
FRONT-R(LINEOUTR)
SURR-L(HPOUTL)
SURR-R(HPOUTR)
LINE1-L
LINE1-R
LINE2-L
LINE2-R
MIC1-L
MIC1-R
MIC2-L
MIC2-R
SPDIFO
SPDIFI/EAPD
DCVOL
SENSEA
SENSEB
AVDD1
AVDD2
AVSS1
AVSS2
JACK-D
JACK-A
JACK-C
JACK-B
JACK-F
SENSEA
R200 20K/F_4 MIC_PLG_DK# [16]
R201 10K/F_4 SPK_PLG_DK# [16]
R202 5.1K/F_4 HP_PLG_SYS#
R204 *39.2K/F_4 ADOGND
+5AVDD
+5V
L19 0_8
C250 10U/10V_6
C251 .1U_4
C252 .1U_4
CN2
SUYIN_010164FR006G173ZL
HP_OUTL R213 150/F_4 HP_OUTLR L20 BK1608LL121
HP_OUTR R214 150/F_4 HP_OUTRR L21 BK1608LL121
HPOUTL_SYS
HPOUTR_SYS
C259 470P_4
C260 470P_4
HP_PLG_SYS#
INT_SPKR+ L15 0_6 INT_SPKR+R
INT_SPKR- L16 0_6 INT_SPKR-R
INT_SPKL+ L17 0_6 INT_SPKL+R
INT_SPKL- L18 0_6 INT_SPKL-R
INT_SPKR+R [16]
INT_SPKR-R [16]
INT_SPKL+R [16]
INT_SPKL-R [16]
INT_MICL [16]
INT_MICR [16]
INT_MICAG [16]
R199 *22_4
C239 *10P_4
R203 39_4 CD_SDIN0_R
[10] ACZ_SDOUT
[10] ACZ_BCLK
[10] ACZ_SDIN0
[10] ACZ_SYNC
[10] ACZ_RST#
C240 .1U_4
C241 .1U_4
C242 .1U_4
C243 1U_6 AC_BEEP
C245 10U/10V_6
R209 20K/F_4
CODEC_MUTE#
R212 10K_4
C253 10U/10V_6
C254 .1U_4
C255 .1U_4
C256 .1U_4
C257 .1U_4
C258 10U/10V_6
R215 0_4
R206 4.7K_4 MIC1_VREFOL
R207 4.7K_4 MIC1_VREFOR
MICL_DKC C246 1U_6 MICL_DKR
MICR_DKC C247 1U_6 MICR_DKR
MICL_SYSC C248 1U_6
MICR_SYSC C249 1U_6
R210 4.7K_4 MIC2_VREFO
R211 4.7K_4 MIC2_VREFO
HPL_SYS
HPR_SYS
SPKL_SYS
SPKR_SYS
SPKL_DKR
SPKR_DKR
U15
MAX9789
SPKR_INR
SPKR_INL
HP_INR
HP_INL
GAIN1
GAIN2
HP_EN
SPKR_EN
MUTE
BIAS
VDD
LDO_OUT
LDO_EN
LDO_SET
OUTR
OUTL
HPR
HPL
C1P
C1N
PVDD1
PVDD2
PGND2
PGND1
HPVDD
CPVDD
GND
CPGND
PVSS
CPVSS
SPKR_SYS C261 1U_6 R216 0_4 SPKR_SYSC
SPKL_SYS C262 1U_6 R218 0_4 SPKL_SYSC
HPR_SYS C263 1U_6 R219 0_4 HPR_SYSC
HPL_SYS C264 1U_6 R220 0_4 HPL_SYSC
AMP_GAIN1
AMP_GAIN2
AMP_HPEN
AMP_SPKEN#
MUTE#
C269 1U_6
C270 10U/10V_6
C271 1U_4
L22 *0_8
C275 *1U_4
R231 *0_4
R232 0_4
R233 *0_4
C265 1U_6
C266 .1U_4
C267 .1U_4
C268 10U/10V_6
C272 .1U_4
C273 .1U_4
C274 10U/10V_6
C276 1U_6
INT_SPKR+
INT_SPKR-
INT_SPKL+
INT_SPKL-
HP_OUTR
HP_OUTL
GAIN2 GAIN1 SPK HPOUT
0 0 6dB 3.5dB
0 1 10dB 3.5dB
1 0 15.6dB 3.5dB
1 1 21.6dB 3.5dB
R225 10K_4
R230 10K_4
R226 10K_4
R227 *10K_4
R228 *10K_4
R229 10K_4
[15] AMP_MUTE#
AMP_MUTE#
CODEC_MUTE#
D6 BAS316
D7 BAS316
MUTE#
R217 10K_4
[15] EC_BEEP
R205 0_4 PCBEEP
R208 2.2K_4
C244 .01U_4
R221 0_4
R222 0_4
R223 0_4
R224 0_4
QUANTA COMPUTER
HW Engineer :
Title
Audio - Realtek ALC883
Size : X
Document Number :
ZJ9 --- Audio
Rev : A1A
Date : Monday, August 21, 2006
Sheet 12 of 22

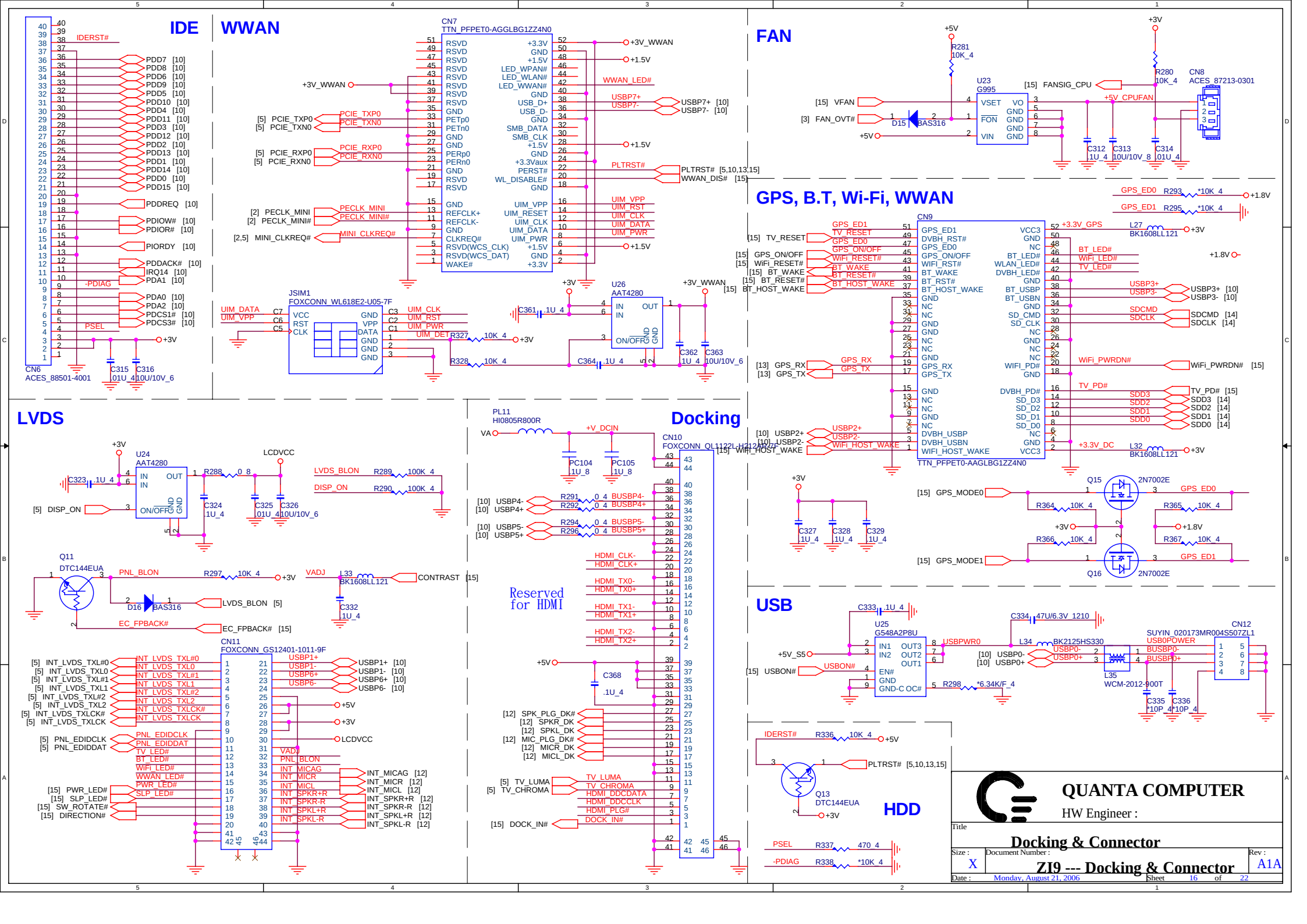


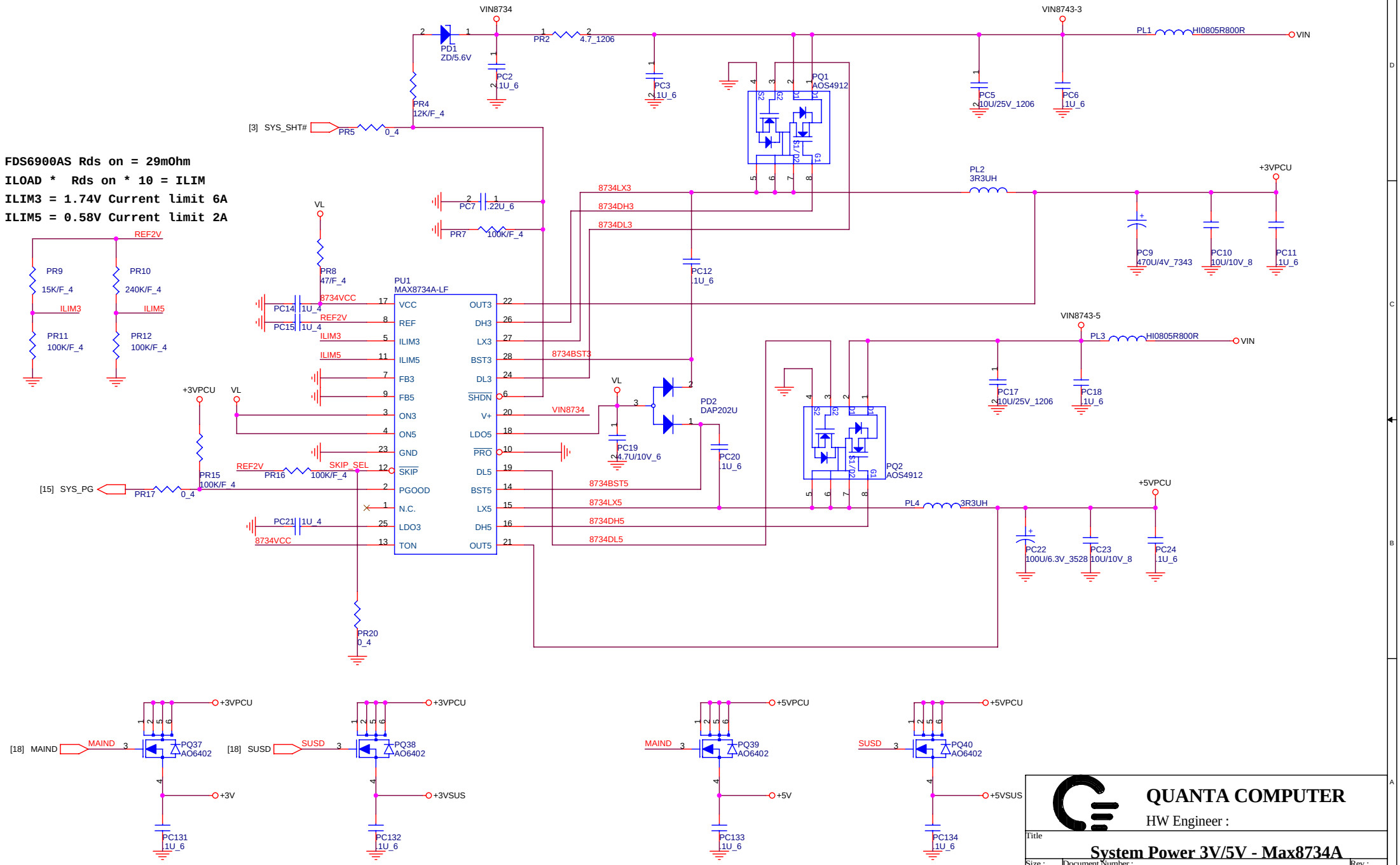
QUANTA COMPUTER	HW Engineer :	
Title	Serial Port - NS87381	
Size : X	Document Number : ZI9 --- Serial Port	Rev : A1A
Date : Monday, August 21, 2006	Sheet 13 of 22	



QUANTA COMPUTER		
HW Engineer :		
Title: 5 in 1 - W83L528G-A		
Size: X	Document Number: ZI9 --- 5 in 1 Card Reader	Rev: A1A
Date: Monday, August 21, 2006	Sheet 14 of 22	


INT K/B
CN5
ACES_88501-2601
SW/B
CN14
ACES_88501-2601
Place close to docking connector
U21
WPC8769LDG
LPC
A/D
D/A
GPIO
KB
TIMER
SPI
IR
SMB
PS/2
FIU
U20
AT24C08
U22
W25X80VSSIG
Power Button
SW2
*MISAKI_NTC031-AA1G-A160T
EC Debug Port
CN4
ACES_88231-04001
Shutter Button
SW1
TMEC_NTC319-CC1G-B160T
RP25
10K_10P8R
Y3
32.768KHz
Q14
2N7002E
Q9
PDTC143TT
BADDR0
BADDR1
SHBM
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 BIOS
INTERNAL PULLUP IN SB
QUANTA COMPUTER
HW Engineer :
KBC - WPC8769LDG
ZI9 --- KBC
A1A
Monday, August 21, 2006
15 of 22


IDE
WWAN
FAN
GPS, B.T, Wi-Fi, WWAN
LVDS
Docking
USB
HDD
CN6 ACES_88501-4001
CN7 TTN_PFPET0-AGGLBG1ZZ4N0
JSIM1 FOXCONN_WL618E2-U05-7F
U26 AAT4280
U23 G995
CN8 ACES_87213-0301
CN9 TTN_PFPET0-AAGLBG1ZZ4N0
U24 AAT4280
Q11 DTC144EUA
CN11 FOXCONN_GS12401-1011-9F
PL11 HI0805R800R
CN10 FOXCONN_QL1122L-H212A8ZZF
Reserved for HDMI
U25 G548A2P8U
CN12 SUYIN_020173MR004S507ZL1
Q13 DTC144EUA
QUANTA COMPUTER
HW Engineer :
Title
Docking & Connector
Size : X
Document Number : ZJ9 --- Docking & Connector
Rev : A1A
Date : Monday, August 21, 2006
Sheet 16 of 22


FDS6900AS Rds on = 29mOhm
ILOAD * Rds on * 10 = ILIM
ILIM3 = 1.74V Current limit 6A
ILIM5 = 0.58V Current limit 2A
VIN8734
VIN8743-3
VIN8743-5
PD1 ZD/5.6V
PR2 4.7_1206
PL1 HI0805R800R
PL2 3R3UH
PL3 HI0805R800R
PL4 3R3UH
PQ1 AOS4912
PQ2 AOS4912
PD2 DAP202U
PU1 MAX8734A-LF
VCC
REF
ILIM3
ILIM5
FB3
FB5
ON3
ON5
GND
SKIP
PGOOD
N.C.
LDO3
TON
OUT3
DH3
LX3
BST3
DL3
SHDN
V+
LDO5
PRO
DL5
BST5
LX5
DH5
OUT5
8734LX3
8734DH3
8734DL3
8734BST3
8734BST5
8734LX5
8734DH5
8734DL5
8734VCC
REF2V
VL
+3VPCU
+5VPCU
SKIP_SEL
[3] SYS_SHT#
[15] SYS_PG
[18] MAIND
[18] SUSD
PQ37 AO6402
PQ38 AO6402
PQ39 AO6402
PQ40 AO6402
+3V
+3VSUS
+5V
+5VSUS
QUANTA COMPUTER
HW Engineer :
System Power 3V/5V - Max8734A
ZI9 --- System Power 3V/5V
Size : X
Rev : A1A
Date : Monday, August 21, 2006
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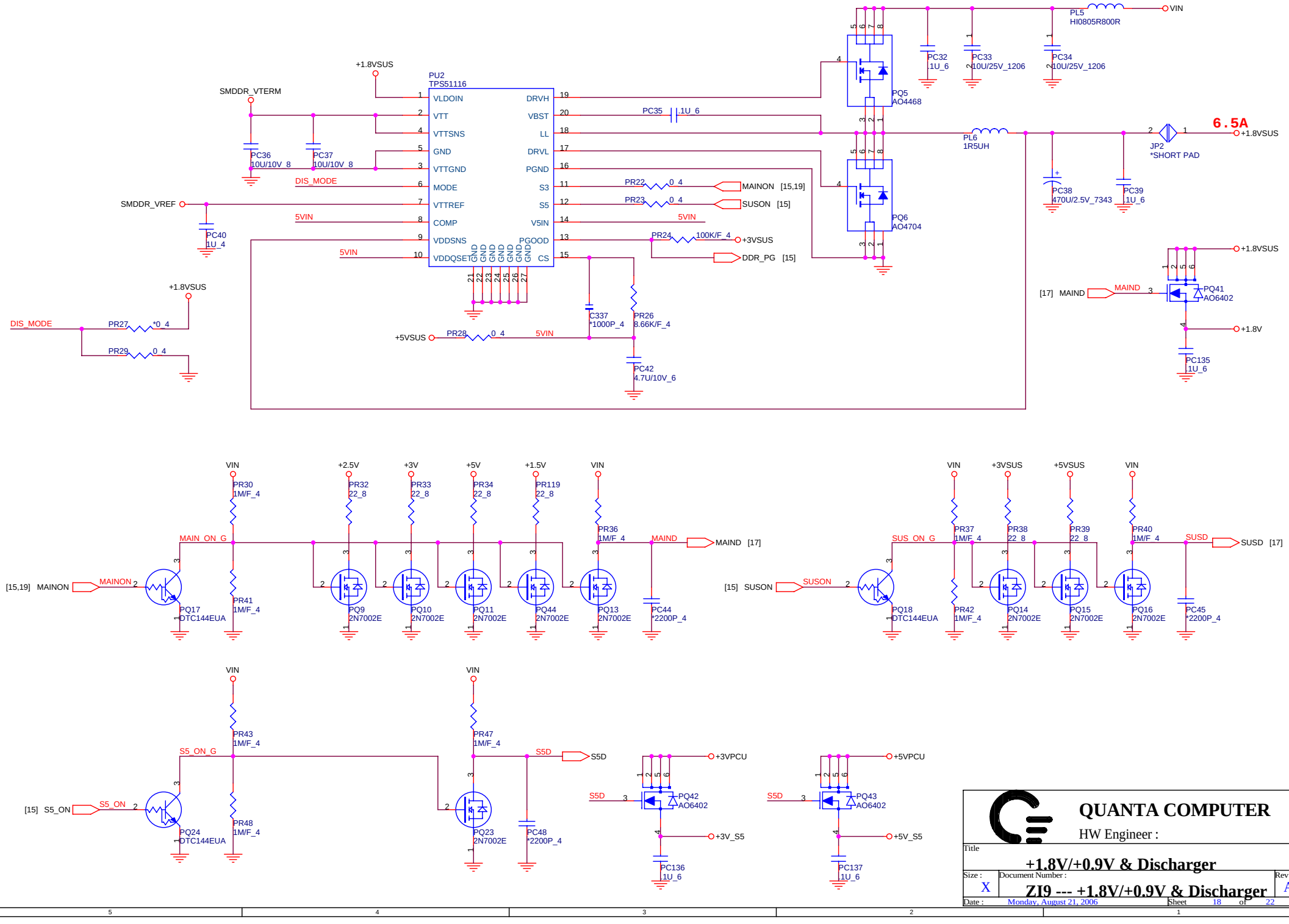
PU2
TPS51116
VLDOIN
VTT
VTTSNS
GND
VTTGND
MODE
VTTREF
COMP
VDDSNS
VDDQSET
DRVH
VBST
LL
DRVL
PGND
S3
S5
V5IN
PGOOD
CS
+1.8VSUS
SMDDR_VTERM
SMDDR_VREF
DIS_MODE
5VIN
PC36 10U/10V_8
PC37 10U/10V_8
PC40 1U_4
PC35 .1U_6
PR22 0_4
PR23 0_4
PR24 100K/F_4
MAINON [15,19]
SUSON [15]
+3VSUS
DDR_PG [15]
PQ5 AO4468
PQ6 AO4704
PL5 HI0805R800R
PL6 1R5UH
VIN
PC32 1U_6
PC33 10U/25V_1206
PC34 10U/25V_1206
PC38 470U/2.5V_7343
PC39 .1U_6
JP2 *SHORT PAD
6.5A
+1.8VSUS
PR27 *0_4
PR29 0_4
PR28 0_4
C337 *1000P_4
PR26 8.66K/F_4
PC42 4.7U/10V_6
+5VSUS
PQ41 AO6402
[17] MAIND
MAIND
+1.8V
PC135 1U_6
PR30 1M/F_4
PR32 22_8
PR33 22_8
PR34 22_8
PR119 22_8
PR36 1M/F_4
MAIN_ON_G
[15,19] MAINON
PQ17 DTC144EUA
PR41 1M/F_4
PQ9 2N7002E
PQ10 2N7002E
PQ11 2N7002E
PQ44 2N7002E
PQ13 2N7002E
PC44 *2200P_4
+2.5V
+3V
+5V
+1.5V
PR37 1M/F_4
PR38 22_8
PR39 22_8
PR40 1M/F_4
SUS_ON_G
[15] SUSON
PQ18 DTC144EUA
PR42 1M/F_4
PQ14 2N7002E
PQ15 2N7002E
PQ16 2N7002E
PC45 *2200P_4
+3VSUS
+5VSUS
SUSD [17]
PR43 1M/F_4
PR47 1M/F_4
S5_ON_G
[15] S5_ON
PQ24 DTC144EUA
PR48 1M/F_4
PQ23 2N7002E
PC48 *2200P_4
S5D
PQ42 AO6402
PQ43 AO6402
+3VPCU
+5VPCU
+3V_S5
+5V_S5
PC136 1U_6
PC137 1U_6
QUANTA COMPUTER
HW Engineer :
Title
+1.8V/+0.9V & Discharger
Size : X
Document Number :
ZJ9 --- +1.8V/+0.9V & Discharger
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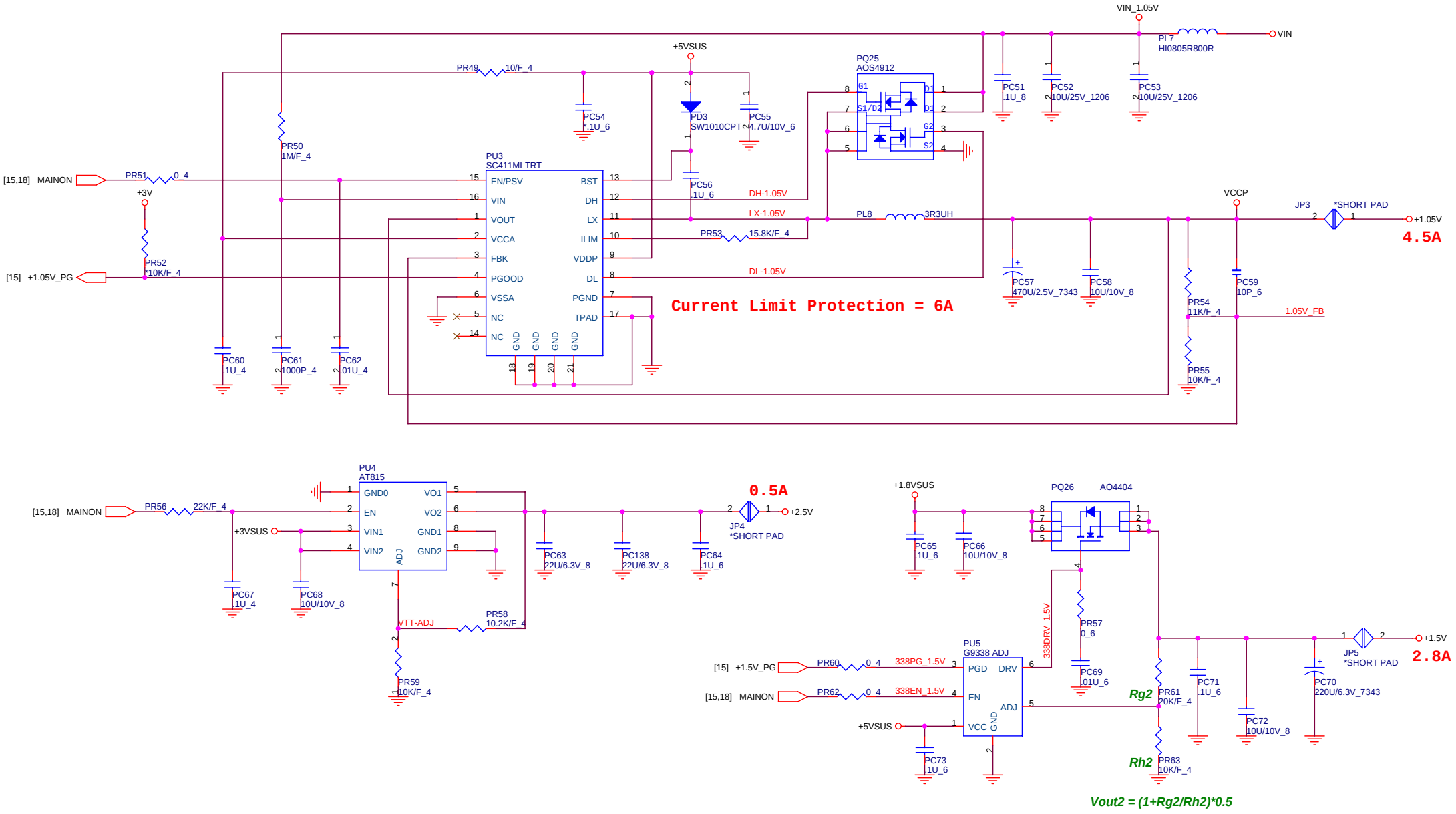

QUANTA COMPUTER

HW Engineer :

Title: **+1.5V/+1.05V/+2.5V**		
Size: X	Document Number: **ZI9 --- +1.5V/+1.05V/+2.5V**	Rev: A1A
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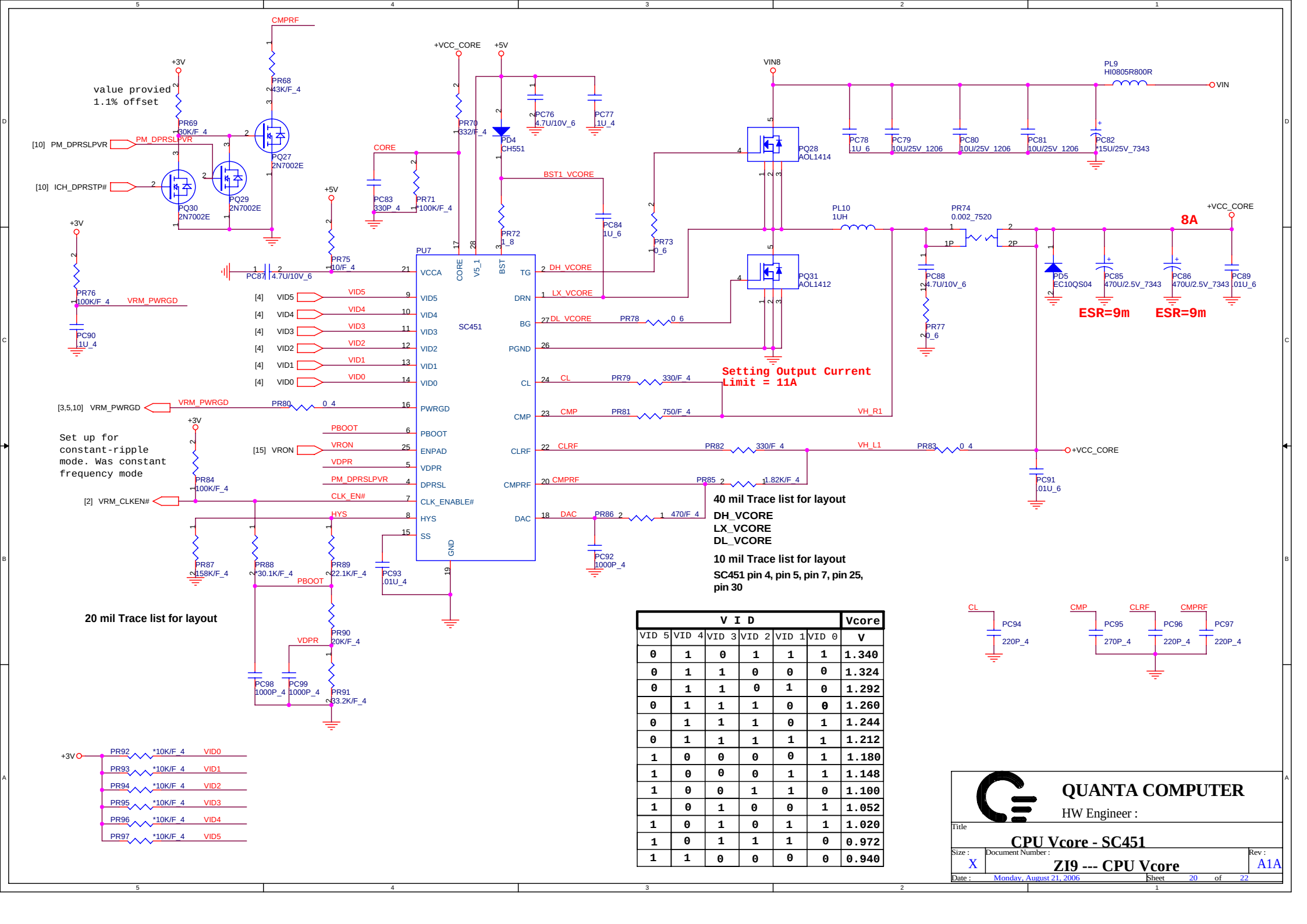

V I D						Vcore
VID 5	VID 4	VID 3	VID 2	VID 1	VID 0	V
0	1	0	1	1	1	1.340
0	1	1	0	0	0	1.324
0	1	1	0	1	0	1.292
0	1	1	1	0	0	1.260
0	1	1	1	0	1	1.244
0	1	1	1	1	1	1.212
1	0	0	0	0	1	1.180
1	0	0	0	1	1	1.148
1	0	0	1	1	0	1.100
1	0	1	0	0	1	1.052
1	0	1	0	1	1	1.020
1	0	1	1	1	0	0.972
1	1	0	0	0	0	0.940

QUANTA COMPUTER

HW Engineer :

Title: CPU Vcore - SC451

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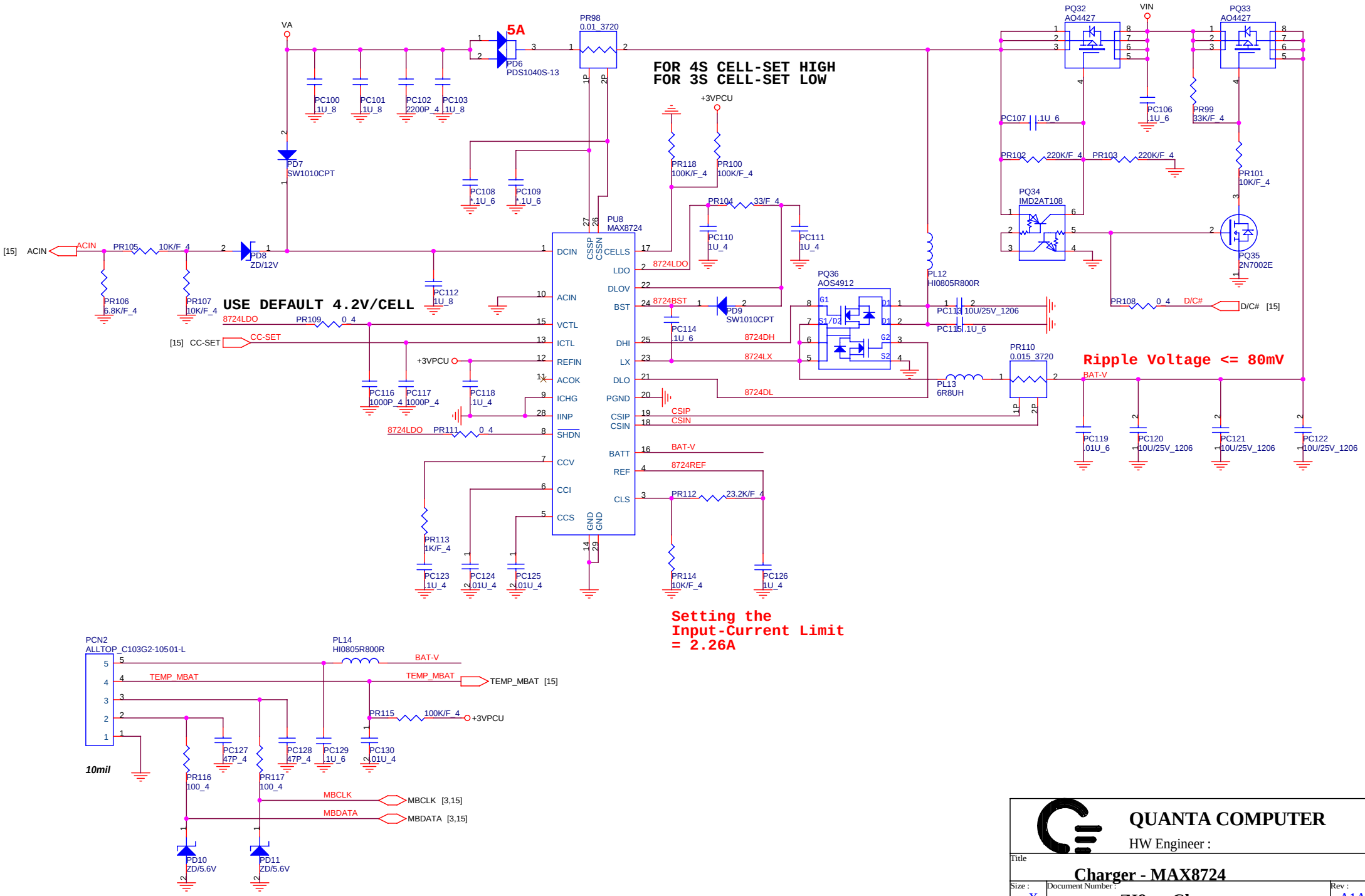

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HW Engineer :

Title: Charger - MAX8724

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ZI9 MotherBoard	A1A	FIRST RELEASE

MODEL : ZI9 MB

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13		A1A
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Quanta Computer Inc.

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