RMI Alchemy™ Au1200™ Processor Portable Media Player (PMP) Reference Design Schematics

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IMPORTANT NOTES ABOUT THIS SCHEMATIC

DESIGN NOTE: Example text for the design note to show the note inside the colored box.

1) DESIGN NOTES in grey are information notes.

DESIGN NOTE: Example text for the design note to show the note inside the colored box.

2) DESIGN NOTES in yellow are notes of caution.

DESIGN NOTE: Example text for the design note to show the note inside the colored box.

3) DESIGN NOTES in red are critical, and must be understood and followed.

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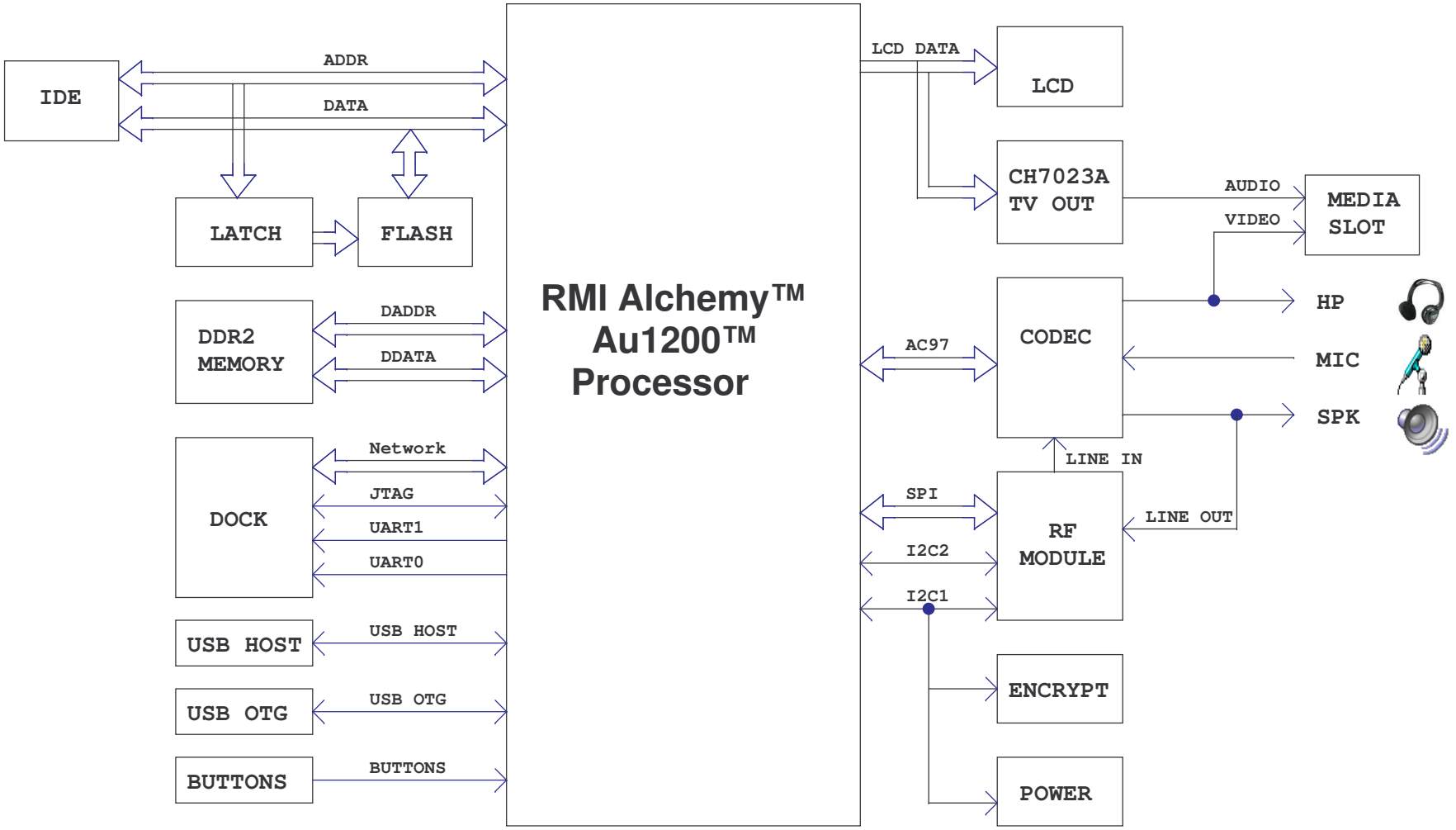

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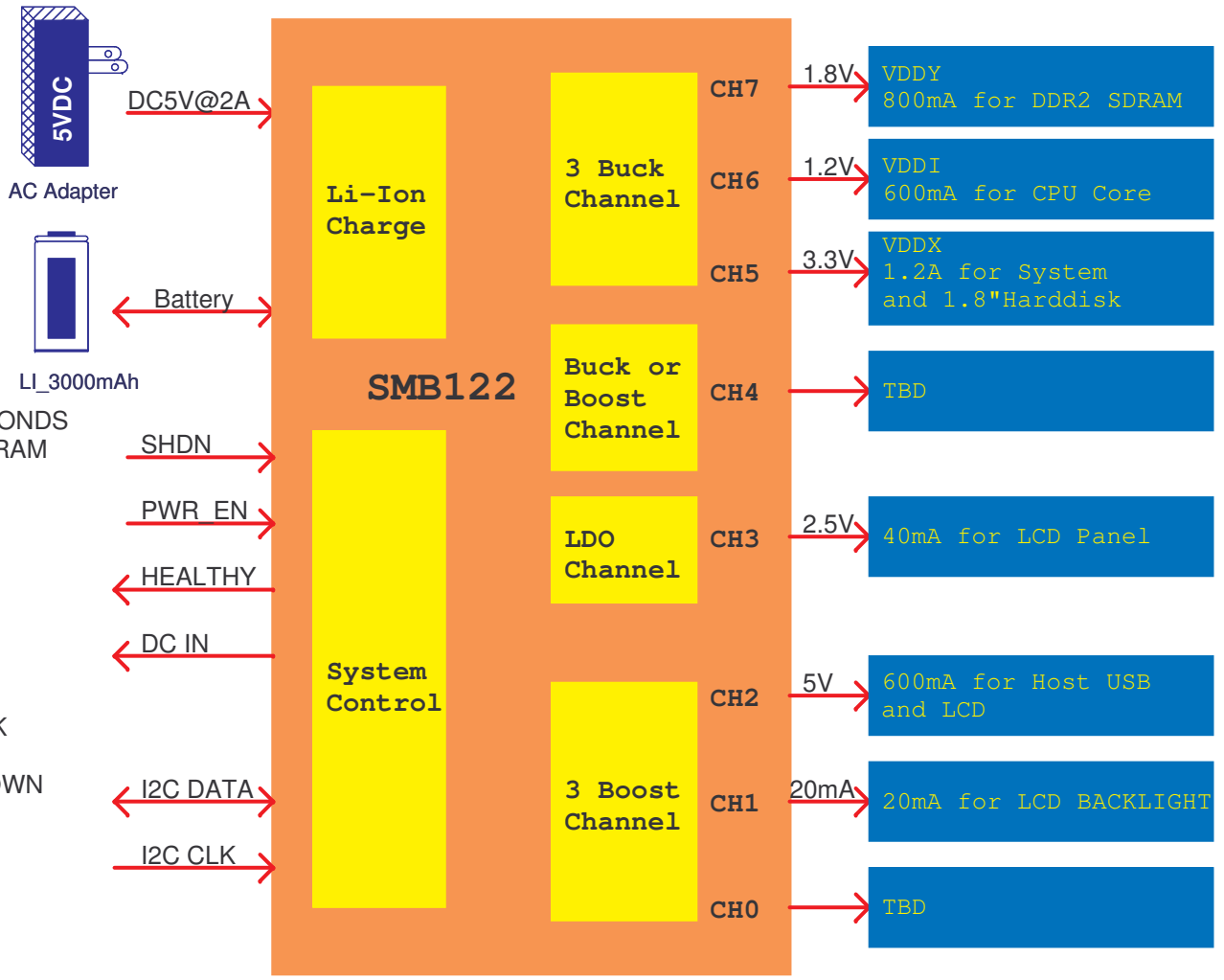
INITIAL POWER UP SEQUENCE:
1) SWITCH SHDN LOW TO RUN SMB122 CHIP
2) VDDX AND VDDY POWER UP
3) VDDX_OK FROM HEALTHY SIGNAL GOES ACTIVE
4) PWR_EN GOES ACTIVE BY HOST CPU
5) VDDI POWERS UP
6) AU_RESET IS RELEASED AFTER DELAY
7) SYSTEM BEGINS TO RUN
8) 5V IS POWERED UP BY I2C COMMAND
9) 2.5V IS POWERED UP BY I2C COMMAND
10)LED BACKLIGHT IS POWERED UP BY I2C COMMAND

SLEEP SEQUENCE:
1) PRESS WAKE/SLEEP BUTTON FOR MORE THAN 3 SECONDS
2) HOST PREPARES FOR SLEEP INCLUDING IDE AND SDRAM
3) HOST CLOSES LED BACKLIGHT VIA I2C COMMAND
4) HOST CLOSES 5V VIA I2C COMMAND
5) HOST CLOSES 2.5V VIA I2C COMMAND
6) HOST DISENABLES PWR_EN
7) VDDI POWERS DOWN

SHUT DOWN SEQUENCE:
1) OPERATE AS SLEEP SEQUENCE
2) WAIT FOR SEVERAL SECONDS TILL LCD TURNS BLACK
3) SWITCH SHDN HIGHT
4) ALL POWER INCLUDING VDDY ADN VDDX POWERS DOWN

WAKE UP FROM SLEEP SEQUENCE:
1) TOY IS ACTIVATED OR PRESS WAKE/SLEEP BUTTON
2) HOST ASSERTS PWR_EN
3) VDDI POWERS UP
4) DO SOME NECESSARY SOFTWARE OPERATION
5) RESUME 2.5V VIA I2C COMMAND
6) RESUME 5V VIA I2C COMMAND
7) RESUME LED BACKLIGHT VIA I2C COMMAND



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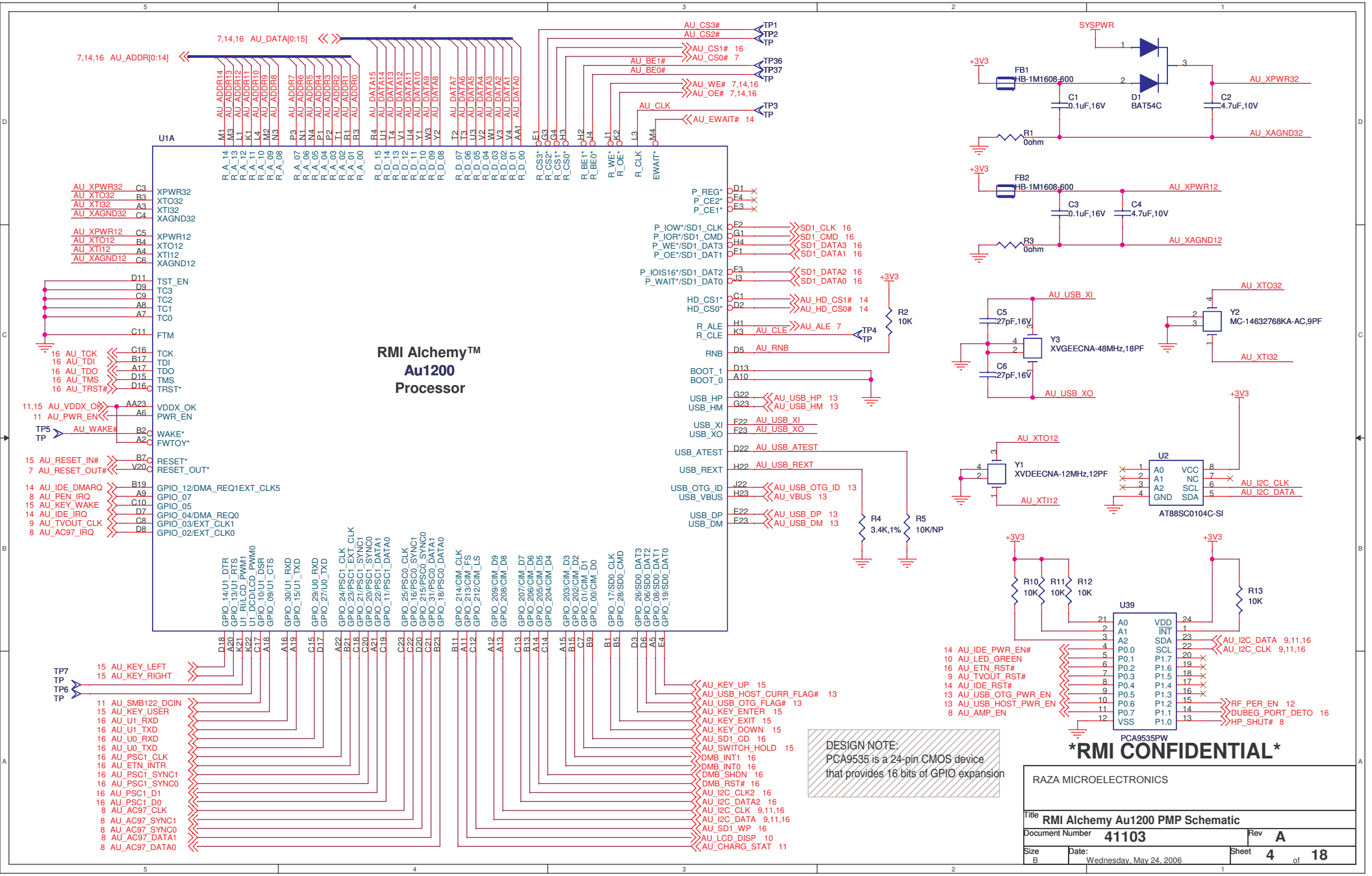
RMI Alchemy™
Au1200
Processor
U1A
7,14,16 AU_DATA[0:15]
7,14,16 AU_ADDR[0:14]
AU_CS3#
AU_CS2#
AU_CS1# 16
AU_CS0# 7
AU_BE1#
AU_BE0#
AU_WE# 7,14,16
AU_OE# 7,14,16
AU_CLK
AU_EWAIT# 14
TP1
TP2
TP36
TP37
TP3
XPWR32
XTO32
XTI32
XAGND32
XPWR12
XTO12
XTI12
XAGND12
TST_EN
TC3
TC2
TC1
TC0
FTM
TCK
TDI
TDO
TMS
TRST*
VDDX_OK
PWR_EN
WAKE*
FWTOY*
RESET*
RESET_OUT*
GPIO_12/DMA_REQ1EXT_CLK5
GPIO_07
GPIO_05
GPIO_04/DMA_REQ0
GPIO_03/EXT_CLK1
GPIO_02/EXT_CLK0
P_REG*
P_CE2*
P_CE1*
P_IOW*/SD1_CLK
P_IOR*/SD1_CMD
P_WE*/SD1_DAT3
P_OE*/SD1_DAT1
P_IOIS16*/SD1_DAT2
P_WAIT*/SD1_DAT0
HD_CS1*
HD_CS0*
R_ALE
R_CLE
RNB
BOOT_1
BOOT_0
USB_HP
USB_HM
USB_XI
USB_XO
USB_ATEST
USB_REXT
USB_OTG_ID
USB_VBUS
USB_DP
USB_DM
R2
10K
R4
3.4K,1%
R5
10K/NP
TP4
TP5
TP7
TP6
AU_KEY_UP 15
AU_USB_HOST_CURR_FLAG# 13
AU_USB_OTG_FLAG# 13
AU_KEY_ENTER 15
AU_KEY_EXIT 15
AU_KEY_DOWN 15
AU_SD1_CD 16
AU_SWITCH_HOLD 15
DMB_INT1 16
DMB_INT0 16
DMB_SHDN 16
DMB_RST# 16
AU_I2C_CLK2 16
AU_I2C_DATA2 16
AU_I2C_CLK 9,11,16
AU_I2C_DATA 9,11,16
AU_SD1_WP 16
AU_LCD_DISP 10
AU_CHARG_STAT 11
SYSPWR
+3V3
FB1
HB-1M1608-600
C1
0.1uF,16V
D1
BAT54C
C2
4.7uF,10V
R1
0ohm
AU_XPWR32
AU_XAGND32
FB2
C3
C4
R3
AU_XPWR12
AU_XAGND12
C5
27pF,16V
C6
Y3
XVGEECNA-48MHz,18PF
AU_USB_XI
AU_USB_XO
Y2
MC-14632768KA-AC,9PF
AU_XTO32
AU_XTI32
Y1
XVDEECNA-12MHz,12PF
AU_XTO12
AU_XTI12
U2
AT88SC0104C-SI
AU_I2C_CLK
AU_I2C_DATA
R10
R11
R12
R13
U39
PCA9535PW
14 AU_IDE_PWR_EN#
10 AU_LED_GREEN
16 AU_ETN_RST#
9 AU_TVOUT_RST#
14 AU_IDE_RST#
13 AU_USB_OTG_PWR_EN
13 AU_USB_HOST_PWR_EN
8 AU_AMP_EN
RF_PER_EN 12
DUBEG_PORT_DETO 16
HP_SHUT# 8
DESIGN NOTE:
PCA9535 is a 24-pin CMOS device
that provides 16 bits of GPIO expansion
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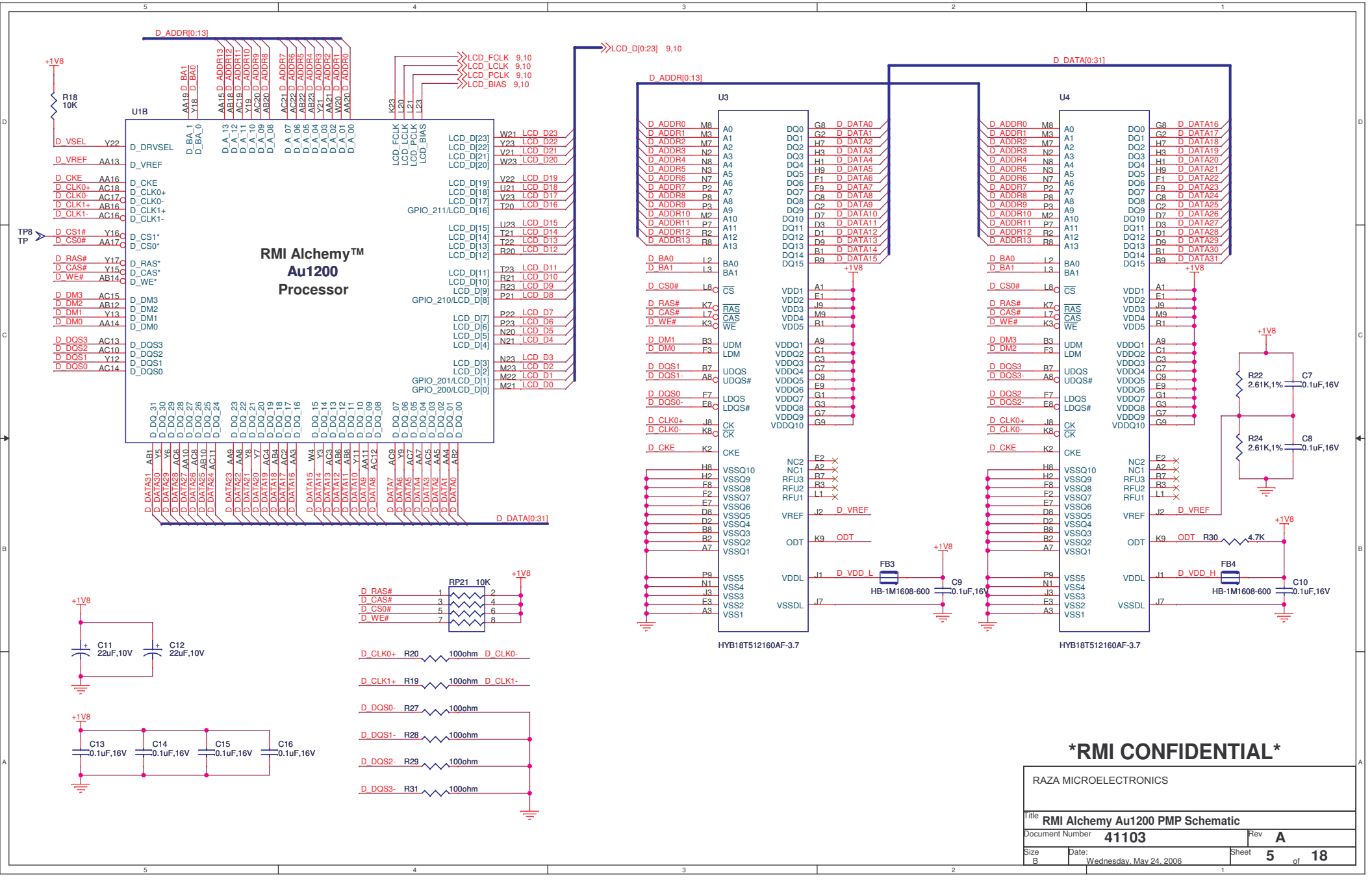
RMI Alchemy™
Au1200
Processor
U1B
U3
U4
HYB18T512160AF-3.7
HYB18T512160AF-3.7
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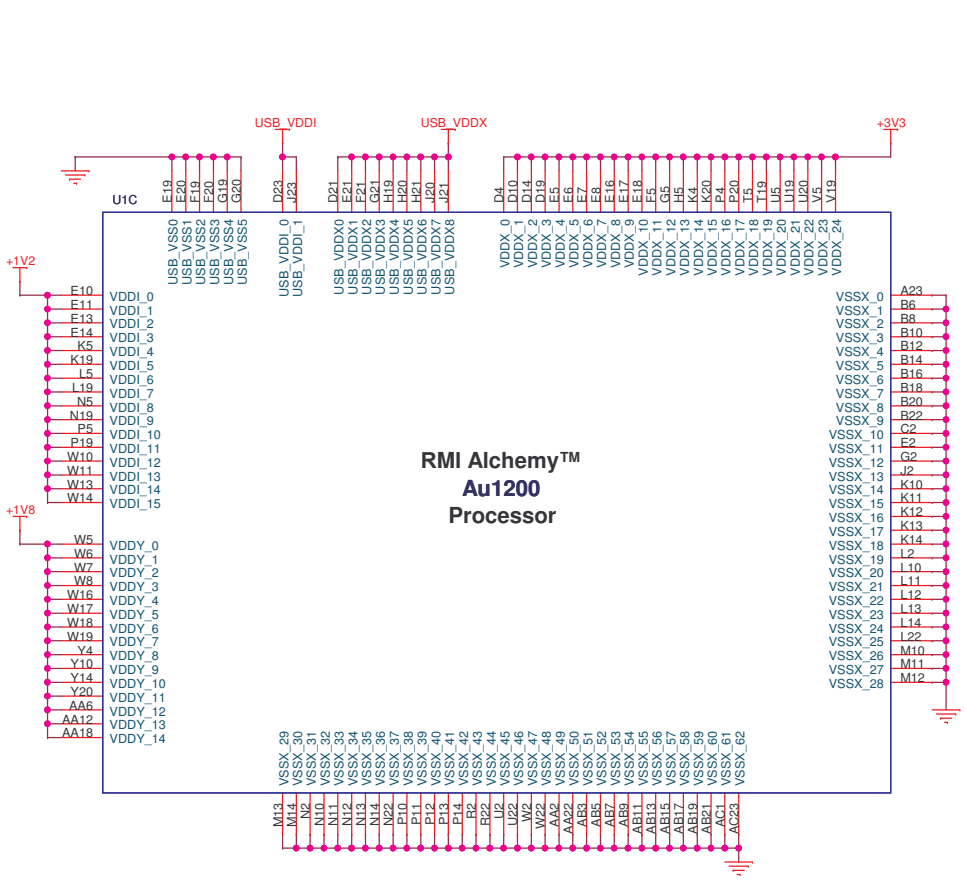

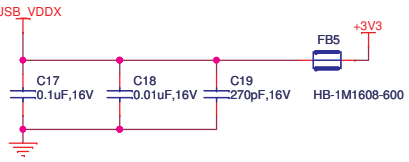

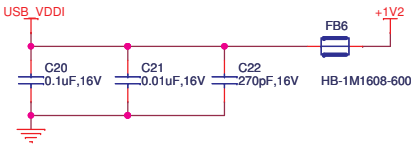

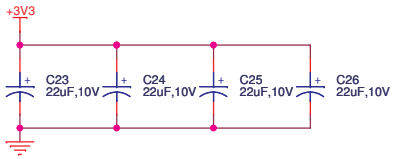

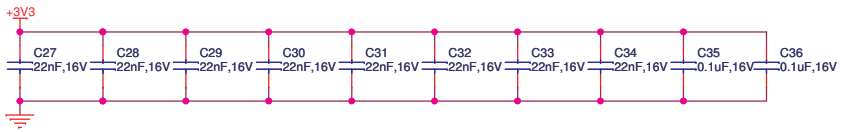

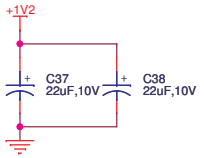

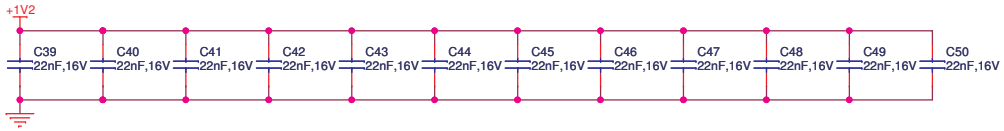

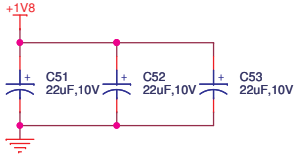

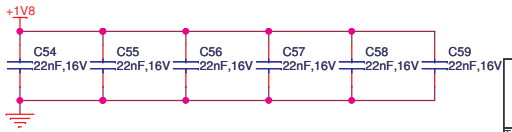

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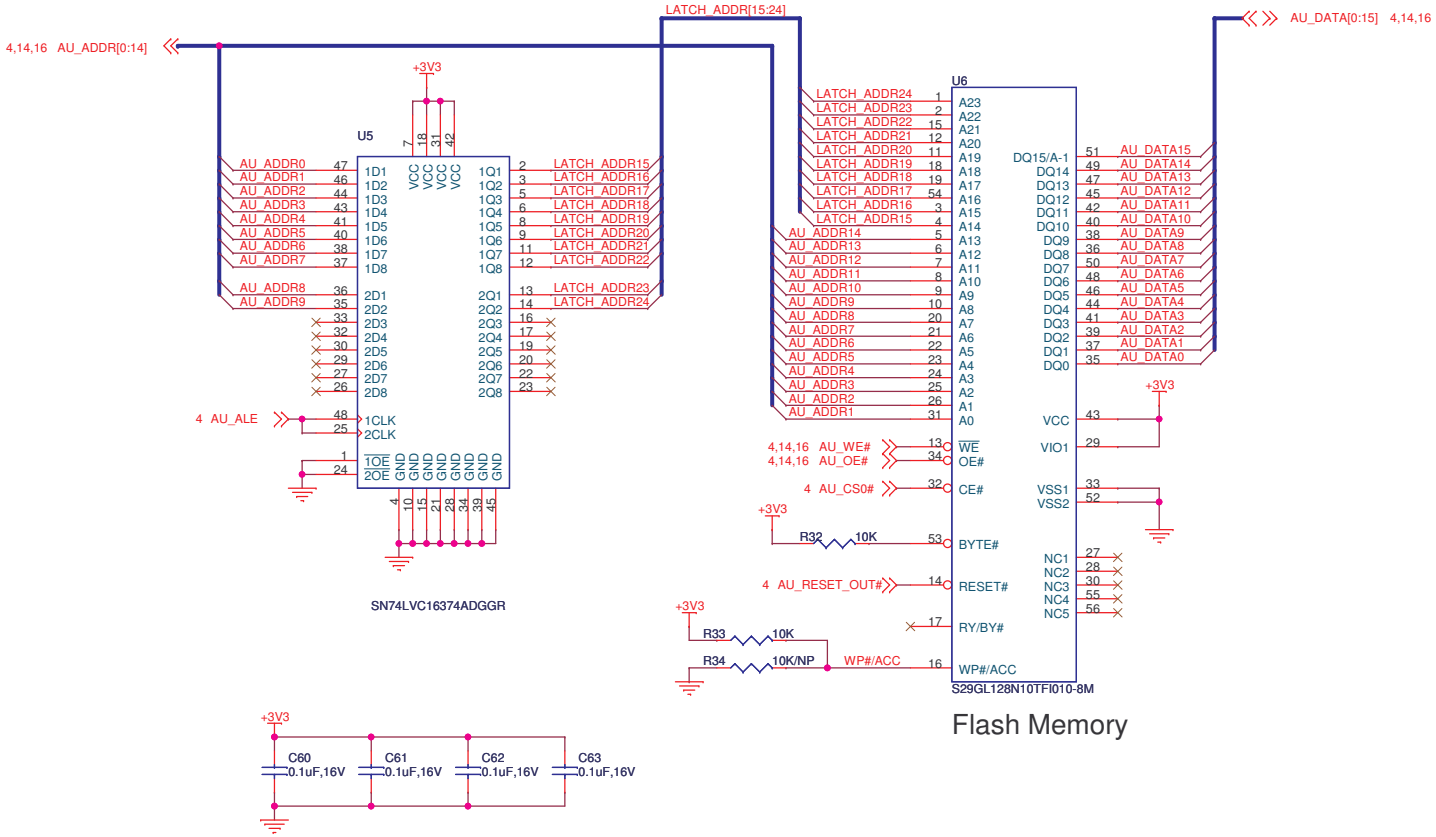

Flash Memory

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DESIGN NOTE:
Place series termination close to CODEC.

U8
WM9712LGEFL/V
BIT_CLK
SDATA_IN
SDATA_OUT
SYNC
RESETB
TS_VDD
X+_BR
X-_TL
Y+_TR
Y-_BL
TS_GND
WIPER/AUX4
GPIO3/PENDOWN
LINE_IN_L
LINE_IN_R
MIC1
MIC2
MICBIAS
PHONE
PCBEEP
GPIO4/ADA/MASK
XTL_IN
XTL_OUT
LINE_OUT_L
LINE_OUT_R
HP_OUT_L
HP_OUT_R
HPGND
OUT3
GPIO2_IRQ
GPIO5/SPDIFO
HPVDD
MONOOUT
GPIO1
BMON/AUX3
COMP1/AUX1
COMP2/AUX2
CAP2
SPKGND
VREF
DVDD0
DVDD1
AVDD
SPKVDD
PAD
DGND0
DGND1
AGND0
AGND1

U7
MAX9890AETA
VCC SHDN
INL OUTL
INR OUTR
CEXT GND
PAD

U9
LM4666SDA
VinR-
VinR+
GAIN SEL
SHUT
VinL-
VinL+
Rout2
Rout1
Lout2
Lout1
VDD1
VDD2
GND1
GND2
GND3

U10
SN74LVC1G08DCKR

MIC1
MIC_BOB-S2744SC

FB7
HB-1M1608-600

FB8
HB-1M1608-600

Y4
XVDEECNA-24.576MHz,12PF

D2
EMZ6.8NTL
ESD DIODE

J1
PJK-631

Left Channel
Ground
Right Channel
Stereo Headphones 3.5mm

DESIGN NOTE:
Closed Loop Gain is 6dB if Pin of GAINSEL = +3V3 and 12dB if Pin of GAINSEL = GND

DESIGN NOTE:
Place isolating FBs close to AC97 CODEC

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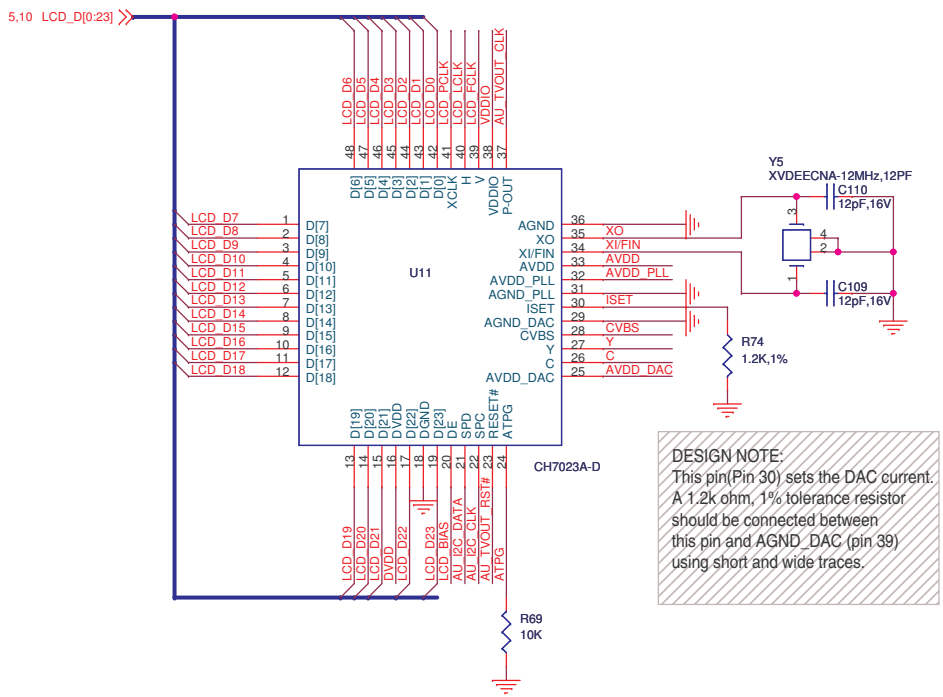

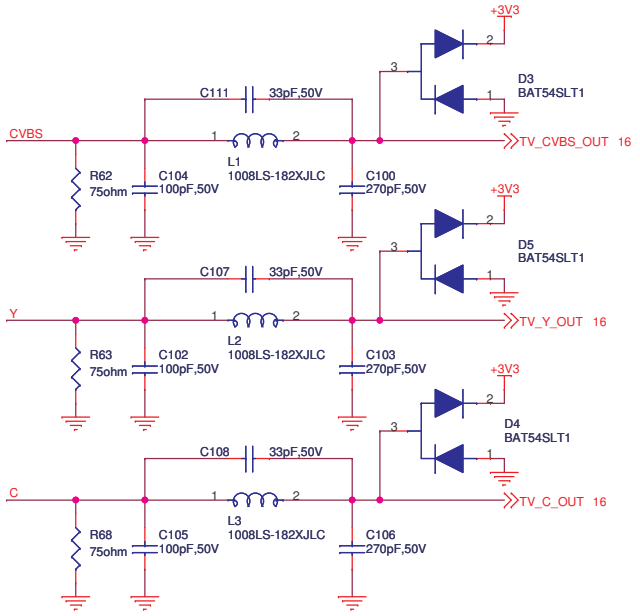

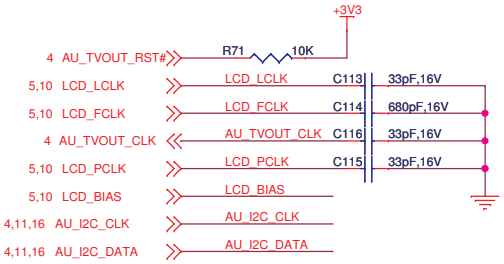

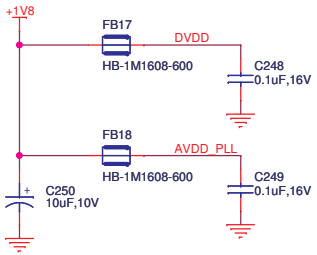

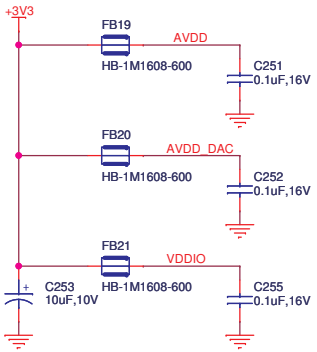

DESIGN NOTE:
Place all these FBs close to U11

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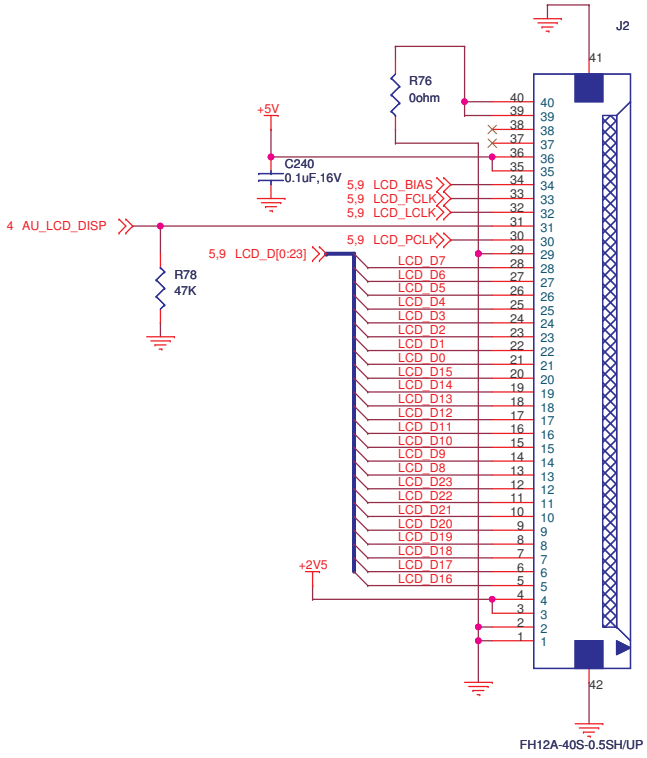


DESIGN NOTE: LCD SIGNALS

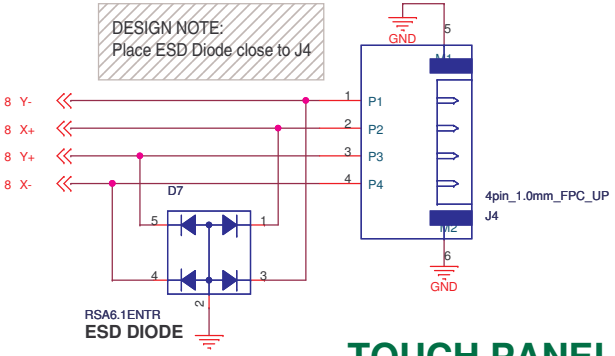
LCD_D[0] - B0
LCD_D[1] - B1
LCD_D[2] - B0 - B2
LCD_D[3] - B1 - B3
LCD_D[4] - B2 - B4
LCD_D[5] - B3 - B5
LCD_D[6] - B4 - B6
LCD_D[7] - B5 - B7

LCD_D[8] - G0
LCD_D[9] - G1
LCD_D[10]- G0 - G2
LCD_D[11]- G1 - G3
LCD_D[12]- G2 - G4
LCD_D[13]- G3 - G5
LCD_D[14]- G4 - G6
LCD_D[15]- G5 - G7

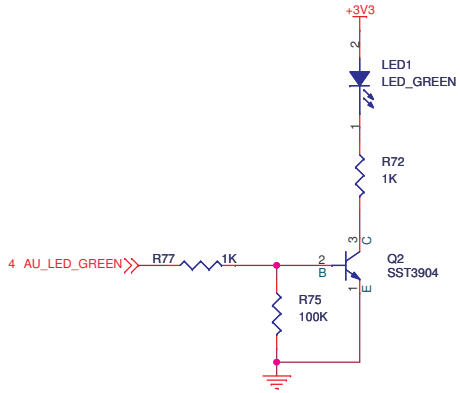
LCD_D[16] - R0
LCD_D[17] - R1
LCD_D[18]- R0 - R2
LCD_D[19]- R1 - R3
LCD_D[20]- R2 - R4
LCD_D[21]- R3 - R5
LCD_D[22]- R4 - R6
LCD_D[23]- R5 - R7

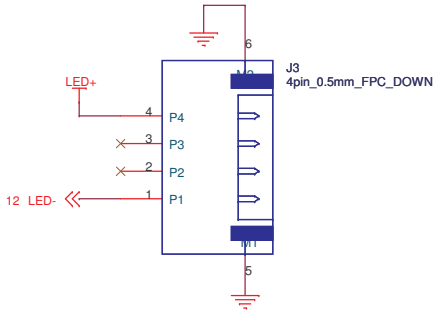
TFT LCD

DESIGN NOTE:
Place ESD Diode close to J4



TOUCH PANEL





BACKLIGHT

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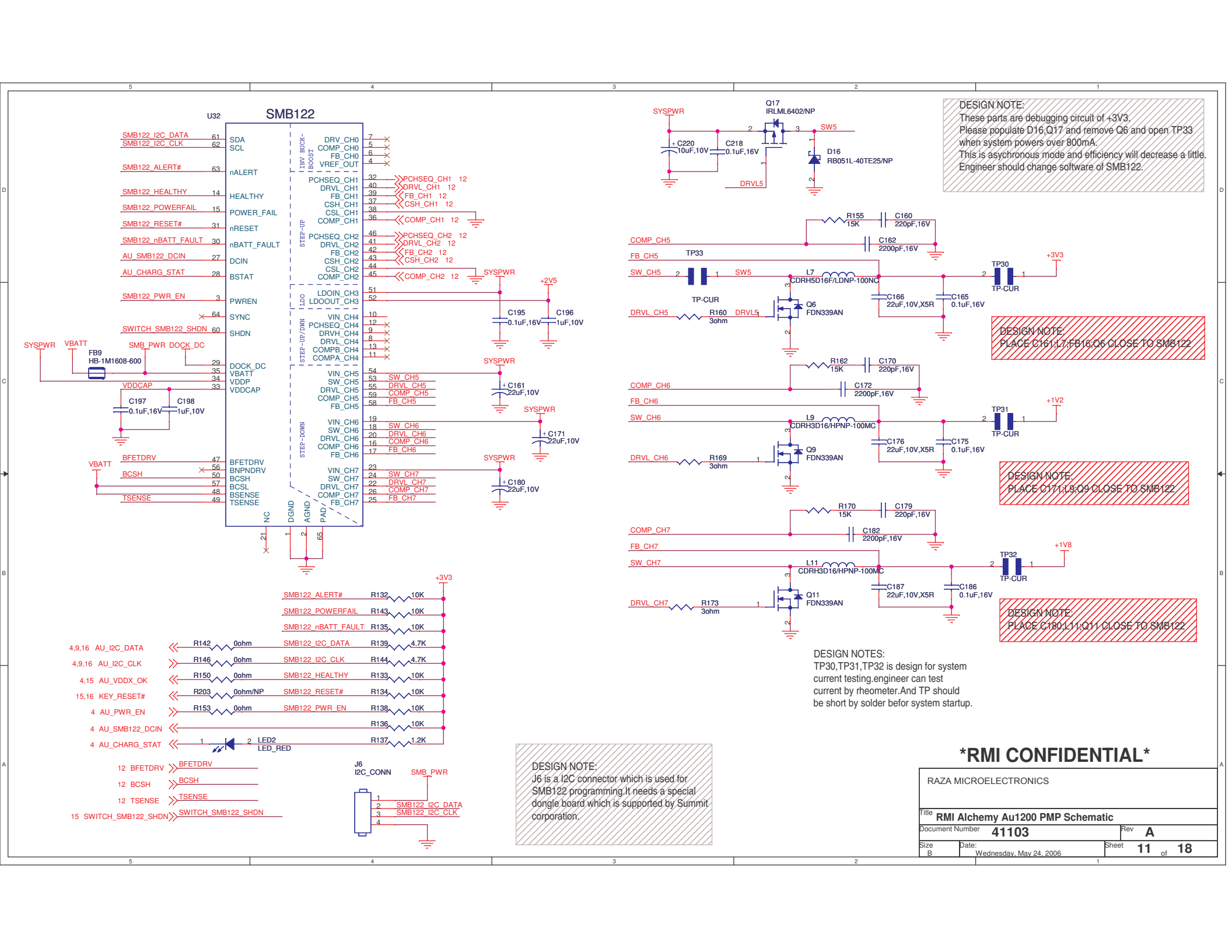
U32
SMB122
SMB122_I2C_DATA
SMB122_I2C_CLK
SMB122_ALERT#
SMB122_HEALTHY
SMB122_POWERFAIL
SMB122_RESET#
SMB122_nBATT_FAULT
AU_SMB122_DCIN
AU_CHARG_STAT
SMB122_PWR_EN
SWITCH_SMB122_SHDN
SDA
SCL
nALERT
HEALTHY
POWER_FAIL
nRESET
nBATT_FAULT
DCIN
BSTAT
PWREN
SYNC
SHDN
DOCK_DC
VBATT
VDDP
VDDCAP
BFETDRV
BNPNDRV
BCSH
BCSL
BSENSE
TSENSE
NC
DGND
AGND
PAD
INV BUCK-BOOST
STEP-UP
LDO
STEP-UP/DWN
STEP-DOWN
DRV_CH0
COMP_CH0
FB_CH0
VREF_OUT
PCHSEQ_CH1
DRVL_CH1
FB_CH1
CSH_CH1
CSL_CH1
COMP_CH1
PCHSEQ_CH2
DRVL_CH2
FB_CH2
CSH_CH2
CSL_CH2
COMP_CH2
LDOIN_CH3
LDOOUT_CH3
VIN_CH4
PCHSEQ_CH4
DRVH_CH4
DRVL_CH4
COMPB_CH4
COMPA_CH4
VIN_CH5
SW_CH5
DRVL_CH5
COMP_CH5
FB_CH5
VIN_CH6
SW_CH6
DRVL_CH6
COMP_CH6
FB_CH6
VIN_CH7
SW_CH7
DRVL_CH7
COMP_CH7
FB_CH7
SYSPWR
VBATT
FB9
HB-1M1608-600
SMB_PWR
DOCK_DC
VDDCAP
C197
0.1uF,16V
C198
1uF,10V
C195
0.1uF,16V
C196
1uF,10V
+2V5
C161
22uF,10V
C171
22uF,10V
C180
22uF,10V
+3V3
R132 10K
R143 10K
R135 10K
R142 0ohm
R139 4.7K
R146 0ohm
R144 4.7K
R150 0ohm
R133 10K
R203 0ohm/NP
R134 10K
R153 0ohm
R138 10K
R136 10K
R137 1.2K
LED2
LED_RED
4,9,16 AU_I2C_DATA
4,9,16 AU_I2C_CLK
4,15 AU_VDDX_OK
15,16 KEY_RESET#
4 AU_PWR_EN
4 AU_SMB122_DCIN
4 AU_CHARG_STAT
12 BFETDRV
12 BCSH
12 TSENSE
15 SWITCH_SMB122_SHDN
J6
I2C_CONN
SMB_PWR
SMB122_I2C_DATA
SMB122_I2C_CLK
Q17
IRLML6402/NP
C220
10uF,10V
C218
0.1uF,16V
D16
RB051L-40TE25/NP
DRVL5
SW5
DESIGN NOTE:
These parts are debugging circuit of +3V3.
Please populate D16,Q17 and remove Q6 and open TP33
when system powers over 800mA.
This is asychronous mode and efficiency will decrease a little.
Engineer should change software of SMB122.
R155 15K
C160 220pF,16V
C162 2200pF,16V
TP33
TP30
TP-CUR
L7
CDRH5D16F/LDNP-100NC
C166 22uF,10V,X5R
C165 0.1uF,16V
Q6
FDN339AN
R160 3ohm
DESIGN NOTE:
PLACE C161,L7,FB16,Q6 CLOSE TO SMB122
R162 15K
C170 220pF,16V
C172 2200pF,16V
TP31
L9
CDRH3D16/HPNP-100MC
C176 22uF,10V,X5R
C175 0.1uF,16V
Q9
FDN339AN
R169 3ohm
DESIGN NOTE:
PLACE C171,L9,Q9 CLOSE TO SMB122
R170 15K
C179 220pF,16V
C182 2200pF,16V
TP32
L11
CDRH3D16/HPNP-100MC
C187 22uF,10V,X5R
C186 0.1uF,16V
Q11
FDN339AN
R173 3ohm
DESIGN NOTE:
PLACE C180,L11,Q11 CLOSE TO SMB122
DESIGN NOTES:
TP30,TP31,TP32 is design for system
current testing.engineer can test
current by rheometer.And TP should
be short by solder befor system startup.
DESIGN NOTE:
J6 is a I2C connector which is used for
SMB122 programming.It needs a special
dongle board which is supported by Summit
corporation.
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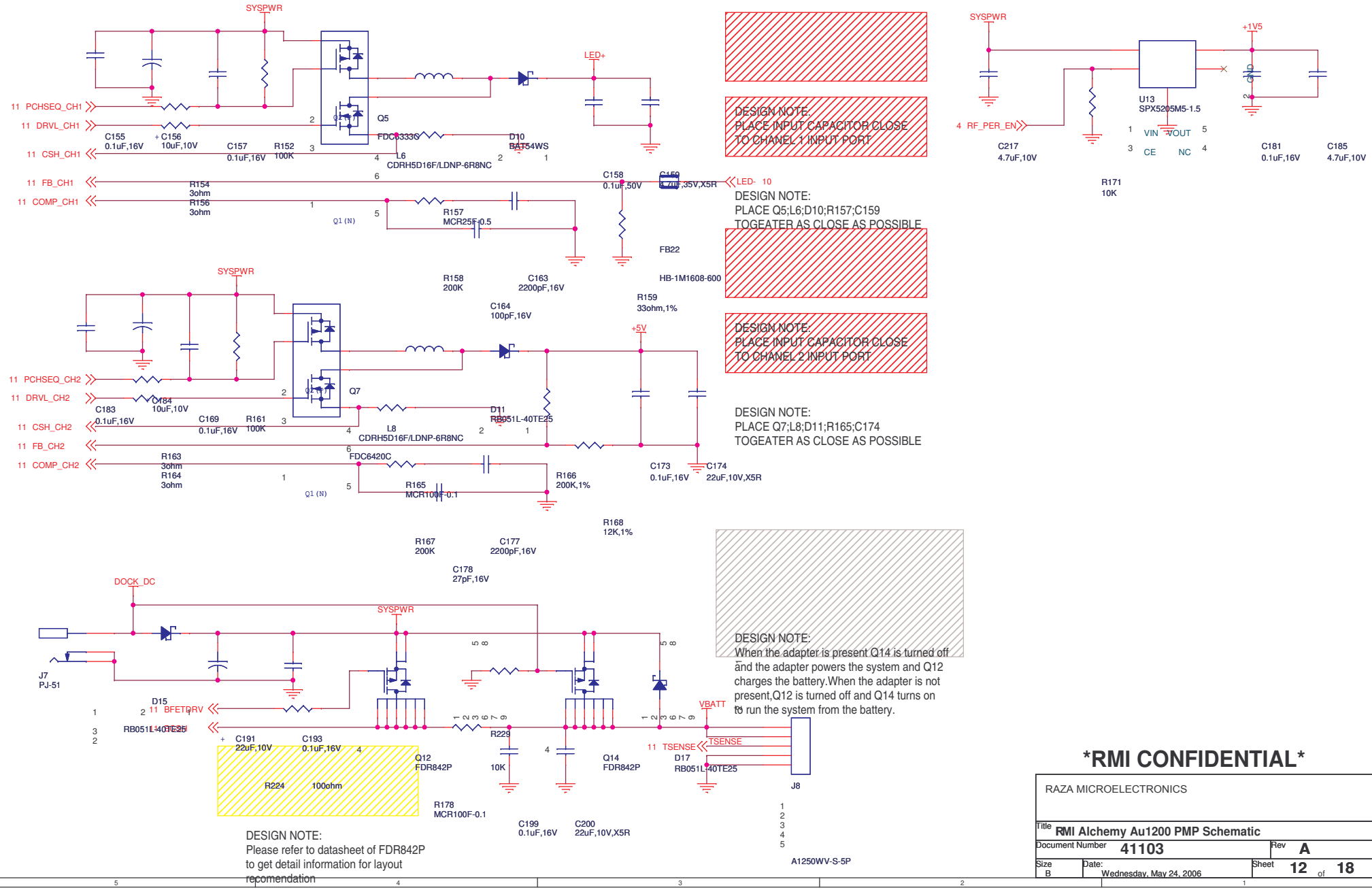

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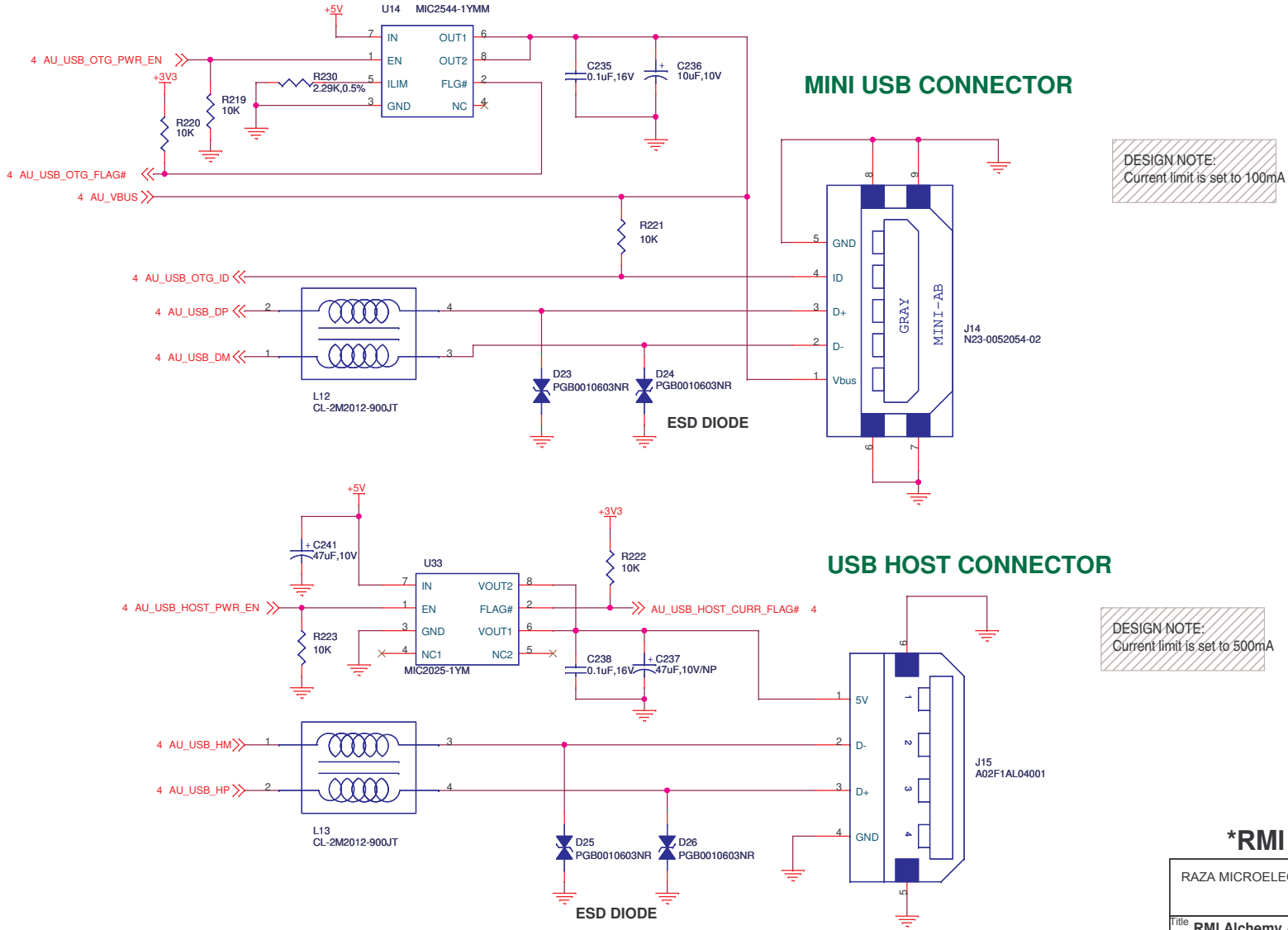
MINI USB CONNECTOR
+5V
U14 MIC2544-1YMM
IN
EN
ILIM
GND
OUT1
OUT2
FLG#
NC
4 AU_USB_OTG_PWR_EN
+3V3
R230 2.29K,0.5%
R219 10K
R220 10K
C235 0.1uF,16V
C236 10uF,10V
4 AU_USB_OTG_FLAG#
4 AU_VBUS
R221 10K
4 AU_USB_OTG_ID
4 AU_USB_DP
4 AU_USB_DM
L12 CL-2M2012-900JT
D23 PGB0010603NR
D24 PGB0010603NR
ESD DIODE
GND
ID
D+
D-
Vbus
GRAY
MINI-AB
J14 N23-0052054-02
DESIGN NOTE: Current limit is set to 100mA
USB HOST CONNECTOR
+5V
+3V3
C241 47uF,10V
U33
IN
EN
GND
NC1
VOUT2
FLAG#
VOUT1
NC2
MIC2025-1YM
R222 10K
4 AU_USB_HOST_PWR_EN
AU_USB_HOST_CURR_FLAG# 4
R223 10K
C238 0.1uF,16V
C237 47uF,10V/NP
4 AU_USB_HM
4 AU_USB_HP
L13 CL-2M2012-900JT
D25 PGB0010603NR
D26 PGB0010603NR
ESD DIODE
5V
D-
D+
GND
J15 A02F1AL04001
DESIGN NOTE: Current limit is set to 500mA
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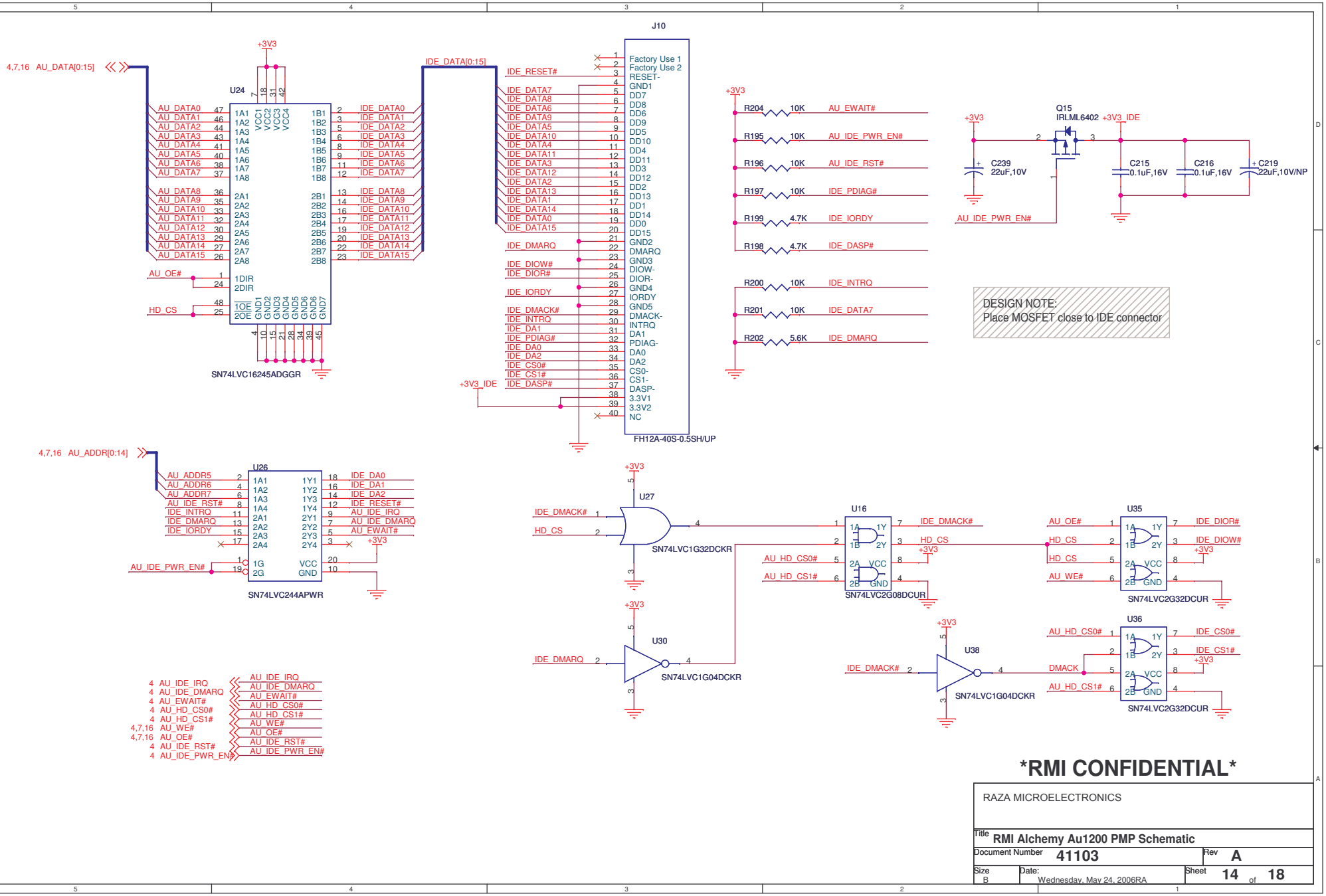

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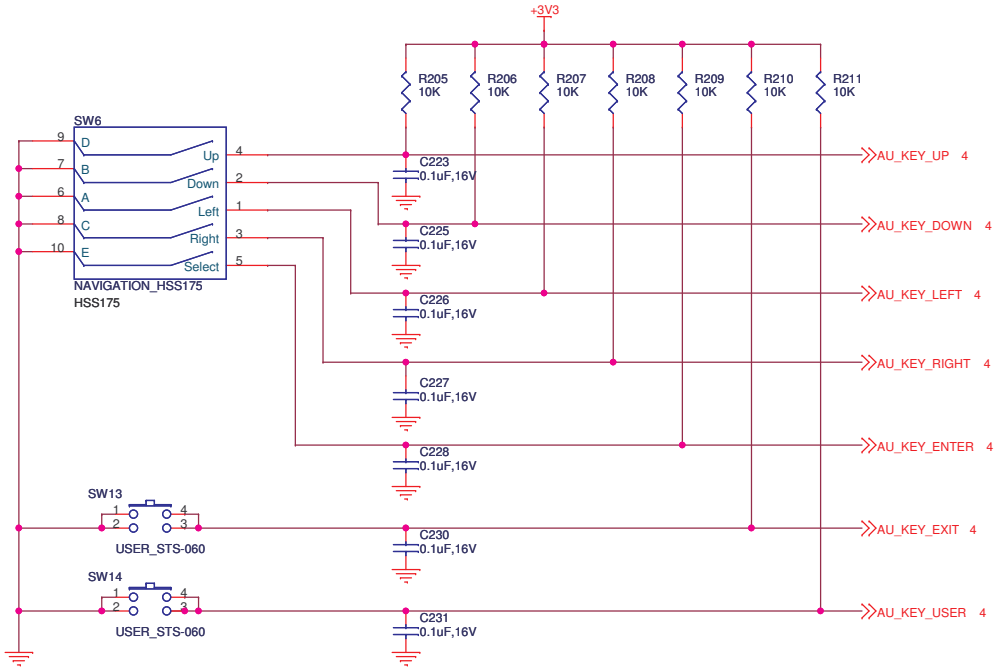

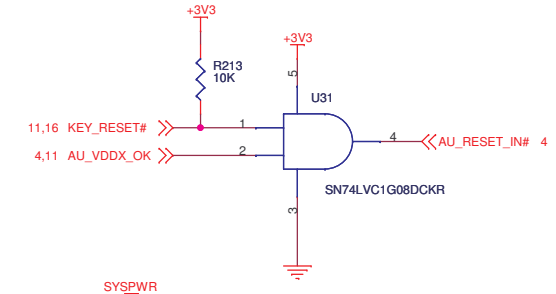

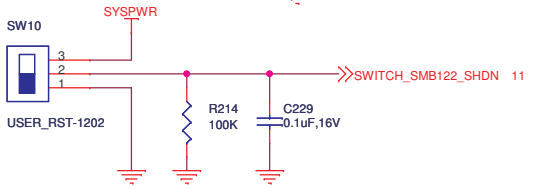

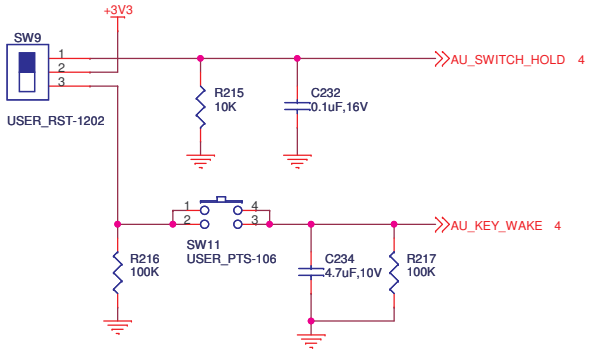

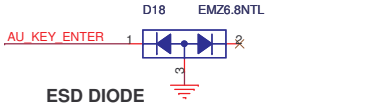

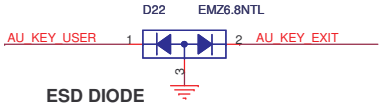

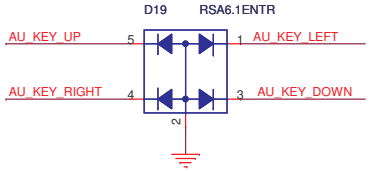

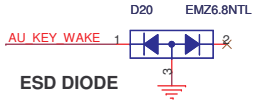

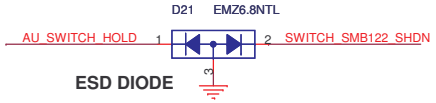

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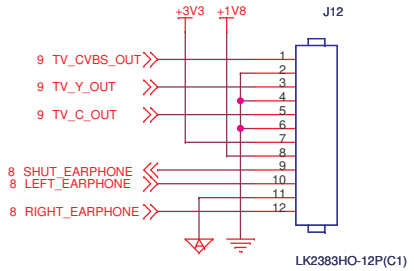
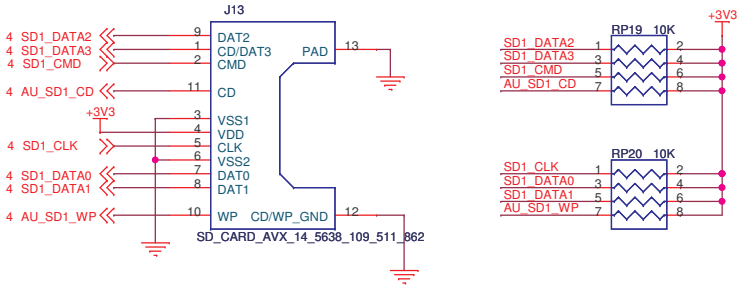
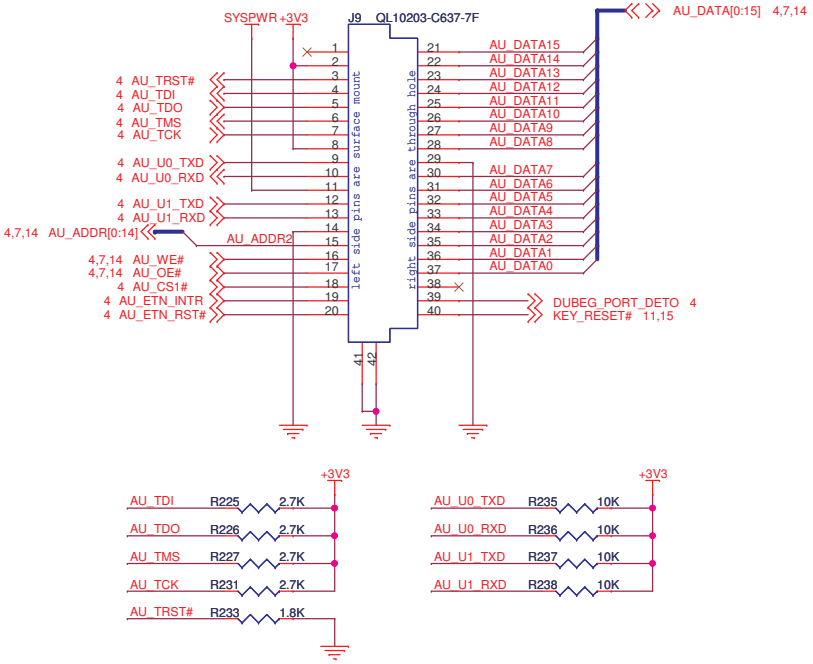
VIDEO SLOT



SD SLOT



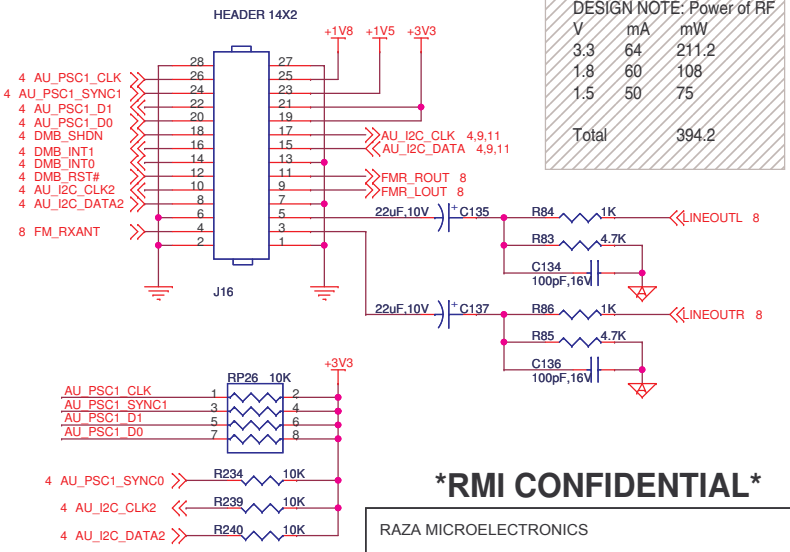
DEBUGGING SLOT



RF MODULE SLOT

DESIGN NOTE: Signal Name

PSC Generic	SPI Specific
PSCn_CLK	SPICLK
PSCn_SYNC1	SPISEL
PSCn_SYNC0	SPISEL
PSCn_D1	SPIMISO
PSCn_D0	SPIMOSI



DESIGN NOTE: Power of RF

V	mA	mW
3.3	64	211.2
1.8	60	108
1.5	50	75
Total		394.2

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GPIO ARRANGEMENT

AU_SD1_CD	GPIO_00
AU_SWITCH_HOLD	GPIO_01
AU_AC97_IRQ	GPIO_02
AU_TVOUT_CLK	GPIO_03
AU_IDE_IRQ	GPIO_04
AU_KEY_WAKE	GPIO_05
AU_USB_OTG_FLAG#	GPIO_06
AU_PEN_IRQ	GPIO_07
AU_USB_HOST_CURR_FLAG#	GPIO_08
AU_KEY_USER	GPIO_09
AU_SMB122_DCIN	GPIO_10
AU_PSC1_D0	GPIO_11
AU_IDE_DMARQ	GPIO_12
AU_KEY_RIGHT	GPIO_13
AU_KEY_LEFT	GPIO_14
AU_U1_TXD	GPIO_15

AU_AC97_SYNC1	GPIO_16
AU_KEY_DOWN	GPIO_17
AU_AC97_DATA0	GPIO_18
AU_KEY_UP	GPIO_19
AU_PSC1_SYNC0	GPIO_20
AU_PSC1_SYNC1	GPIO_21
AU_PSC1_D1	GPIO_22
AU_ETN_INTR	GPIO_23
AU_PSC1_CLK	GPIO_24
AU_AC97_CLK	GPIO_25
AU_KEY_ENTER	GPIO_26
AU_U0_TXD	GPIO_27
AU_KEY_EXIT	GPIO_28
AU_U0_RXD	GPIO_29
AU_U1_RXD	GPIO_30
AU_AC97_DATA1	GPIO_31

LCD_D0	GPIO_200
LCD_D1	GPIO_201
DMB_INT1	GPIO_202
DMB_INT0	GPIO_203
DMB_SHDN	GPIO_204
DMB_RST#	GPIO_205
AU_I2C_CLK2	GPIO_206
AU_I2C_DATA2	GPIO_207
AU_I2C_CLK	GPIO_208
AU_I2C_DATA	GPIO_209
LCD_D8	GPIO_210
LCD_D16	GPIO_211
AU_SD1_WP	GPIO_212
AU_LCD_DISP	GPIO_213
AU_CHARG_STAT	GPIO_214
AU_AC97_SYNC0	GPIO_215

POWER CONTROL ARRANGEMENT

AU_IDE_PWR_EN#	P0.0
AU_LED_GREEN	P0.1
AU_ETN_RST	P0.2
AU_TVOUT_RST#	P0.3
AU_IDE_RST#	P0.4
AU_USB_OTG_PWR_EN	P0.5
AU_USB_HOST_PWR_EN	P0.6
AU_AMP_EN	P0.7
HP_SHUT#	P1.0
DUBEG_PORT_DETO	P1.1
RF_PER_EN	P1.2
	P1.3
	P1.4
	P1.5
	P1.6
	P1.7

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FIX HOLE

M1
FIX_HOLE
MARK

M2
FIX_HOLE
MARK

M3
FIX_HOLE
MARK

M4
FIX_HOLE
MARK

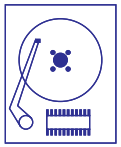
FIX8
FIX_HOLE
H7\3

FIX9
FIX_HOLE
H7\3

FIX11
FIX_HOLE
H7\3

ACCESSORY

A2

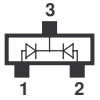


IDE_20GB_1.8inch

A1

LCD_480x272_4.3inch

FOOTPRINT



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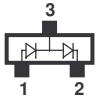

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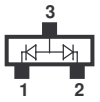

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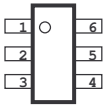

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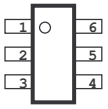

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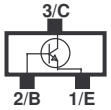
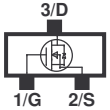


SST3904



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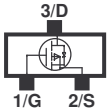

IRLML6402

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