

*** IINDEX ***

- SHEET 1: SYSTEM BLOCK DIAGRAM
- SHEET 2: WICED / ARDUINO HEADER PAIRS
- SHEET 3: POWER
- SHEET 4: PROGRAM / DEBUG INTERFACE, RESET
- SHEET 5: BCM43907-based SiP (10mm x 10mm)
- SHEET 6: BOOTSTRAPS, SFLASH
- SHEET 7: RF
- SHEET 8: RESET DELAY, AUTH IC, uSD
- SHEET 9: ARDUINO HEADERS, WICED HEADER, ADC
- SHEET 10: MII

DOCUMENT
SCHEMATIC DIAGRAM
630-60379-01

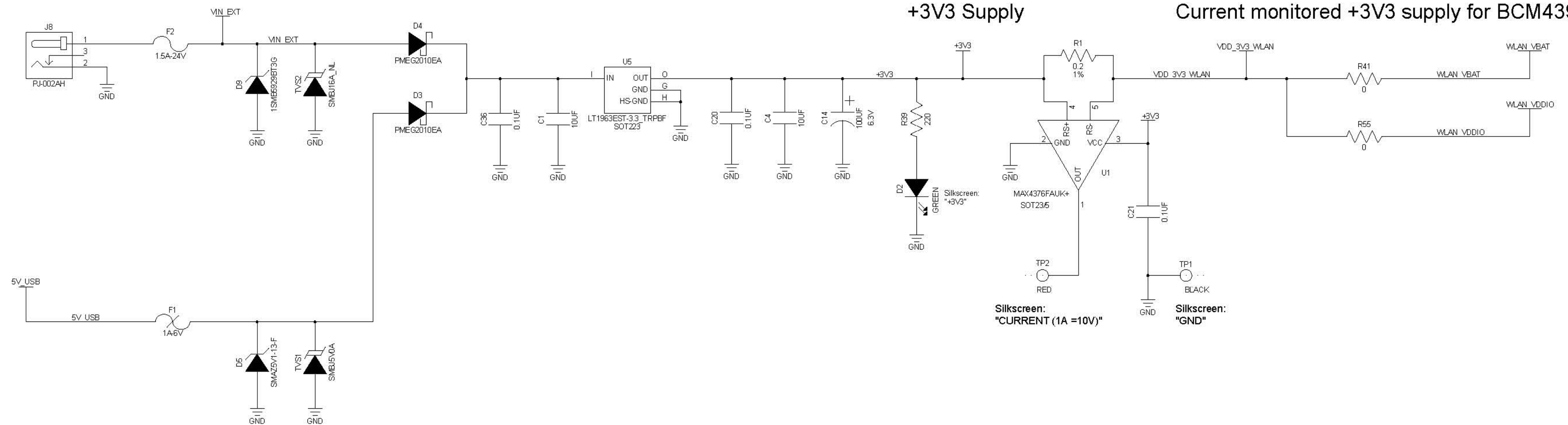
PRINTED CIRCUIT BOARD
600-60404-01

SYSTEM BLOCK DIAGRAM

Approvals		<div><div><div>Broadcom</div><div>Company Confidential</div></div></div>			
Designer	Date				
Reviewer	Date	SIZE B	TITLE CYW943907AEVAL1F		
Reviewer	Date	Designer Deval		Drawing Number 630-60379-01	Version 1.0
Reviewer	Date	DATE 8/12/2016:14:02		SHEET 1 OF 10	

[illegible]

2.1mm DC Jack (centre pin positive)
Typ.= 5Vdc to12Vdc
(Min.= 4.5Vdc)
(Max.= 15Vdc)



POWER

Broadcom Company Confidential		
SIZE B	TITLE CYW943907AEVAL1F	
DATE	8/12/2016:14:02	SHEET 3 OF 10

D

C

B

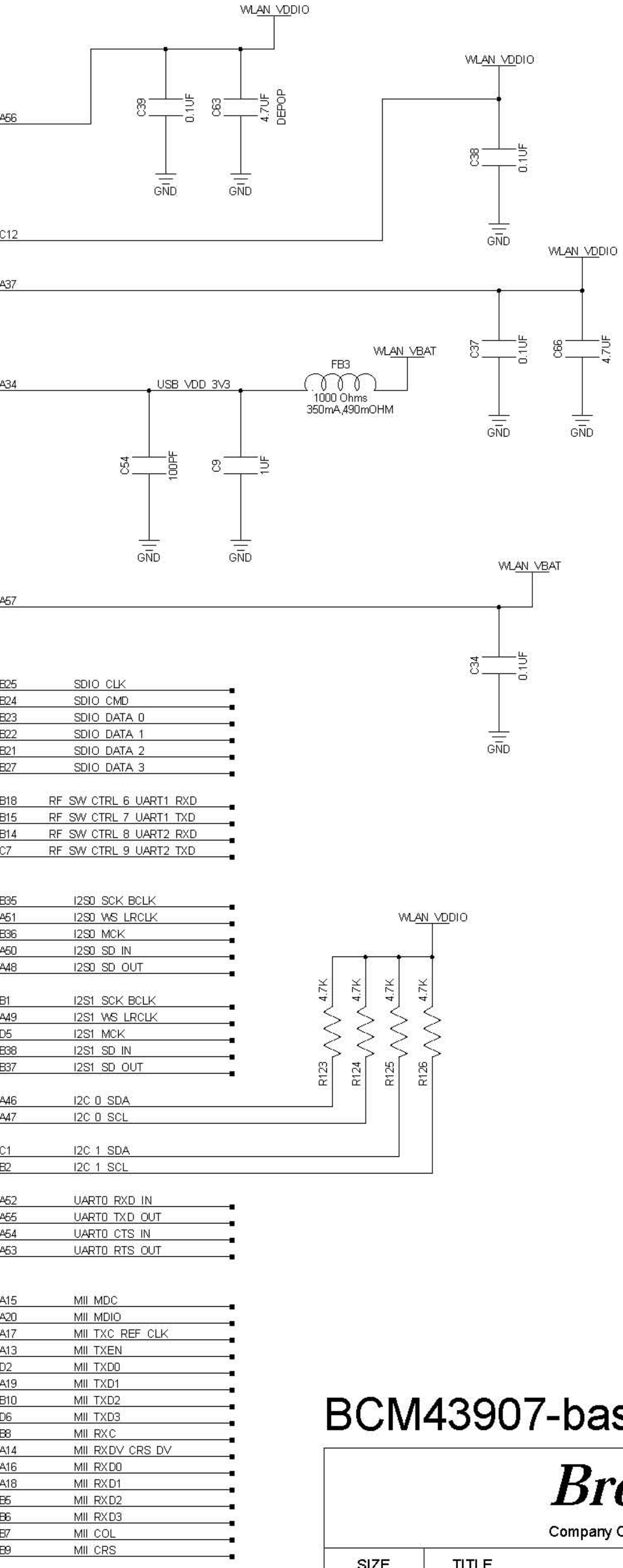
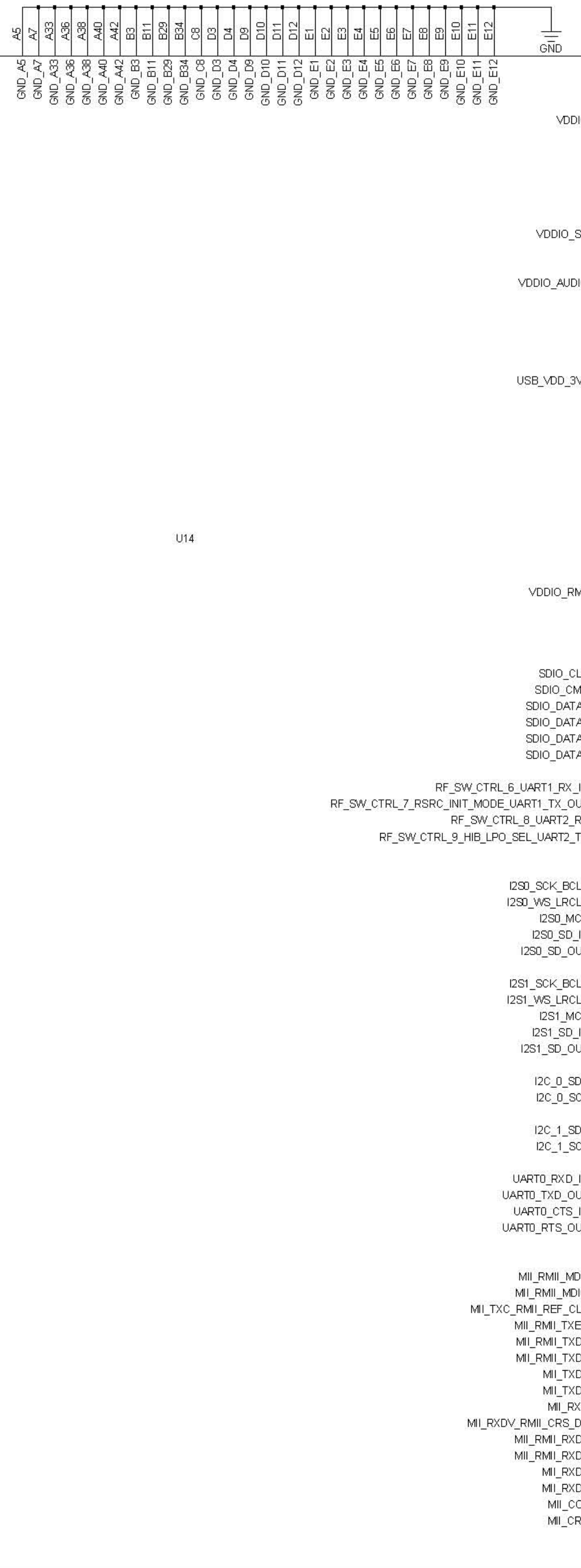
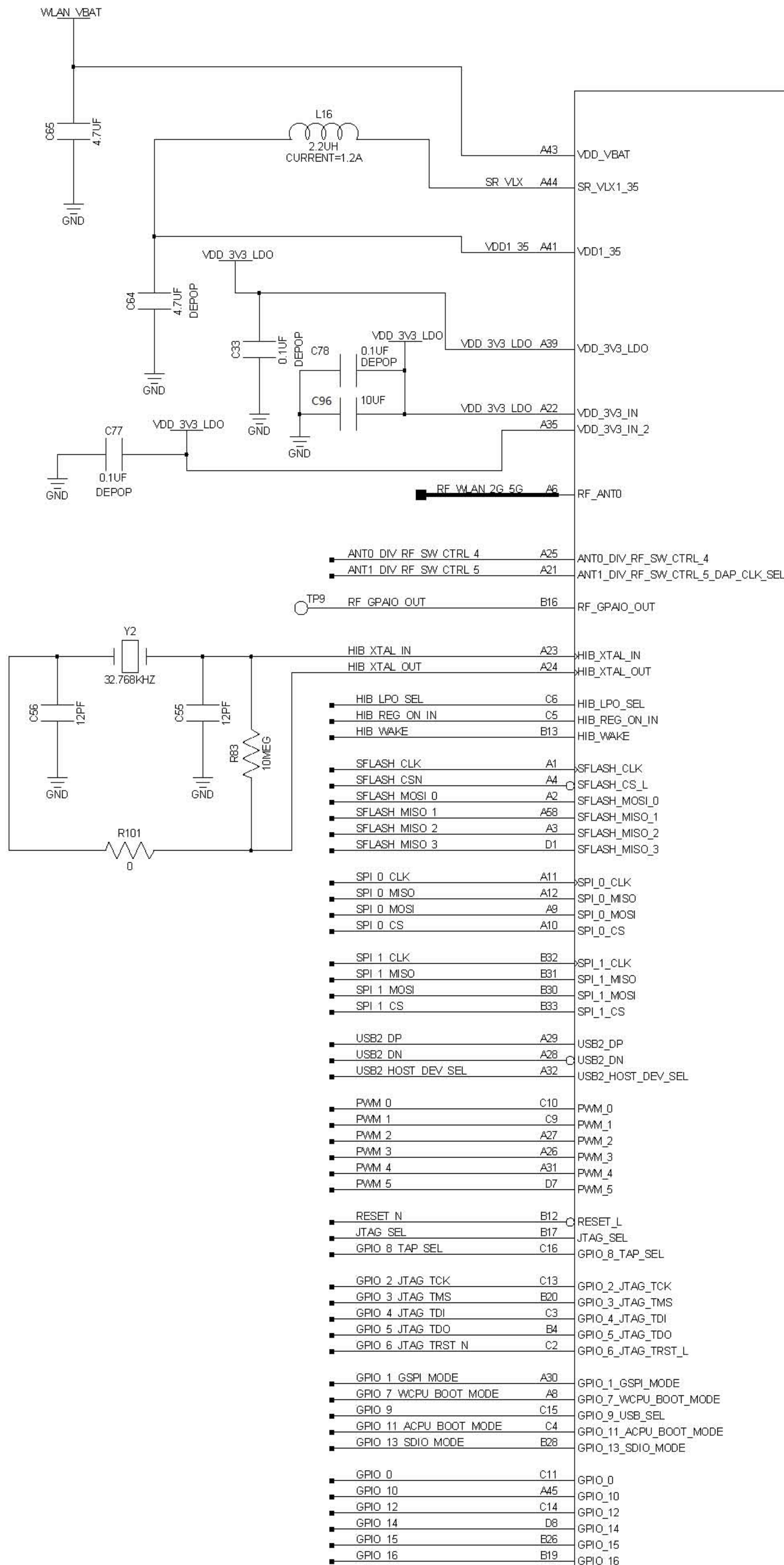
A

D

C

B

A



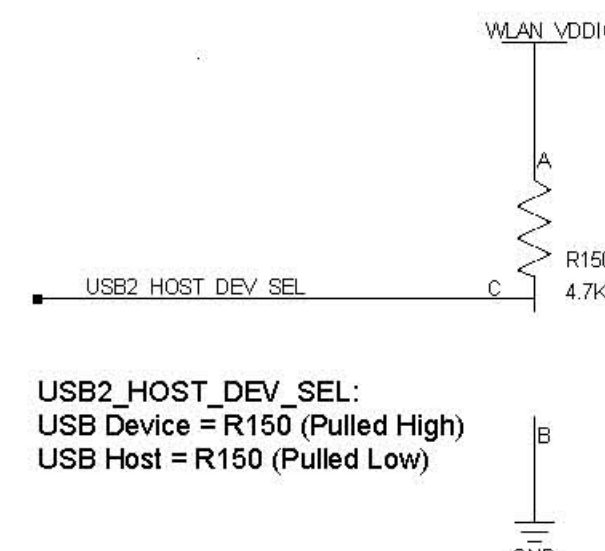
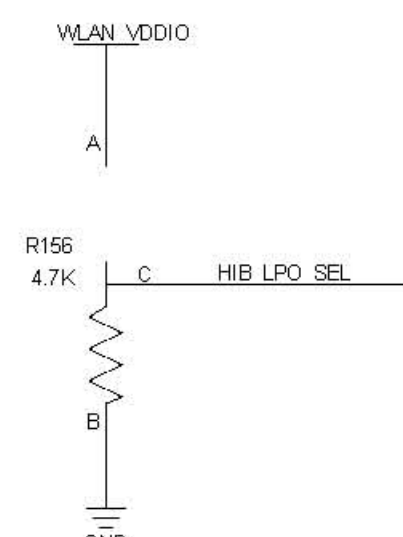
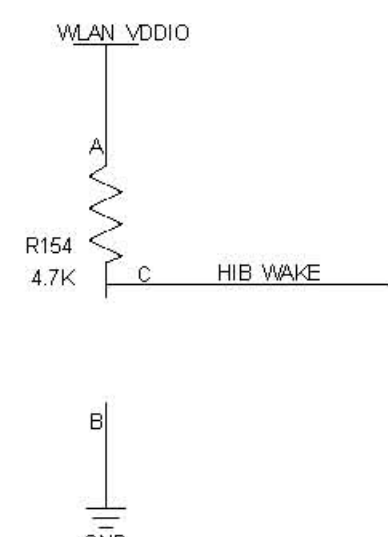
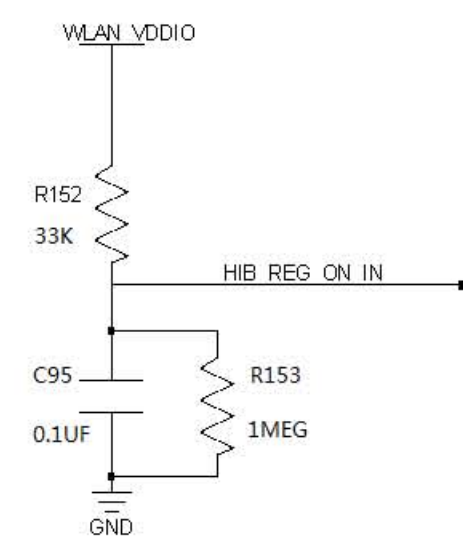
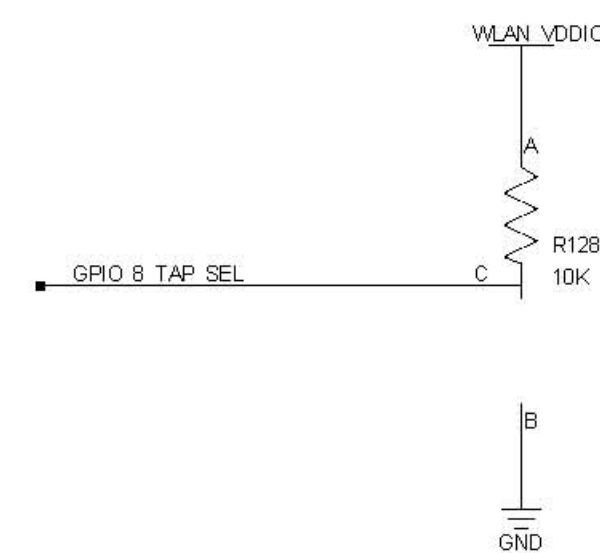
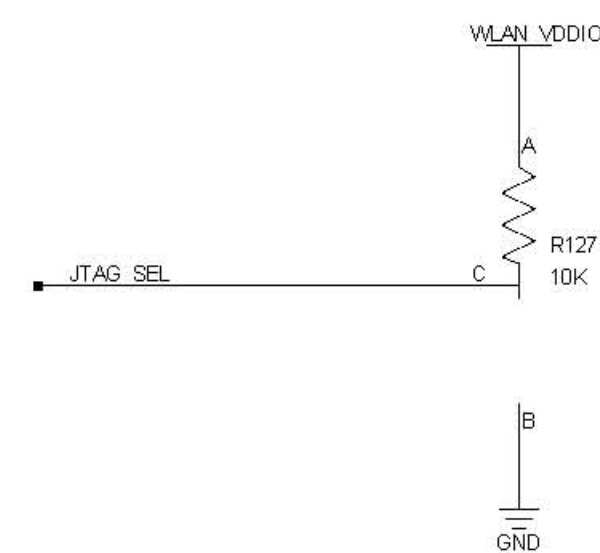
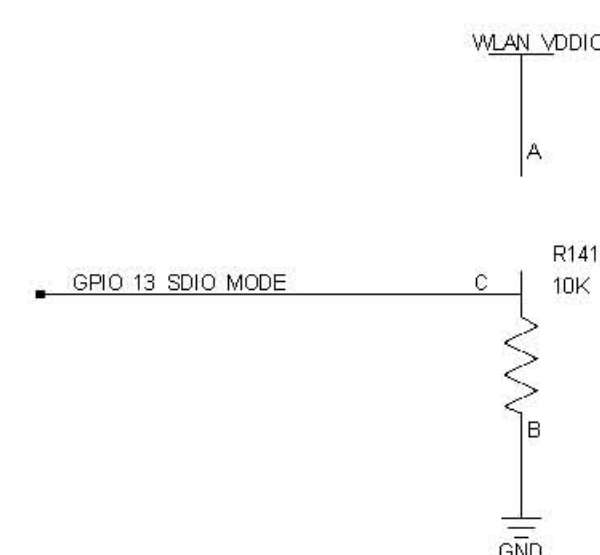
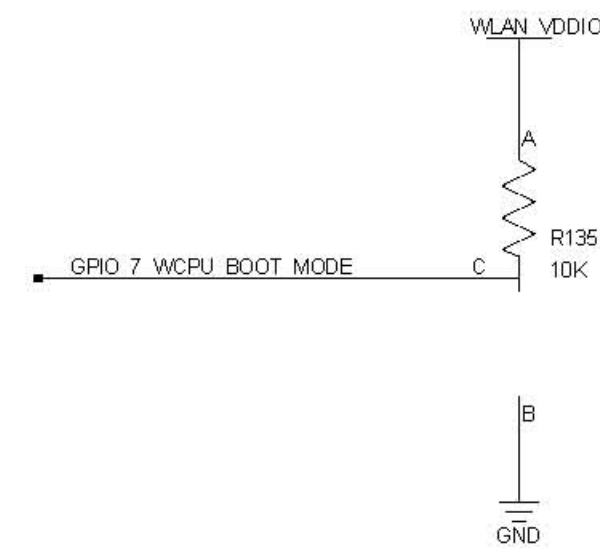
MURATA
LBWA1UZ1G0-TEMP

BCM43907-based SiP (10mm x 10mm)

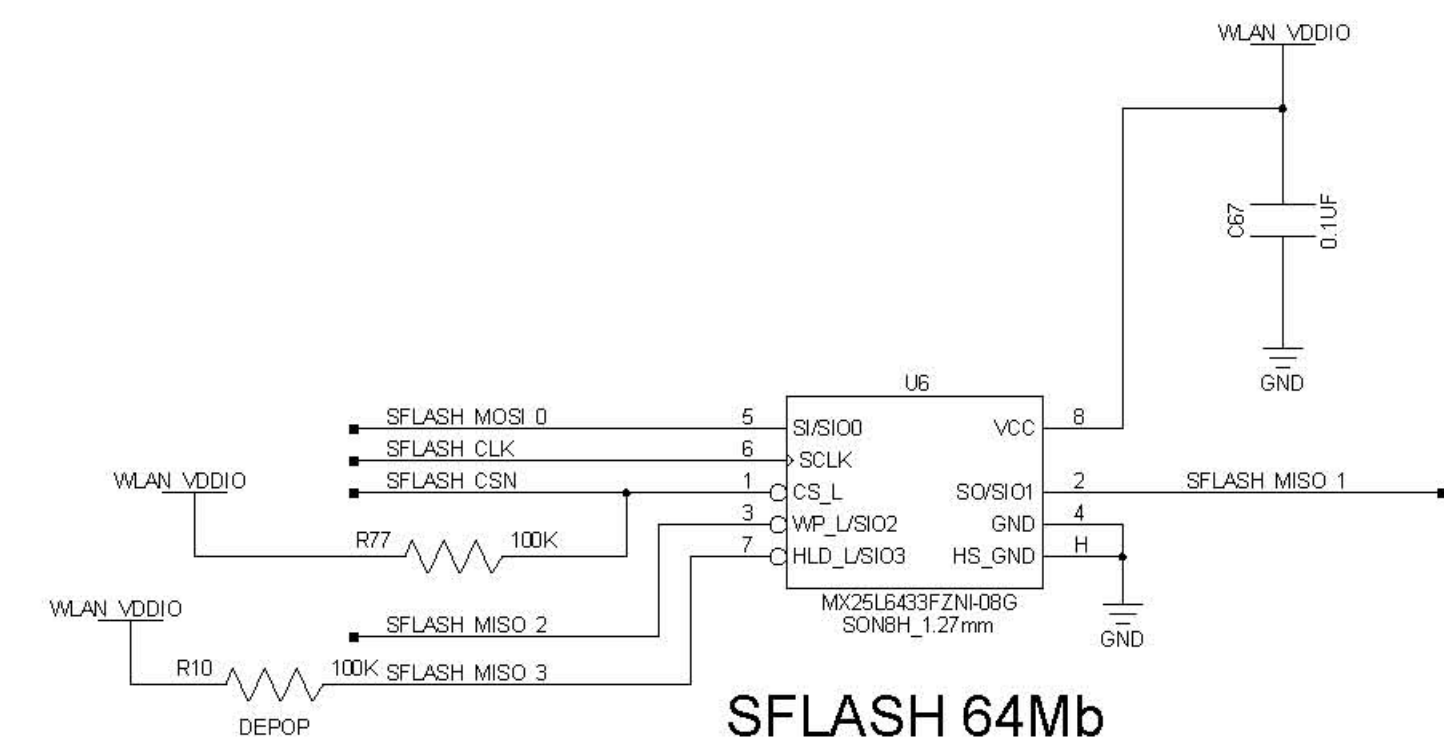
Broadcom

Company Confidential

SIZE	TITLE
B	CYW943907AEVAL1F
DATE	8/12/2016:14:02
SHEET	5 OF 10



Pin	Strap Function	Strap Pull	
		Chip Default	Board Default
GPIO_1	gSPI Mode	0	0
GPIO_7	WCPU Boot Mode : 0 = TCROM Boot 1 = TCMSRAM Boot	0	1 R135 = 10K to WLAN_VDDIO
GPIO_11	ACPU Boot Mode : 0 = SOCROM Boot 1 = SOCSRAM Boot	0	0
GPIO_13	SDIO Mode : 0 = SDIO Device 1 = SDIO Host	0	0 R141= 10K to GND
GPIO_15	(Note: GPIO_15 is not a strap option for B0 IC)	0	0
RF_SW_CTRL_5	Host DAP Clock Sel	0	0
RF_SW_CTRL_7	Host RSRC Init	0	0
RF_SW_CTRL_9	LPO Sel : 0 = LPO from HIB	0	0



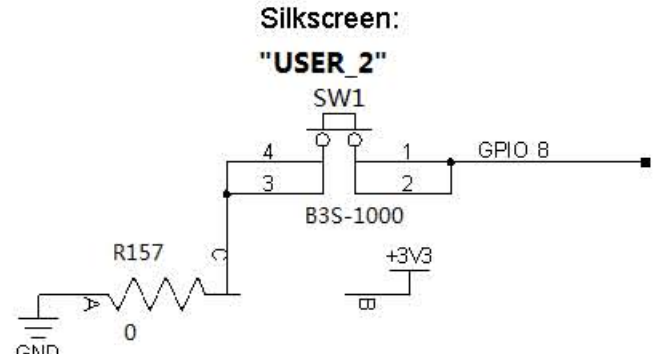
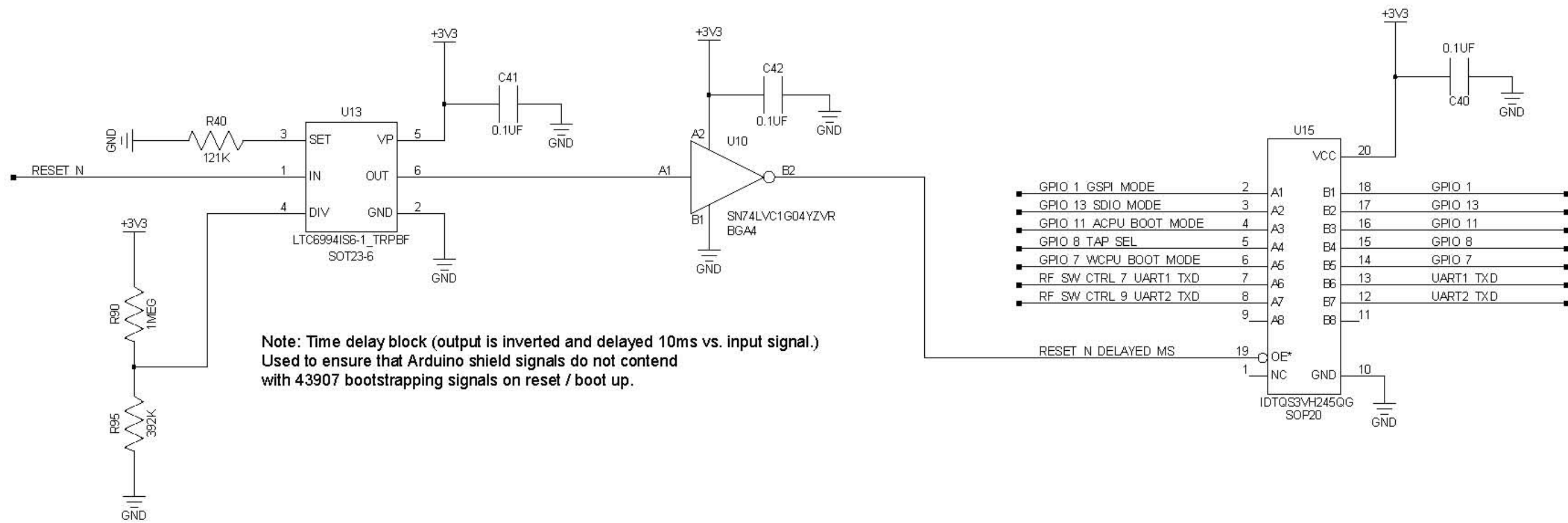
BOOTSTRAPS + SFLASH

Broadcom

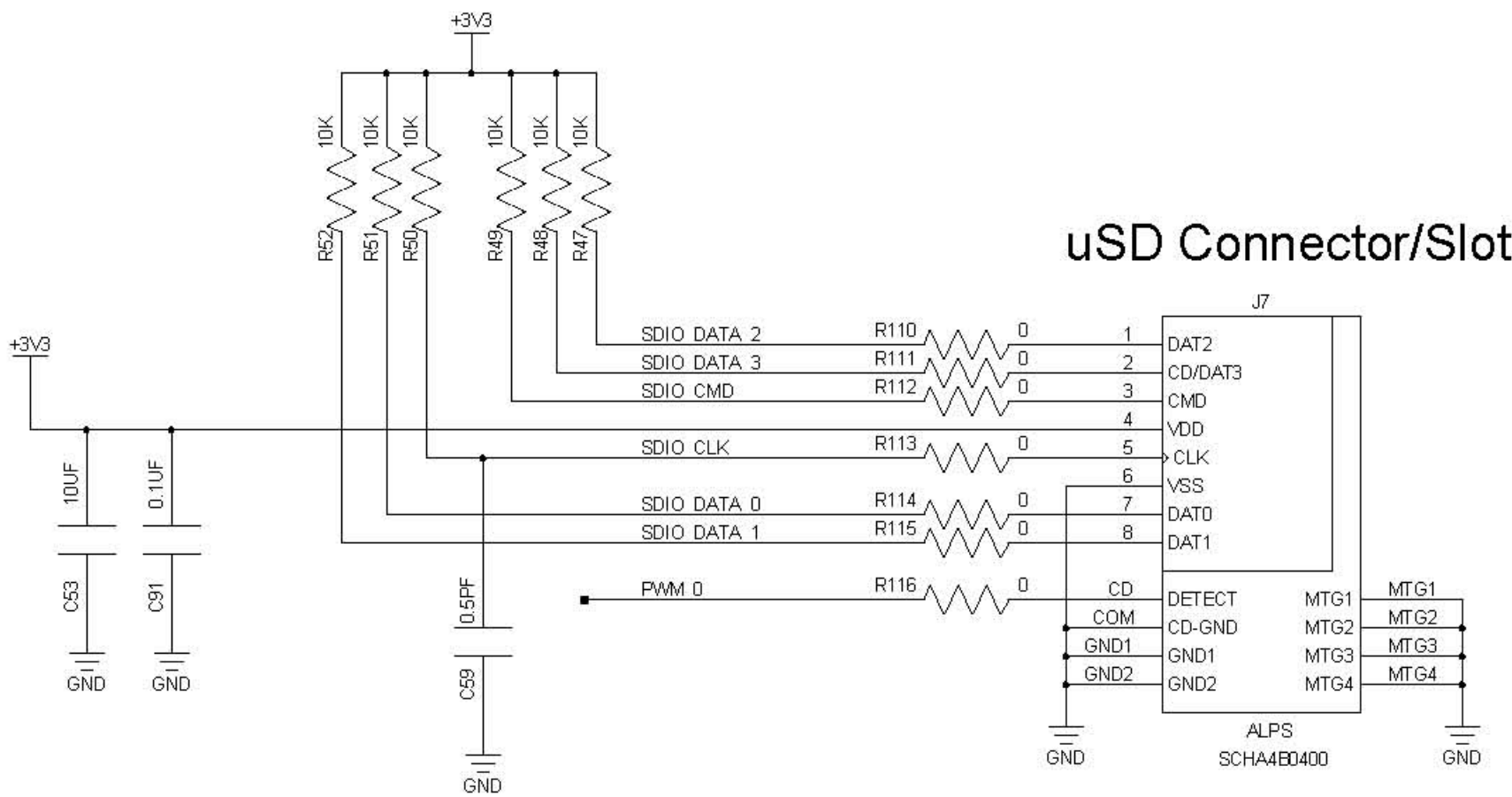
Company Confidential

SIZE B	TITLE CYW943907AEVAL1F			
DATE	8/12/2016:14:02		SHEET	6 OF 10

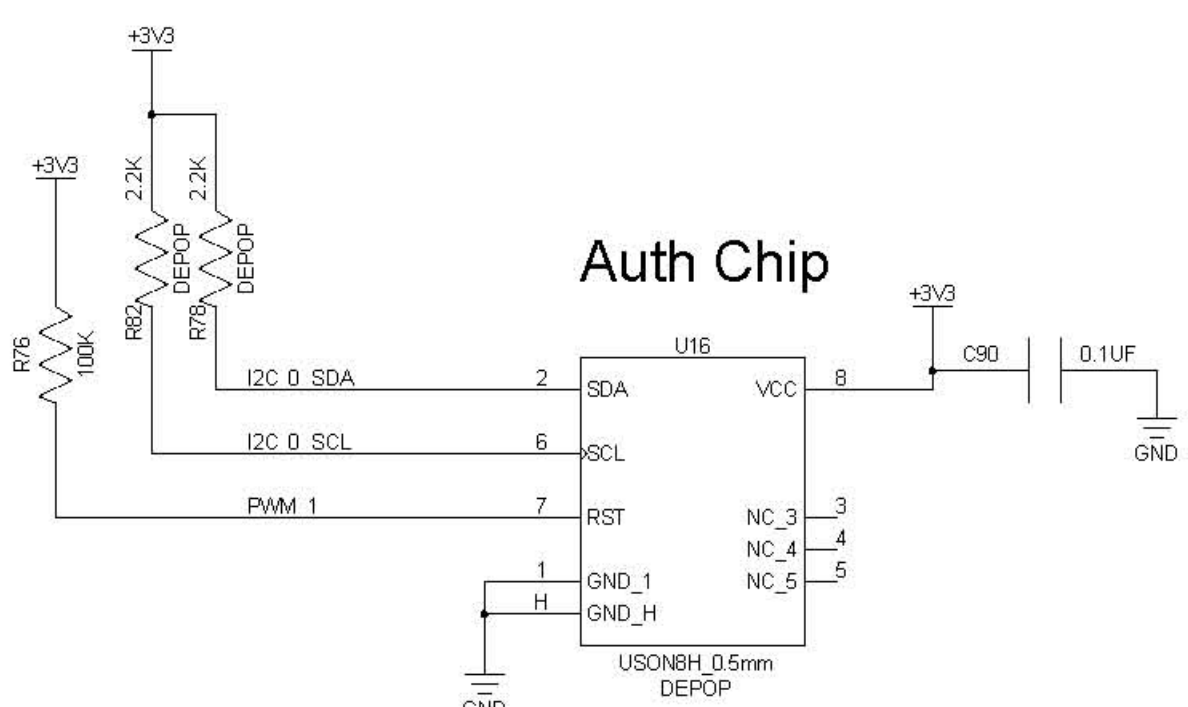
Reset Delay



uSD Connector/Slot



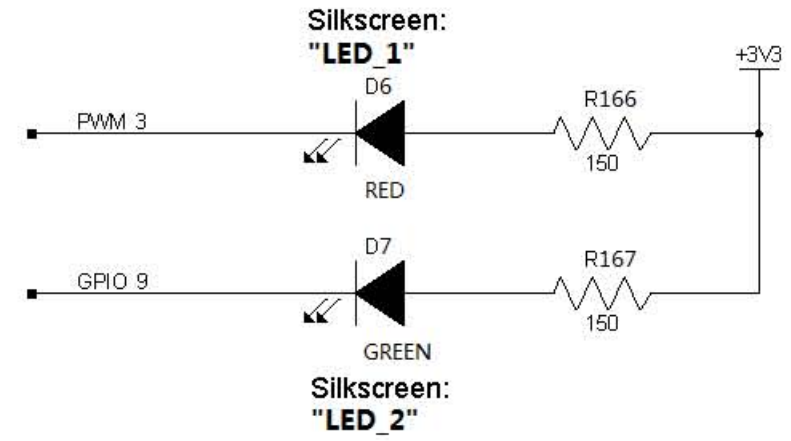
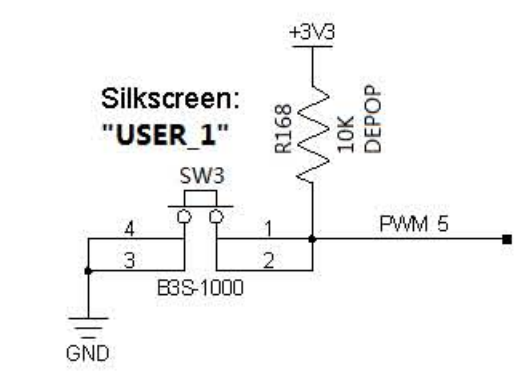
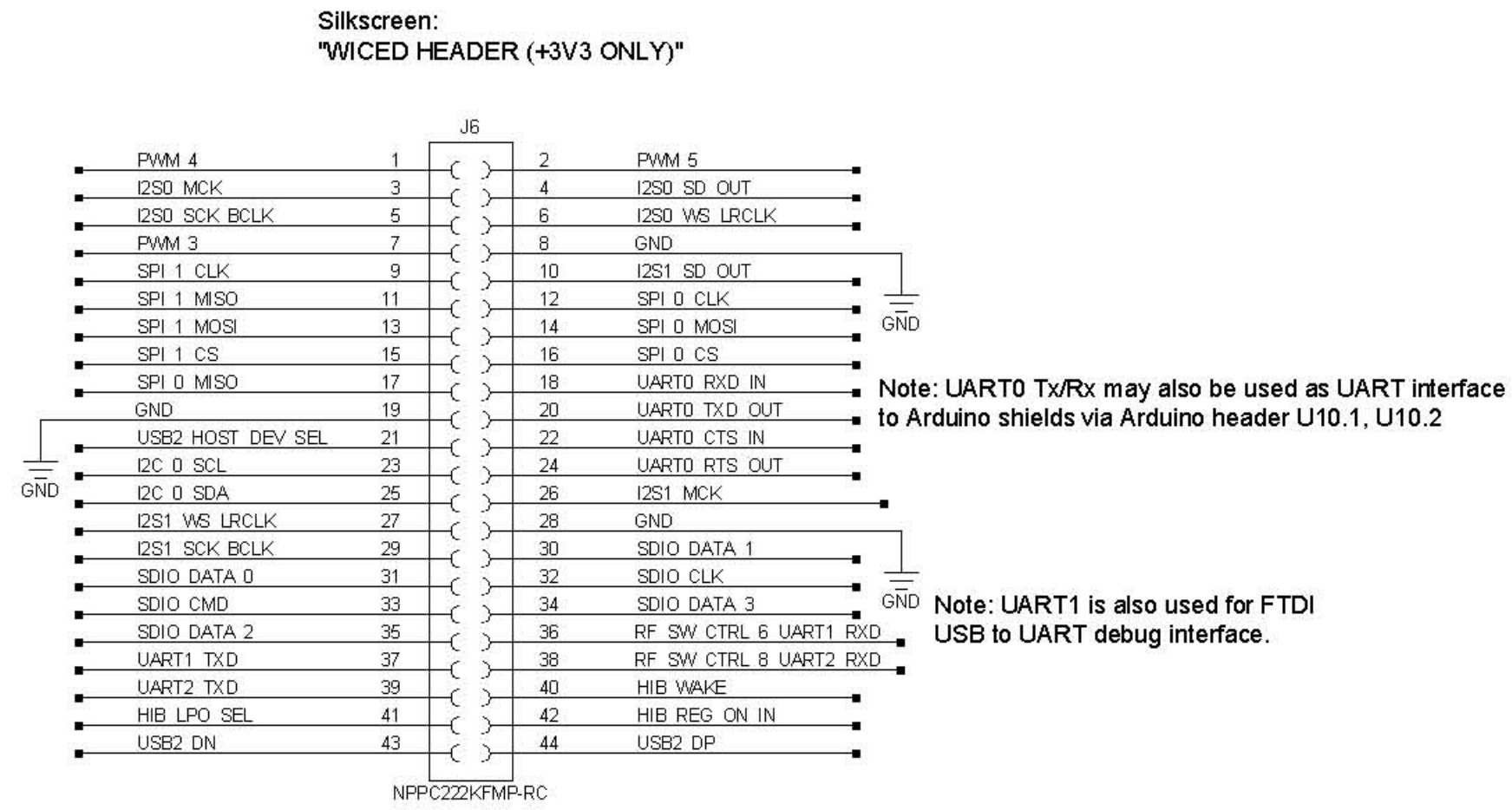
Auth Chip



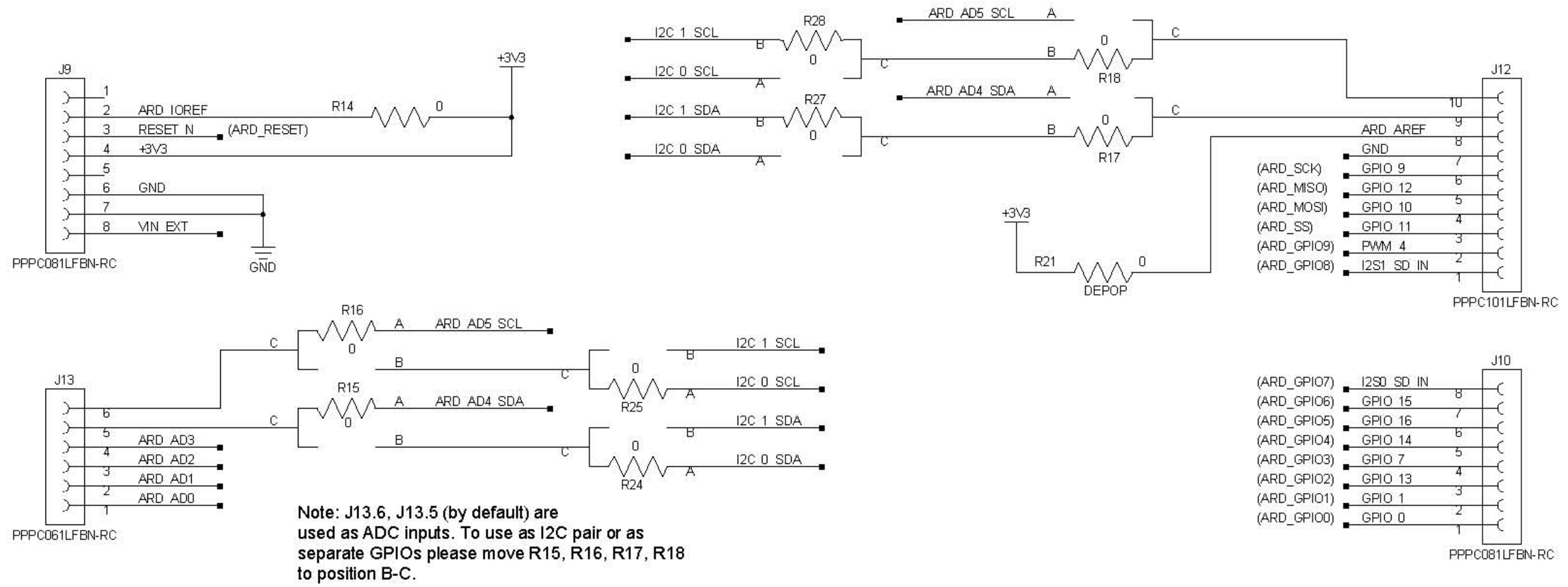
RESET DELAY, AUTH IC, uSD CARD

<div><div><div>Broadcom</div><div>Company Confidential</div></div></div>		
SIZE	TITLE	
B	CYW943907AEVAL1F	
DATE	8/12/2016:14:02	SHEET 8 OF 10

WICED Header (+3V3 I/O only)



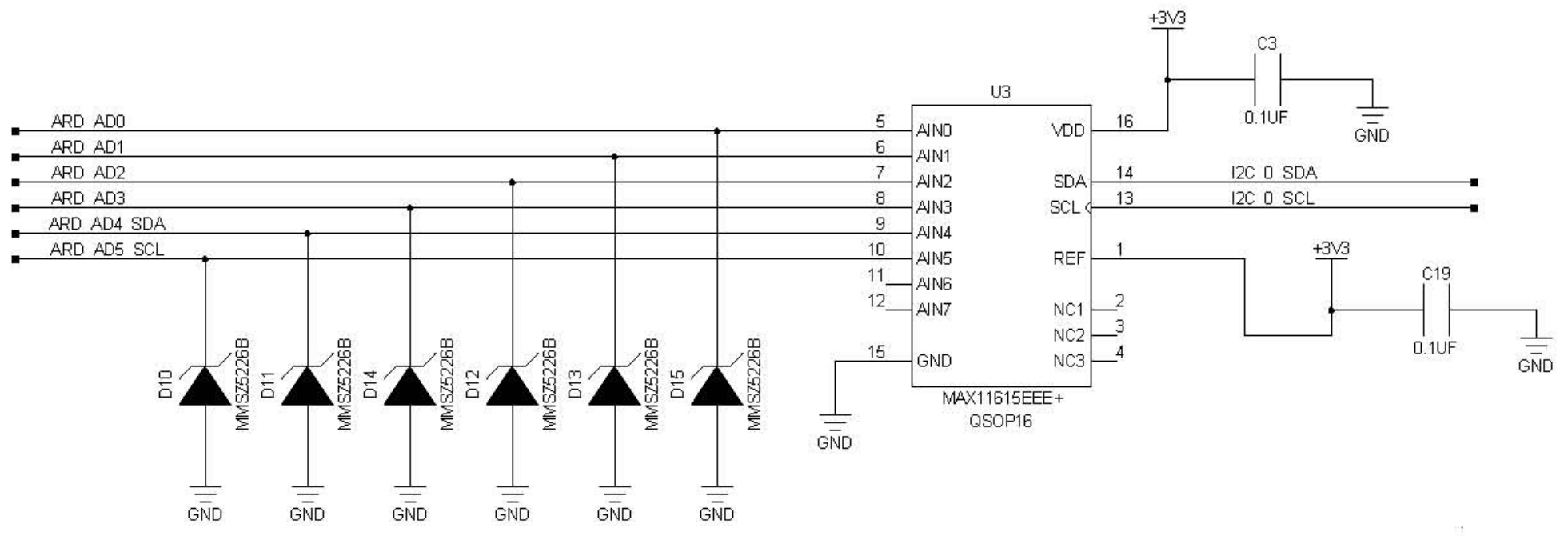
Arduino-compatible Headers (+3V3 I/O only)



Place acrylic feet at the corners (or as close to) of the board on the bottom layer.
Make sure they to not overlap the edge of the board.

F3 NON PCB MOUNT PART RUBBER,FEET,9.5X3.8mm,ACRYLIC TRANSPARENT SJ5306	F4 NON PCB MOUNT PART RUBBER,FEET,9.5X3.8mm,ACRYLIC TRANSPARENT SJ5306
F5 NON PCB MOUNT PART RUBBER,FEET,9.5X3.8mm,ACRYLIC TRANSPARENT SJ5306	F6 NON PCB MOUNT PART RUBBER,FEET,9.5X3.8mm,ACRYLIC TRANSPARENT SJ5306
ZJ1 NON PCB MOUNT PART CEL,USB-A/MICROUSB-B,MM,2ft,45P DATA CABLE,BROADPEBBLE 99-110080-0001	

External ADC



ARDUINO + WICED HEADERS, ADC

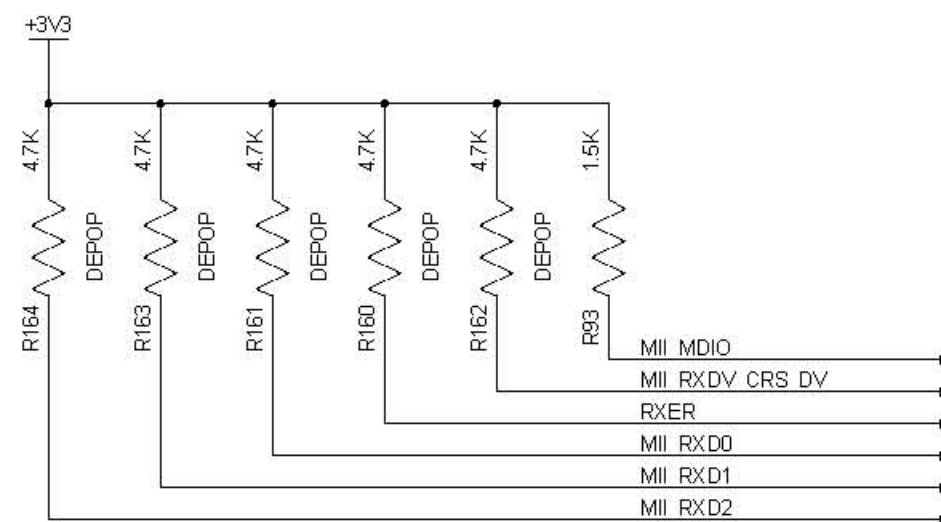
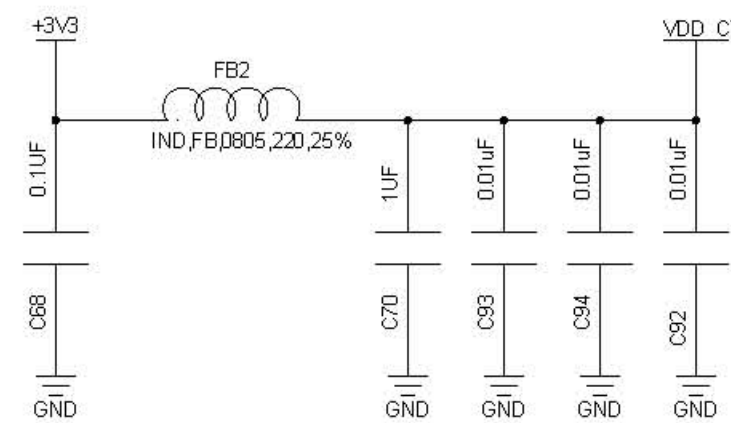
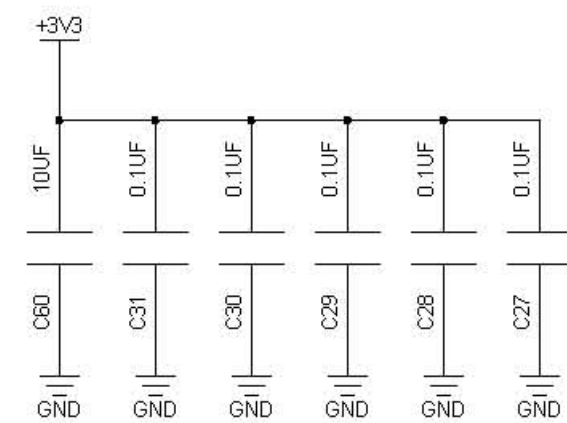
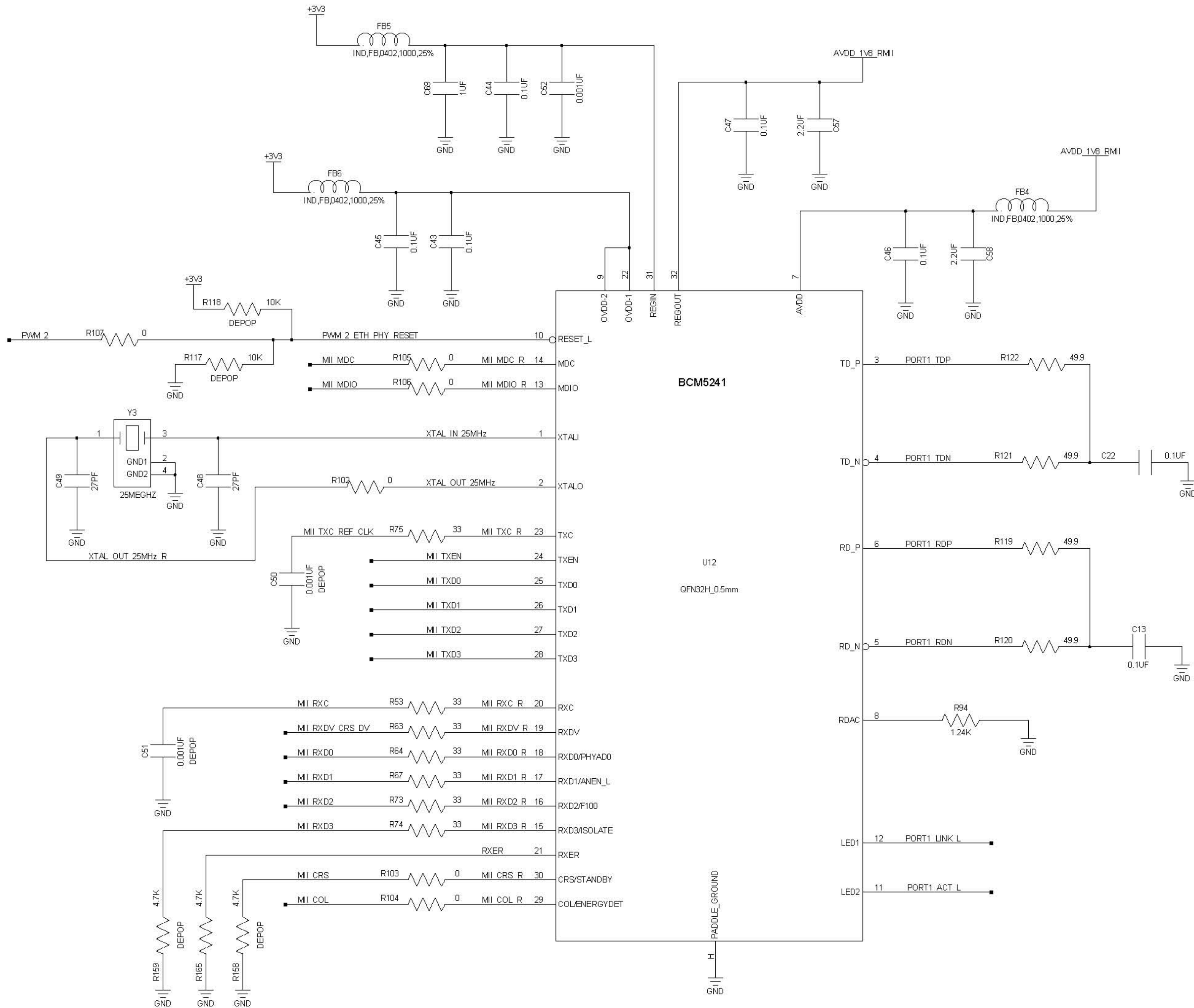
Broadcom Company Confidential	
SIZE B	TITLE CYW943907AEVAL1F
DATE 8/12/2016:14:02	SHEET 9 OF 10

D

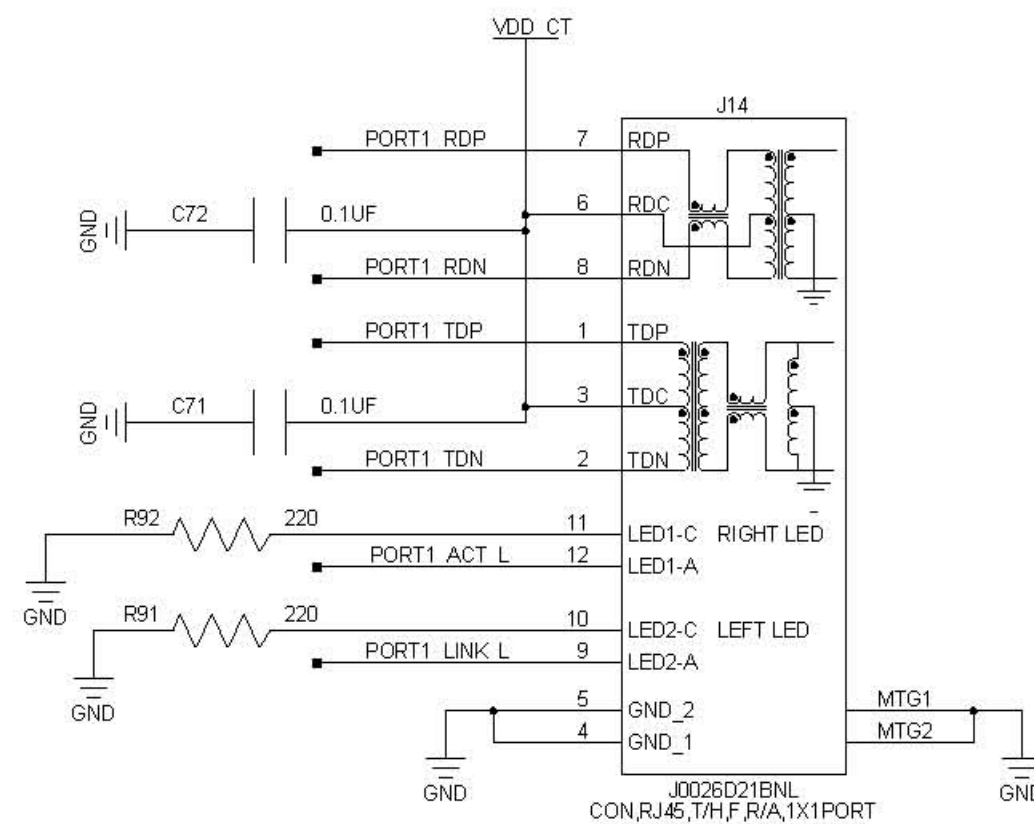
C

B

A



Ethernet connector



MII

Broadcom Company Confidential		
SIZE B	TITLE CYW943907AEVAL1F	
DATE	8/12/2016:14:02	SHEET 10 OF 10

D

C

B

A