

BCM94343WWCD1_1: BCM4343W WLBGA + STM32F411

Preliminary schematic, subject to changes

Page 1 - Revision and Notes

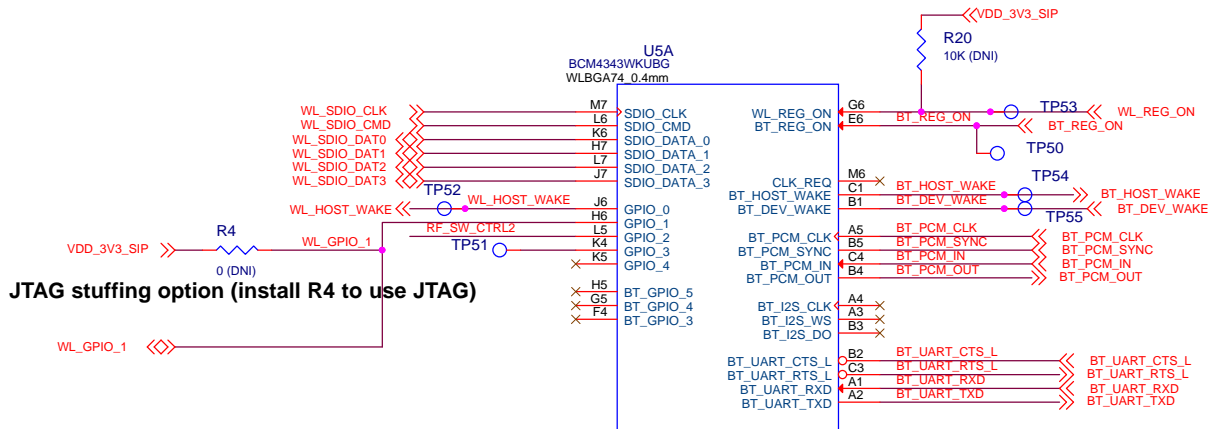
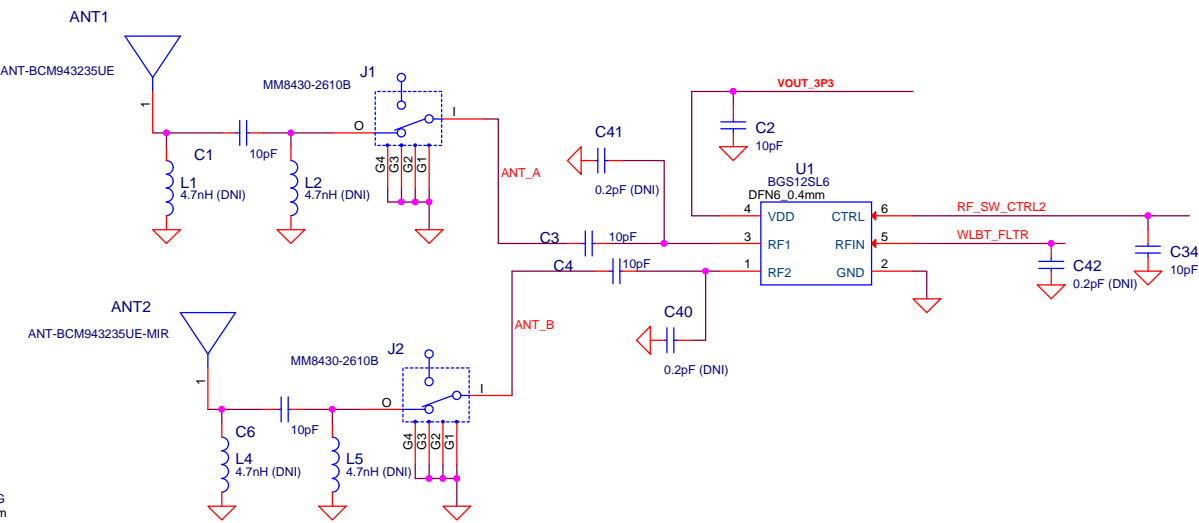
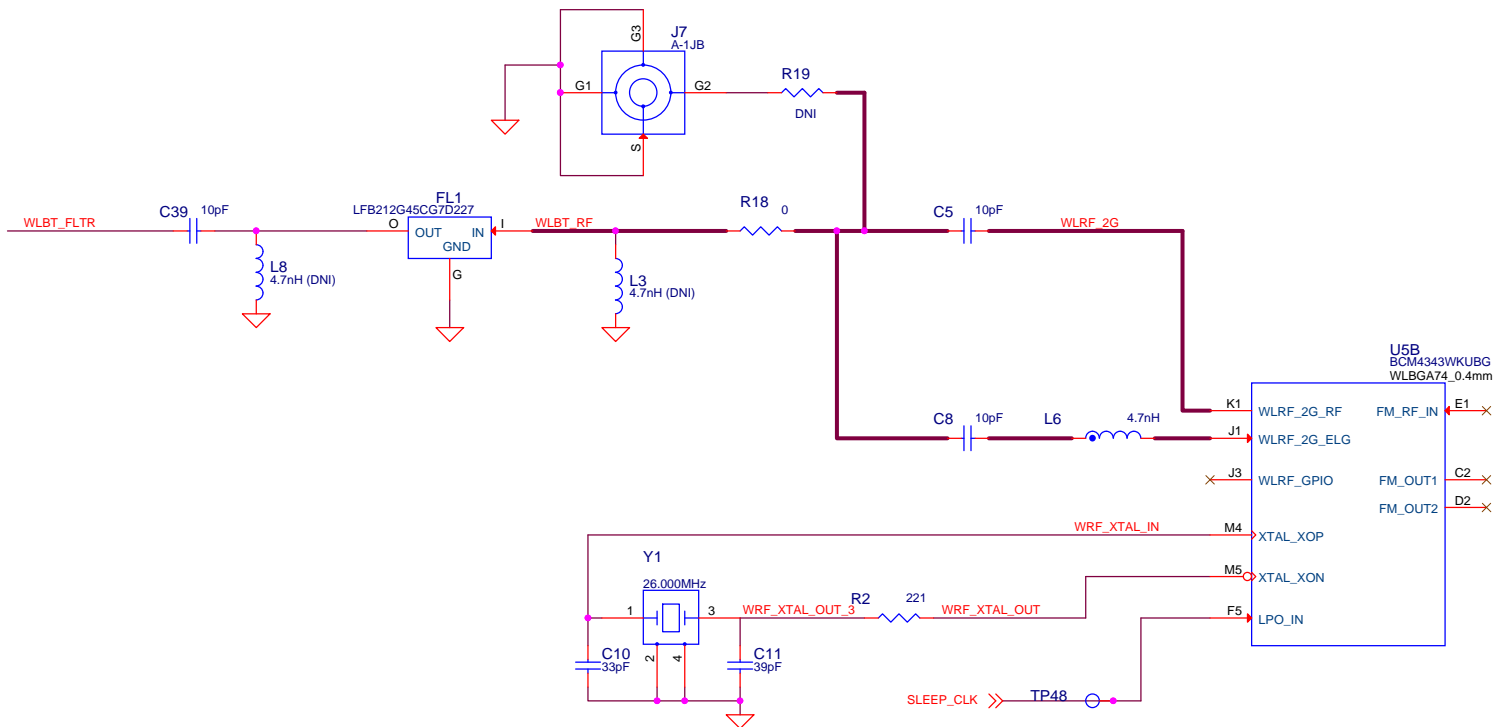
Page 2 - BCM4343W WLBGA Section

Page 3 - STM32F411 Section

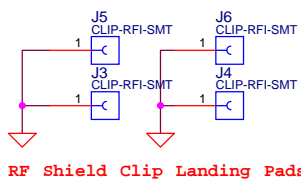
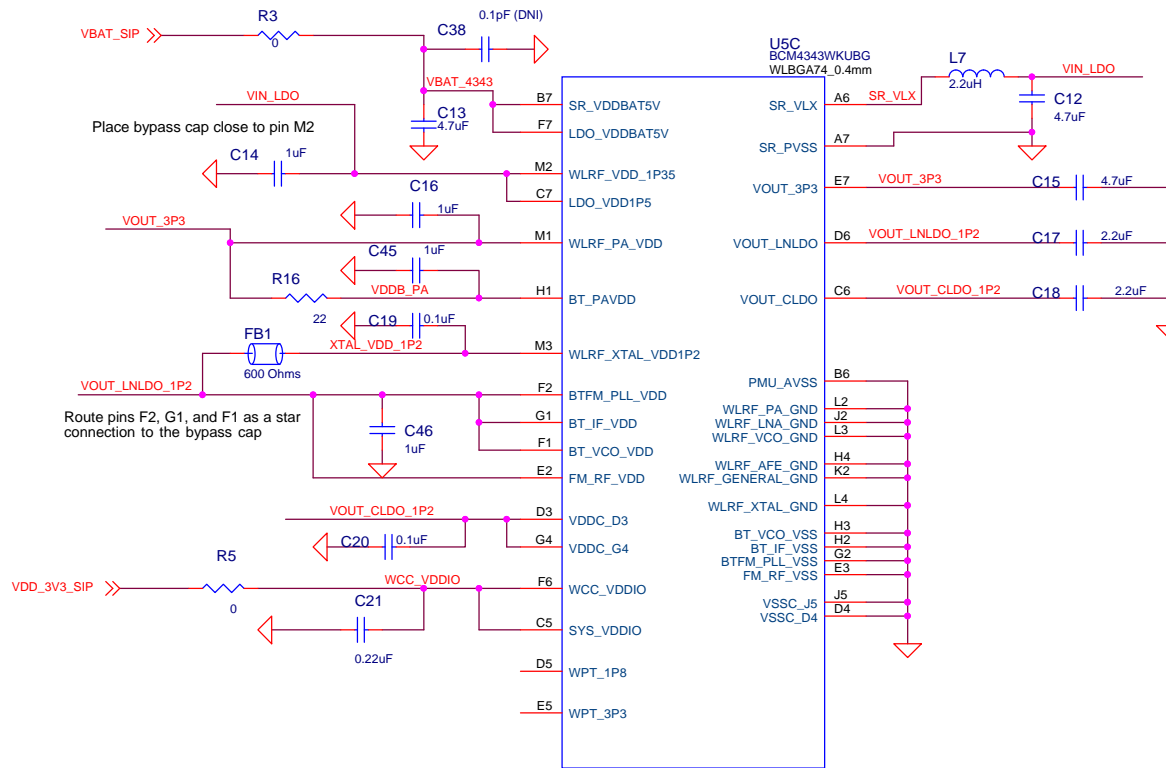
BOM ITEMS	
PCB	
<div>PCB NUMBER: 200-129295-0010 PCB NAME: BCM94343WWCD1_1</div>	
ASSEMBLY INSTRUCTIONS	
SHIELD	
SIP Shield: 210-128955-0010	<div>ZH1 210-128955-0010</div>

	Cypress Corporation 5300 California Avenue Irvine, CA 92617 Phone: (949) 926-5000			
	BCM94343WWCD1_1			
	Size	Custom	DWG NO 824-129295-0010	Rev 02
Friday, June 05, 2015	Scale	Deval Dave	Sheet 1 of 3	

WLAN: BCM4343W WLBGA

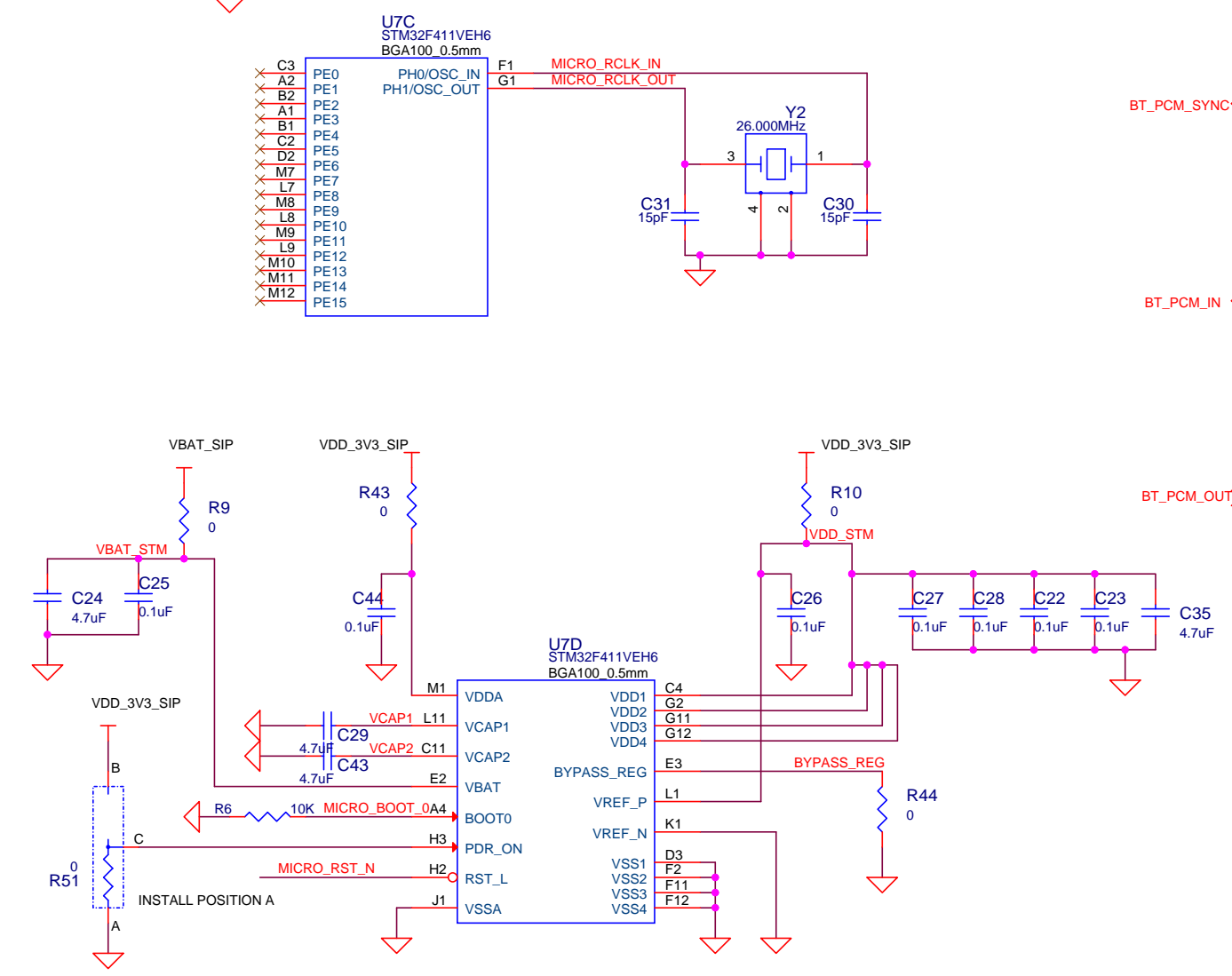
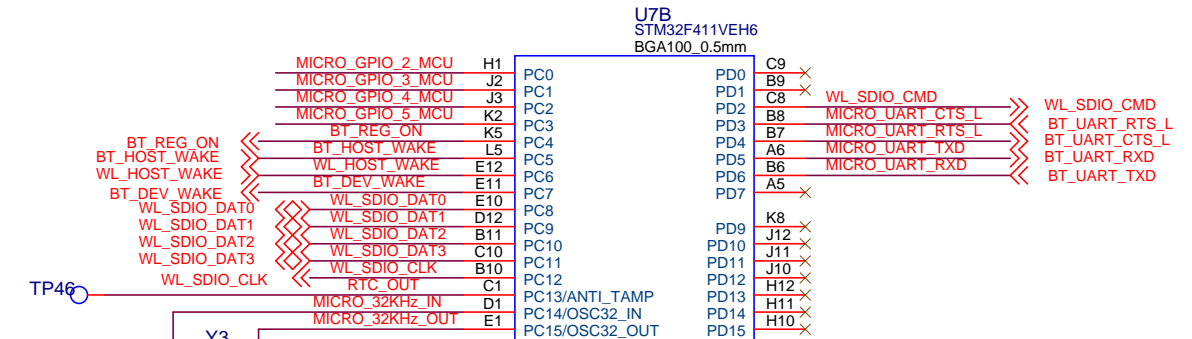
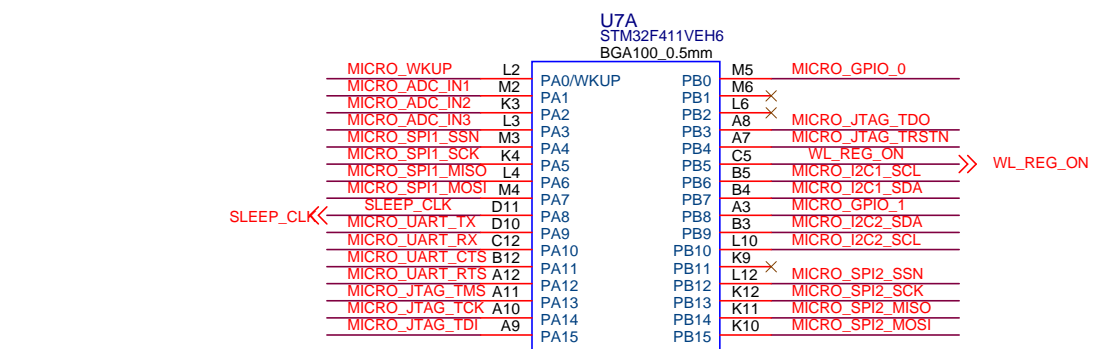


SDIO INTERFACE

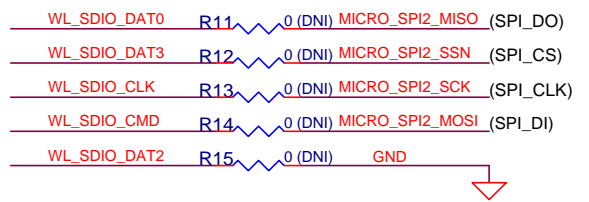


RF Shield Clip Landing Pads

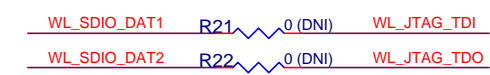
	Cypress Corporation	
	5300 California Avenue Irvine, CA 92617 Phone: (949) 926-5000	
BCM94343WWCD1_1		
Size	Custom	DWG NO
		824-129295-0010
Rev		02
Scale	Deval Dave	Sheet
		2 of 3
Friday, June 05, 2015		



To use SPI2 between BCM4343W and STM32F411:
Install R11, R12, R13, R14 and R15.
(R15 is used to select SPI mode for BCM4343W)

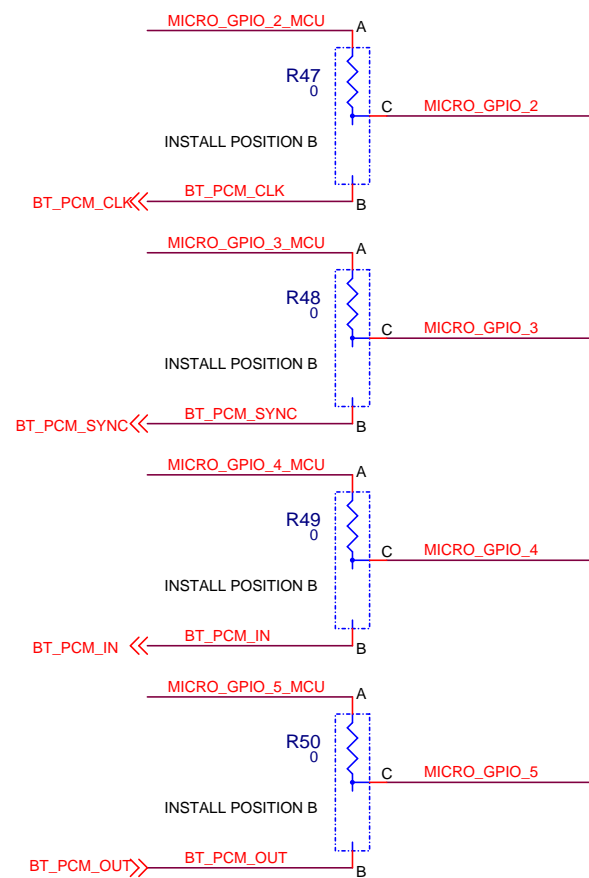


To use WLAN JTAG, Install R4



To use GPIO Signals to STM32F411, Install Position AC.

To use BT PCM Signals directly to BCM43438, Install Position BC (Default).

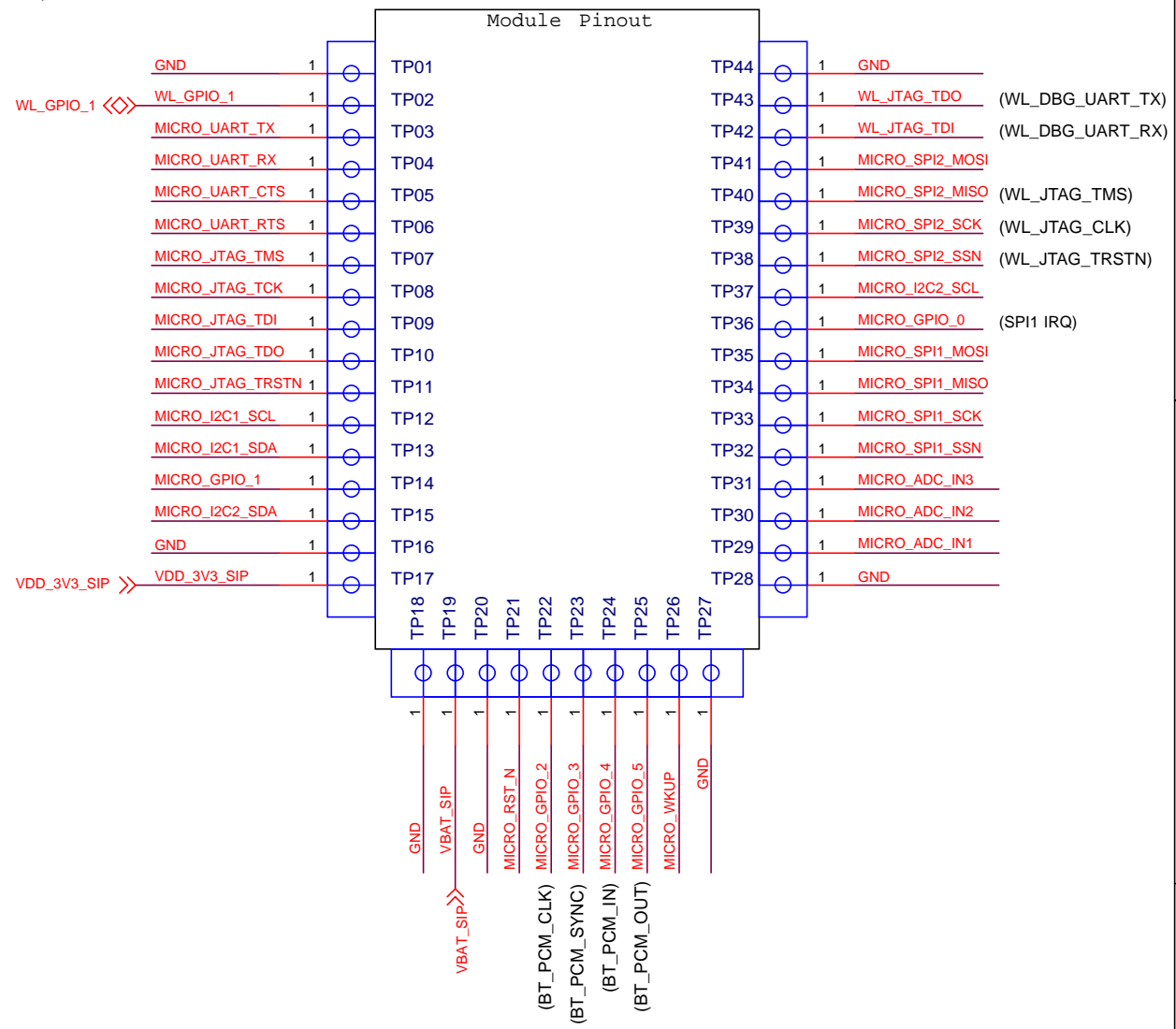


SDIO / SPI Interface Options:

SDIO	STM32F411 Pin Number	STM32F411 Port/Pin		BCM4343W Pin Number	Function
	B10	PC12	<--->	M7	SDIO_CLK
	C8	PD2	<--->	L6	SDIO_CMD
	E10	PC8	<--->	K6	SDIO_DATA_0
	D12	PC9	<--->	H7	SDIO_DATA_1
	B11	PC10	<--->	L7	SDIO_DATA_2
	C10	PC11	<--->	J7	SDIO_DATA_3

SPI	STM32F411 Pin Number	STM32F411 Port/Pin		BCM4343W Pin Number	Function
	K12	PB13	<--->	M7	SPI_CLK
	K10	PB15	<--->	L6	SPI_MOSI
	K11	PB14	<--->	K6	SPI_MISO
	C10	PC11	<--->	J7	SPI_CS
	D12	PC9	<--->	H7	SPI_IRQ

Note: Only one set of communication lines are required to be connected between the microcontroller and wlan device (either SDIO or SPI). Please select one set based on the table above. It is NOT necessary to connect both SPI and SDIO.





Cypress Corporation
5300 California Avenue
Irvine, CA 92617
Phone: (949) 926-5000

BCM94343WWCD1_1

Size	Custom	DWG NO	824-129295-0010	Rev	02
Scale		Sheet	3 of 3		

Friday, June 05, 2015

Deval Dave