

BCM943438WCD1_1: BCM43438 WLBGA + STM32F411

Preliminary schematic, subject to changes

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BOM ITEMS

PCB

PCB NUMBER: 200-129648-0010
PCB NAME: BCM943438WCD1_1

ASSEMBLY INSTRUCTIONS

SHIELD

SIP Shield: 210-128955-0010

ZH1
210-128955-0010



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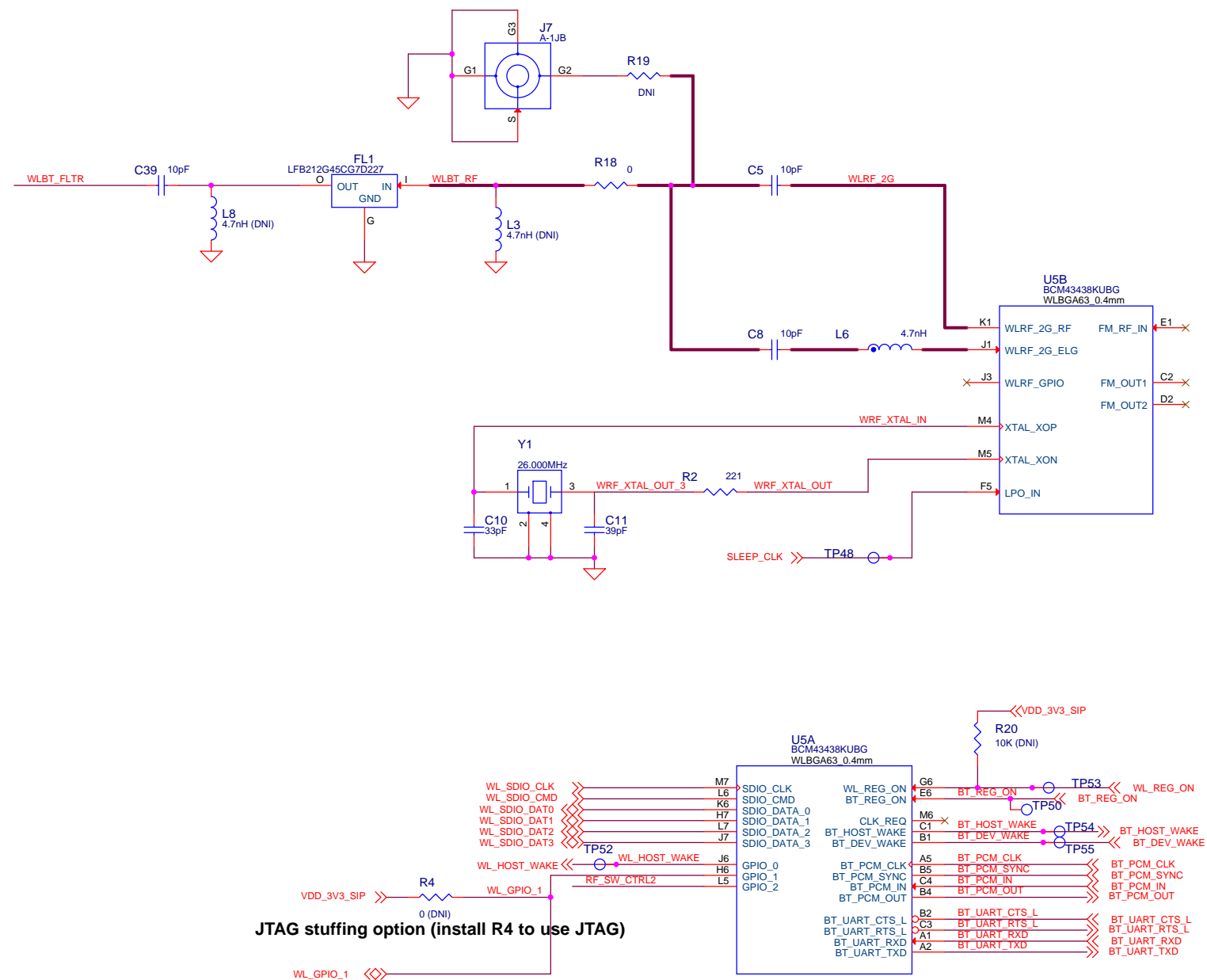
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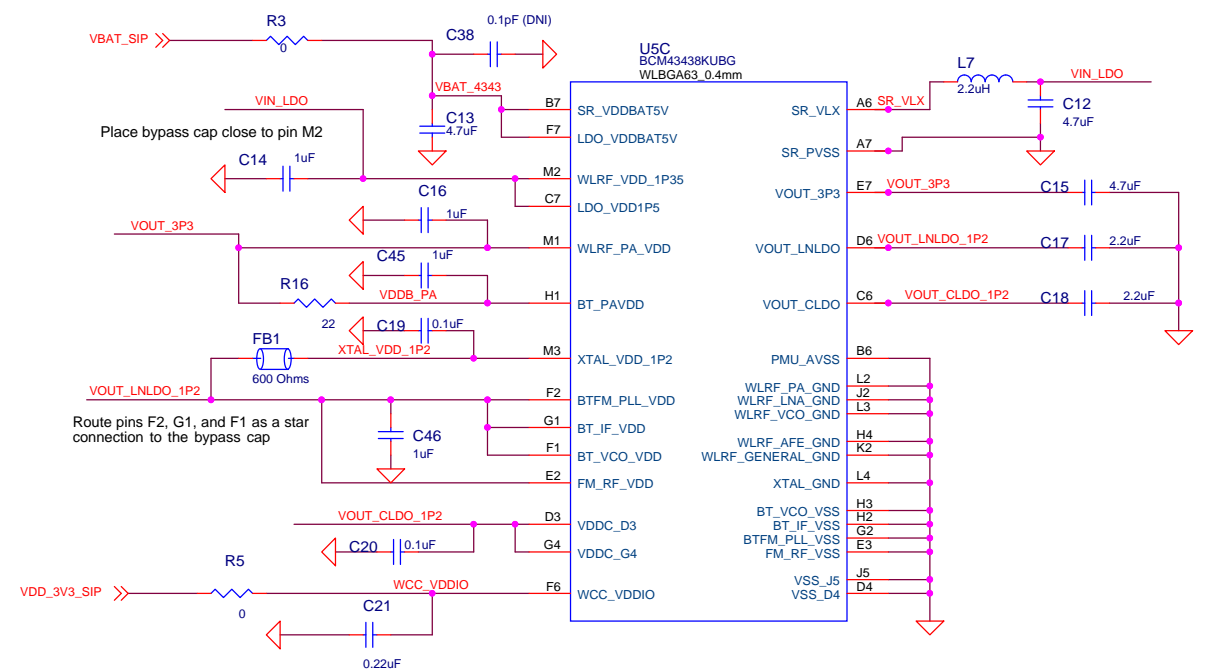
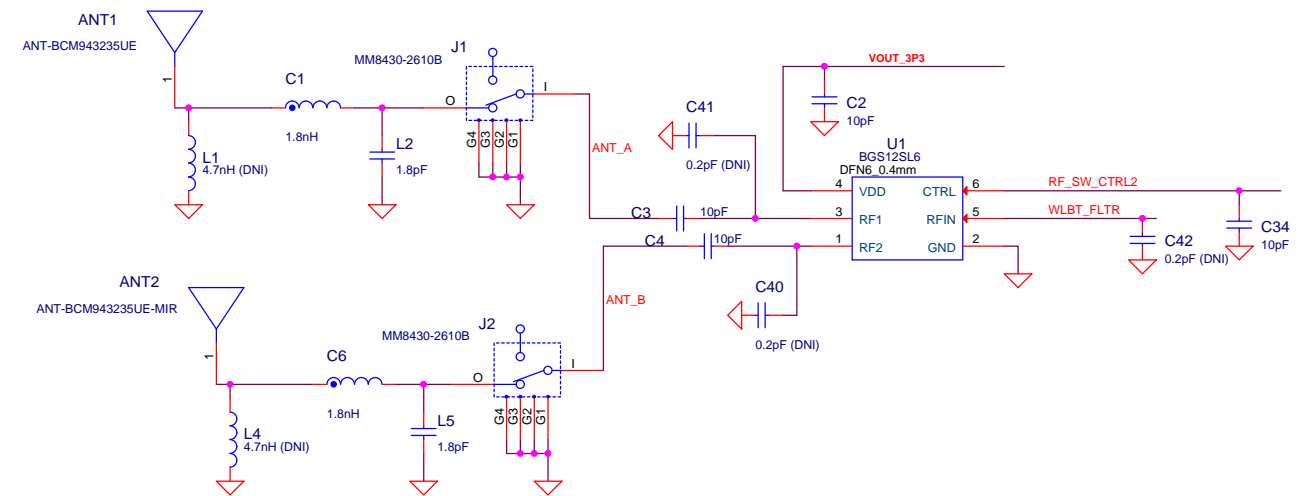
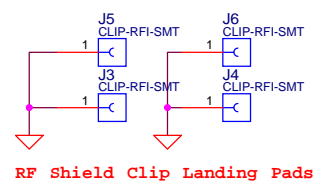
BCM943438WCD1_1


	Size	Custom	DWG NO	Rev
			824-129648-0010	01
Monday, August 24, 2015	Scale	Deval Dave	Sheet	1 of 3

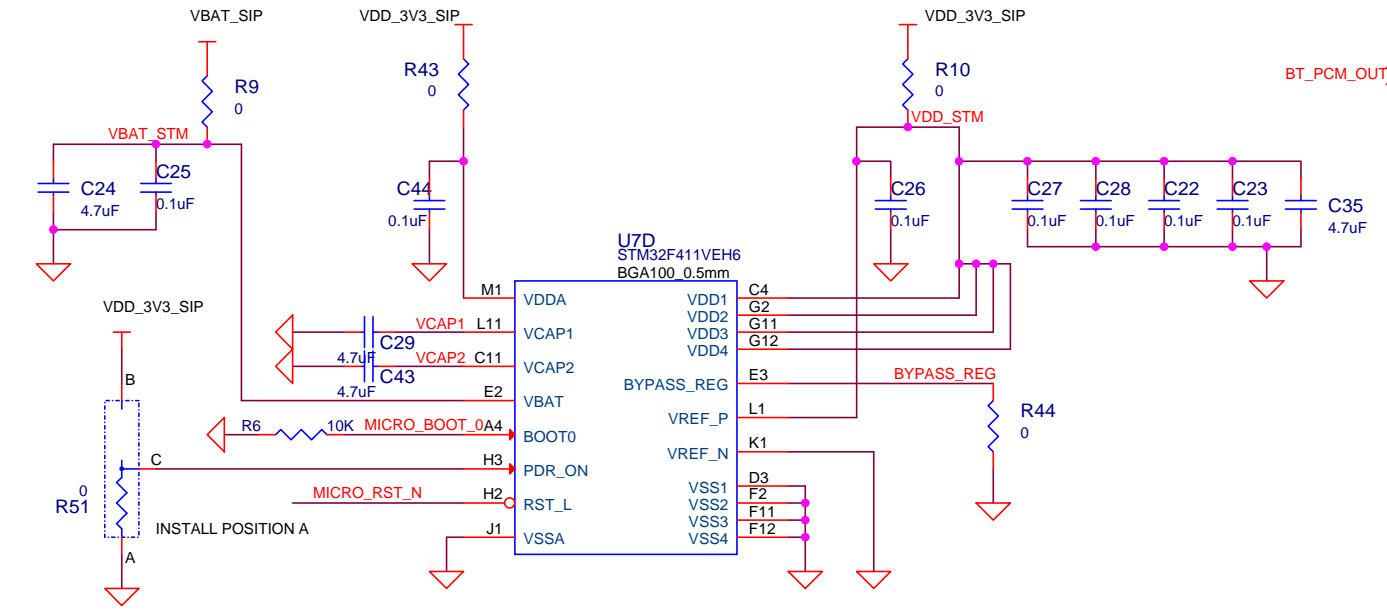
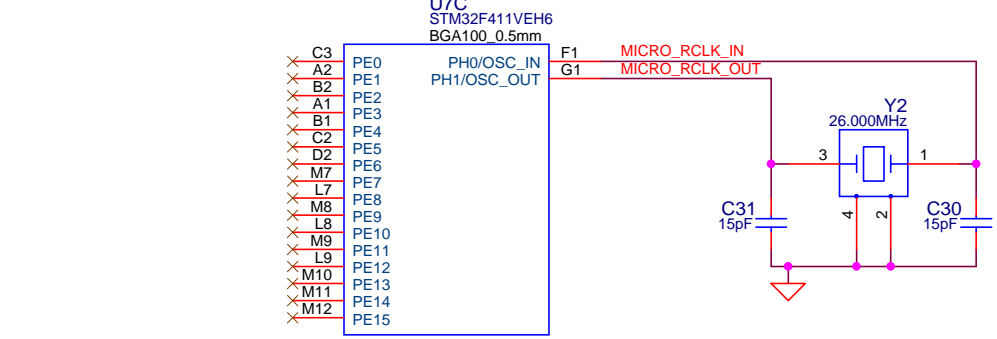
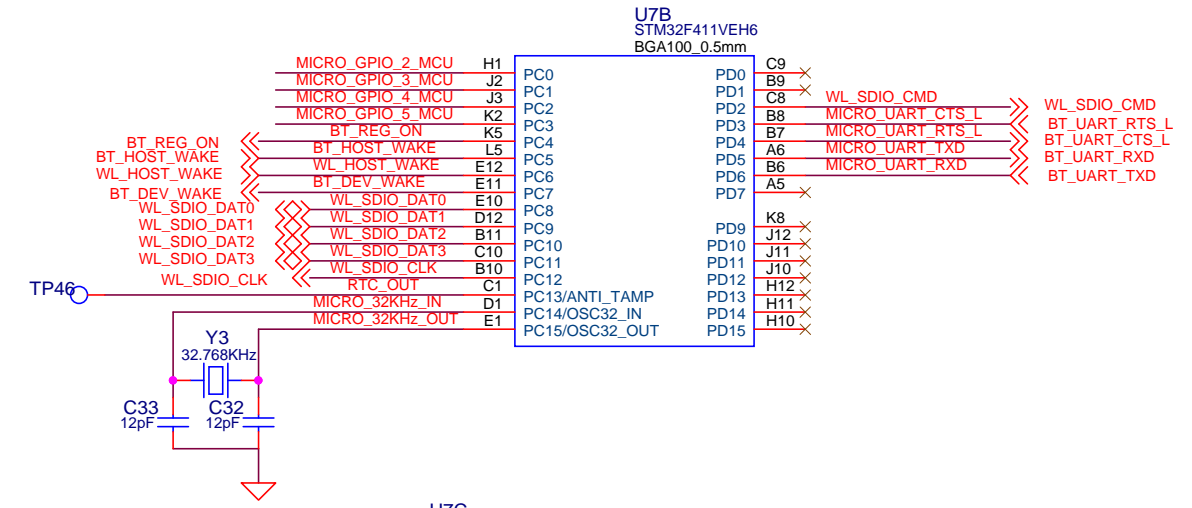
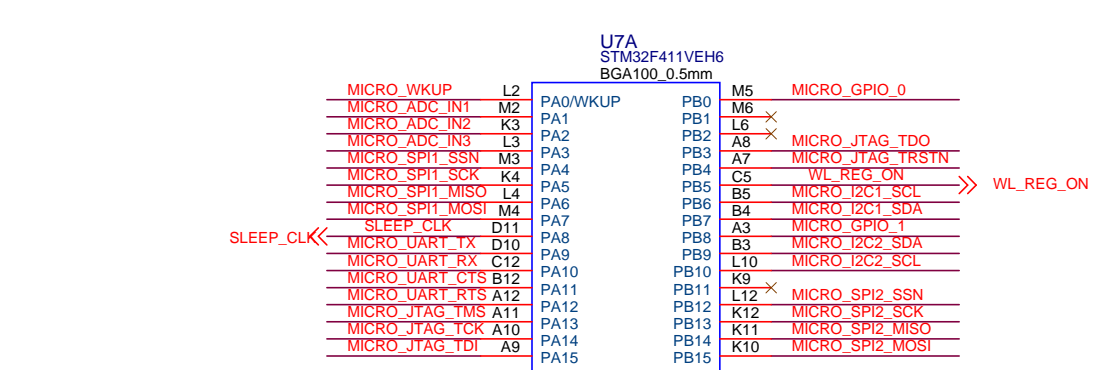
WLAN: BCM43438 WLBGA



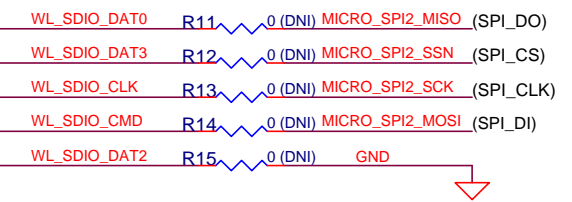
SDIO INTERFACE



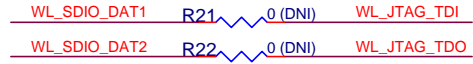
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To use SPI2 between BCM43438 and STM32F411:
Install R11, R12, R13, R14 and R15.
(R15 is used to select SPI mode for BCM43438)

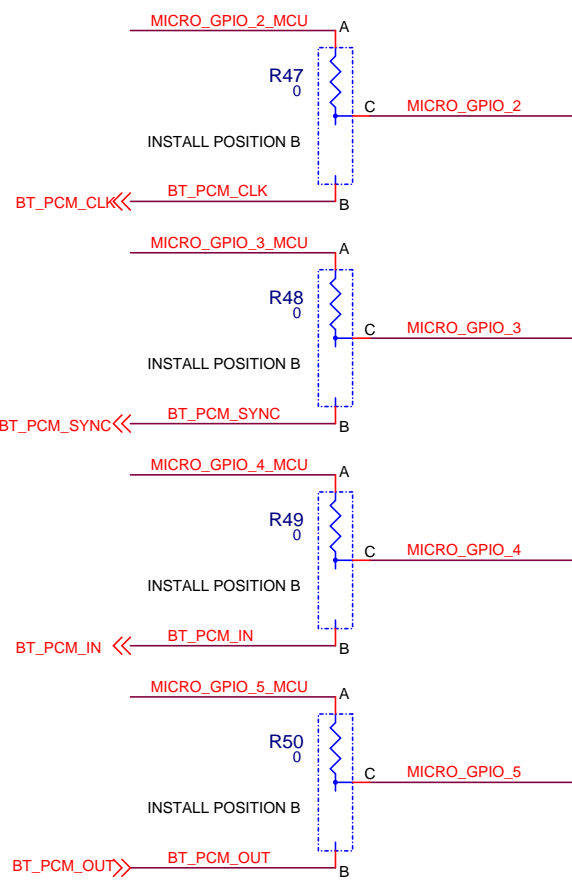


To use WLAN JTAG, Install R4



To use GPIO Signals to STM32F411, Install Position AC.

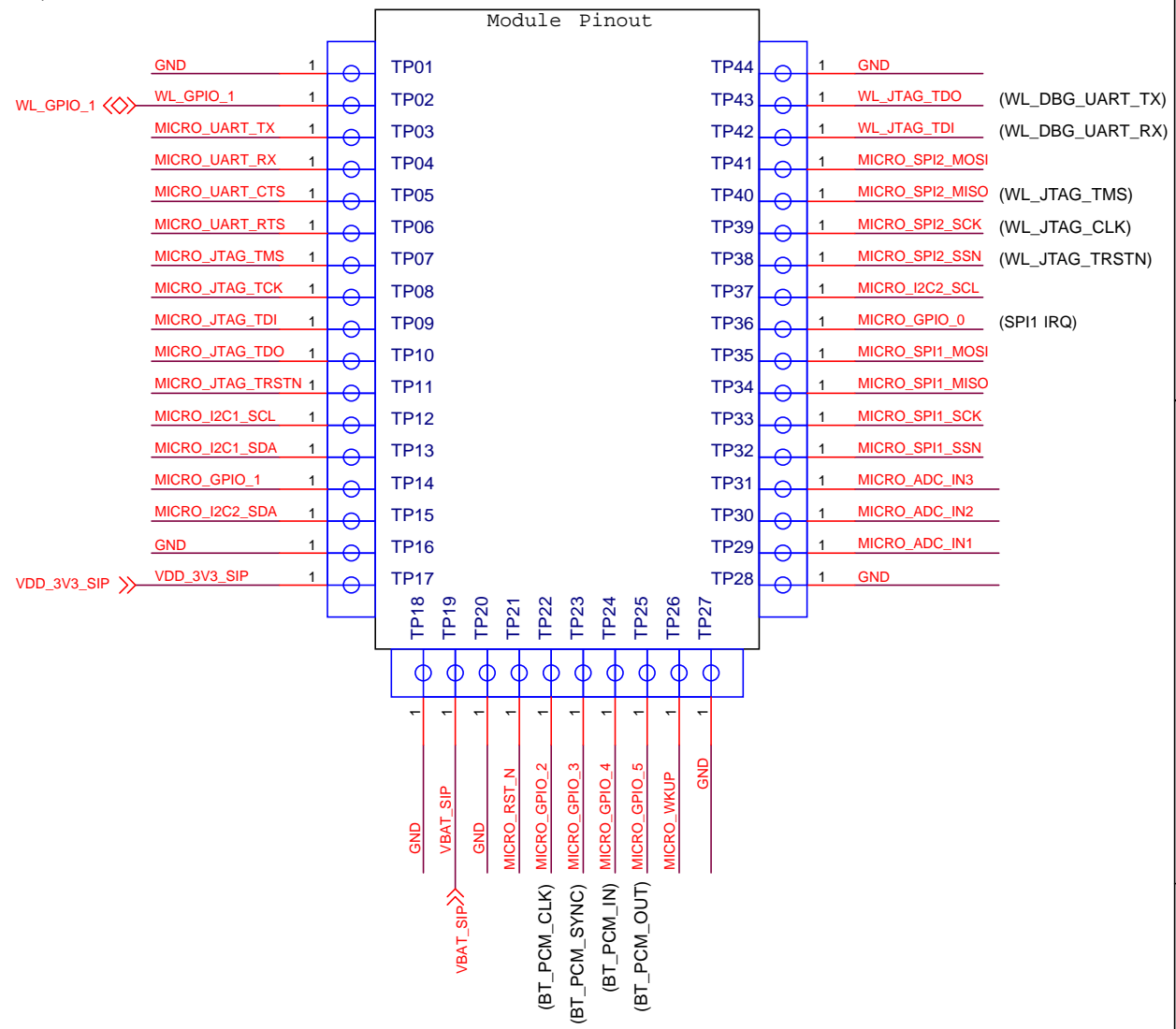
To use BT PCM Signals directly to BCM43438, Install Position BC (Default).



SDIO / SPI Interface Options:

SDIO	STM32F411 Pin Number	STM32F411 Port/Pin	BCM43438 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	BCM43438 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.





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