

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

SYSTEM BLOCK DIAGRAM

Approvals			Rro	adcom				
Designer	Date		75 W DZ 295 N					
		2	Company Conf	īdential				
Reviewer	Date	SIZE B	CYW943907AEVAL1F					
Reviewer Date Designer		Designer	Deval	Drawing Number 630-60379-01	Version 1.0			
Reviewer	Date							
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SCHEMATIC DIAGRAM

PRINTED CIRCUIT BOARD 600-60404-01

630-60379-01

PWM_3		
PWM_4	BCM43907-based SiP Pin Name	WICED header net name
HIB_REG_ON_IN HIB_REG_ON_IN	PWM_4 PWM_5 12S0_MCK 12S0_SD_OUT 12S0_SCK_BLCK 12S0_WS_LRCLK GND SPI_1_CLK 12S1_SD_OUT SPI_1_MISO SPI_0_CLK SPI_1_MOSI SPI_0_MOSI SPI_0_MOSI SPI_0_SSI_OUT UART0_RXD_IN GND UART0_TXD_OUT USB2_HOST_DEV_SEL UART0_CTS_IN 12C_0_SCL UART0_RTS_OUT 12C_0_SDA 12S1_MCK 12S1_WS_LRCLK GND 12S1_SCK_BCLK SDIO_DATA1 SDIO_DATA1 SDIO_DATA2 RF_SW_CTRL_6_UART1_RX_IN RF_SW_CTRL_5_HIB_LPO_SEL_UART2_TX HIB_WAKE HIB_LPO_SEL	PVWM_4 PVWM_5 I2S0_MCK I2S0_SD_OUT I2S0_SCK_BLCK I2S0_WS_LRCLK GND SPI_1_CLK I2S1_SD_OUT SPI_1_MISO SPI_0_CLK SPI_0_MOSI SPI_0_MOSI SPI_0_CS SPI_0_MISO UART0_TXD_OUT USB2_HOST_DEV_SEL UART0_CTS_IN I2C_0_SCL UART0_RTS_OUT I2C_0_SDA I2S1_MCK I2S1_WS_LRCLK GND I2S1_SCK_BCLK SDIO_DATA_1 SDIO_DATA_1 SDIO_DATA_0 SDIO_CLK SDIO_CMD SDIO_CLK SDIO_CATA_2 RF_SW_CTRL_6_UART1_RXD IT UART1_TXD RF_SW_CTRL_8_UART2_RXD UART2_TXD HIB_WAKE HIB_LPO_SEL
USB2_DN USB2_DP USB2_DP		

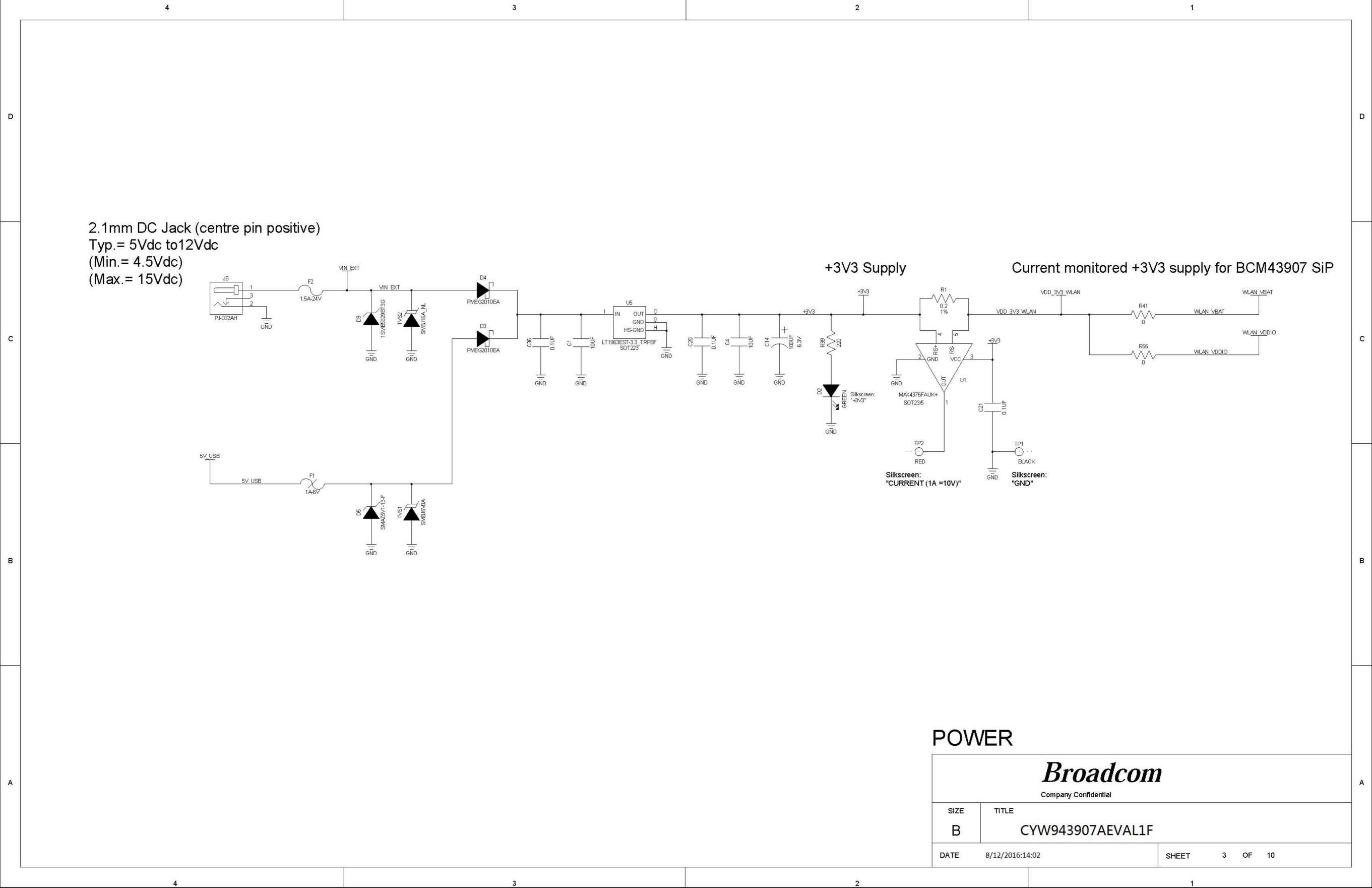
BCM43907-based SiP Pin Name	BCM43907-based SiP Pin Function	43907 bootstrap option	Arduino header net name	Arduino functions
GPIO_0 GPIO_1_GSPI_MODE GPIO_13_SDIO_MODE GPIO_7_WCPU_BOOT_MODE GPIO_14 GPIO_16 GPIO_15 I2S0_SD_IN N/A (uses external ADC chip) I2C_1_SDA I2C_1_SCL I2S1_SD_IN GPIO_12 GPIO_11_ACPU_BOOT_MODE GPIO_10 PWM_4 GPIO_9_USB_SEL GND N/A (supplied off eval board) I2C_1_SCL NC N/A (supplied off eval board) RESET_L N/A (supplied off eval board) N/A (supplied off eval board) GND GND GND N/A (supplied off eval board) GND GND N/A (supplied off eval board)	UARTO_RX UARTO_TX GPIO_13 PWM1 GPIO_14 PWM0 PWM1 GPIO_26 ADC ADC ADC ADC ADC ADC I2C_SDA I2C_SCL GPIO_29 SPI1_MISO, PWM2 SPI1_CS, PWM5 SPI1_MOSI, PWM4 PWM4 SPI1_CLK, PWM3 GND N/A (supplied off eval board) I2C_SDA I2C_SCL NC N/A (supplied off eval board) RESET N/A (supplied off eval board) N/A (supplied off eval board) GND GND GND N/A (supplied off eval board) GND GND N/A (supplied off eval board)	GSPI MODE SDIO MODE WLAN BOOT	ARD_GPIO0 ARD_GPIO1 ARD_GPIO2 ARD_GPIO3 ARD_GPIO4 ARD_GPIO5 ARD_GPIO6 ARD_AD0 ARD_AD1 ARD_AD2 ARD_AD3 ARD_AD4_SDA ARD_AD5_SCL ARD_GPIO8 ARD_MISO ARD_SS ARD_MOSI ARD_GPIO9 ARD_SCK GND ARD_AREF ARD_AD4_SDA ARD_AD5_SCL ARD_LOSEF ARD_AD5_SCL ARD_NC ARD_IOREF ARD_RESET +3V3 NC GND GND VIN_EXT	UART_RX UART_TX GPIO PWM GPIO PWM PWM GPIO AD0 AD1 AD2 AD3 AD4, SDA AD5, SCL GPIO SPI_MISO PWM, SPI_MOSI GPIO SPI_SCK GND POWER AD4, SDA AD5, SCL NC POWER AD5, SCL NC POWER AD7, SCL NC POWER AD8, SCL NC POWER AD9, SCL NC POWER AD1 AD2 AD3 AD4 AD5 AD5 AD5 AD6 AD7

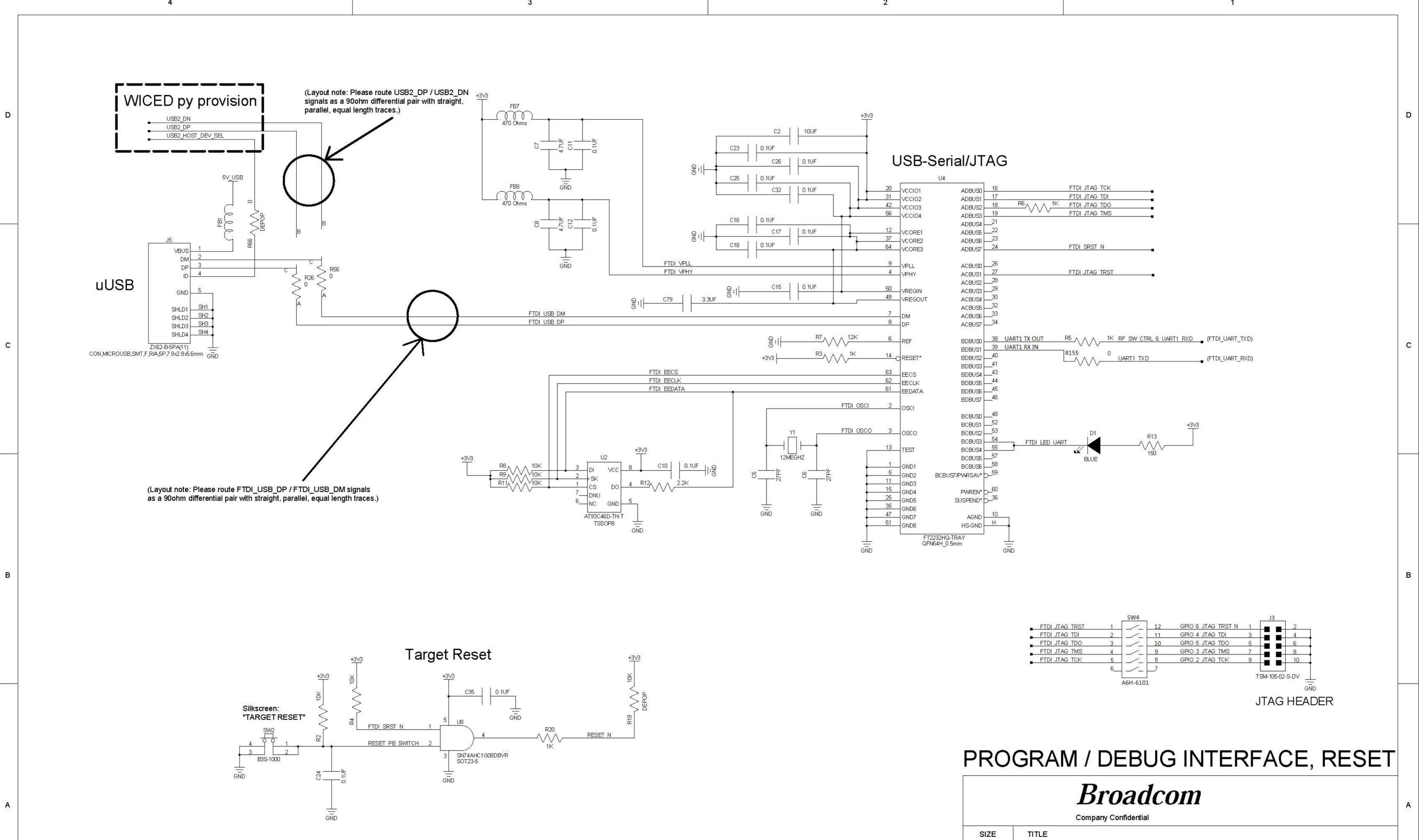
BCM43907-based SiP Pin Name	On Board Debug Interface
GPIO2_JTAG_TCK GPIO3_JTAG_TMS GPIO4_JTAG_TDI GPIO5_JTAG_TDO GPIO6_JTAG_TRST_N RF_SW_CTRL_7_RSRC_INIT_MODE_UART1_TX_OUT RF_SW_CTRL_6_UART1_RX_IN	GPIO2_JTAG_TCK GPIO3_JTAG_TMS GPIO4_JTAG_TDI GPIO5_JTAG_TDO GPIO6_JTAG_TRST_N UART1_TXD RF_SW_CTRL_6_UART1_RXD

WICED / ARDUINO HEADER PAIRS

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