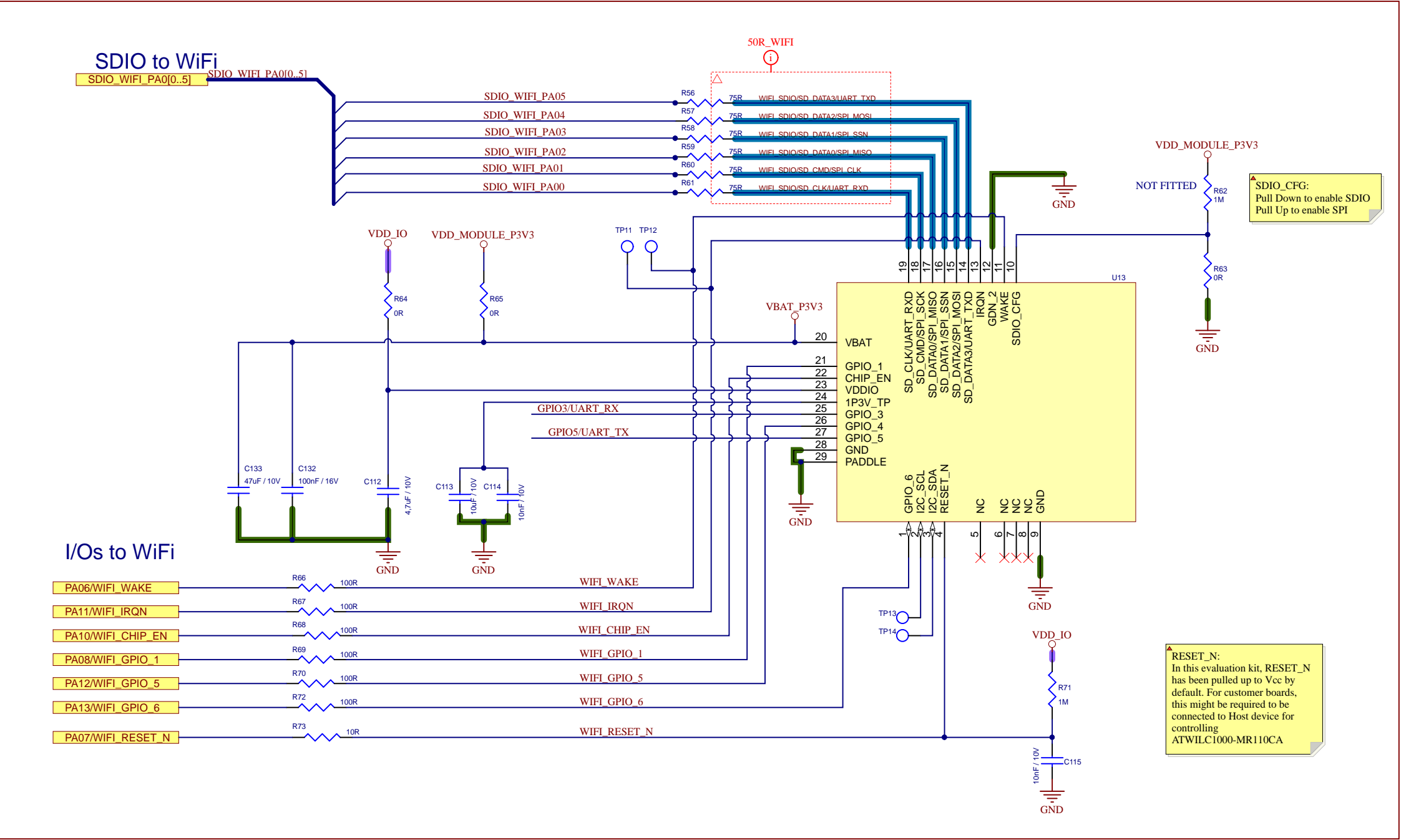
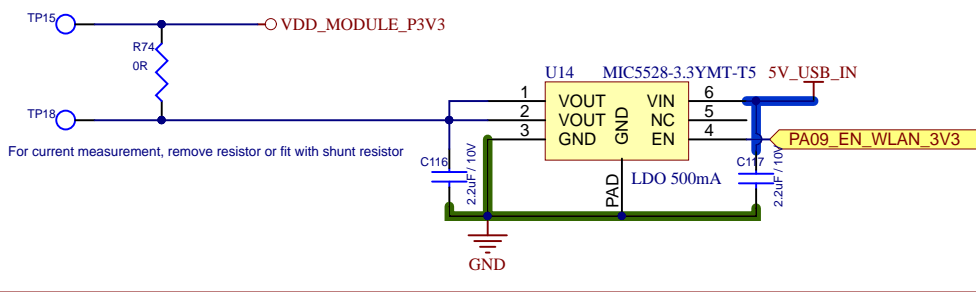


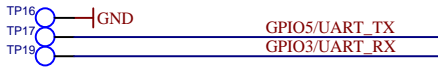
ATWILC1000-MR110UB



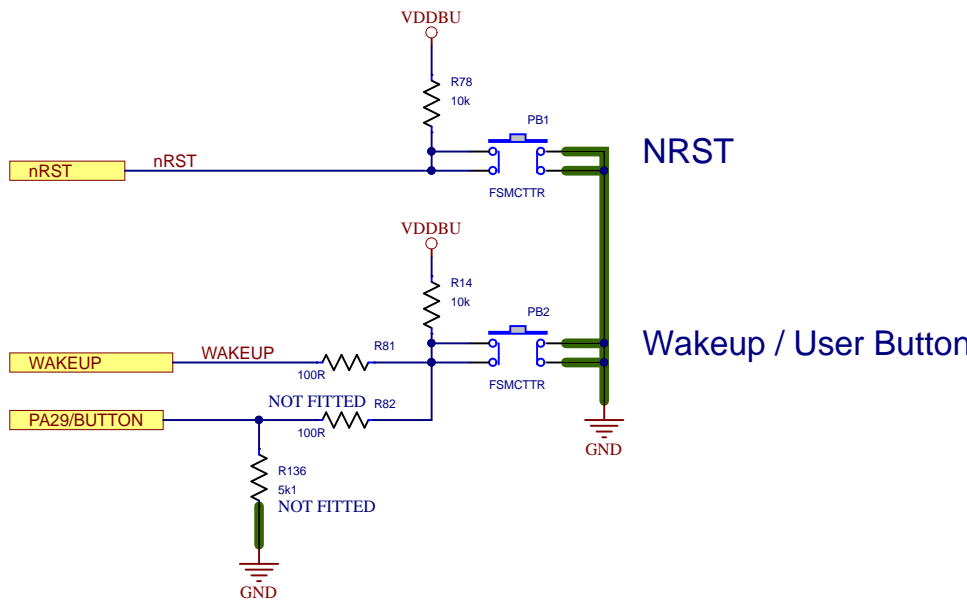
CURRENT MEASUREMENT HEADER



DEBUG UART ATWILC1000

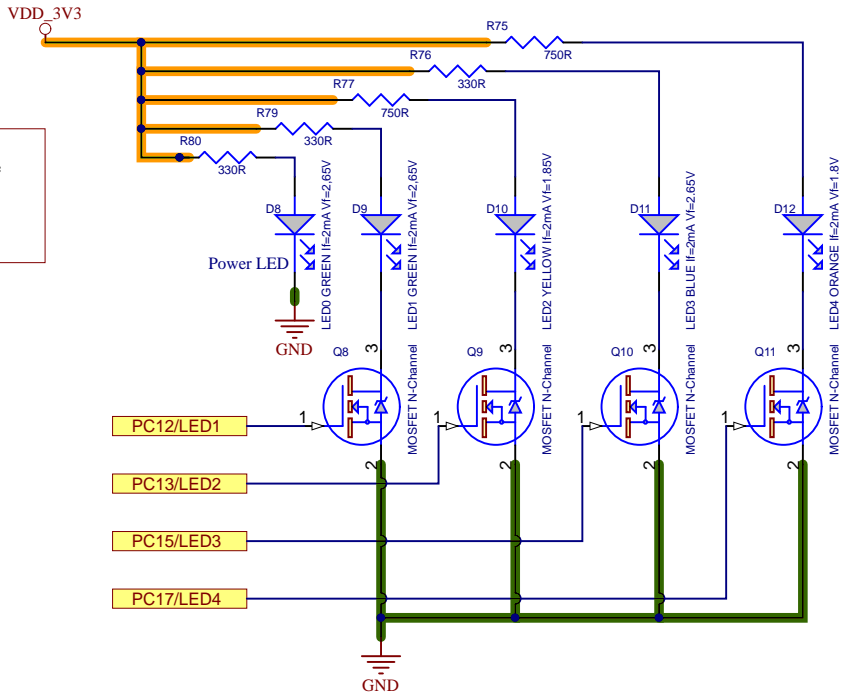


System Button

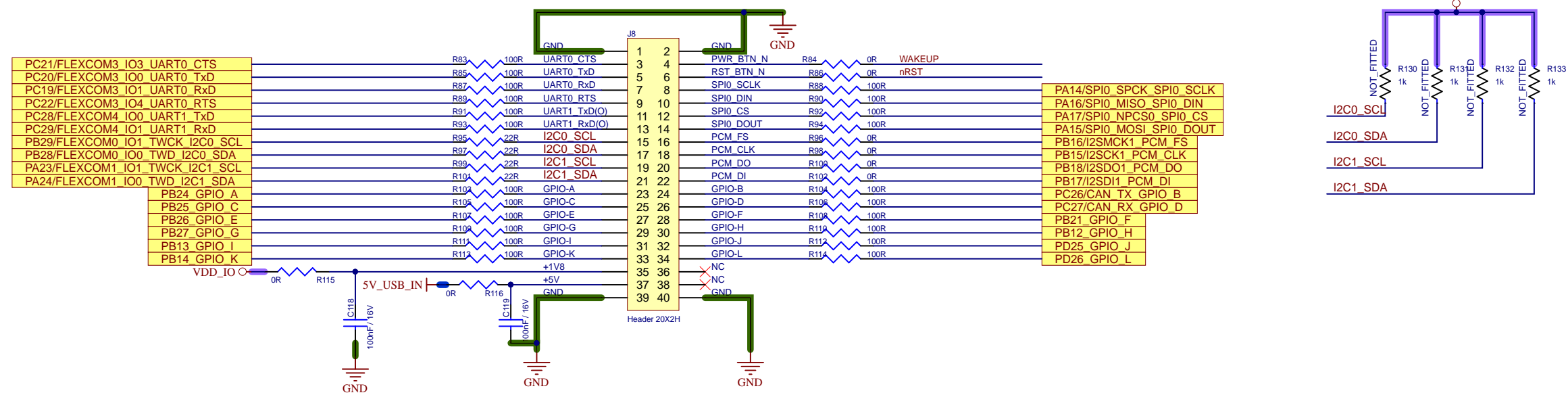


Status LEDs

- LED0: Power LED
- LED1: User programmable
- LED2: WIFI active
- LED3: Bluetooth active
- LED4: Zigbee active

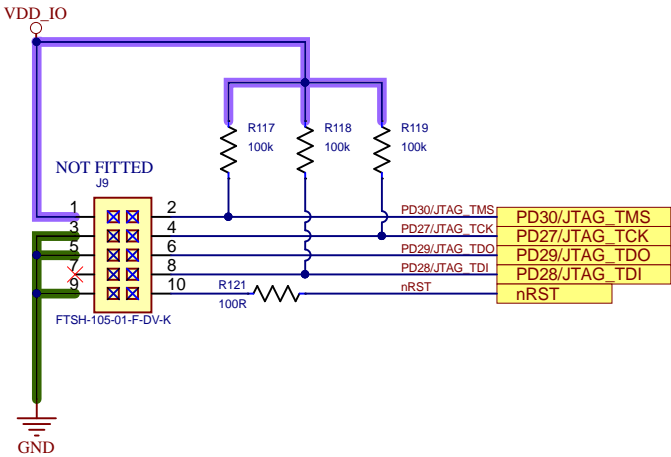


Low Speed Expansion Connector

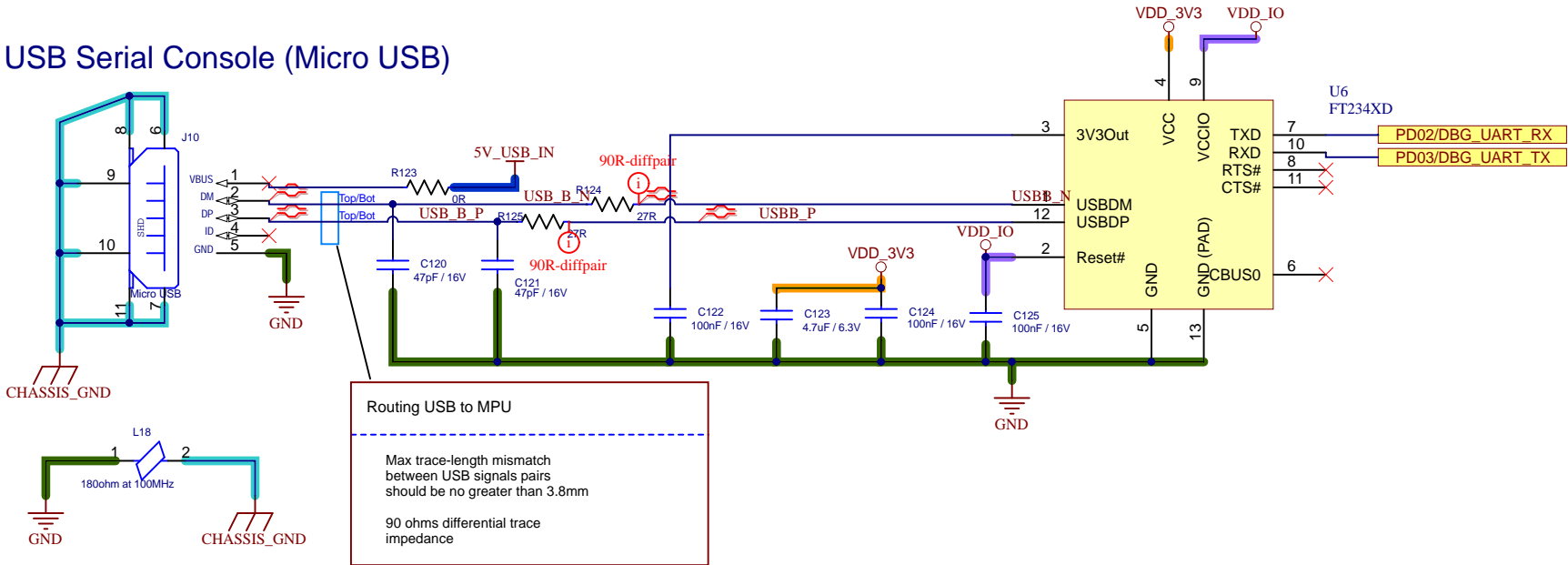


Product:	NT-Secure Gateway. 96Board		
Sheet	Low Speed Expansion Connector		
File Name:	Document Number:	Revision:	
SAMA5_Expansion_Connector.SchDoc	1648_0008_0002_A-96Board	DV: 6	
Last Modification: 12.09.2019 11:42:27			Blatt 9 von 11

JTAG Interface for SAMA5



USB Serial Console (Micro USB)



Changes

Revision	Change Description	Date	Name
DV:1	Initial Revision	2018-05-22	AGV
DV:2	Complete rework	2018-06-25	AGV/AB
DV:3	Replace MIC 2025 by MIC 2095 Add RC filter to MIC 2800 to implement power sequencing Add 100nF Capacitors close to DDR_VREF pins Mark R21 as not fitted mark R30, R31 as fitted (I2C pull-up) Change EN Pin Voltage Source to Vref2 Check U7 Pinout add pull-ups to WDO and IRQ on U10 Check VDDA and VDDIO wiring on U11 Check series resistor R49 for LAN LED Check VDDIO wiring on U13 Add pull up resistors for I2C on Expansion Connector	2018-09-21	AB
DV:3	Add Pullup to uSD card detect signal	2018-09-25	AB
DV:4	Add Separate LDO for VDDFUSE Change pinning for LEDs and SDMMC1_CD to keep comaptibility with industrial version -> HW Version V0.1	2018-10-08	AB
DV:5	Part No for NOR Flash corrected (-> 1V8 Version); Part No for WIFI Moudule updated to Version with integrated Antenna Add 0R for JTAGSEL to GND Connect Micro SD Card Detect to PA30 instead of PD23 Change Footprint of C123 to 0805 Connect Power Domains VDDISC and VDDSDHC to VDD_IO Correct Signal Naming of PA13_EN_WLAN_3V3 to PA09_EN_WLAN_3V3 Switch Power Source for LEDs from VDD_IO to VDD_3V3 Add CAN Signals to Mezzanine Connector, connect GPIO B to PC26/CANTX instead of PB19 and GPIO D to PC27/CANRX instead of PB20 Add Support for external VDDBU Change Part No. of J3 to lower profile type	2019-05-03	AB
DV:6	Add FET for switching LED on Ethernet Jack Fix Pullups on GPIOs to VDD_IO instead of VDD_3V3: PA27, PA07, PD19 Add Voltage Devider for PA29, but set R82 to DNP, because Wakeup button needs VDDBU. so Button can only be used as User Button OR Wakup button Fix Card Detect Fix double use of Flexcom3 on Expansion Connector: Use Flexcom1 on PA23/PA24 for I2C1 Fix Ethernet Oscillator Part No from DESC6011 to DESC1001 Fix EMC Problem on MIC2800: Add C134 parallel to C7	2019-09-11	AB