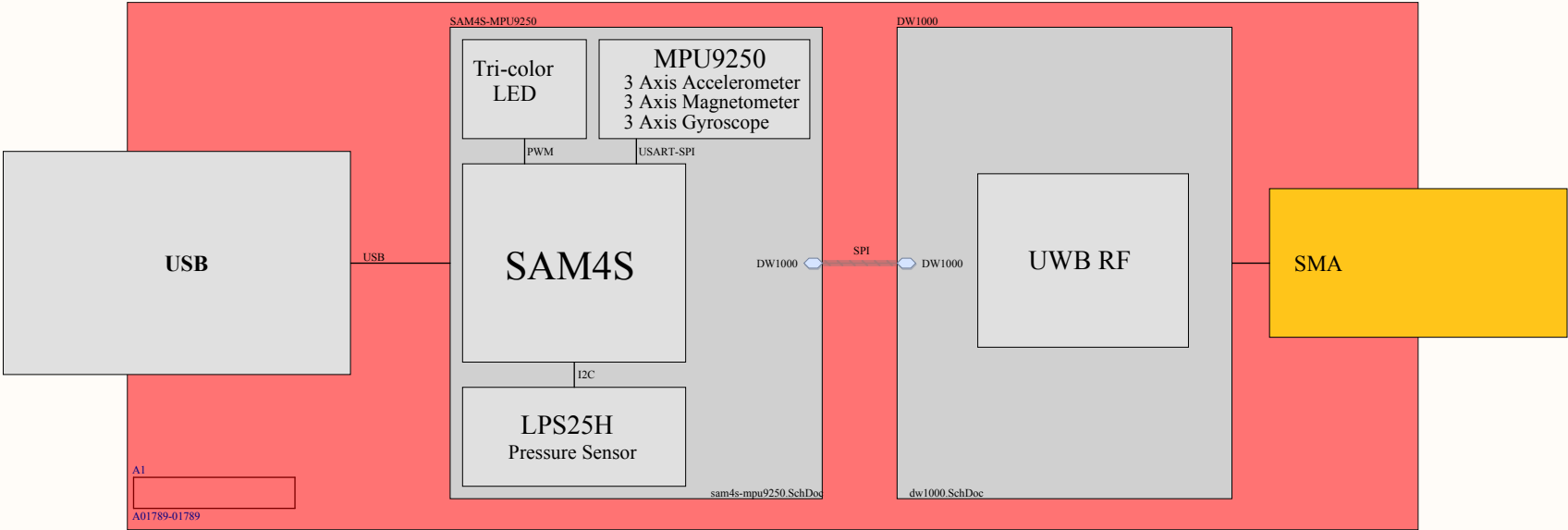
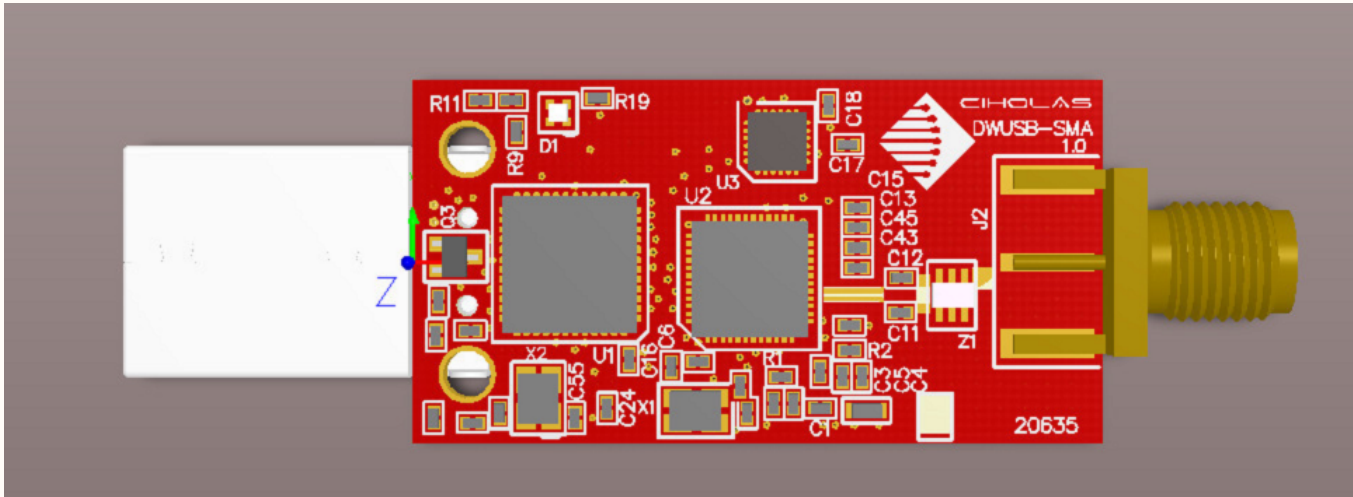



DWUSB-SMA : decaWave USB Evaluation Board



CHANGELOG

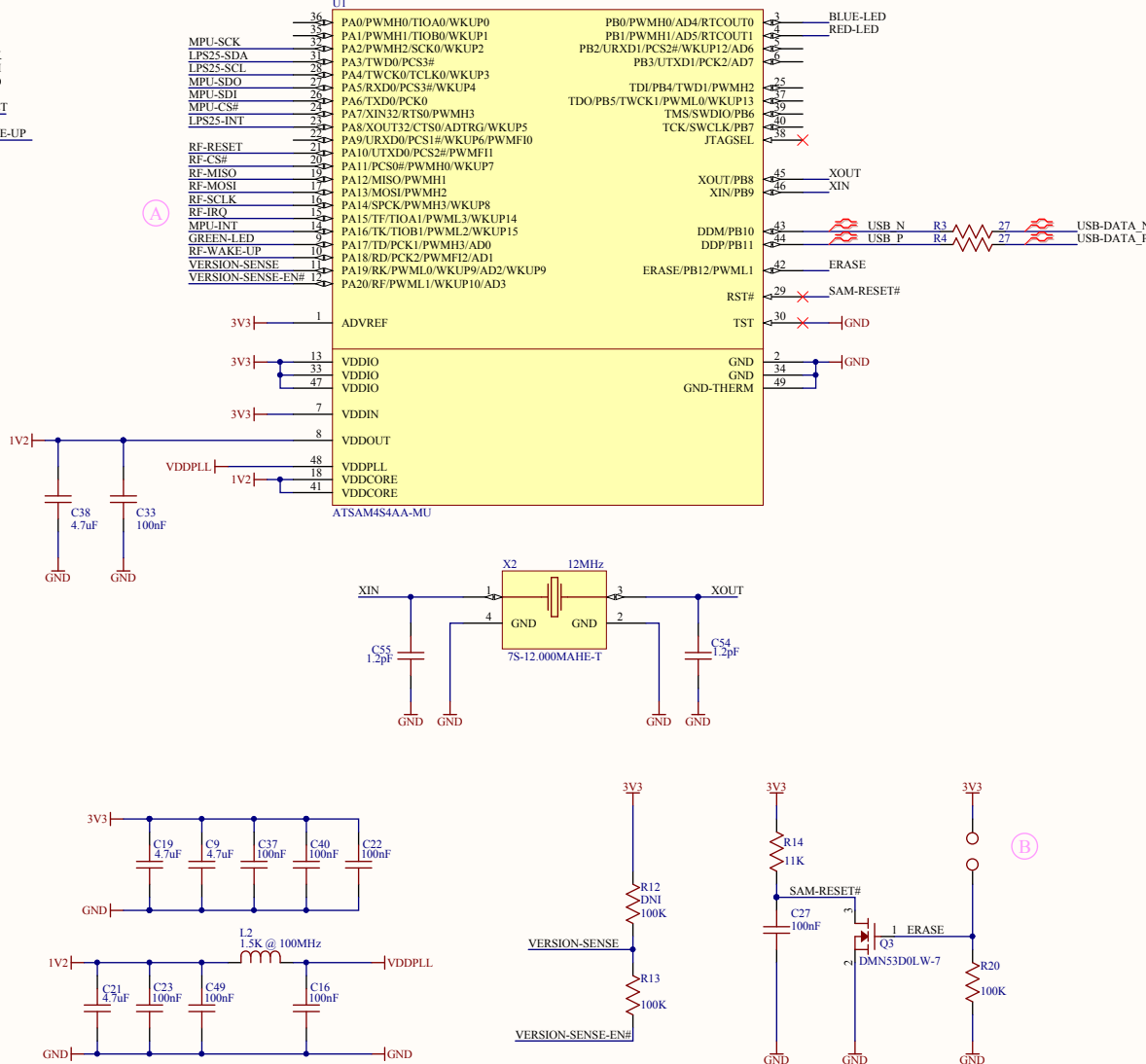
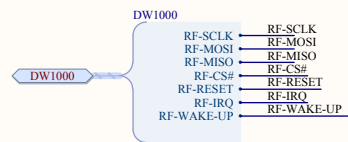
- Version 1.0.0**
- Initial design release
- Version 1.0.1**
- Fixed DNI parameter display issue with R10
- Added R10 to BOM by clearing DNI parameter value
- Version 1.0.2**
- Aesthetic Updates only, no functional changes.
- Added open hardware logo and accompanying text.
- Added Creative Commons License information.

DWUSB-SMA	
 www.ciholas.com 3700 Bell Rd. Newburgh, IN 47630 812-962-9400 © CIHOLAS, Inc	rev: 1.0.2
	svn: 22133
	1 of 3
	6/1/2015 12:18:14 PM
File:dwusb-sma.SchDoc	

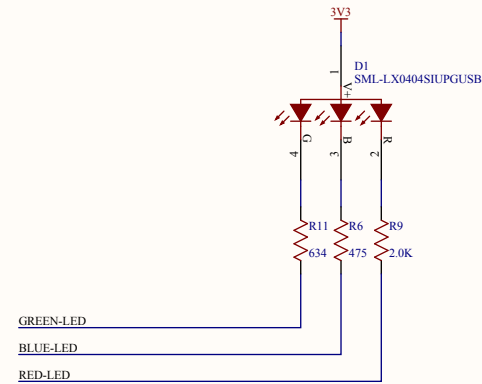


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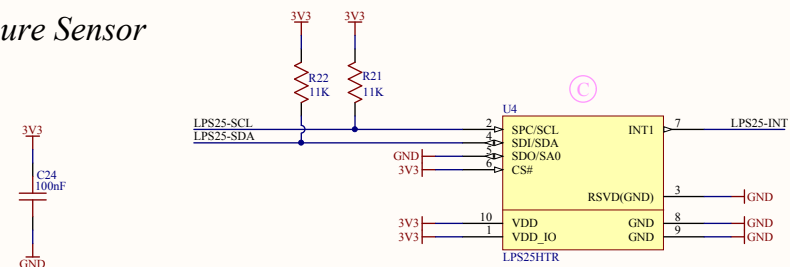
SAM4S Micro



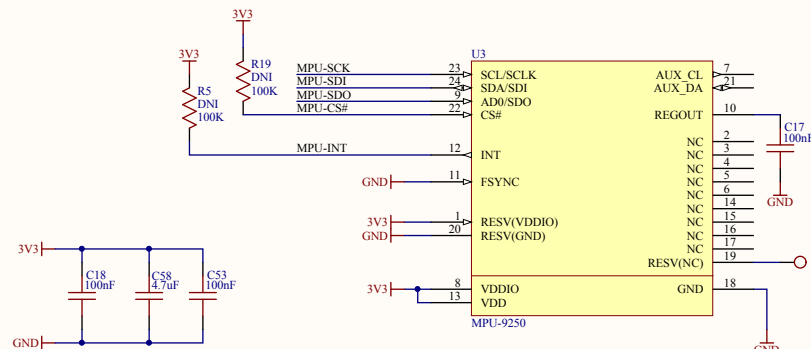
LEDs



Pressure Sensor



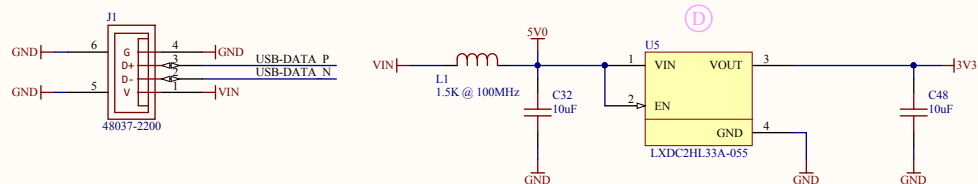
Accelerometer, Gyroscope, and Magnetometer



NOTES

- A** RF IRQ does not have pull up/down. Need to configure in SAM4
- B** Jumper across these testpoints to erase FLASH and run from the SAM-BA.
- C** I2C bus address is 0x5C.
- D** Peak current consumption:
DW1000 70mA
most of DW1000 load is on 1.8V switcher (see DW1000 sheet)
SAM4S 45mA (120MHz, SPI, GPIOA, GPIOB, USB)
MPU9250 5mA
Red LED (3.3V-1.55V) / 2000 Ohm = 875uA
Green LED (3.3V-0.55V) / 634 Ohm = 433uA
Blue LED (3.3V-0.7V) / 475 Ohm = 547uA
Total is approximately 122mA (396mW)
LXDC2HL33A has a 300mA limit

Power Input and 3.3V Switcher



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DWUSB-SMA

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