

Table of Content

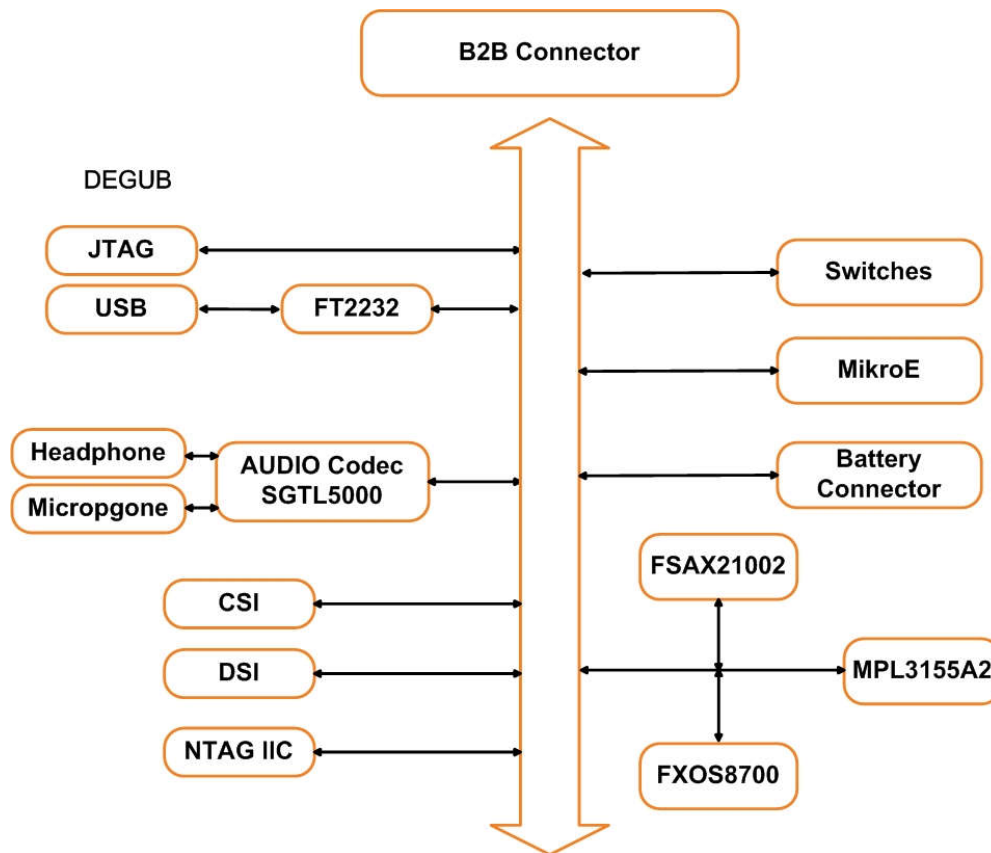
Page 1	Title Sheet
Page 2	Block Diagram
Page 3	Debug UART & JTAG
Page 4	Sensor
Page 5	Audio & MikroE & Switches
Page 6	NTAG IIC & CSI & DSI
Page 7	Connector

Table of Revesions

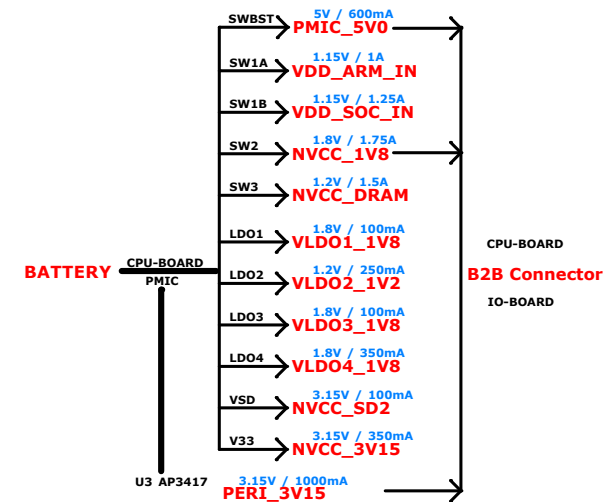
Revisions & Change Log			
Rev	Description	Date	Approved
X1	Initial Draft	06/25/15	
X2			
X3			
X4			
X5			
X6			
X7			
A			
A1			
B			
C			
D			
D1			

WaRP7 IO Board

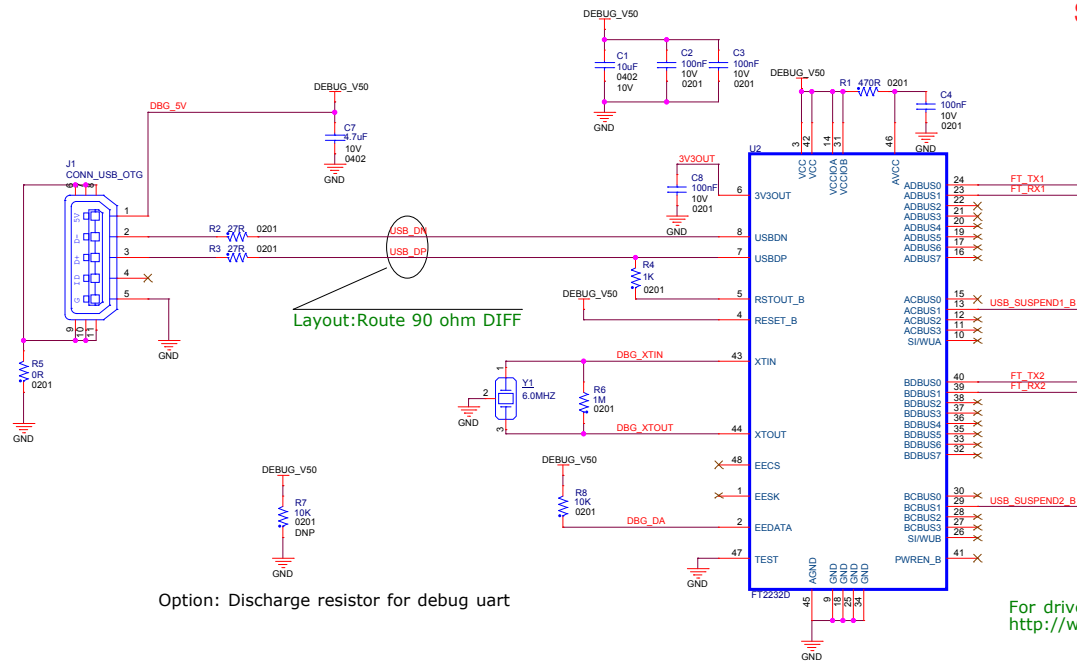
Warp7 IO Board Block Diagram



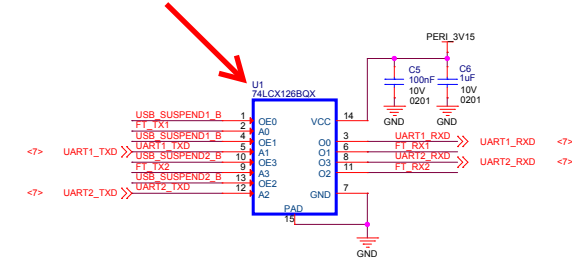
Power Distribution Diagram



Debug UART



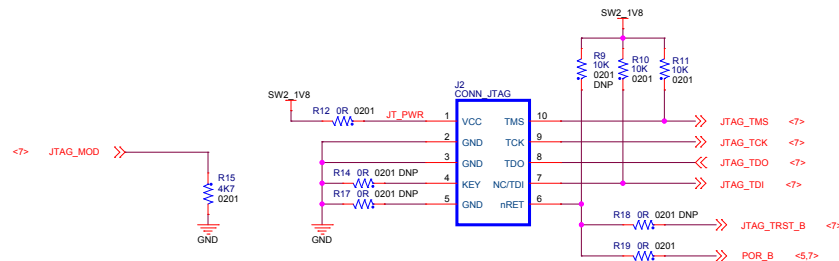
In the original design, U1 (74LVC125ABQ-Q100) is active low, but the OE output of U2 is high level. So we changed U1 from 74LVC125ABQ-Q100 to 74LCX126BQX which is active high.



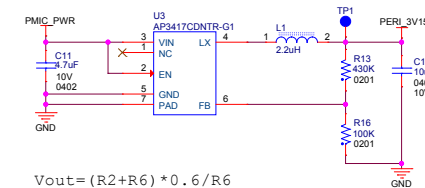
Note:
Debug UART1 for Cortex-A7
Debug UART2 for Cortex-M4

For driver installation, please refer to <http://www.ftdichip.com/Documents/InstallGuides.htm>

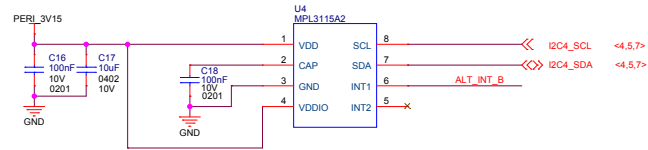
JTAG



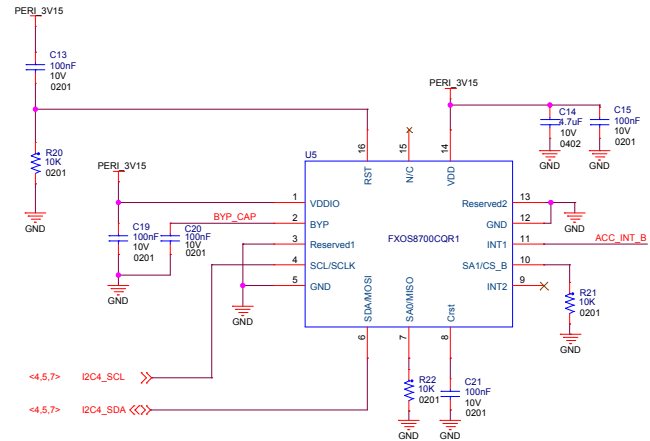
PERI 3V15 (1A)



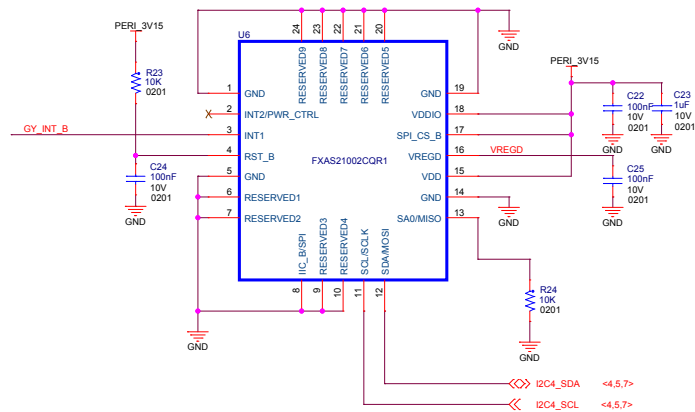
Barometer/Altimeter



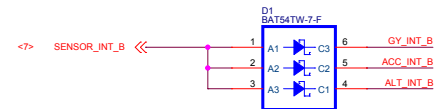
Accelerometer & Magnetometer



Gyroscope



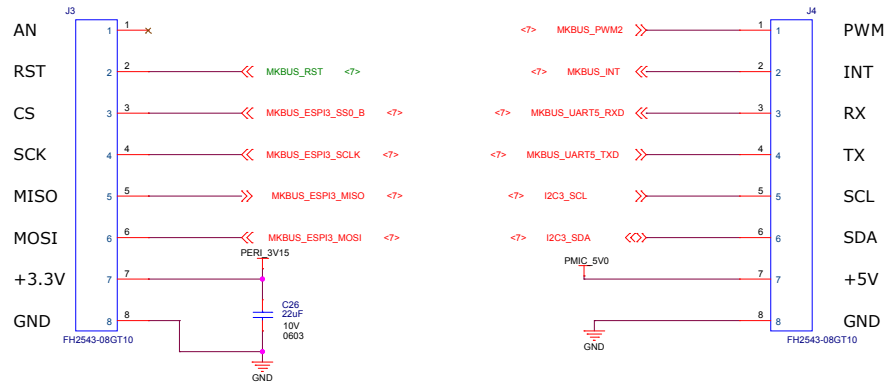
SENSOR_INT



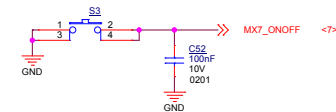
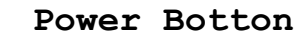
Note: The sensors' interrupts is wired to processor by a OR circuit, the software will determine which device asserted the interrupt.

MikroBUS

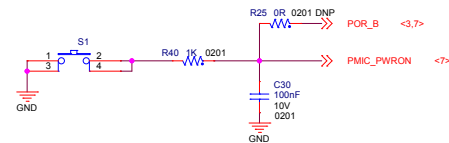
<http://www.mikroe.com/>



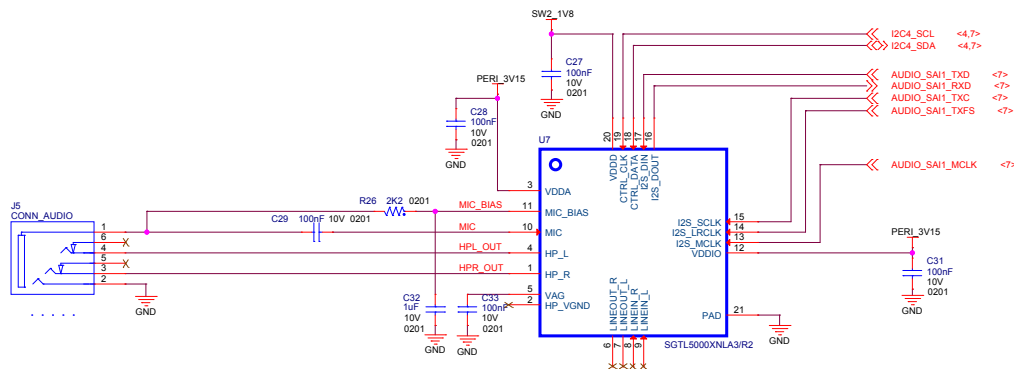
Switch



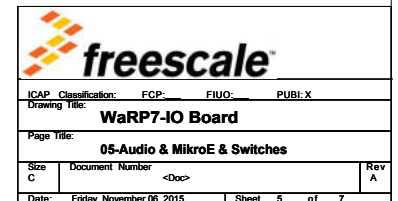
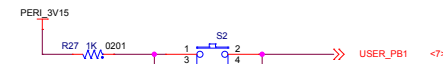
POR Botton



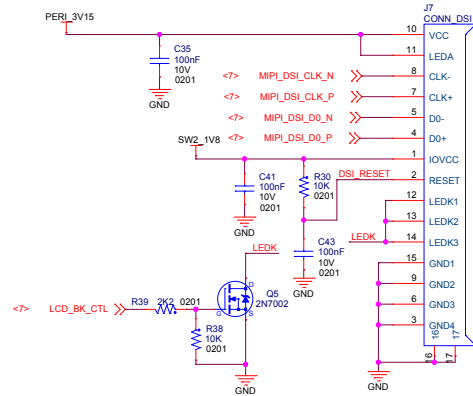
Audio



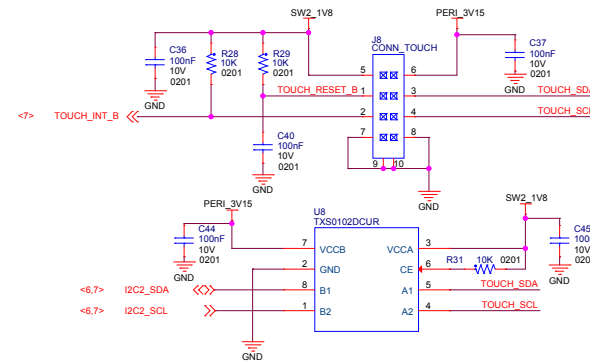
User Botton



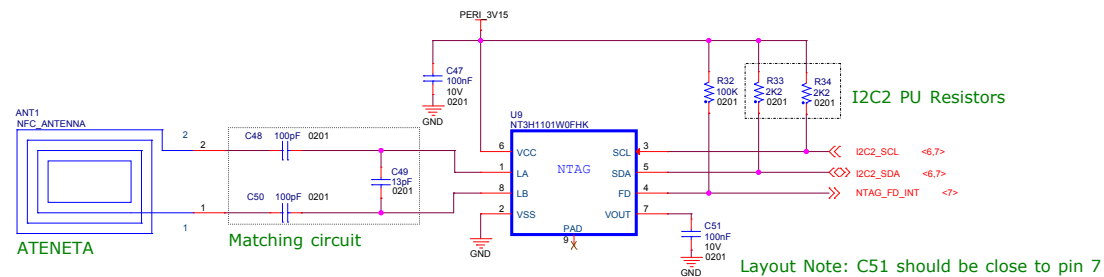
DSI



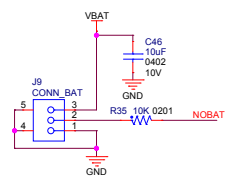
TOUCH



NTAG_I2C

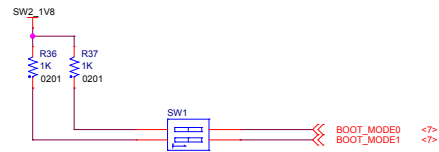


BATTERY IN



BOOT MODE

BOOT_MODE	1	0
FUSES	0	0
MANUFACTURE	0	1
INTERNAL BOOT	1	0
TEST MODE	1	1



B2B Connector

Note:All clock signals are isolated to other signals with GND.

