

Contents


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Battery, uSD

Revisions & Change Log

Rev	Description	Date	Approved
X1	27909 base Initial Draft	03/07/13	J. SCOTT
A	27909 Prototype Release	03/26/13	J. SCOTT
AX1	27982 (BT Version) Under Development	07/16/13	J. SCOTT
AX1	27982 (BT Version) PPL & A070 RELEASE	07/22/13	J. SCOTT
AX2	27982 (BT Version) Block Diagram Update	08/07/13	J. SCOTT
B	27982 (BT Version) Release candidate	08/23/13	J. SCOTT
BX1	27982 (UNDER DEVELOPMENT) I2C swap fix	09/25/13	J. SCOTT
C	27982 Release to prod. Block diagram update	09/27/13	J. SCOTT

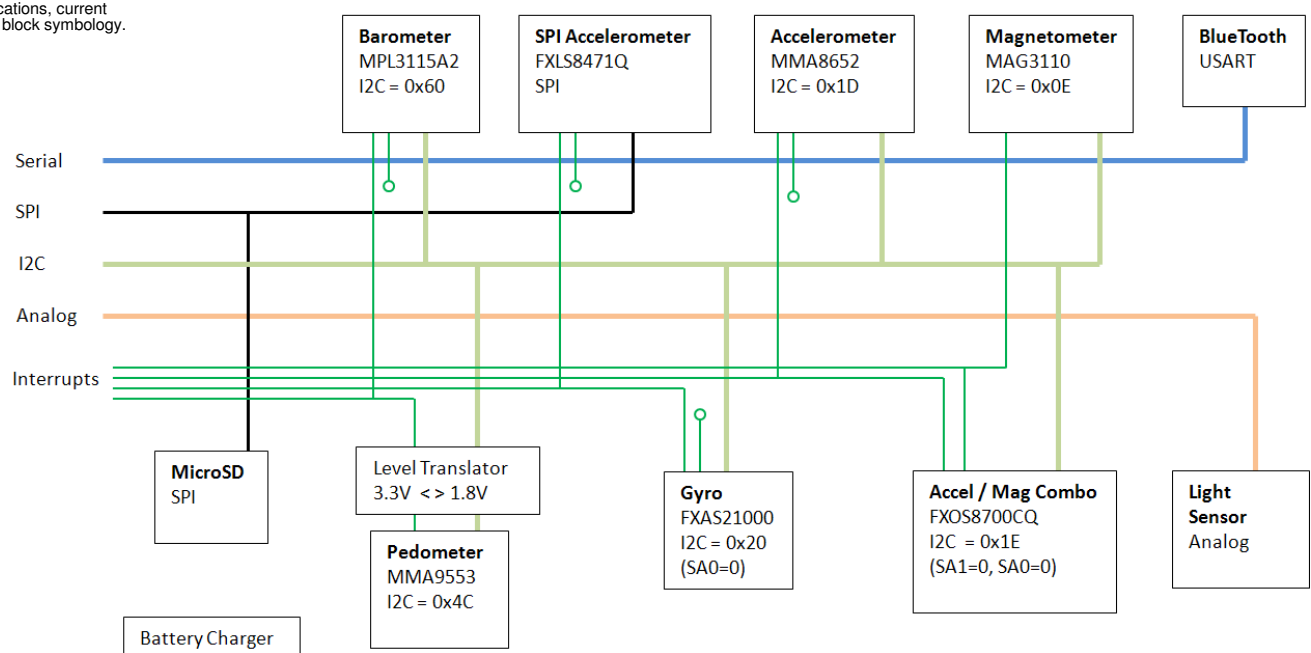
FRDM-FXS-MULTI

		Automotive, Industrial & Multi-Market Solutions Group 6501 William Cannon Drive West Austin, TX 78735-6598			
		ICAP Classification:	FQP:	FLQ2:	PUB1: X
Designer: RAFAEL DEL REY	Drawing Title: FRDM-FXS-MULTI_B				
Drawn by: RAFAEL DEL REY	Page Title: TITLE PAGE				
Approved: JAMES SCOTT	Size C	Document Number SCH-27982 PDF: SPF-27982			Rev C
Date: Tuesday, October 01, 2013		Sheet 1 of 4			

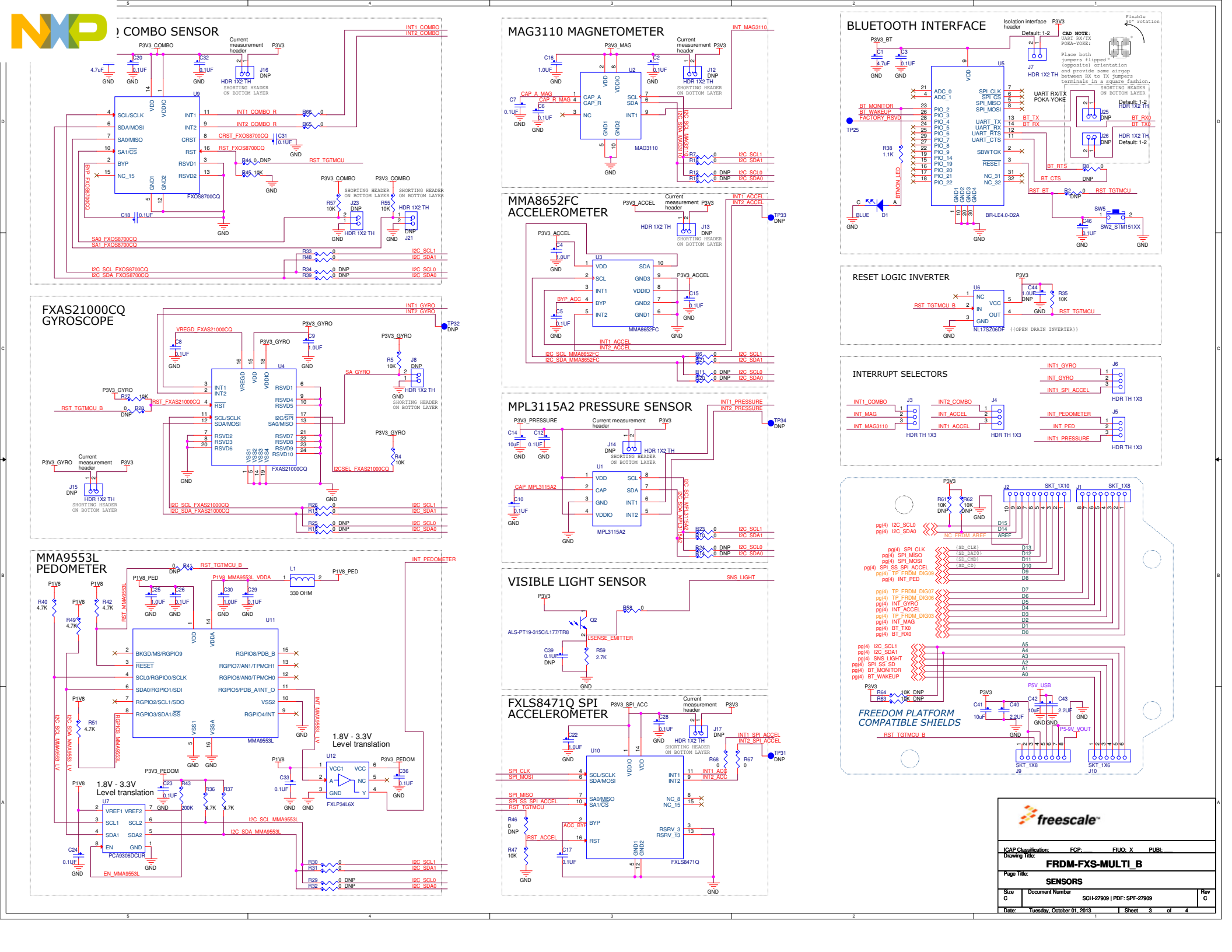
All polarized capacitors are aluminum electrolytic

2. Interrupted lines coded with the same letter or letter combinations are electrically connected.
3. Device type number is for reference only. The number varies with the manufacturer.
4. Special signal usage:
 _B Denotes - Active-Low Signal
 <> or [] Denotes - Vectored Signals
5. Interpret diagram in accordance with American National Standards Institute specifications, current revision, with the exception of logic block symbology.

FRDM-FXS-MULTI Block Diagram



Arduino UNO R3 Pinout		
D0 = BlueTooth RX D1 = BlueTooth TX D2 = Interrupt Combo 1 or Mag D3 = test point D4 = Interrupt Combo 2 or Accel 1 D5 = Interrupt Gyro or SPI Accel 1 D6 = test point D7 = test point	D8 = Interrupt Pedometer or Pressure 1 D9 = test point D10 = SPI_SS_SPI_ACCEL D11 = SPI_MOSI D12 = SPI_MISO D13 = SPI_CLK D14 = Optional I2C Data D15 = Optional I2C Clock	A0 = BT_Wakeup A1 = BT_Monitor A2 = SPI_SS_SD A3 = Light Sensor Analog Signal A4 = Main I2C Data A5 = Main I2C Clock



ICAP Classification: FCP: FIUC: X PUB: _____

Drawing Title: **FRDM-FXS-MULTI_B**

Page Title: **SENSORS**

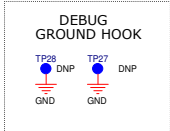
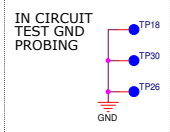
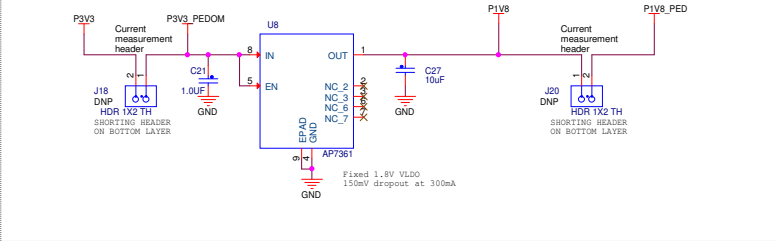
Size C Document Number SCH-27909 | PDF: SPF-27909

Date: Tuesday, October 01, 2013 Sheet 3 of 4

Rev C



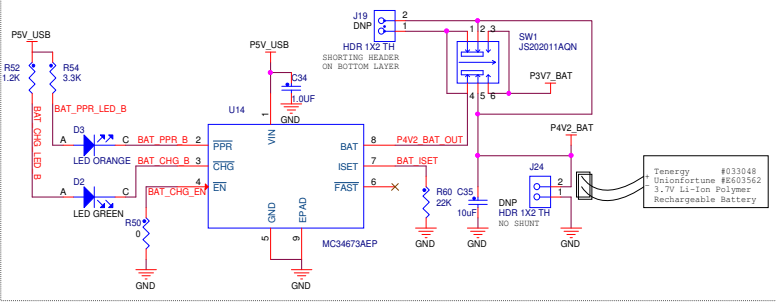
VOLTAGE REGULATION



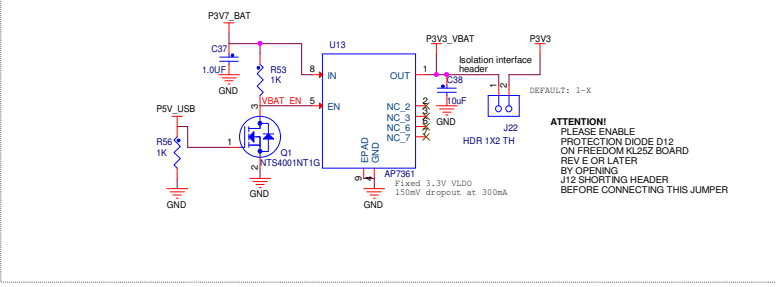
Prototyping Area Heading Signals

pg(3) I2C_SCL0	<<>	I2C_SCL0	D15	TP9
pg(3) I2C_SDA0	<<>	I2C_SDA0	D14	DNP
pg(3,4) SPL_CLK	<<>	SPL_CLK	D13	TP10
pg(3,4) SPI_MISO	<<>	SPI_MISO	D12	DNP
pg(3,4) SPI_MOSI	<<>	SPI_MOSI	D11	TP13
pg(3) SPI_SS_SPI_ACCEL	<<>	SPI_SS_SPI_ACCEL	D10	DNP
pg(3) TP_FRDM_DIG09	<<>	TP_FRDM_DIG09	D9	TP15
pg(3) INT_PED	<<>	INT_PED	D8	DNP
pg(3) TP_FRDM_DIG07	<<>	TP_FRDM_DIG07	D7	TP17
pg(3) TP_FRDM_DIG06	<<>	TP_FRDM_DIG06	D6	DNP
pg(3) INT_GYRO	<<>	INT_GYRO	D5	TP3
pg(3) INT_ACCEL	<<>	INT_ACCEL	D4	DNP
pg(3) TP_FRDM_DIG03	<<>	TP_FRDM_DIG03	D3	TP4
pg(3) INT_MAG	<<>	INT_MAG	D2	DNP
pg(3) BT_TX0	<<>	BT_TX0	D1	TP6
pg(3) BT_RX0	<<>	BT_RX0	D0	DNP
pg(3) I2C_SCL1	<<>	I2C_SCL1	A5	TP8
pg(3) I2C_SDA1	<<>	I2C_SDA1	A4	DNP
pg(3) SNS_LIGHT	<<>	SNS_LIGHT	A3	TP29
pg(3,4) SPI_SS_SD	<<>	SPI_SS_SD	A2	DNP
pg(3) BT_MONITOR	<<>	BT_MONITOR	A1	TP5
pg(3) BT_WAKEUP	<<>	BT_WAKEUP	A0	TP36
				TP37
				DNP
				TP11
				DNP

Li-Ion Battery Charger



Battery Regulation



microSD Card Connector, SPI Mode

