


Table of Contents	
1	Title
2	Block Diagram
3	KL26Z MCU
4	OpenSDA INTERFACE
5	I/O Headers and Power Supply

Revisions & Change Log			
Rev	Description	Date	Approved
X1	Initial Draft	Oct 18	Chung
X2	Feedbacks Implemented	Oct 22	Chung
X3	Feedbacks from Chung Implemented	Oct 23	Chung
X4	Components changed as per the feedbacks	Oct 24	Chung
X5	RF and Bluetooth headers added	Oct 28	Chung
X6	Arduino connections added	Nov 1	Chung
X7	Net review and fix	Nov 3	Chung
A	Release to production, prototype build	Nov 8	Chung
A1	openSDA reset capacitor fix	Nov 22	del Rey
B	Release to production, production build	Jan 20	Chung
C	Release to production, production build	Feb 06	Chung
D	Fixing I2C swap to headers	Feb 26	Chung

FREEDOM K64F



**Automotive, Industrial & Multi-Market Solutions Group**  
6501 William Cannon Drive West Austin, TX 78735-6598

ICAP Classification: FCP: FLK2: PUB: X

Designer: Rafael del Rey

Drawing Title: **FRDM-K64F**

Drawn by: Sudhasha(LnT)

Page Title: **TITLE PAGE**

Approved: Chung

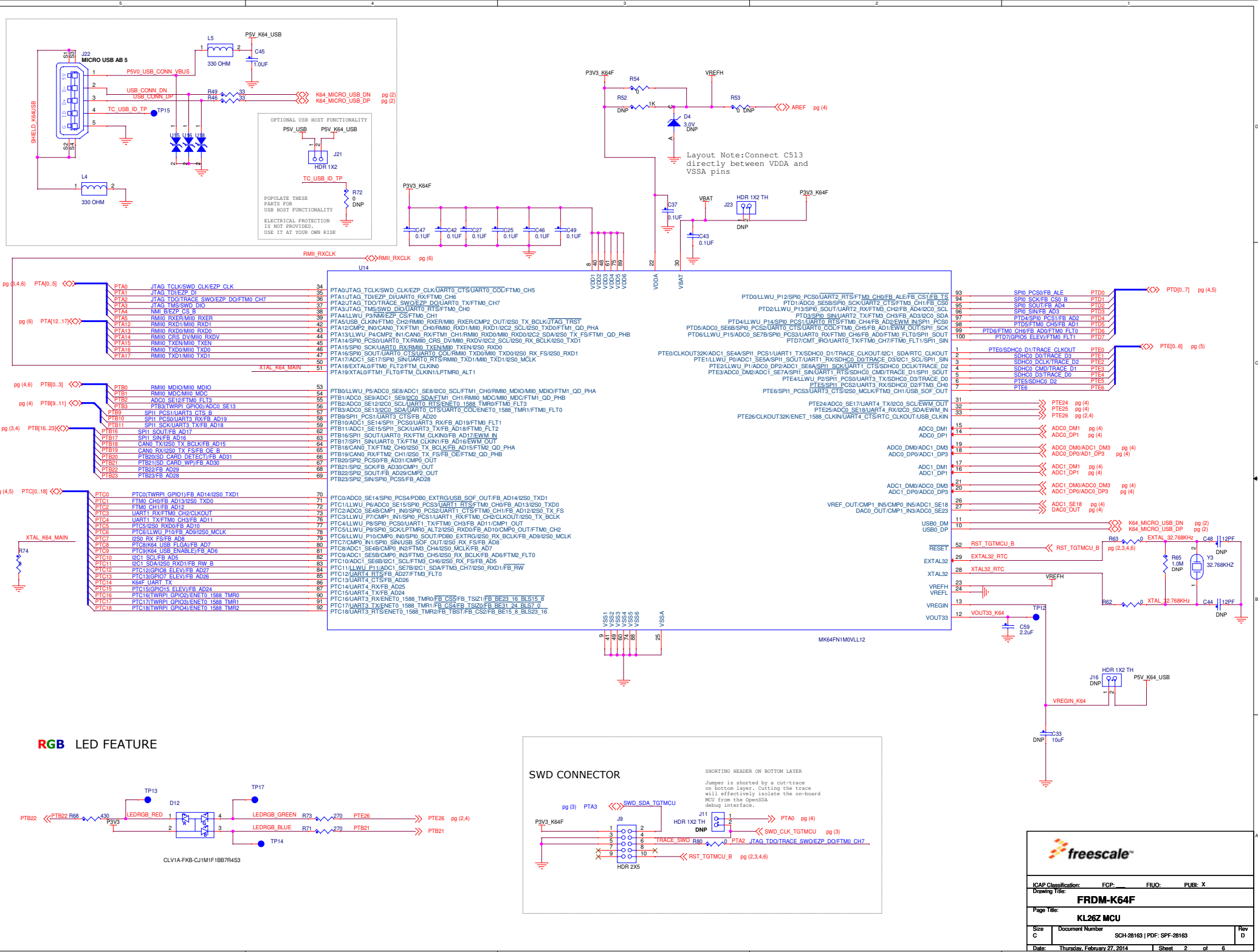
Size C

Document Number SCH-28163 | PDF: SPF-28163

Rev D

Date: Wednesday, February 26, 2014

Sheet 1 of 6



RGB LED FEATURE

SWD CONNECTOR

SHORTING HEADER ON BOTTOM LAYER

Jumper is shorted by a cut-trace on bottom layer. Cutting the trace will effectively isolate the on-board MCU from the OpenSDA debug interface.

freescaler

ICAP Classification: FCP: FIUC: PUB: X

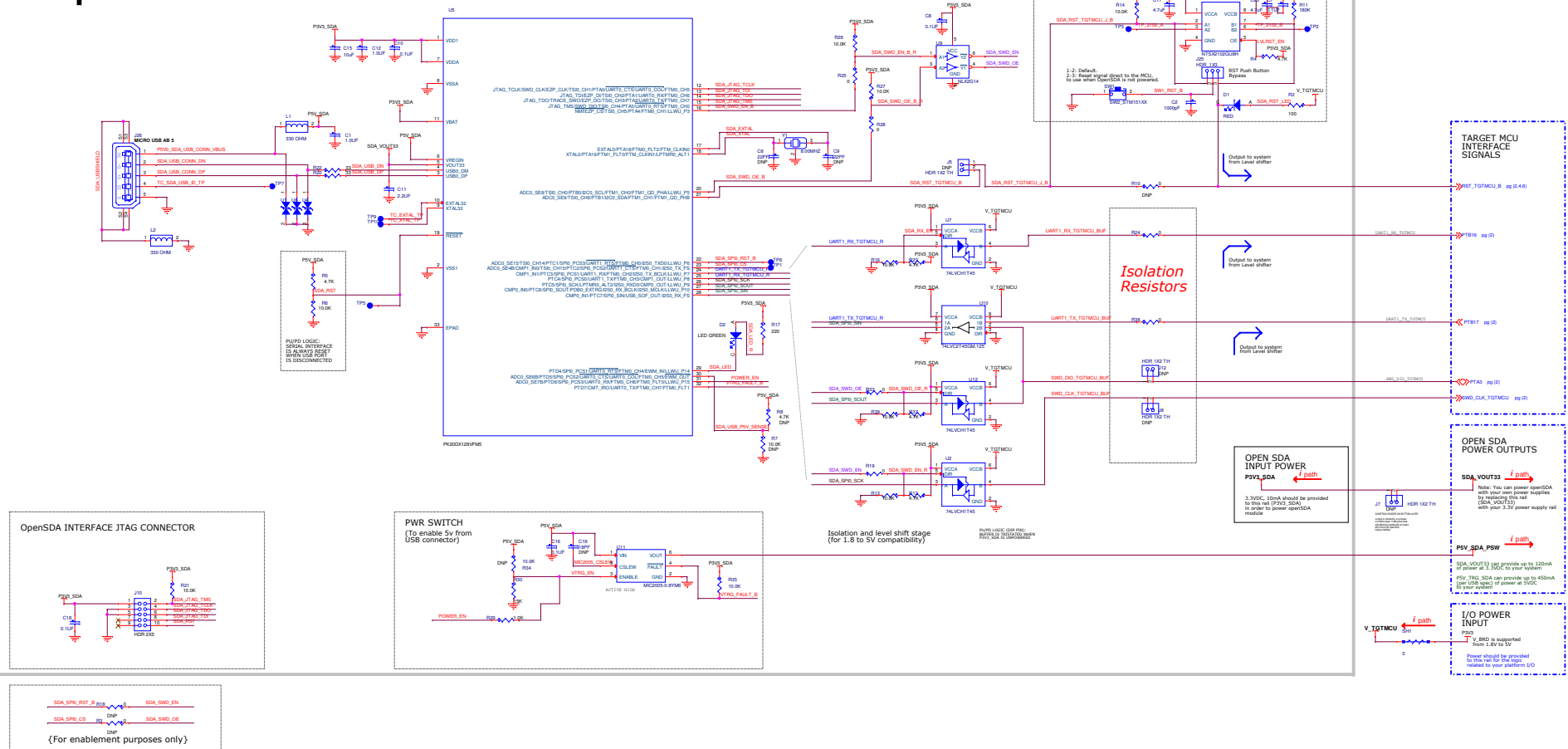
Drawing Title: **FRDM-K64F**

Page Title: **KL26Z MCU**

Size C Document Number SCH-28163 | PDF: SPF-28163 Rev D

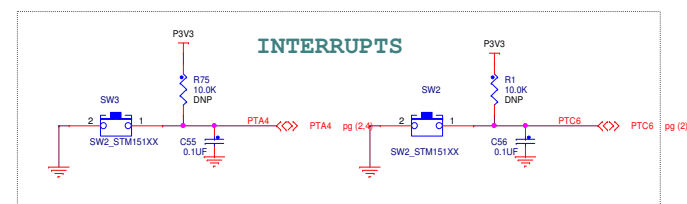
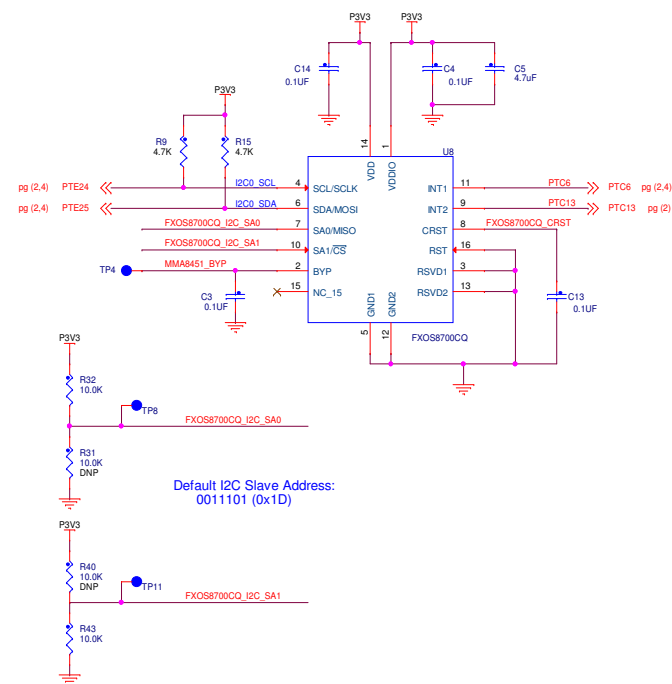
Date: Thursday, February 27, 2014 Sheet 2 of 6

# OpenSDA Interface





( ACCELEROMETER AND MAGNETOMETER )



## DEBUG GROUND HOOK



ICAP Classification: FCP: FIUO: PUBI: X

ICAP Classification:	FCP: _____	FUO: _____	PUBI: _____
Drawing Title:			

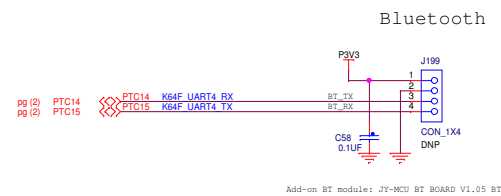
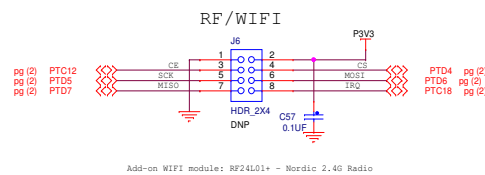
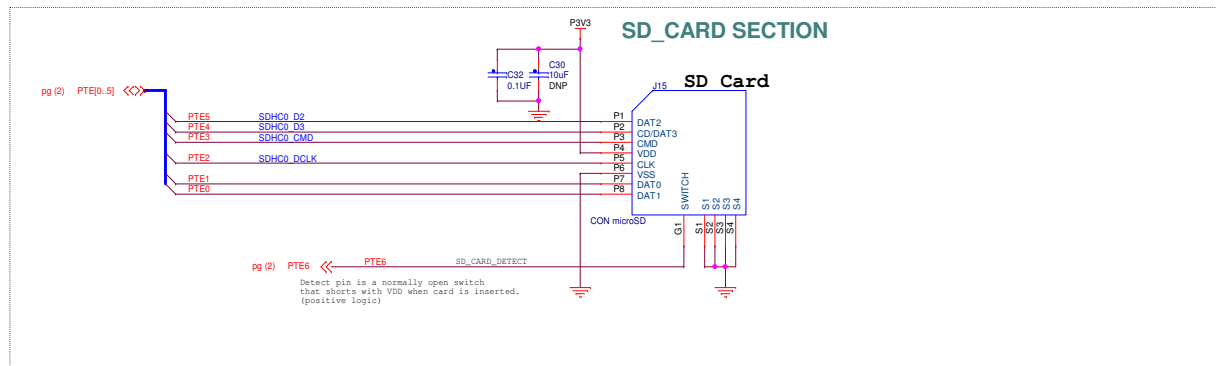
**FRDM-K64F**

Page Title: ARDUINO SHIELDS &amp; Accelerator

Size C	Document Number SCH-28163   PDF: SPF-28163
-----------	---

Date:	Thursday, February 27, 2014	Sheet	4	of	6
-------	-----------------------------	-------	---	----	---

**TABLE 1**



ICAP Classification: FCP: FRUO: PUB: X

Drawing Title:

**FRDM-K64F**

Page Title:

**PWR SUPPLY**

Size C

Document Number

SCH-28163 | PDF: SPF-28163

Rev D

Date: Thursday, February 27, 2014 Sheet 5 of 6

