Table of Contents 1 TITLE PAGE					
	<u> </u>	Revisions & Chang	_		
2 BLOCK DIAGRAM 3 K64F MCU		Description	Date	Approved	
4 OpenSDA INTERFACE	X1	Initial Draft	Oct 18	Chung	
5 ARDUINO SHIELDS & COMBO SENSOR	X2	Feedbacks Implemented	Oct 22	Chung	
6 SD CARD / RF - WIFI / BLUETOOTH 7 RMII	Х3	Feedbacks from Chung Implemented	Oct 23	Chung	
	Х4		Oct 24	Chung	
	X5	RF and Bluetooth headers added	Oct 28	Chung	
	Х6	Arduino connections added	Nov 1	Chung	
	X7	Net review and fix	Nov 3	Chung	
	А	Release to production, prototype build	Nov 8	Chung	
	A1	openSDA reset capacitor fix	Nov 22	del Rey	
	В	Release to production, production build	Jan 20	Chung	
H	С	Release to production, production build	Feb 06	Chung	
	D	Fixing I2C swap to headers	Feb 26	Chung	
	D1	Enhancing USB PWR input filter for robustness	Mar 18	Chung	
	E	Swapping J2.2 connection to PTC12			
		Fix Eth Link status when 2 FRDMs are connecter to each other	Jul 11	Chung	
	E1	Updating J13			
		Ethernet connector part	Sep 03	Chung	
	E2	Depopulating J14			
		Depopulating 014	Sep 10	Chung	
		December of Communication P75			
	E3	Depopulating C55, populating R75	Oct 14	Chung	
FREEDOM K64F					
	E4	Some Net alias renaming Title block update	15-Apr-16	M. Byma	
	De Ra	Microcontroller F 6501 William Cannon Dri Austin, TX 78735-8598 ocument contains information proprietary to NXP and shall not be use rement or manufacture in whole or in part without the express written p ICAP Classification: CP: ICAP Classification: CP: Signer: Drawing Title: FRDM-K64F Wen by: Page Title:	ive West d for engineering de permission of NXP S		
	De Ra Dra Su	6501 William Cannon Dri Austin, TX 78735-8598 document contains information proprietary to NXP and shall not be use rement or manufacture in whole or in part without the express written properties in the properties of the prope	ive West d for engineering de permission of NXP S	esign, iemiconductors. X PUBI: X	
	De Ra Dra Su	6501 William Cannon Dri Austin, TX 78735-8598 locument contains information proprietary to NXP and shall not be use rement or manufacture in whole or in part without the express written proprietary to NXP and shall not be use rement or manufacture in whole or in part without the express written proprietary to NXP and shall not be use rement or in part without the express written proprietary to NXP and shall not be use rement or in part without the express written proprietary to NXP and shall not be use rement or in part without the express written proprietary to NXP and shall not be use rement or in part without the express written proprietary to NXP and shall not be use rement or in part without the express written proprietary to NXP and shall not be use rement or in part without the express written proprietary to NXP and shall not be use rement or in part without the express written proprietary to NXP and shall not be use rement or in part without the express written proprietary to NXP and shall not be use rement or in part without the express written proprietary to NXP and shall not be use rement or in part without the express written proprietary to NXP and shall not be use rement or in part without the express written proprietary to NXP and shall not be use rement or in part without the express written proprietary to NXP and shall not be use rement or in part without the express written proprietary to NXP and shall not be use rement or in part without the express written proprietary to NXP and shall not be use rement or in part without the express written proprietary to NXP and shall not be use rement or in part without the express written proprietary to NXP and shall not be u	ive West d for engineering de permission of NXP S	esign, lemiconductors. X PUBI: X PS163 Rev E4	



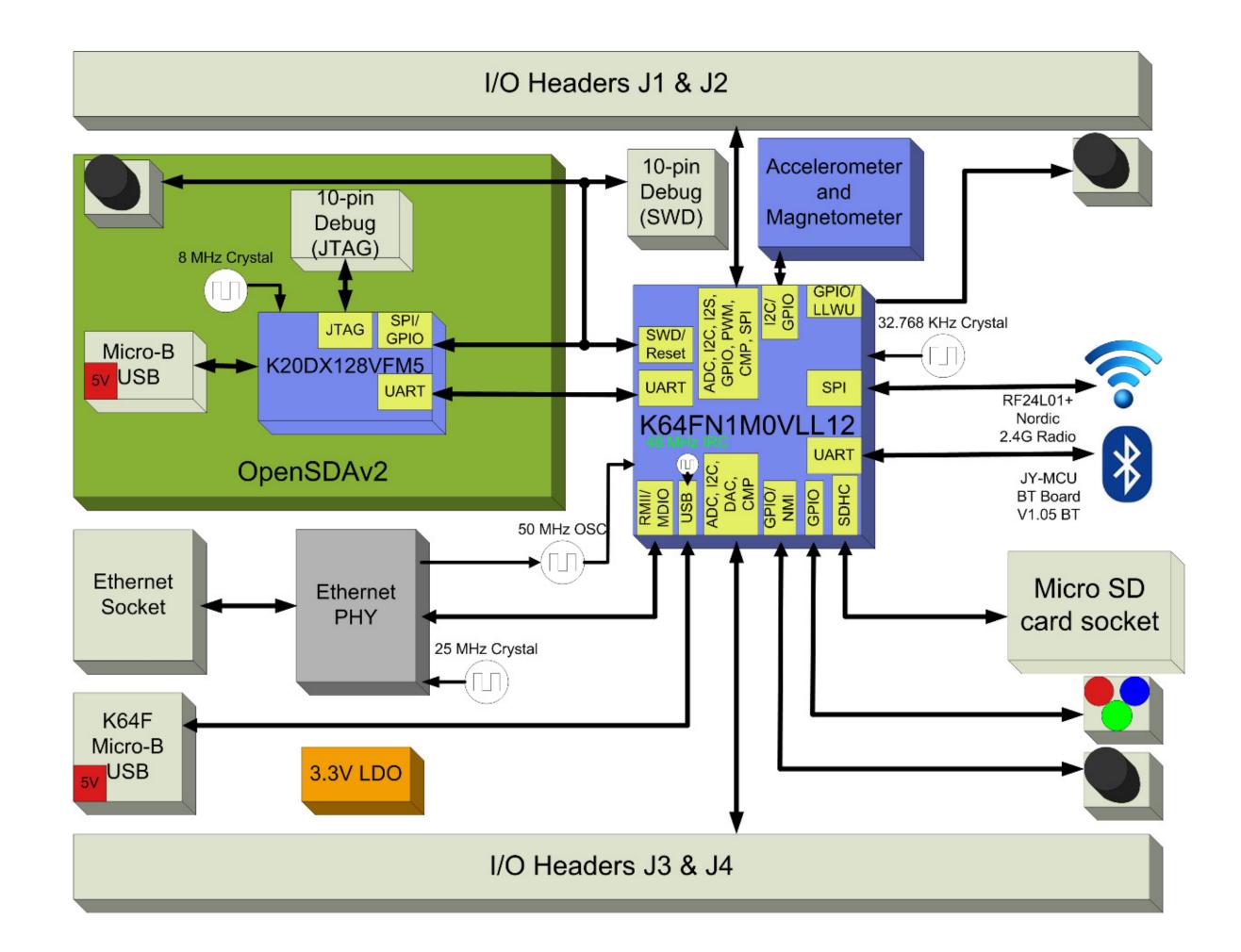
All resistors are in ohms, most are 1%, 1/10 Watt. Otherwise are 5%, 1/8 Watt.

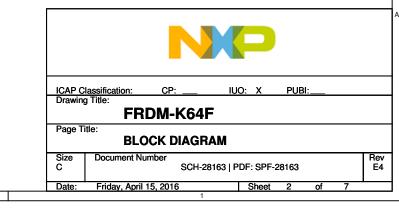
All capacitors are in uF, some are 10% or 20%

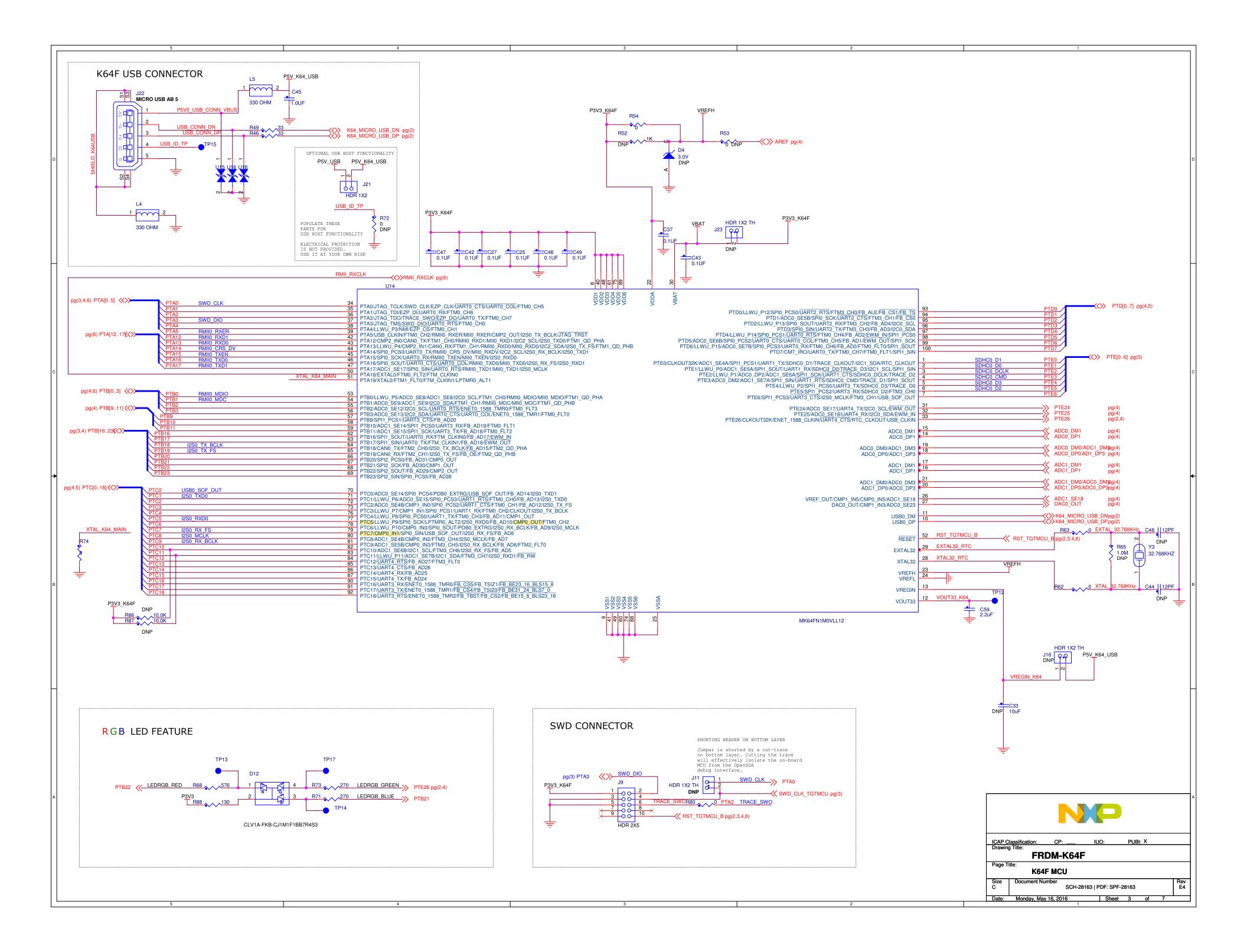
All voltages are DC

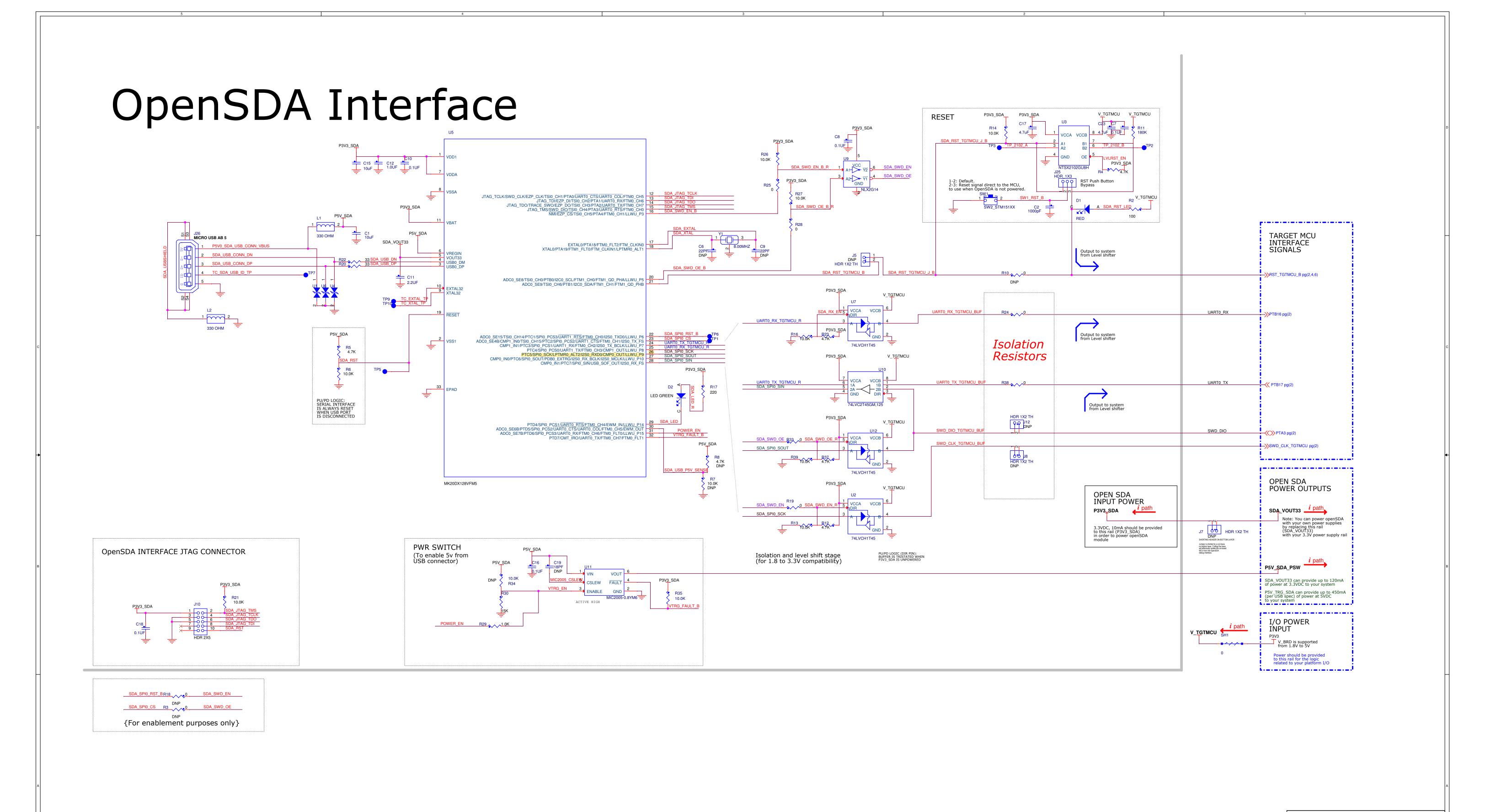
All polarized capacitors are tantalum

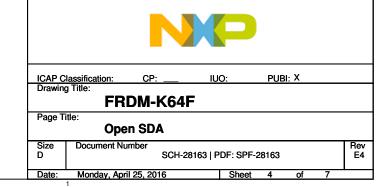
- 2. Interrupted lines coded with the same letter or letter combinations are electrically connected.
- 3. Device type number is for reference only. The number varies with the manufacturer.
- 4. Special signal usage:
 - _B Denotes Active-Low Signal
 - <> or [] Denotes Vectored Signals
- 5. Interpret diagram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

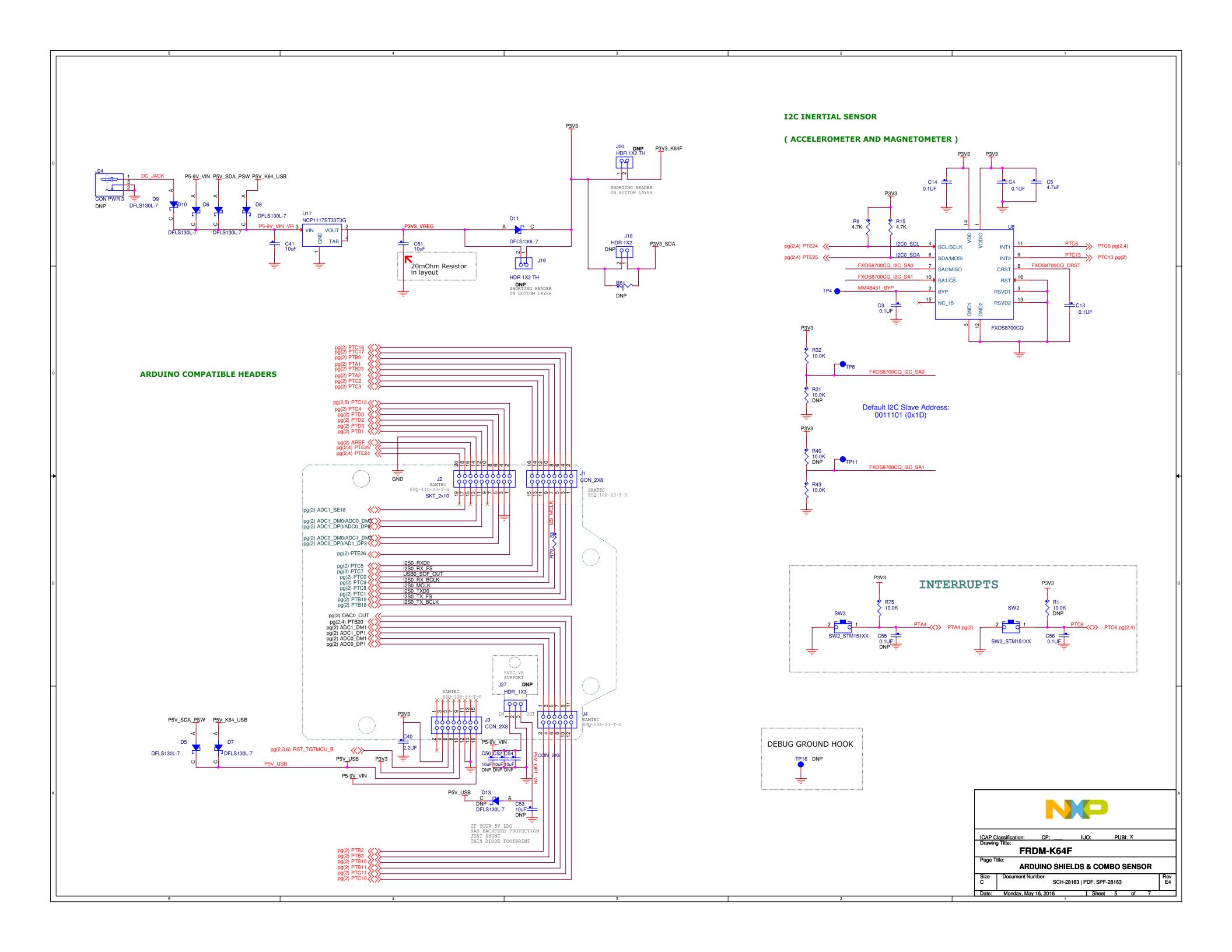


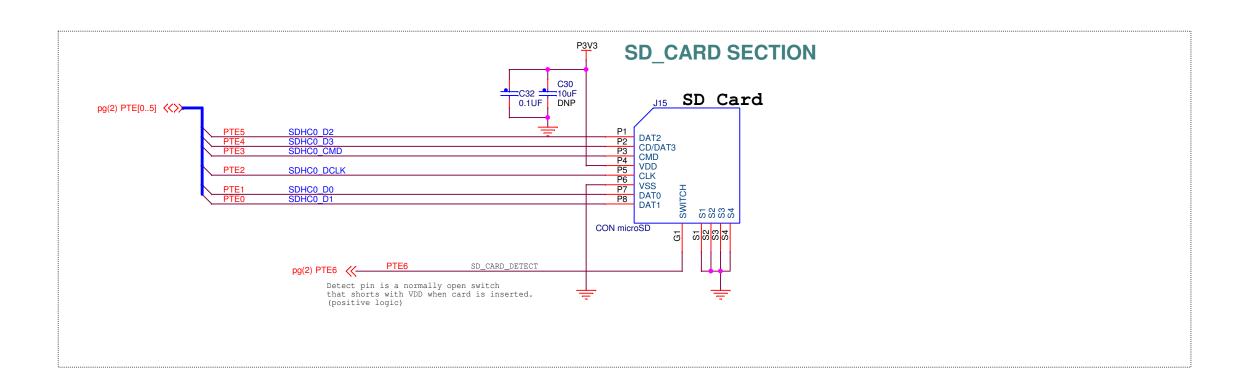


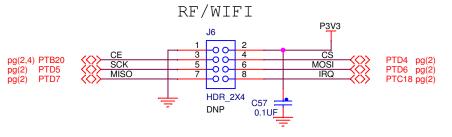




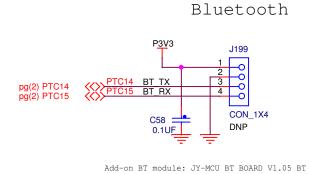








Add-on WIFI module: RF24L01+ - Nordic 2.4G Radio



Date: Monday, May 16, 2016 Sheet 6 of

