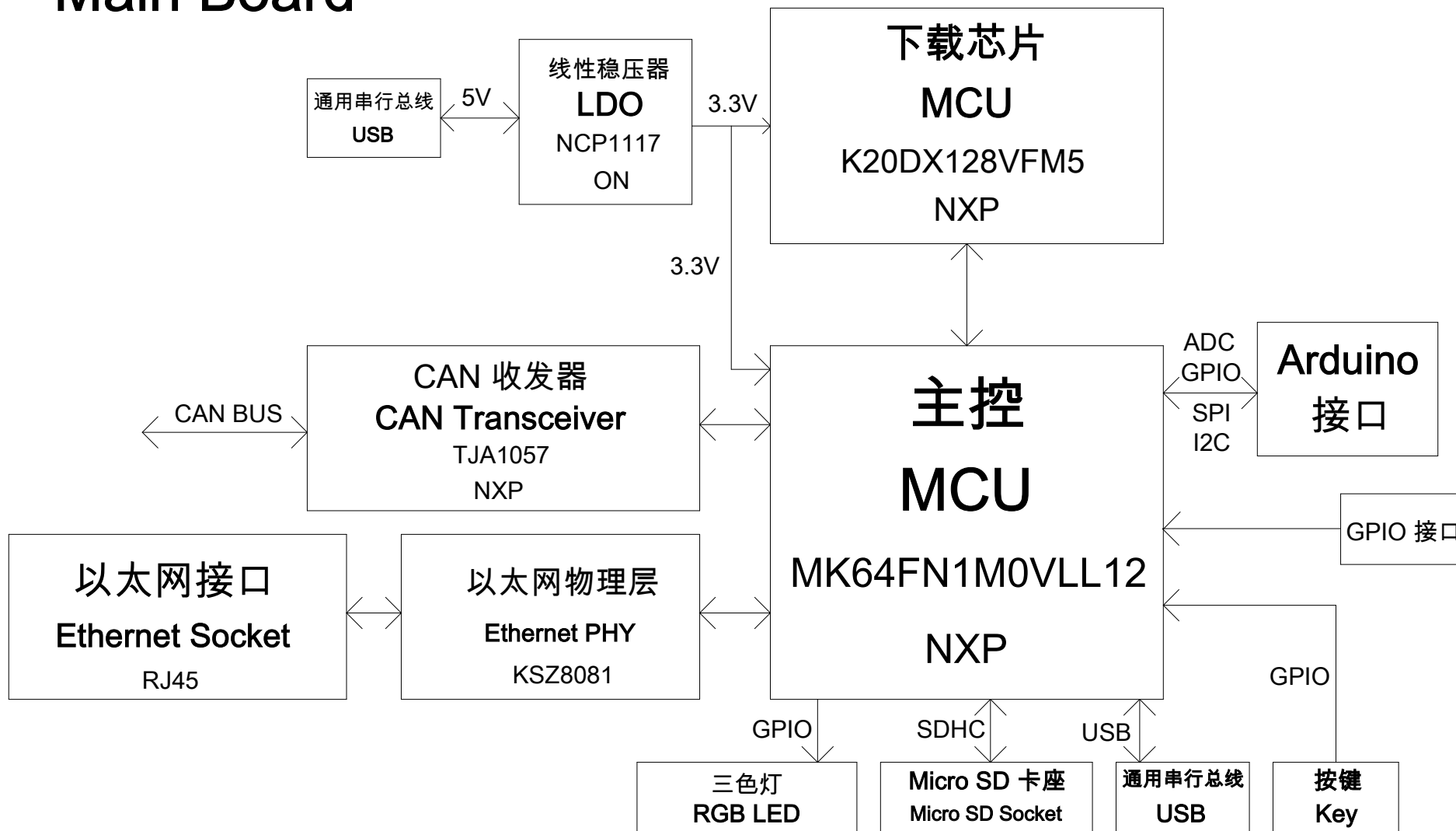

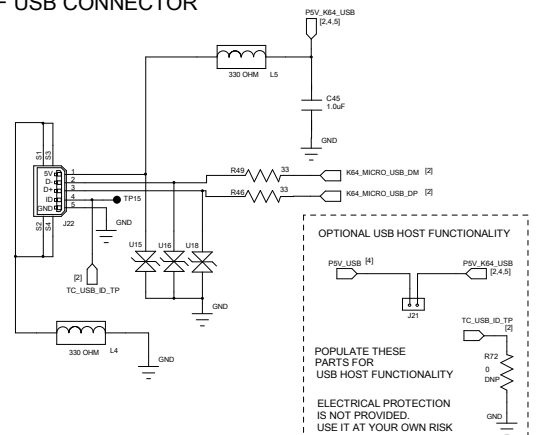


# Main Board



		Title: MCU-Leo	
Drawn By: Aidan Wu	Drawn Date: 2016/08/19	V1.0	
Last Save Date: 2017/2/9	Sheet Name: BLOCK_DIAGRAM	SHEET: 1 OF 5	

### K64F USB CONNECTOR

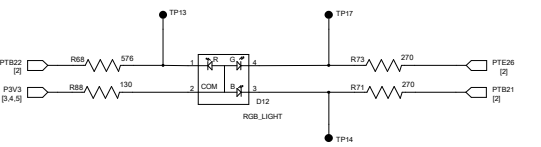


OPTIONAL USB HOST FUNCTIONALITY

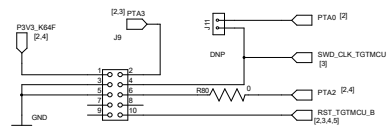
POPULATE THESE PARTS FOR USB HOST FUNCTIONALITY

ELECTRICAL PROTECTION IS NOT PROVIDED. USE IT AT YOUR OWN RISK

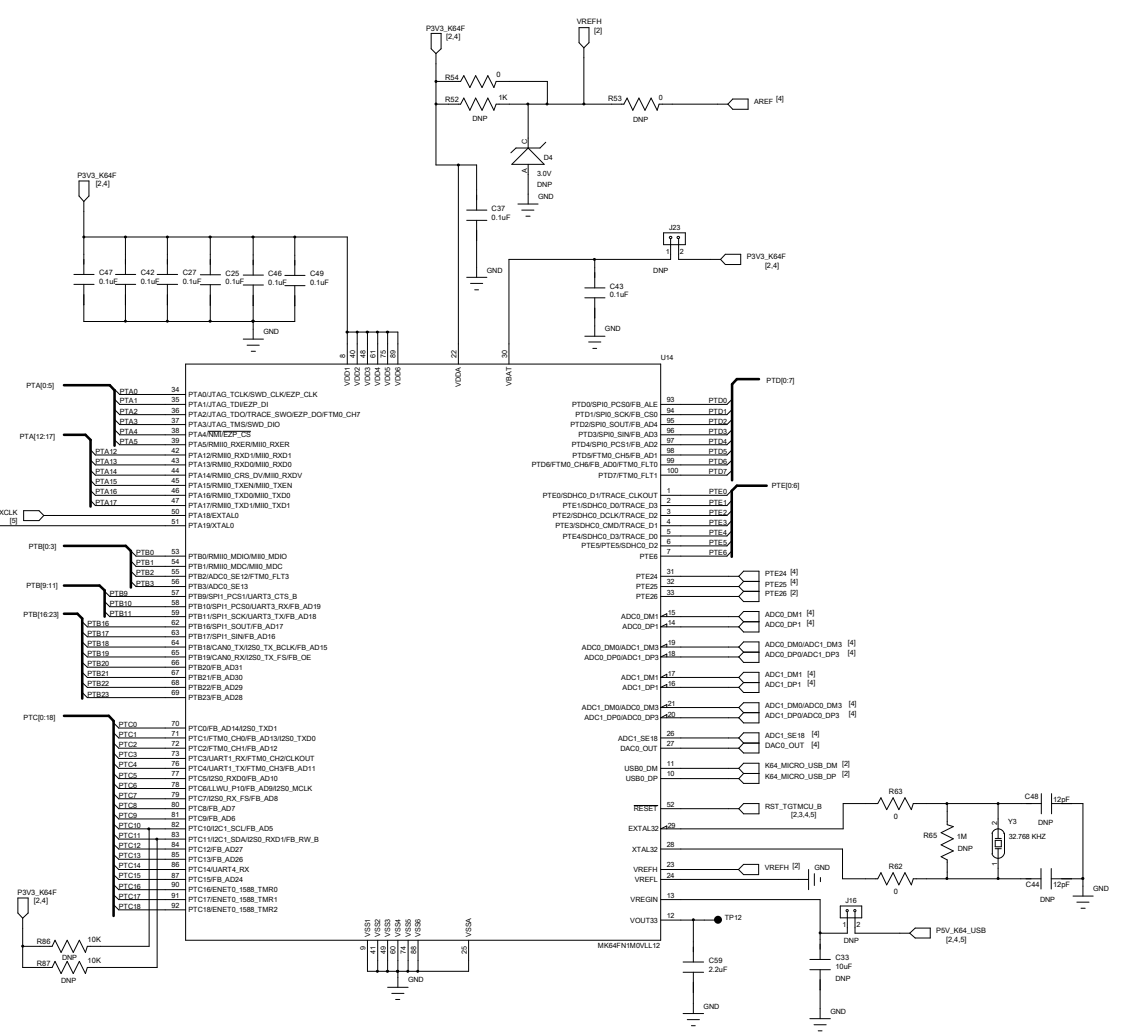
### RGB LED FEATURE




### 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.



# Kinetis K64

		Title: MCU-Leo	
		Drawn By: Aidan Wu	Drawn Date: 2016/08/19
Last Save Date: 2017/2/9		Sheet Name: K64F_MCU	SHEET: 2 OF 5

# OpenSDA Interface

D

C

B

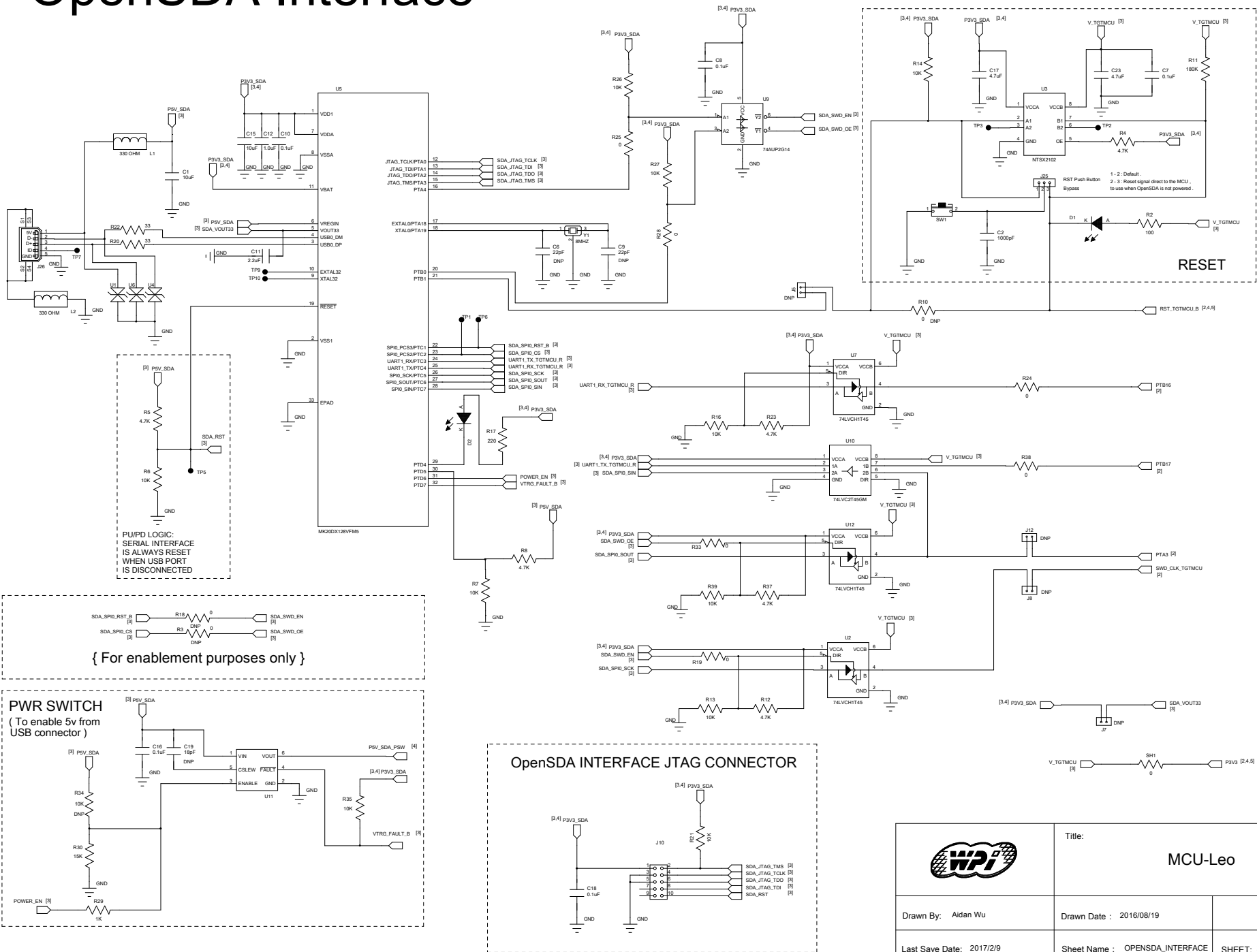
A

D

C

B

A




PU/PD LOGIC:  
SERIAL INTERFACE  
IS ALWAYS RESET  
WHEN USB PORT  
IS DISCONNECTED

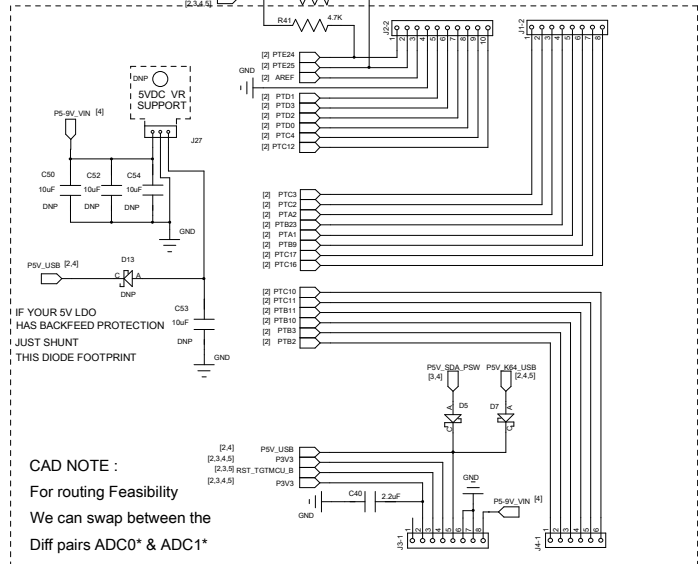
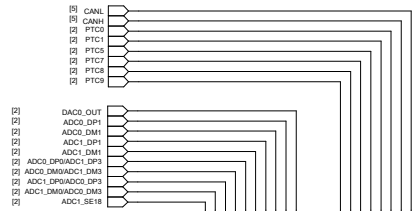
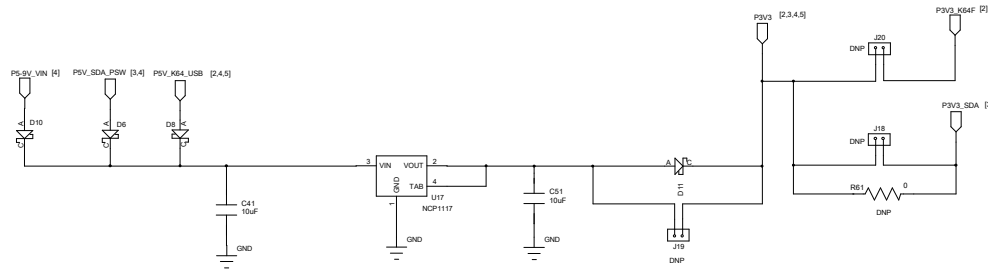
{ For enablement purposes only }

**PWR SWITCH**  
(To enable 5v from  
USB connector)

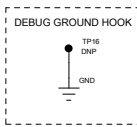
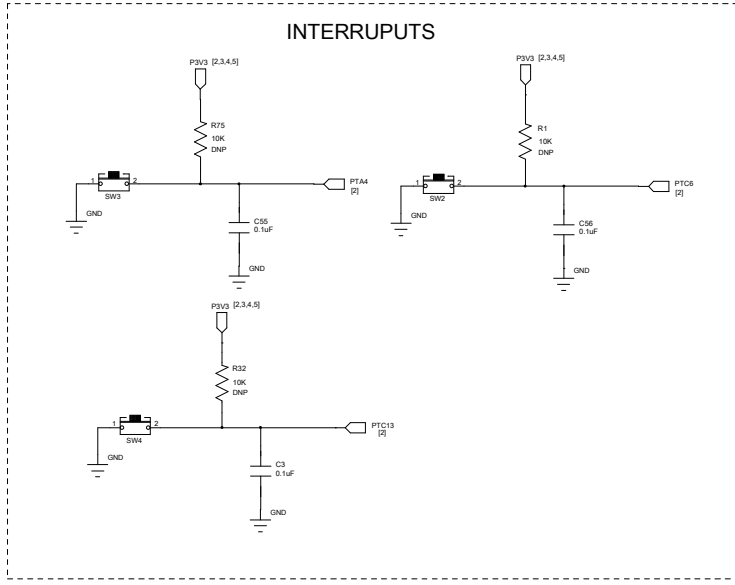
**OpenSDA INTERFACE JTAG CONNECTOR**

	Title: <b>MCU-Leo</b>	
	Drawn By: Aidan Wu	Drawn Date: 2016/08/19
Last Save Date: 2017/2/9	Sheet Name: OPENSDA_INTERFACE	SHEET: 3 OF 5


# LDO



# INTERRUPTS



# ARDUINO COMPATIBLE HEADER

		Title: MCU-Leo	
Drawn By: Aidan Wu	Drawn Date : 2016/08/19	V1.0	
Last Save Date: 2017/2/9	Sheet Name : ARDUINO_SHIELDS	SHEET: 4 OF 5	

