


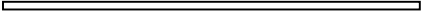
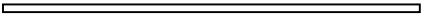
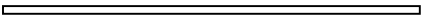
# Content Indexing

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## PCB POWER WIRE WIDTH INDICATE

	above 80 miles
	above 50 miles
	above 30 miles
	above 16 miles
No indicate	Under needs

## 4 LAYERS PCB STACK

TOP		2116*1	Toz
GND		1oz (35um)	Adjust
POWER		2116*1	1oz (35um)
BOTTOM		Toz	

LOGO *Firefly-Code* →  
U12 Firefly\_Logo  
*Firefly* →  
U1 Firefly\_LOGO



[www.t-firefly.com](http://www.t-firefly.com)

Title: INDEX

File: Fireduino

REV: V10


Create Date: Friday, June 12, 2015

Page Num: 1

Modify Date: Wednesday, September 21, 2016

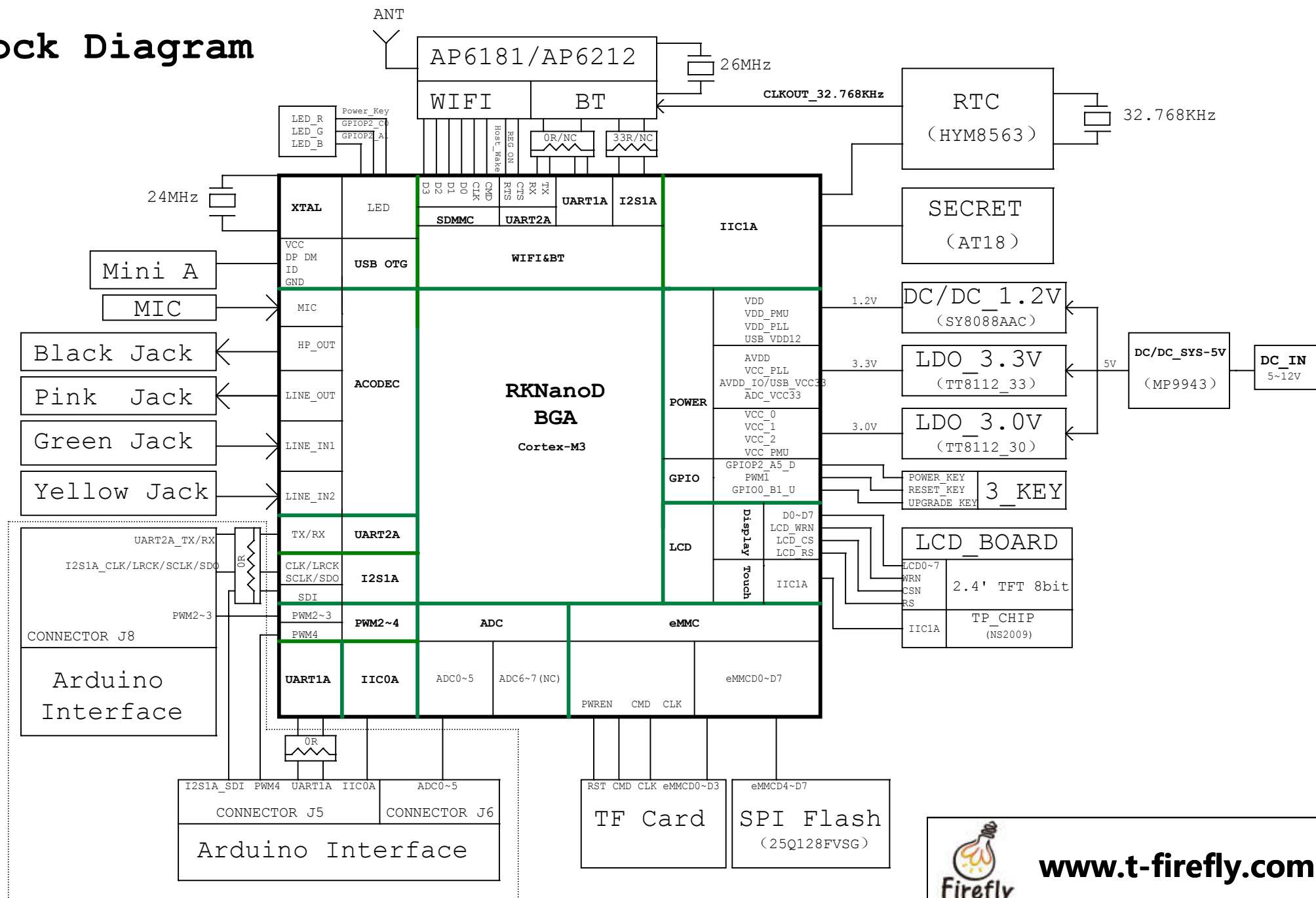
Page Total: 11

Version	Date	Author	Change Note	Note															
V00	20150612	GZC	First edictor																
V01	20150930	GZC	1.Delete the LCD interface 2.Change the FireNano Module definition 3.Redistribute GPIOs	<table><tr><th>Function</th><th>Old</th><th>New</th></tr><tr><td>CORE_ADJ: WIFI_REG_ON: WIFI_HOST_WAKE: BT_HOST_WAKE: BT_WAKE: BT_RST :</td><td>GPIO2_B0_U GPIO2_A2_U GPIO2_A0_U GPIO2_B1_U GPIO2_B2_U GPIO2_B3_U</td><td>GPIO2_A3_U GPIO2_A2_D GPIO2_A0_U GPIO1_A0_D GPIO0_B6_U GPIO0_B5_U</td></tr><tr><td>I2C</td><td>I2C1C_SDA I2C1C_SCL</td><td>I2C1A_SDA I2C1A_SCL</td></tr><tr><td>BT_UART</td><td>UART2A_RX UART2A_TX UART2A_CTS UART2A_RTS</td><td>UART1A_RX UART1A_TX UART1A_CTS UART1A_RTS</td></tr></table>	Function	Old	New	CORE_ADJ: WIFI_REG_ON: WIFI_HOST_WAKE: BT_HOST_WAKE: BT_WAKE: BT_RST :	GPIO2_B0_U GPIO2_A2_U GPIO2_A0_U GPIO2_B1_U GPIO2_B2_U GPIO2_B3_U	GPIO2_A3_U GPIO2_A2_D GPIO2_A0_U GPIO1_A0_D GPIO0_B6_U GPIO0_B5_U	I2C	I2C1C_SDA I2C1C_SCL	I2C1A_SDA I2C1A_SCL	BT_UART	UART2A_RX UART2A_TX UART2A_CTS UART2A_RTS	UART1A_RX UART1A_TX UART1A_CTS UART1A_RTS			
Function	Old	New																	
CORE_ADJ: WIFI_REG_ON: WIFI_HOST_WAKE: BT_HOST_WAKE: BT_WAKE: BT_RST :	GPIO2_B0_U GPIO2_A2_U GPIO2_A0_U GPIO2_B1_U GPIO2_B2_U GPIO2_B3_U	GPIO2_A3_U GPIO2_A2_D GPIO2_A0_U GPIO1_A0_D GPIO0_B6_U GPIO0_B5_U																	
I2C	I2C1C_SDA I2C1C_SCL	I2C1A_SDA I2C1A_SCL																	
BT_UART	UART2A_RX UART2A_TX UART2A_CTS UART2A_RTS	UART1A_RX UART1A_TX UART1A_CTS UART1A_RTS																	
V02	20160614	XZM	1.Delete ADC6,ADC7 2.Delete Battery Charge Function 3.Change USB OTG_PW_EN 4.Change DC/DC Chip (SYS Power)	<table><tr><th>Function</th><th>Old</th><th>New</th></tr><tr><td>ADC</td><td>ADC6,ADC7</td><td>Delete</td></tr><tr><td>BAT Charge</td><td>IC RT9505</td><td>Delete</td></tr><tr><td>USB POWER EN</td><td>GPIO1_B3_D</td><td>Hareware PULL</td></tr><tr><td>SYS Power</td><td>DC/DC MP1495S</td><td>DC/DC MP9943</td></tr></table>	Function	Old	New	ADC	ADC6,ADC7	Delete	BAT Charge	IC RT9505	Delete	USB POWER EN	GPIO1_B3_D	Hareware PULL	SYS Power	DC/DC MP1495S	DC/DC MP9943
Function	Old	New																	
ADC	ADC6,ADC7	Delete																	
BAT Charge	IC RT9505	Delete																	
USB POWER EN	GPIO1_B3_D	Hareware PULL																	
SYS Power	DC/DC MP1495S	DC/DC MP9943																	

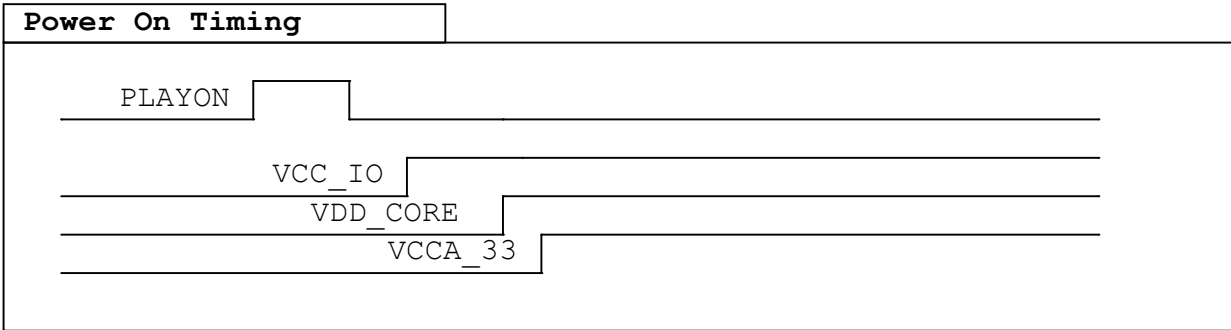
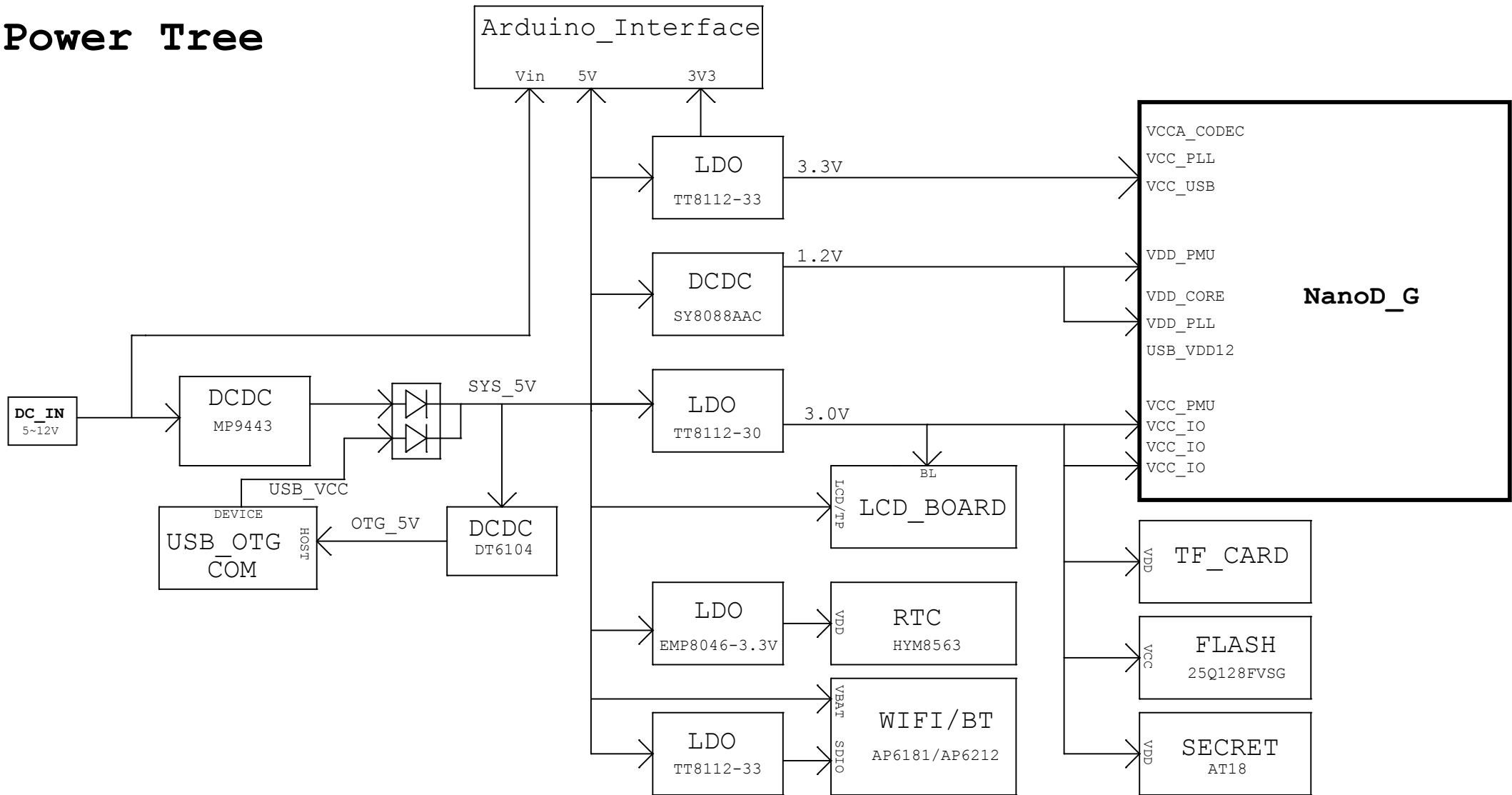
[www.t-firefly.com](http://www.t-firefly.com)


<b>Title:</b> CHANGE LIST	
<b>File:</b> Fireduino	REV: V10
Create Date: Friday, June 12, 2015	Page Num:2
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# Block Diagram



Power Tree



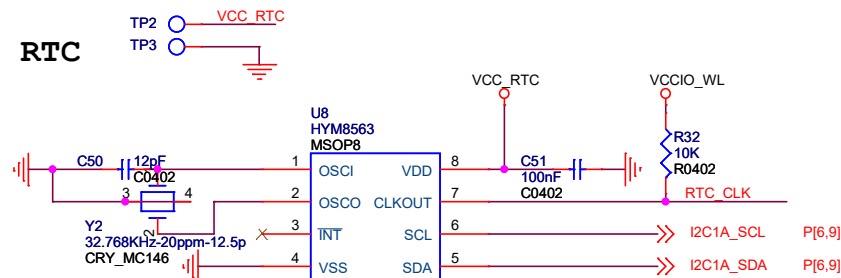
[www.t-firefly.com](http://www.t-firefly.com)

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Modify Date: Wednesday, September 21, 2016	Page Total: 11

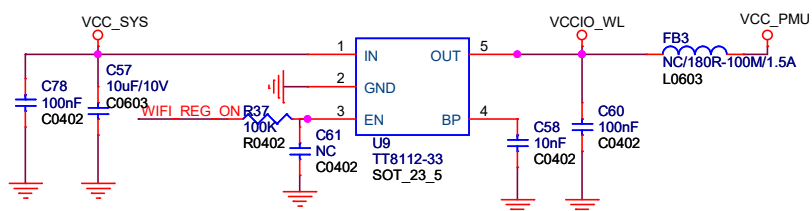


[illegible]

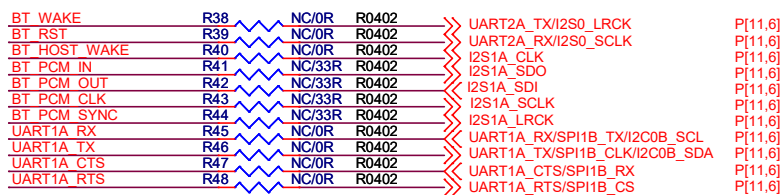
## RTC



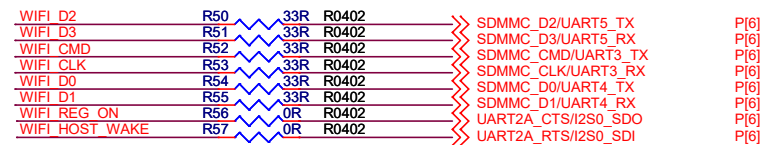
VCC\_WL



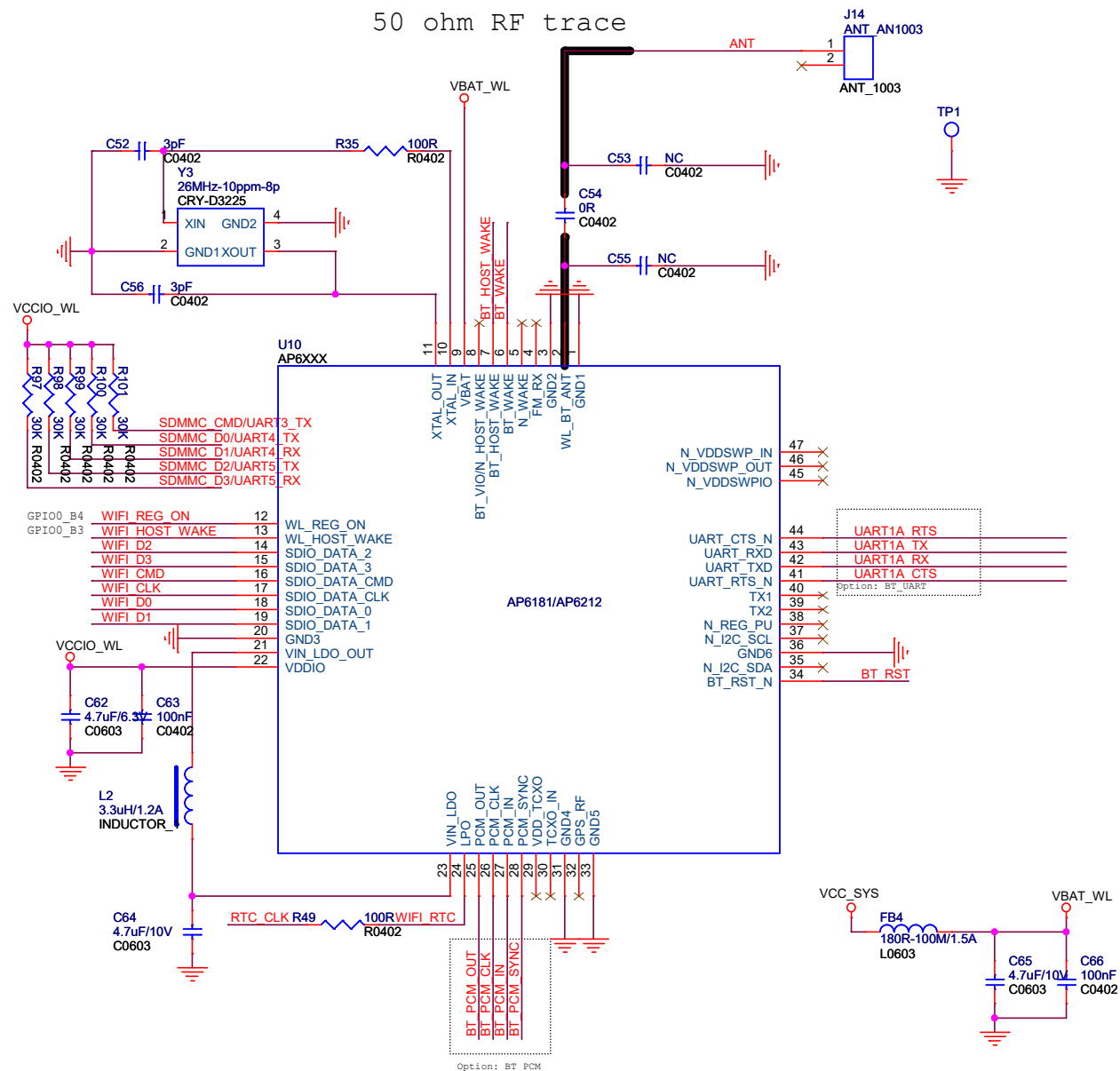
## BT



**WIFI**



WIFI AP6181



AP6181	WIFI
AP6212	WIFI+BT



**www.t-firefly.com**

**Title:** WIFI AP6181/AP6212

<b>File:</b>	<b>Fireduino</b>
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REV: V10

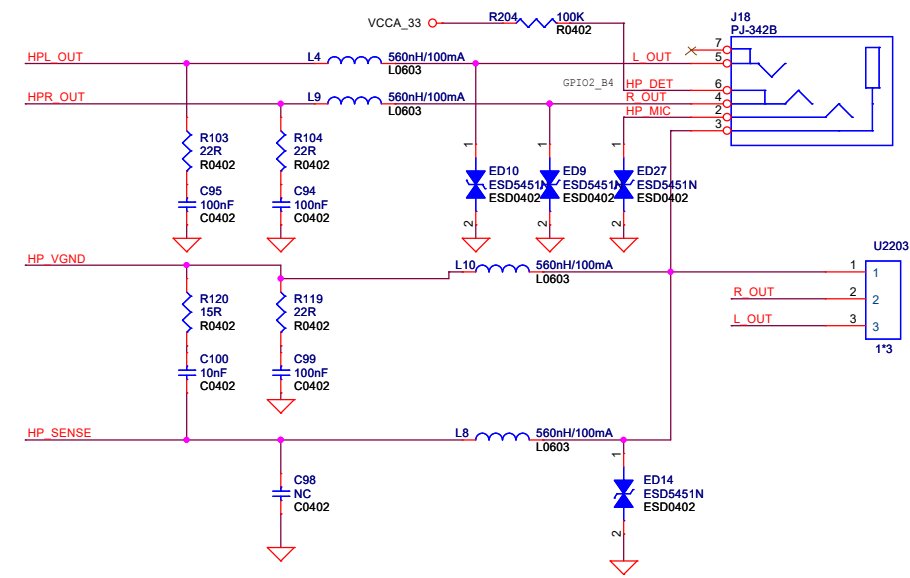
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Page Num: 7

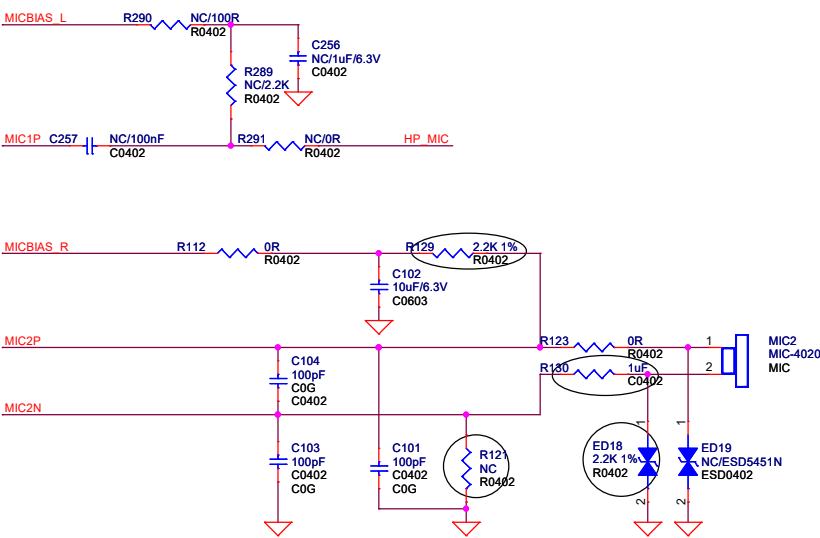
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Page Total: 11

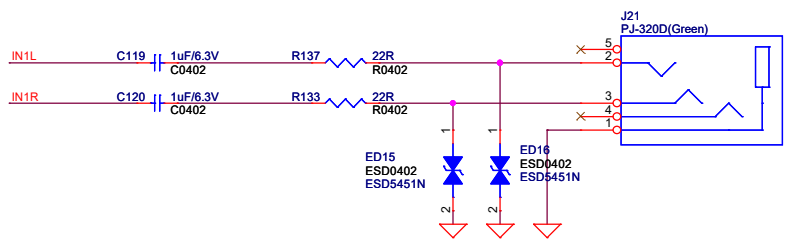
# EarPhone Jack



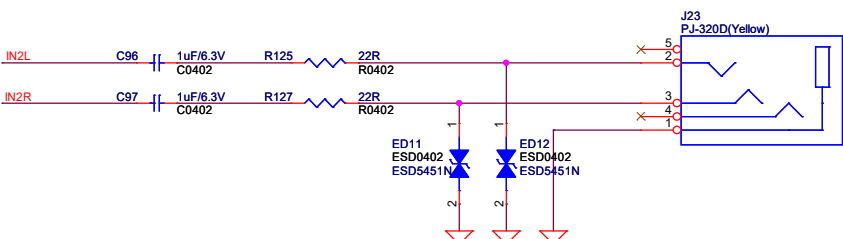
# MIC



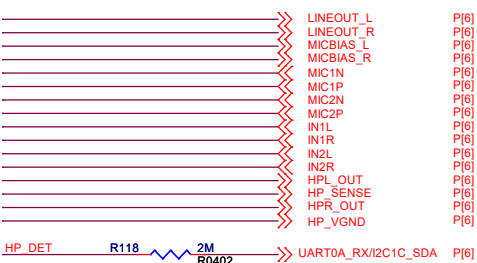
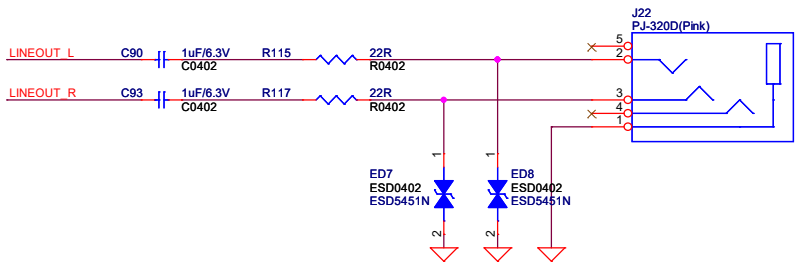
# Line in Jack 1




# Line in Jack 2



# Lineout Jack

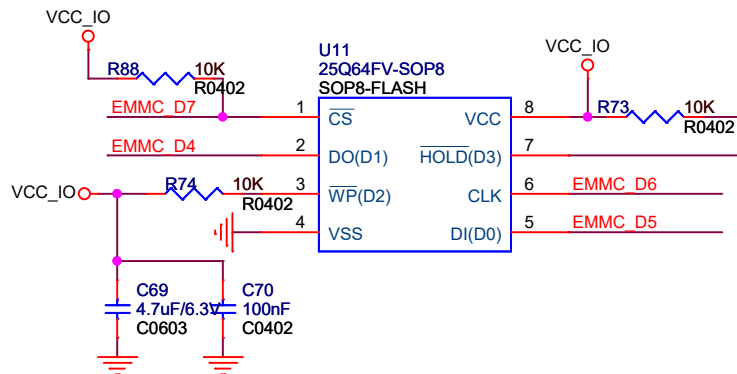


[www.t-firefly.com](http://www.t-firefly.com)

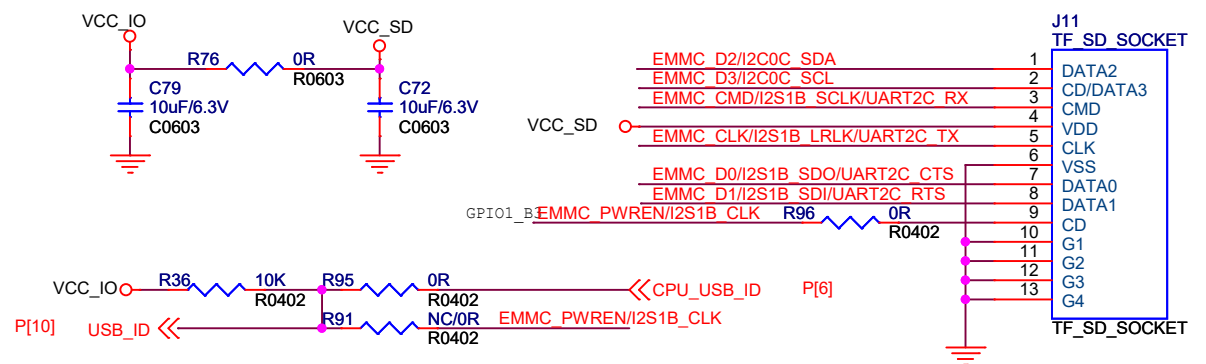
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Modify Date: Wednesday, September 21, 2016	Page Total: 11	



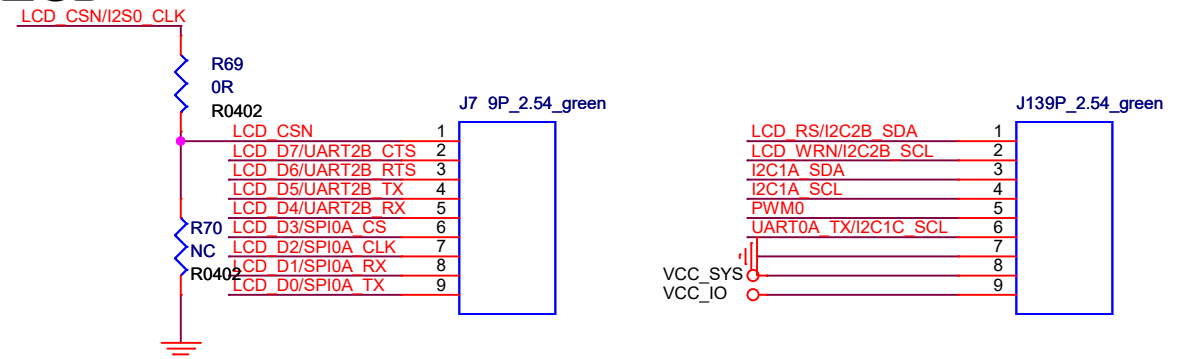
# NorFlash



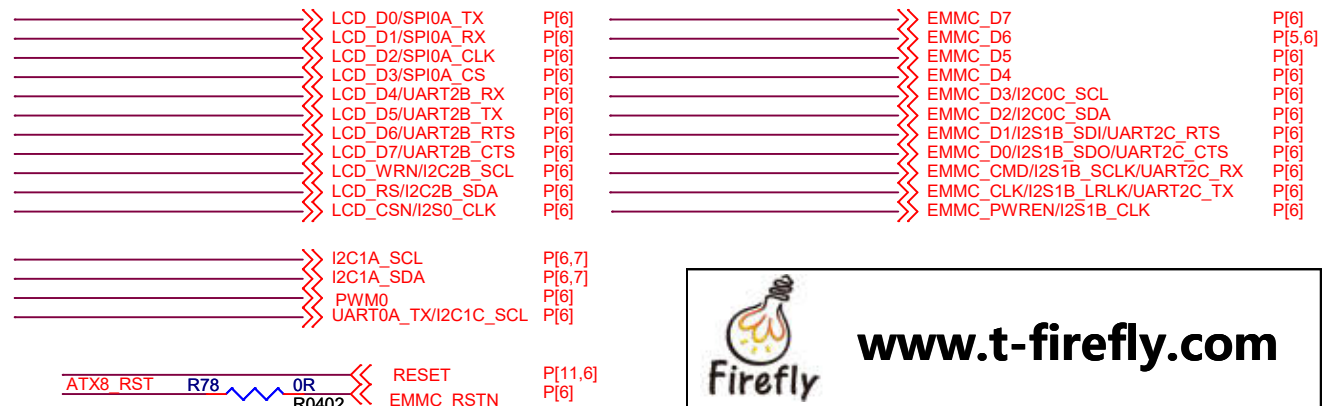
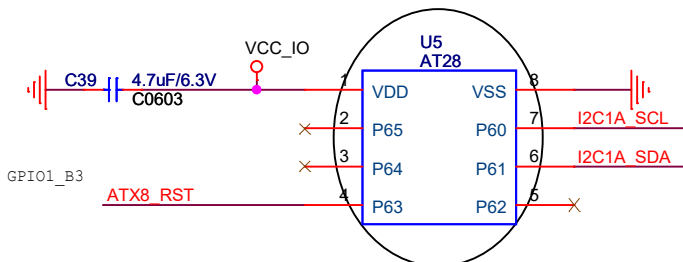
# TF Card



# LCD



**Secret**



**www.t-firefly.com**

<b>Title:</b> Flash/LCD/TF CARD
---------------------------------

**File:** Fireduino

REV: V10

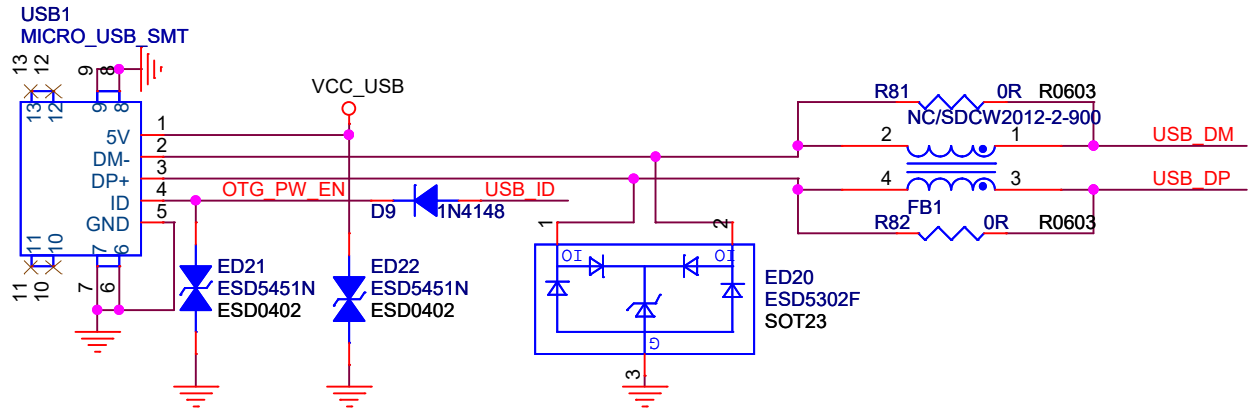
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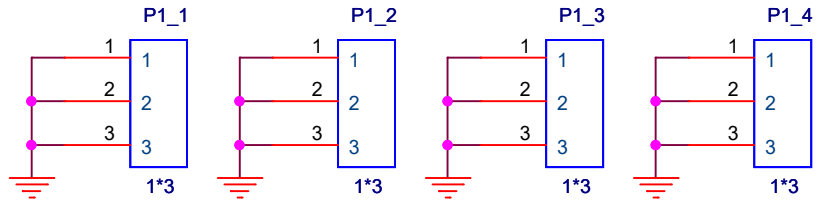
Page Total: 11

# MICRO USB



USB\_DP P[6]  
USB\_DM P[6]  
USB\_ID P[9]  
OTG\_PW\_EN P[5]

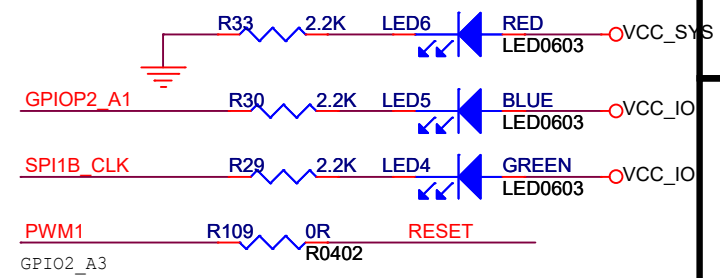
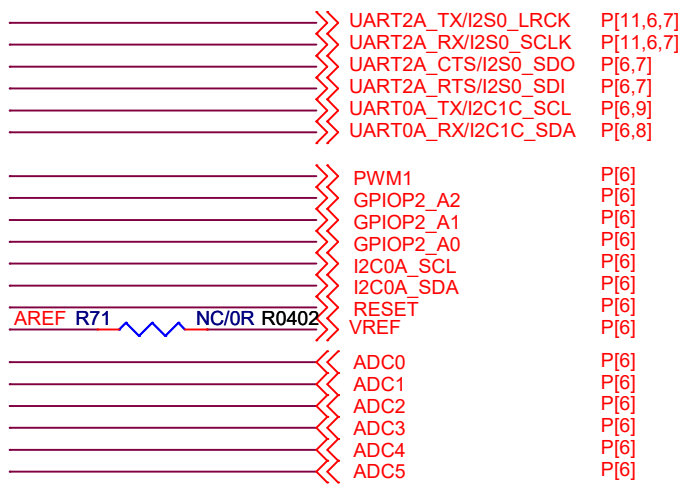
## shield



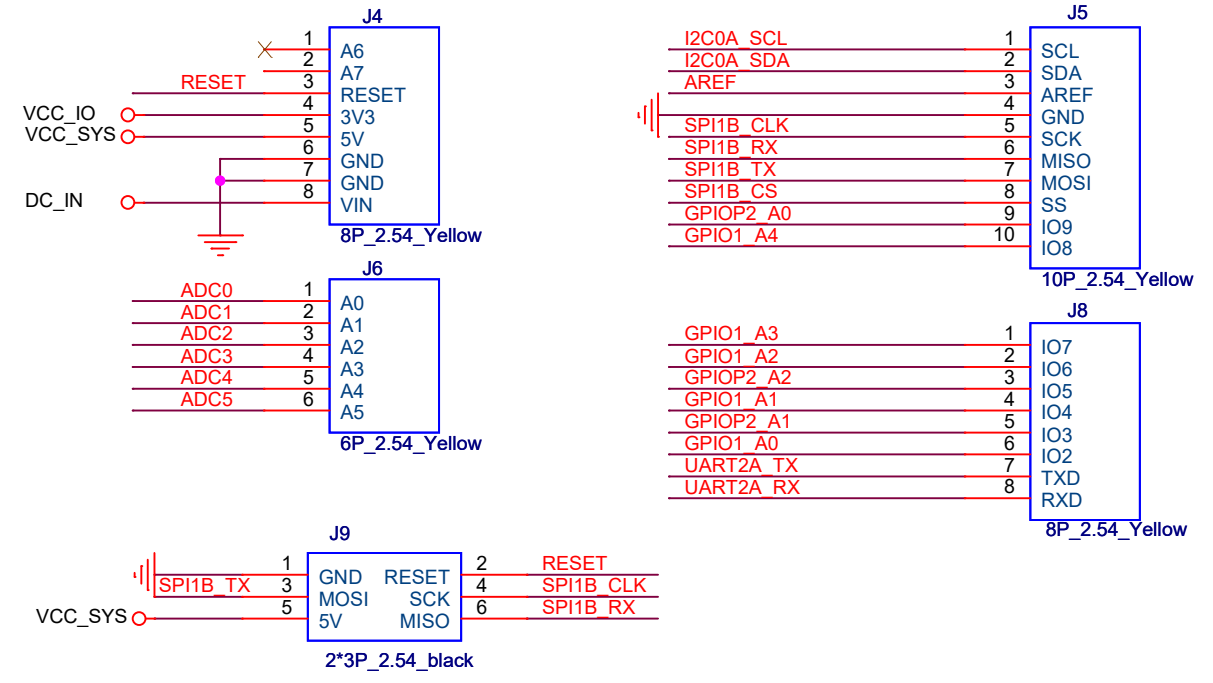


**www.t-firefly.com**

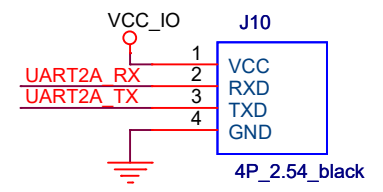
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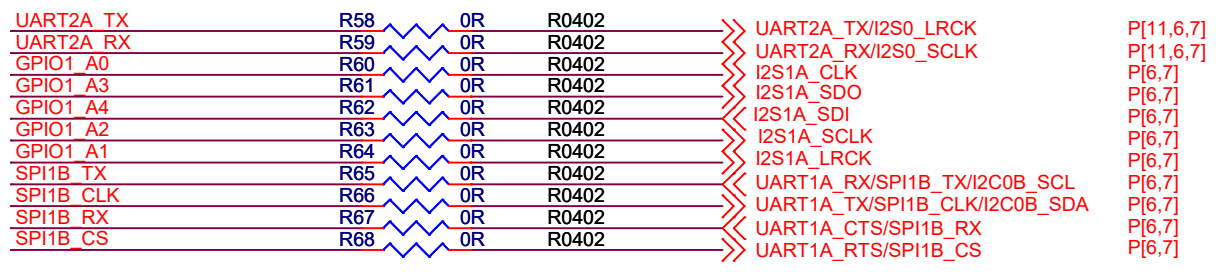
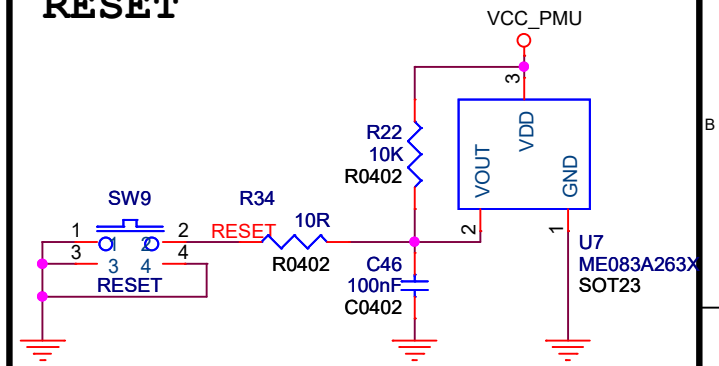
## Arduino-Interface



## Debug



## RESET



www.t-firefly.com

Title: CONNECTOR/LED	
File: Fireduino	REV: V10
Create Date: Friday, June 12, 2015	Page Num: 11
Modify Date: Wednesday, September 21, 2016	Page Total: 11