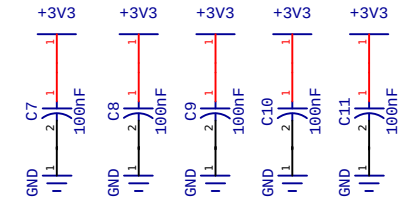


2

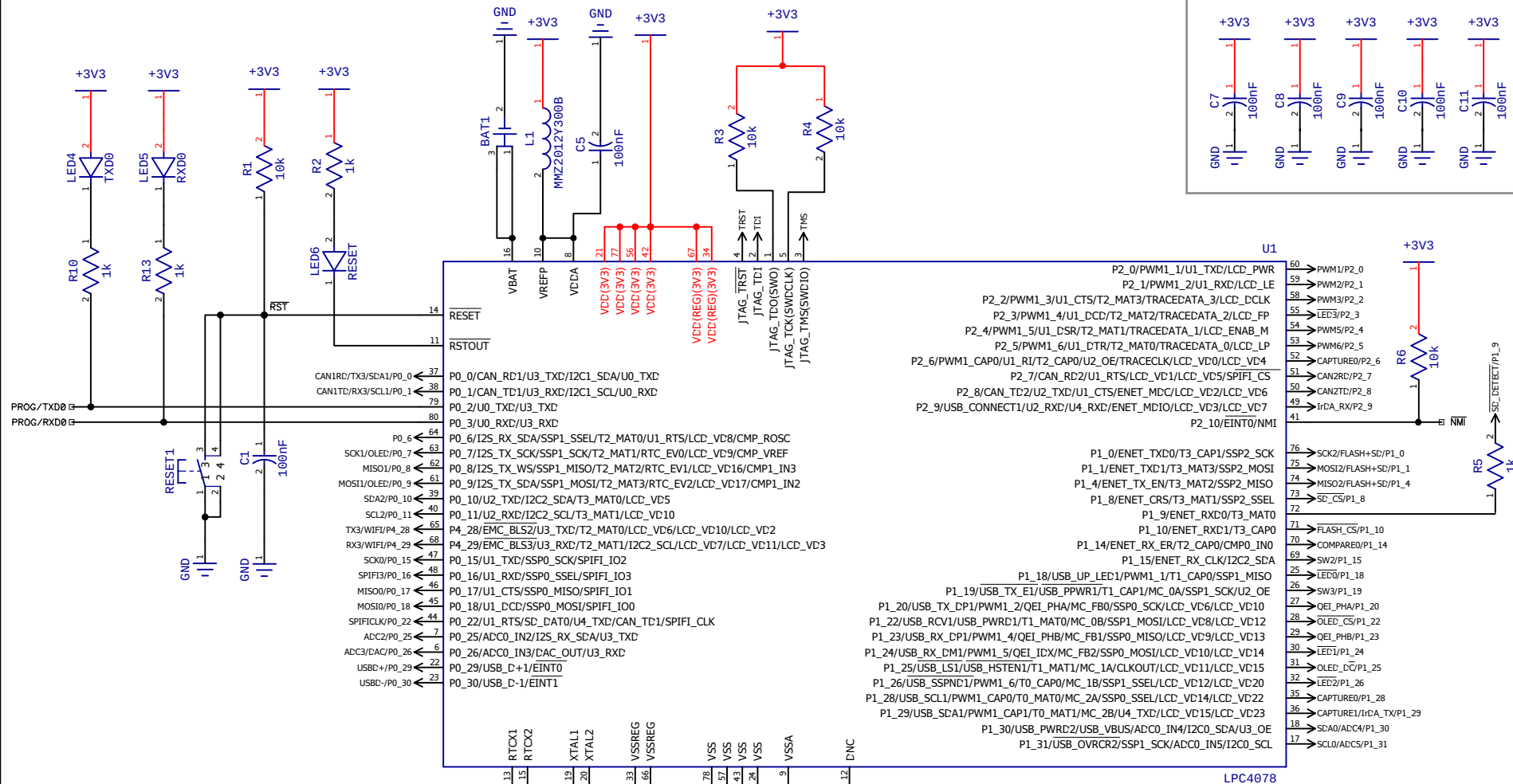
1

MCU Filtering Caps



2

1



Title		
SJTTwo Board		
Size	Author	Rev
	Khalil Estell	1.E
Date: Dec.1.2018		Sheet: MCU

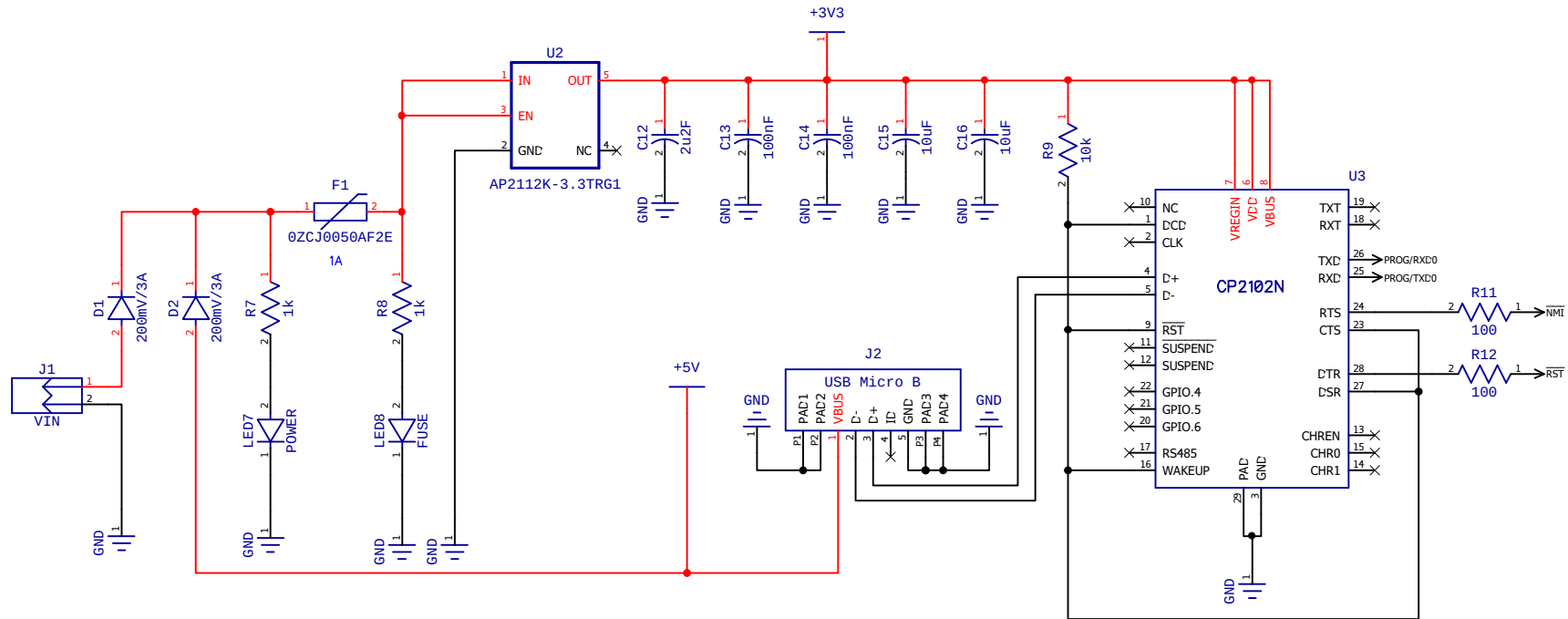
2

1

B

B

NOTE: Regulator Thermal Calculation
 $((5.0V - 3.3V - .2V) \times .4A) \times 96C/W + 25C = 97C$
 $((6.0V - 3.3V - .2V) \times .4A) \times 96C/W + 25C = 121C$



NOTE: 100R used as output protection

A

A

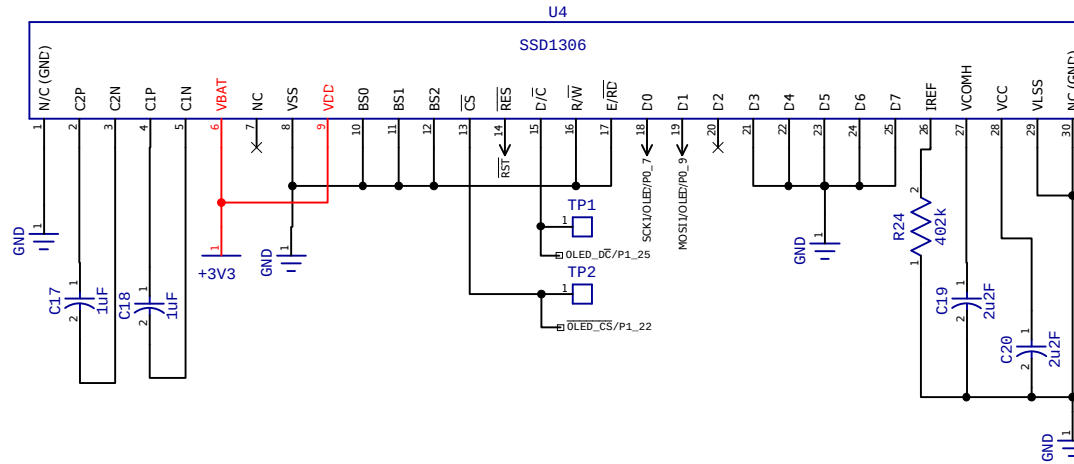
2

1

Title SJTwo Board		
Size	Author Khalil Estell	Rev 1.E
Date: Dec.1.2018		Drawn by
Filename		Sheet

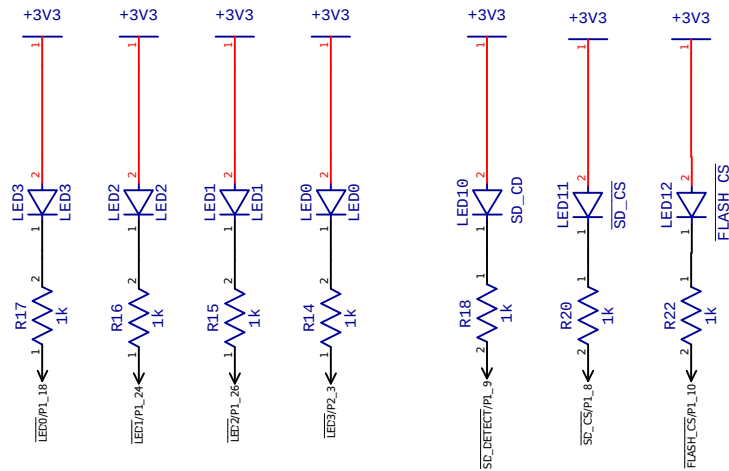
2

1

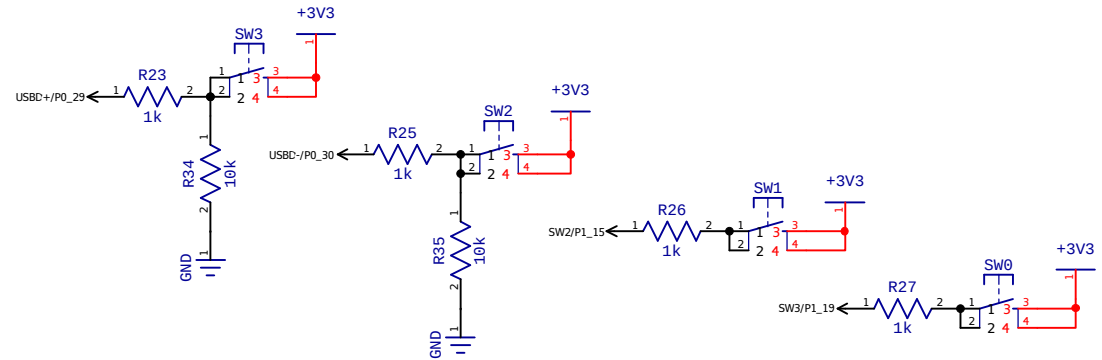


OLED Display

NOTE: BS[2:0]=L -> OLED MODE=SPI-4W



LED Indicators



NOTE: Internal pull downs must be enabled for the switches 1 and 0 to work

Button Field

Title		
SJTwo Board		
Size	Author	Rev
	Khalil Estell	1.E
Date: Dec.1.2018		Drawn by
Filename		Sheet

2

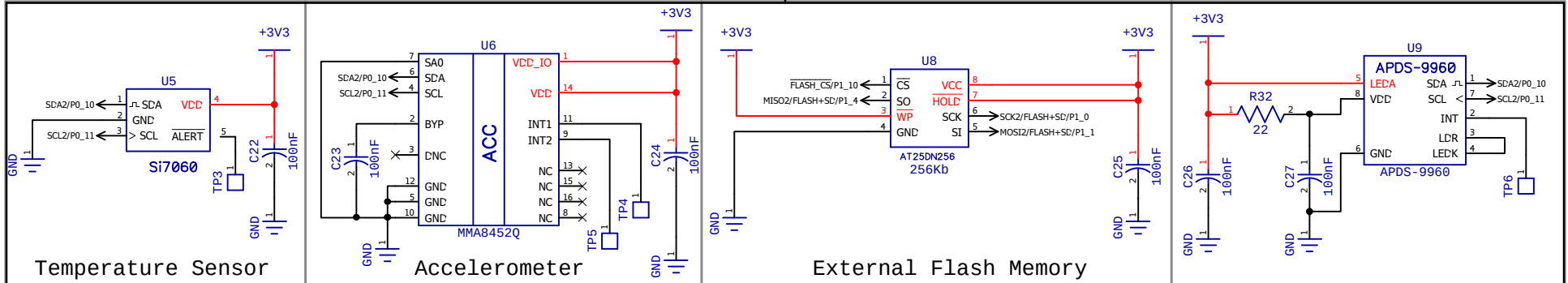
1

2

1

B

B



Temperature Sensor

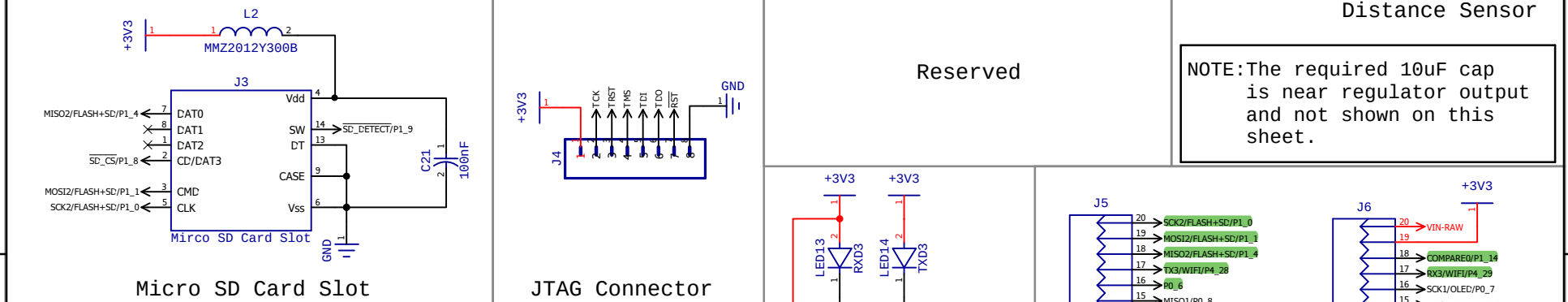
Accelerometer

External Flash Memory

RGB, Gesture, Proximity,
Distance Sensor

NOTE: The required 10uF cap
is near regulator output
and not shown on this
sheet.

Reserved

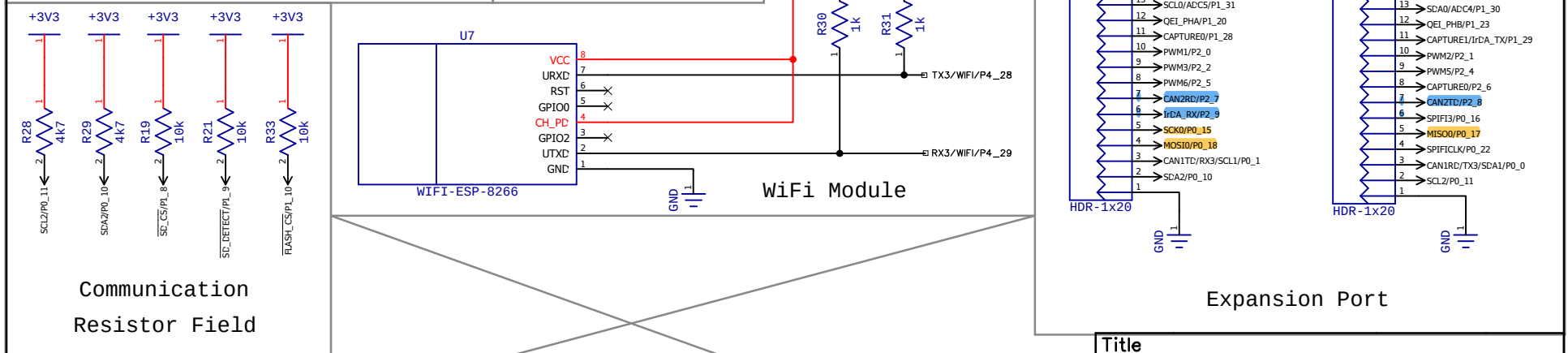


Micro SD Card Slot

JTAG Connector

A

A

Communication
Resistor Field

WiFi Module

Expansion Port

Reserved

2

1

Title SJTWO Board		
Size	Author Khalil Estell	Rev 1.E
Date: Dec.1.2018		Drawn by
Filename		Sheet