

A

A

B

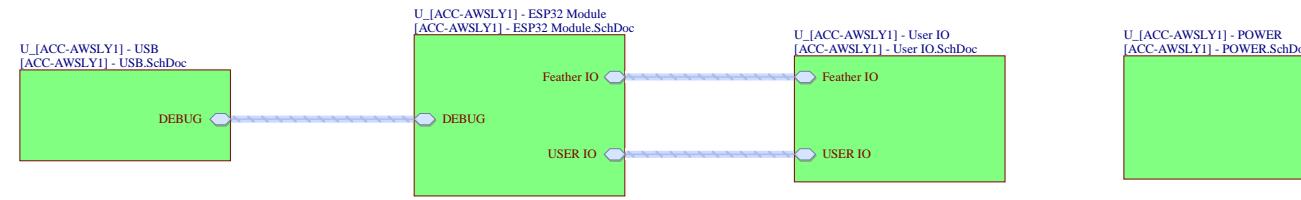
B

C

C

D

D



FID1
FIDUCIAL-0MM5

 FID2
FIDUCIAL-0MM5

 FID3
FIDUCIAL-0MM5

 FID4
FIDUCIAL-0MM5

AWS LOGO



Title: The AWS ESP32 Lanyard
[ACC-AWSLY1] - Top.SchDoc

Date: 26/11/2017 Sheet: 1 of 5 Drawn By: Arun Rangika

Time: 7:30:27 PM File:[ACC-AWSLY1] - Top.SchDoc Checked By: M J Adams

Revision: A.01 Format: A3 Approved By: M J Adams

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BOARD CONFIGURATION SUMMARY

USER LED (RED) = GPIO 13

BUTTON 1 = GPIO 32

BUTTON 2 = GPIO 33

BATTERY VOLTAGE = GPIO 35 (A13)

CAPTOUCH BUTTON = GPIO 2

RGB LEDs (DATA / CLK) = (GPIO 16 / GPIO 14)

I2C (SDA/SCL) = (GPIO 23 / GPIO 22)



ACCUMULATOS
IoT Hardware
Designed By
Tekt Industries Pty. Ltd.

BOARD CONFIGURATION SUMMARY

USER LED (RED) = GPIO 13

BUTTON 1 = GPIO 32

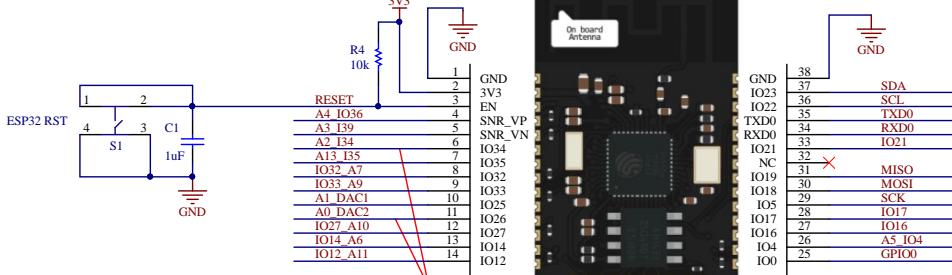
BUTTON 2 = GPIO 33

BATTERY VOLTAGE = GPIO 35 (A13)

CAPTOUCH BUTTON = GPIO 2

RGB LEDs (DATA / CLK) = (GPIO 16 / GPIO 14)

I2C (SDA/SCL) = (GPIO 23 / GPIO 22)



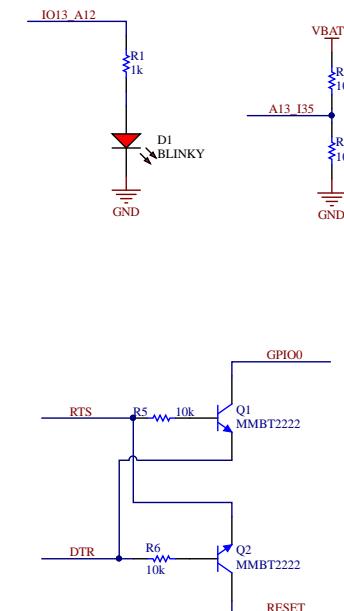
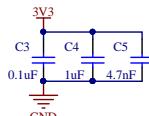
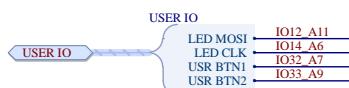
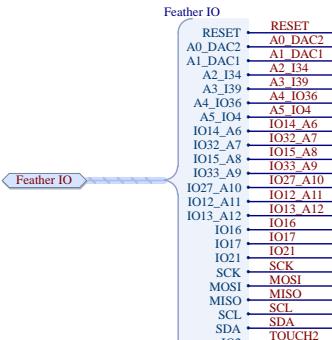
NOTE: DEFAULT ANALOG GROVE
CONFIGURATION FOR ARDUINO ONLY.

MONGOOSE-OS AND ESP-IDF:
RECOMMENDED TO LINK A2_A34 TO
A0_DAC2 FOR ANALOG GROVE TO USE
ESP32 ADC1 INTERNAL FUNCTION WITH
WIFI ENABLED.

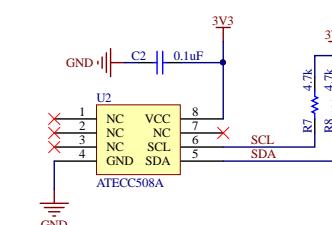
NOTE: ESP32 ADC FUNCTIONALITY
ONLY ACCESSIBLE FROM GPIO 32 - 39
WHEN WIFI IS ENABLED.



Pins SCK/CLK, SDO/SD0, SDI/SD1,
SHD/SD2, SWP/SD3 and SCS/CMD, namely,
17 to 22 are connected to the integrated SPI
flash on ESP-WROOM-32 and therefore 17 to
22 are not connected

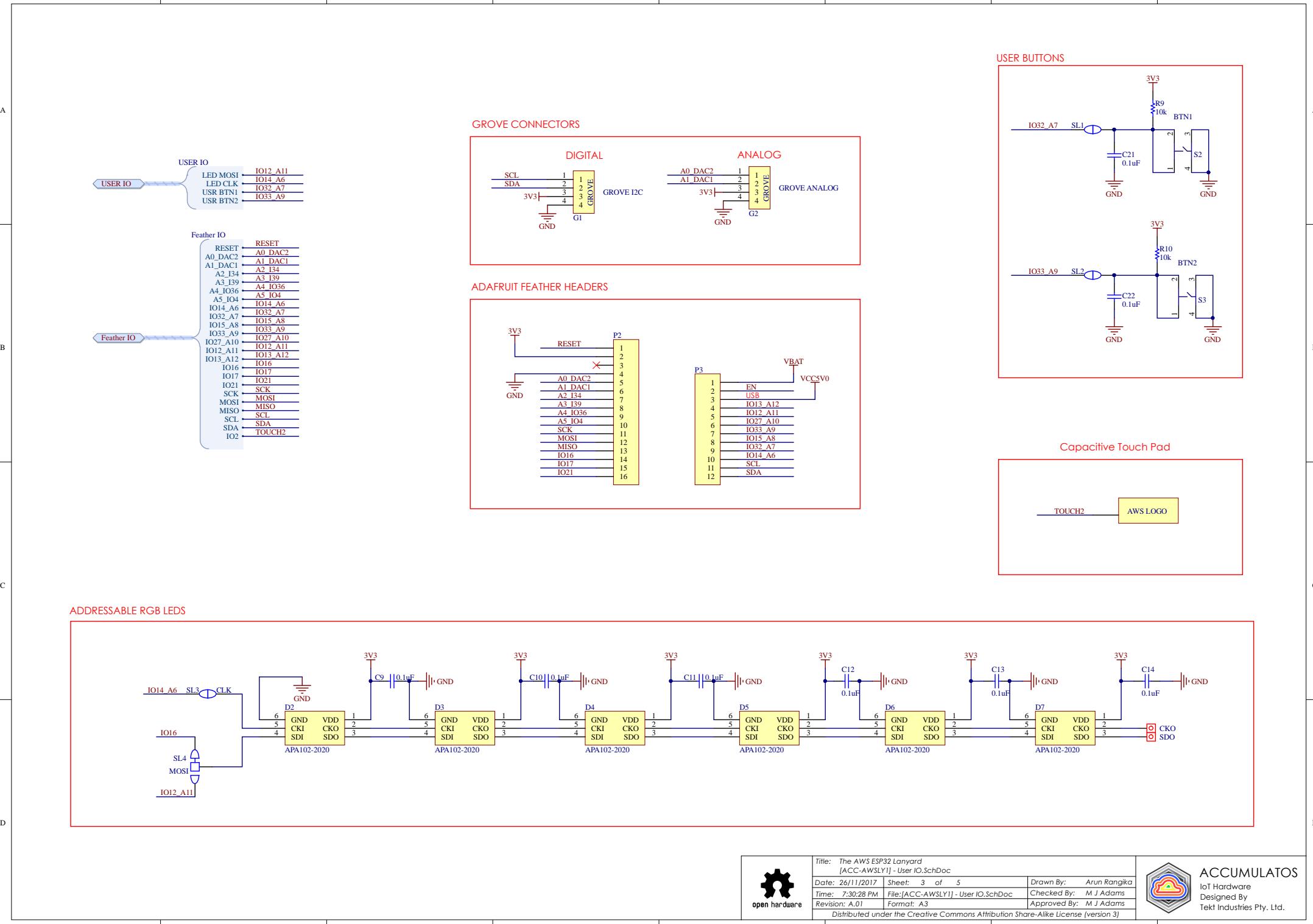


Crypto Authentication



Title: The AWS ESP32 Lanyard [ACC-AWSLY1] - ESP32 Module.SchDoc	
Date: 26/11/2017	Sheet: 2 of 5
Time: 7:30:28 PM	Drawn By: Arun Rangika
File:[ACC-AWSLY1] - ESP32 Module.SchDoc	Checked By: M J Adams
Revision: A.01	Approved By: M J Adams
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ACCUMULATOS
IoT Hardware
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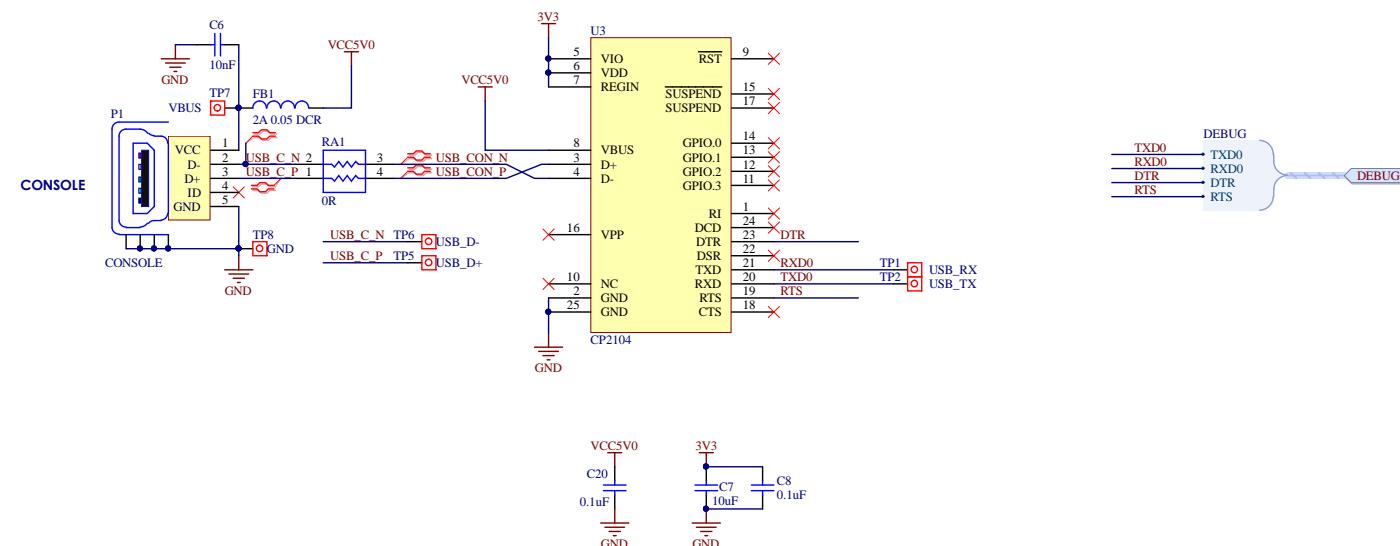
B

C

C

D

D



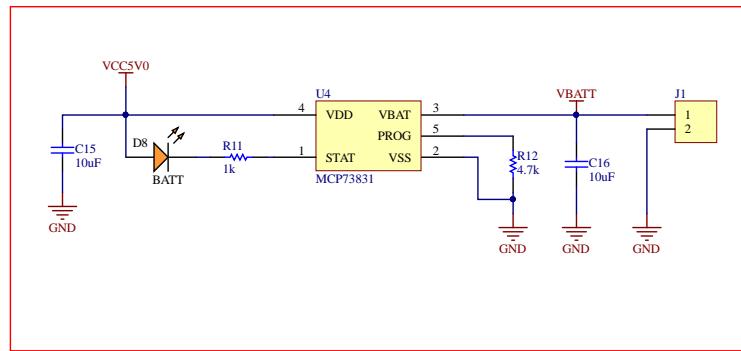
Title: The AWS ESP32 Lanyard [ACC-AWSLY1] - USB.SchDoc		
Date: 26/11/2017	Sheet: 4 of 5	Drawn By: Arun Rangika
Time: 7:30:29 PM	File:[ACC-AWSLY1]-USB.SchDoc	Checked By: M J Adams
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A

A

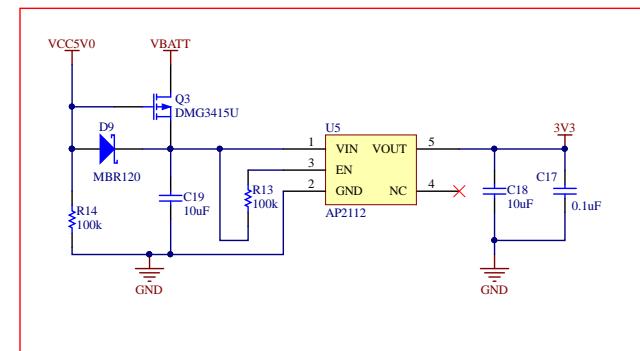
BATTERY CHARGE CIRCUIT



B

B

LINEAR REGULATOR CIRCUIT



C

C

D

D



Title: The AWS ESP32 Lanyard [ACC-AWSLY1] - POWER.SchDoc	
Date: 26/11/2017	Sheet: 5 of 5
Time: 7:30:30 PM	Drawn By: Arun Rangika
File:[ACC-AWSLY1] - POWER.SchDoc	Checked By: M J Adams
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