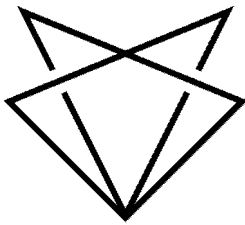
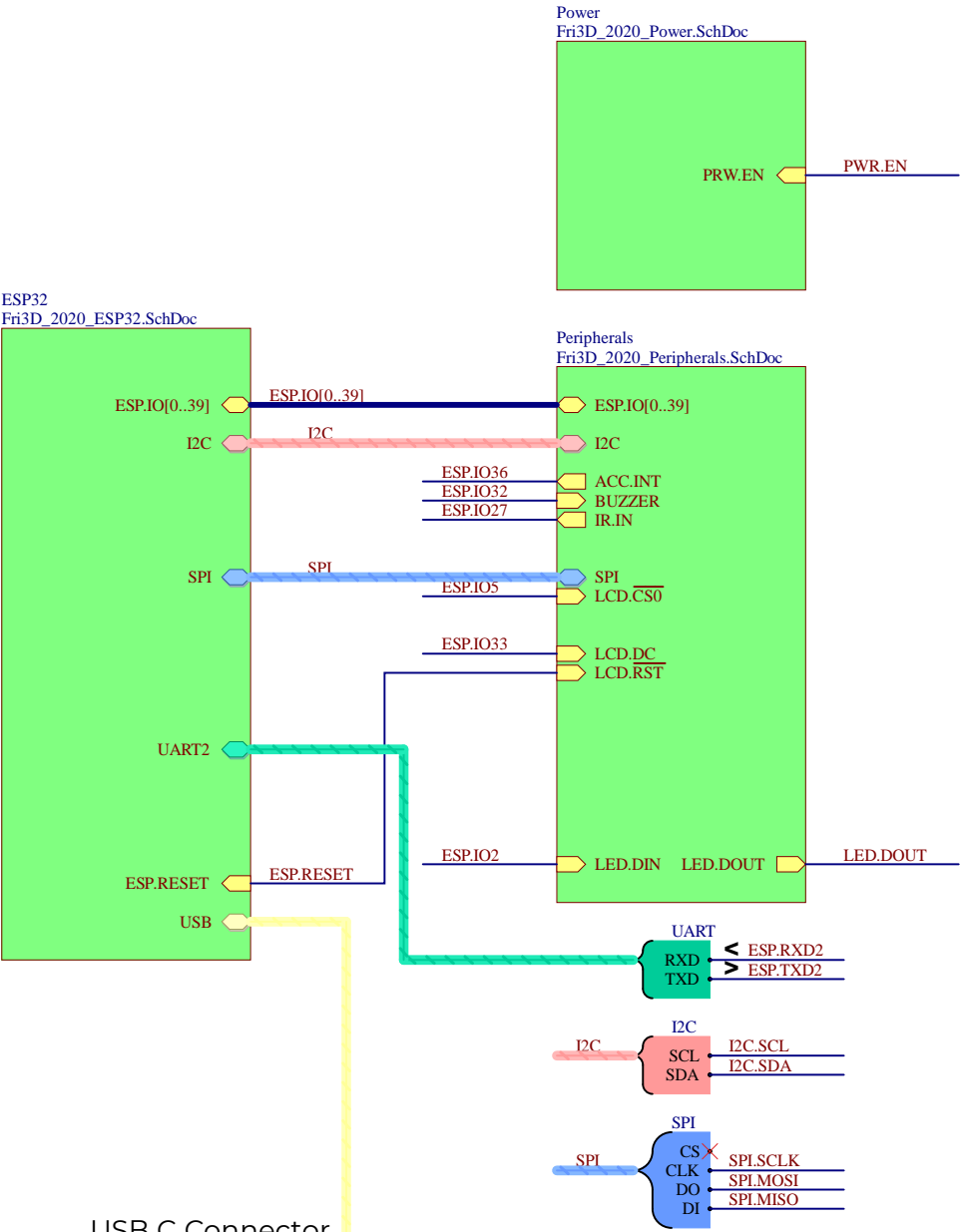


# Fri3D Badge 2020

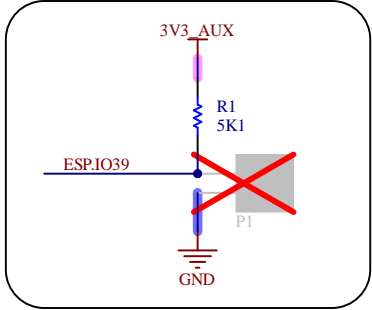
Top Level



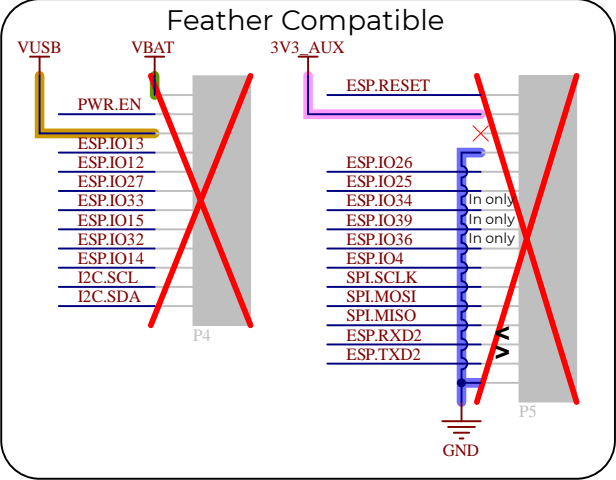
JST Connectors?  
Adafruit Gemma compatible?



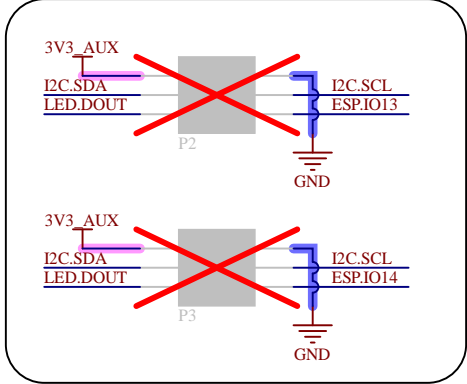
Privacy control



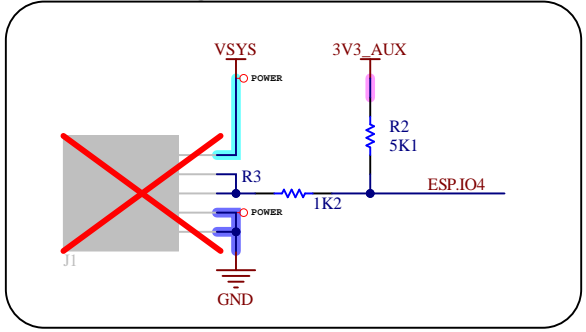
Do Not Stuff By Default  
Expansion Connector  
Feather Compatible



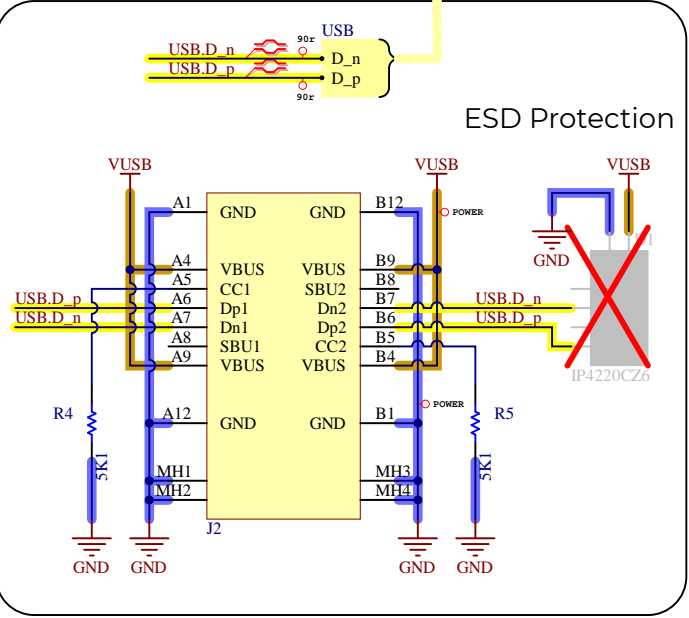
Do Not Stuff By Default  
SAO v1.69 Bis



Do Not Stuff By Default  
Badge Link

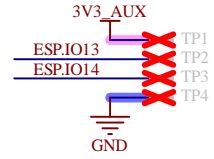


USB C Connector



ESD Protection

Crocodile Point



**Phyx**

Title  
Top Level

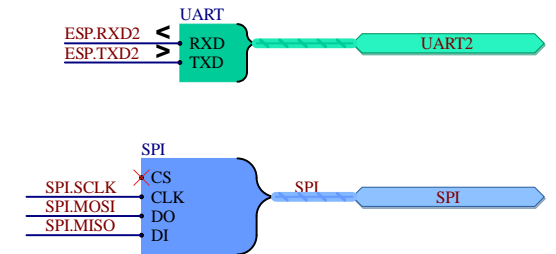
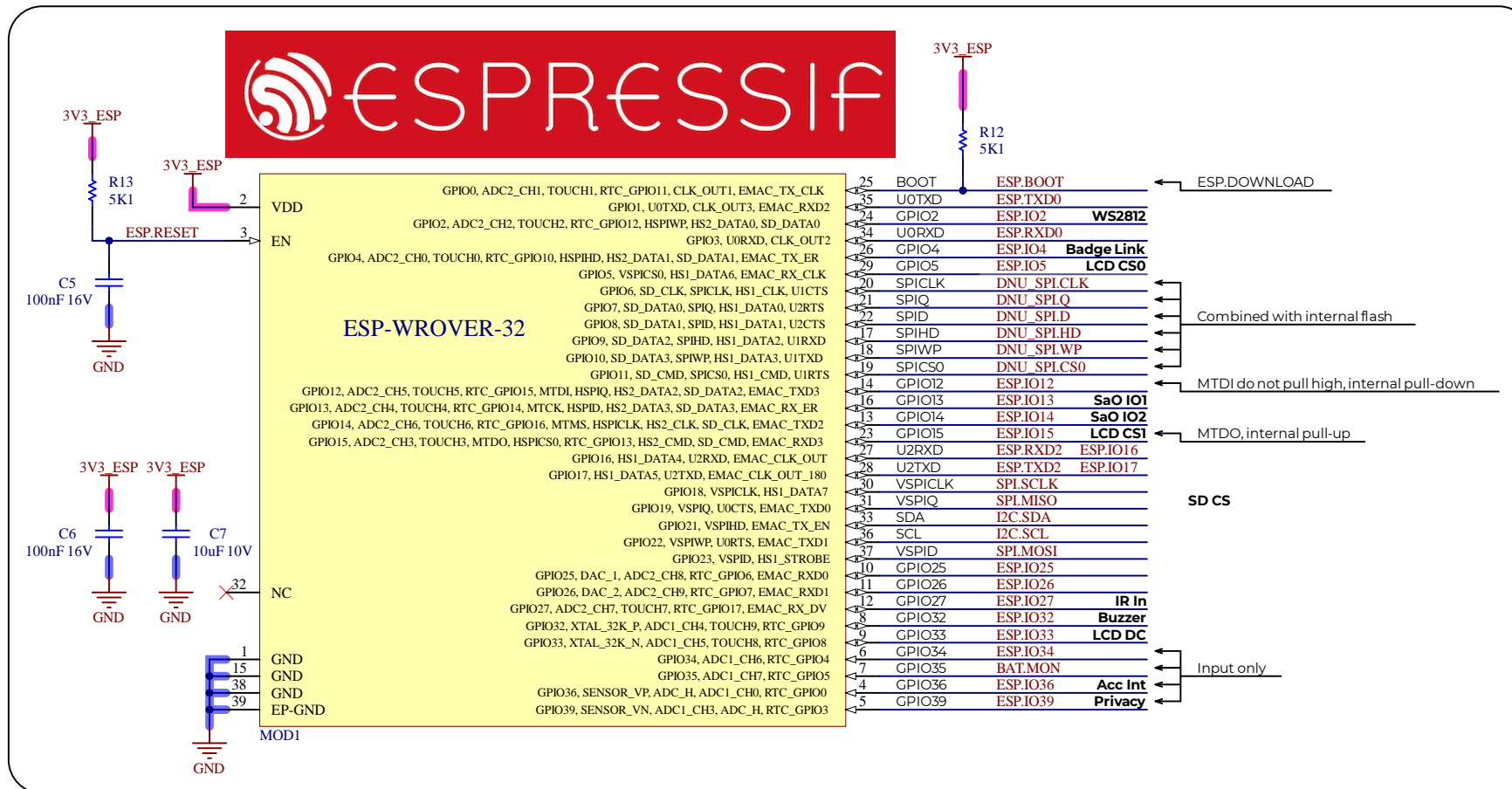
Date  
11/07/2018

Drawn By  
Wim Van Gool

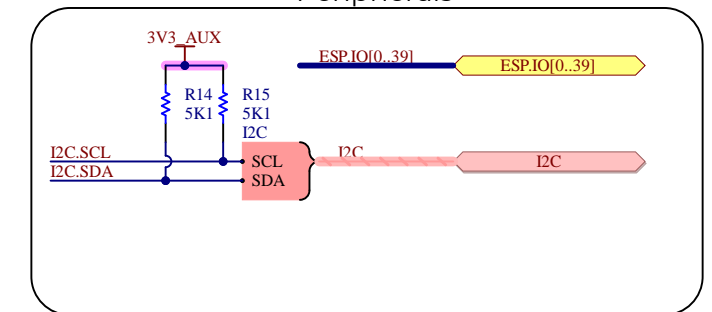
Size  
A3

Sheet 1 of 5

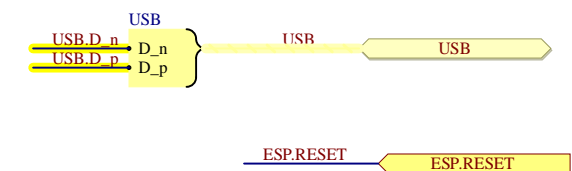
ESP-WROVER-32



## Peripherals

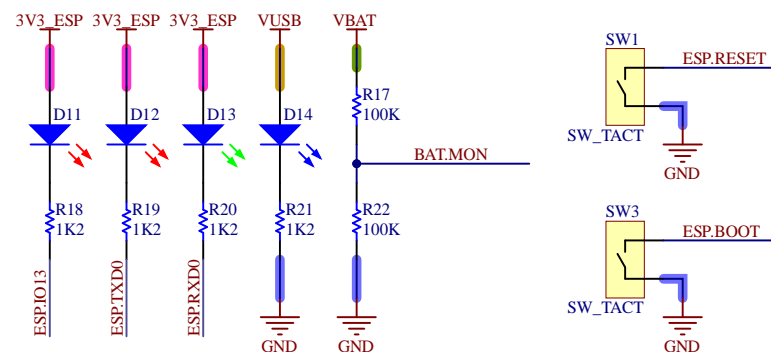
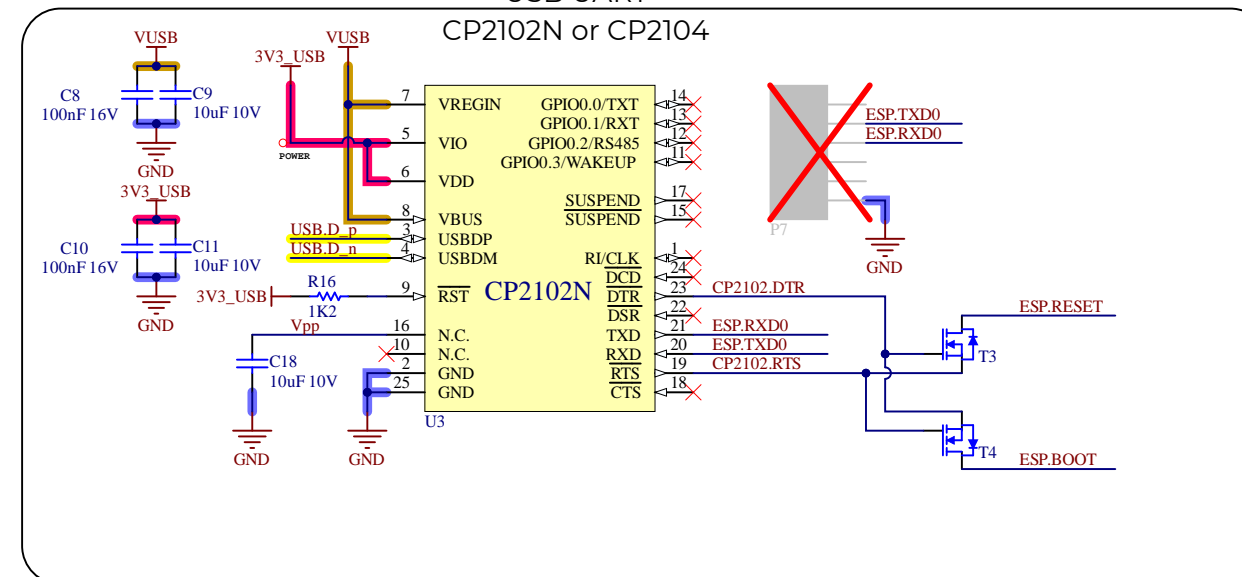


## USB Interface



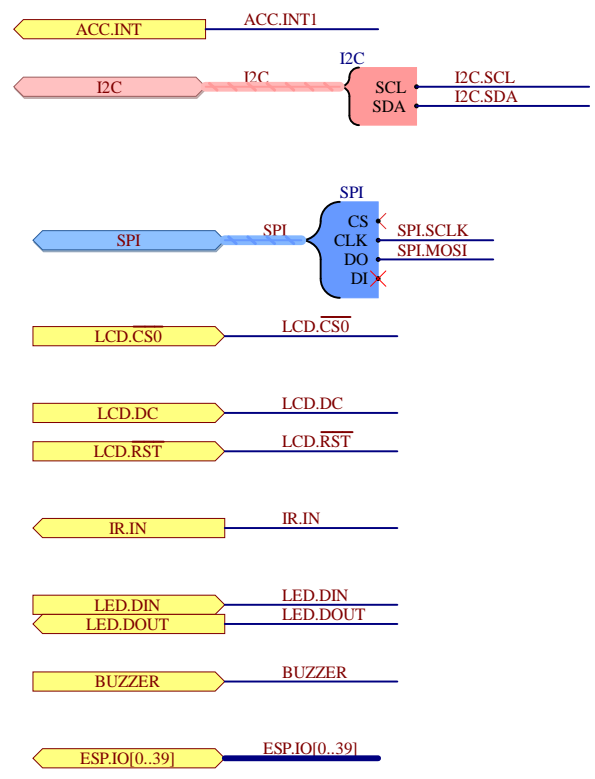
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USB UART  
CP2102N or CP2104

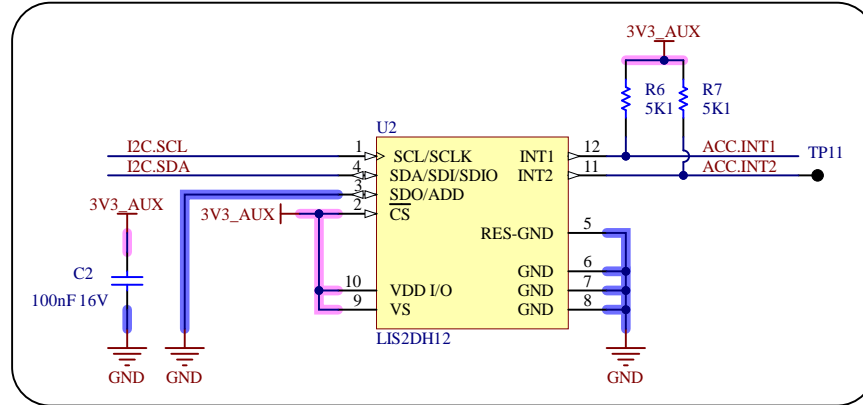


# Fri3D Badge 2020

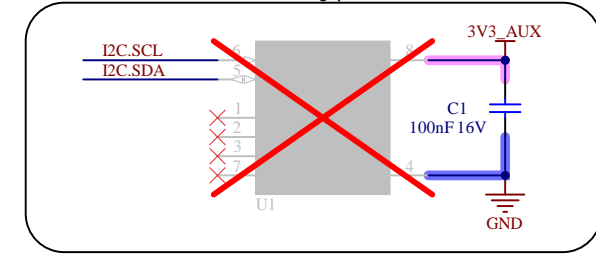
## Peripherals



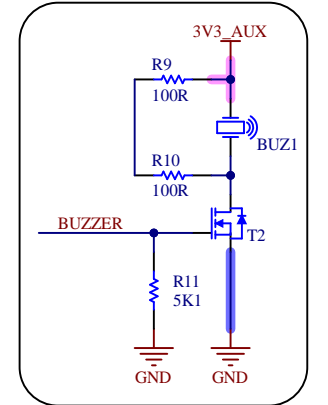
### Accelerometer



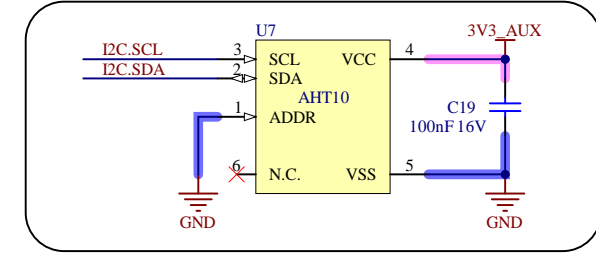
### Encryption



### Buzzer



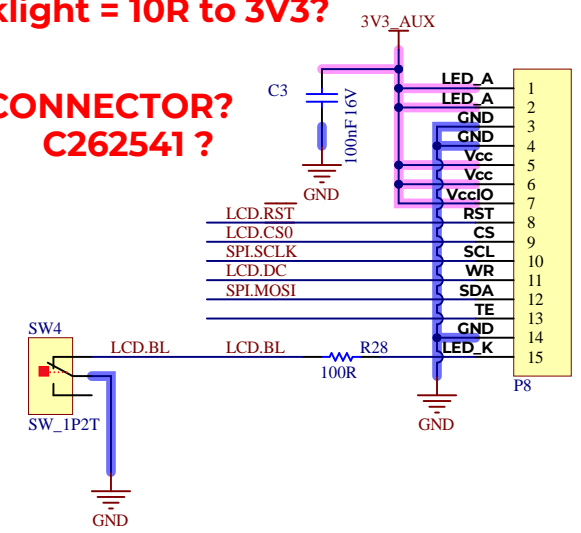
### AHT10



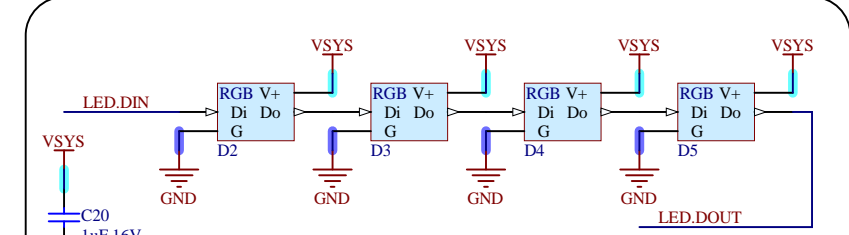
### LCD Displays

Backlight = 10R to 3V3?

CONNECTOR?  
C262541?



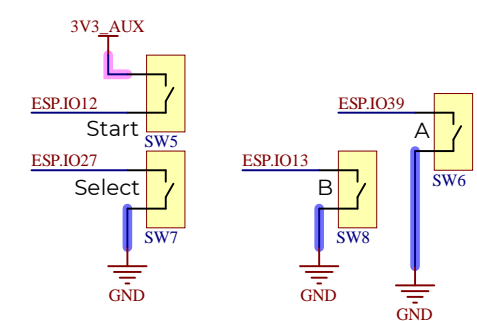
### WS2812b LEDs



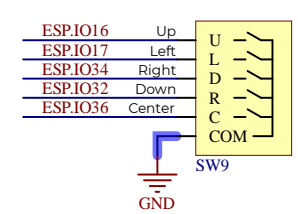
top or bottom?

### GameOn

#### Tact Switches

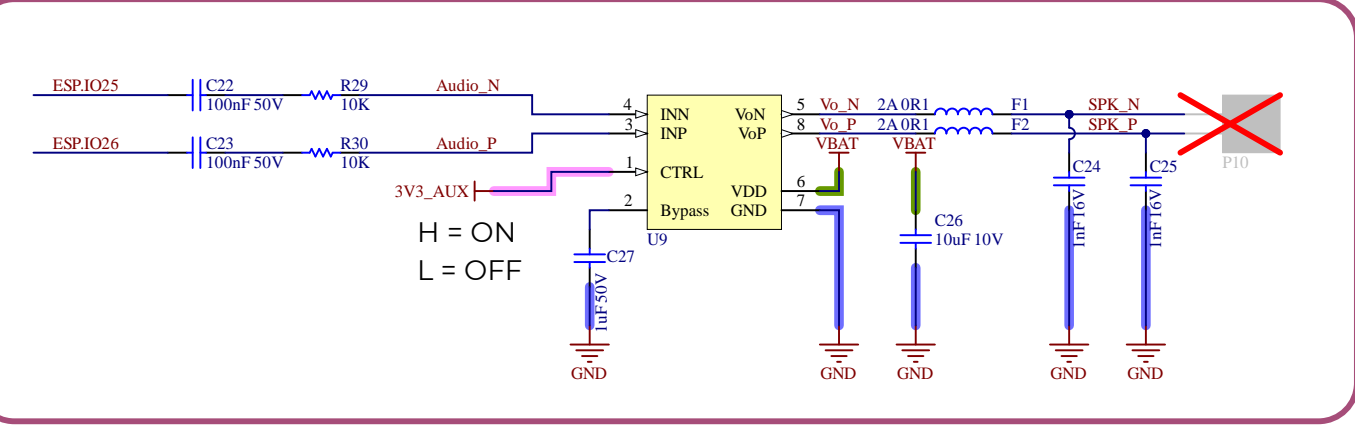


#### 5Way Tact Switch

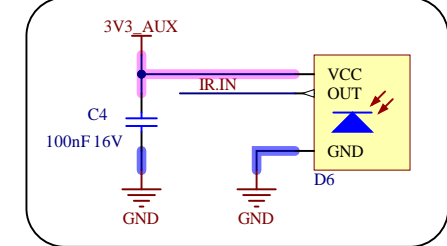


### Mono Amplifier

### Speaker



### IR Receiver

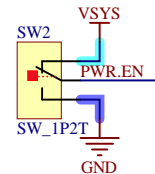


# Fri3D Badge 2020

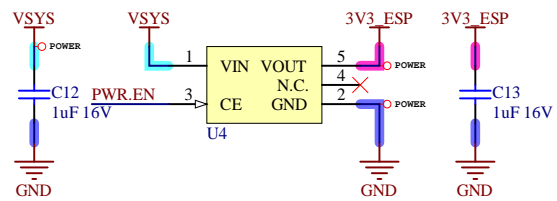
## Power

PRW.EN PWR.EN

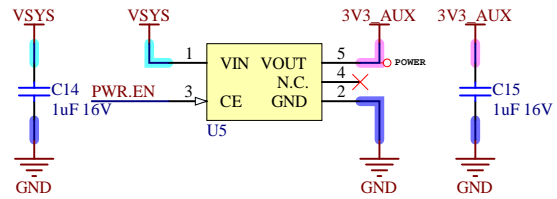
Power Switch



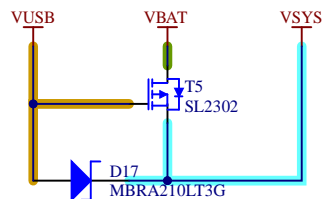
ESP Power



AUX Power

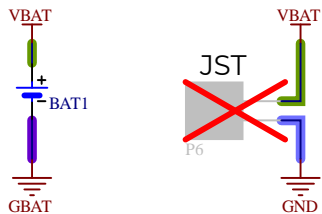


Power Protection

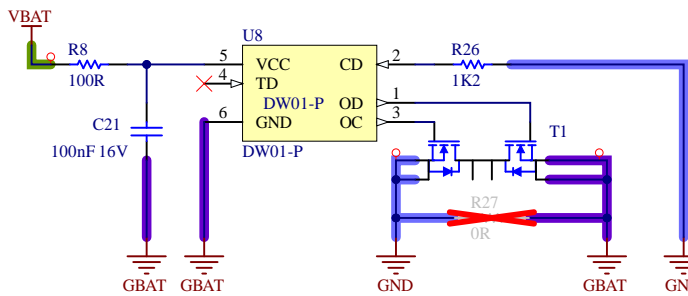


Protected batteries?

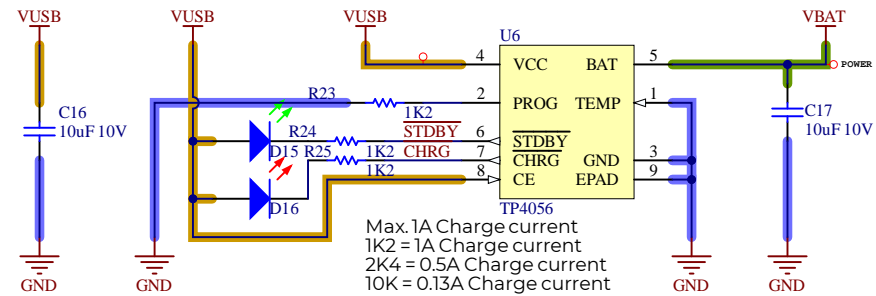
BATTERY



BATTERY PROTECTION



BATTERY CHARGER



Charge State  
Charging  
Done Charging  
Not Charging  
No Battery

RED  
ON  
OFF  
OFF  
Blink

GREEN  
OFF  
ON  
OFF  
ON

**Phyx**

Title  
**Power**

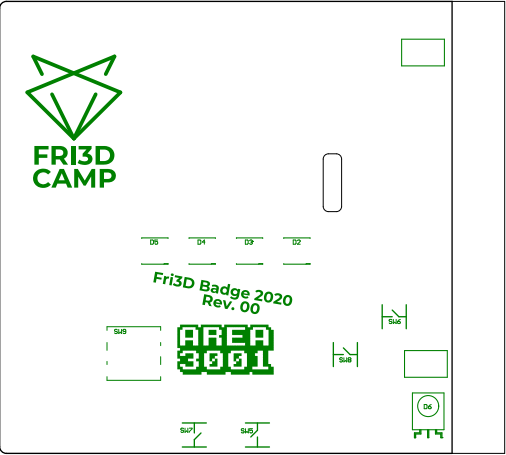
Date  
11/07/2018

Size  
A3

Revision  
00

Drawn By  
Wim Van Gool

Sheet 5 of 5

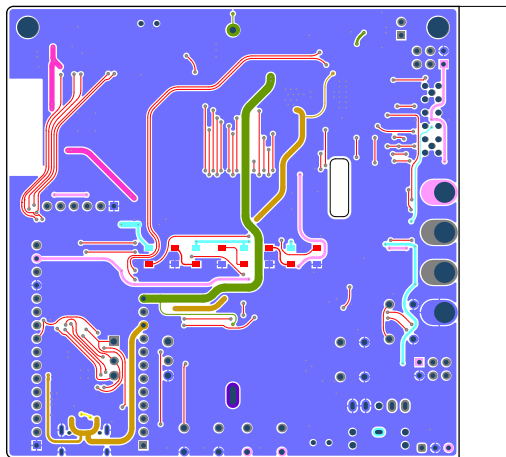


**Phyx**

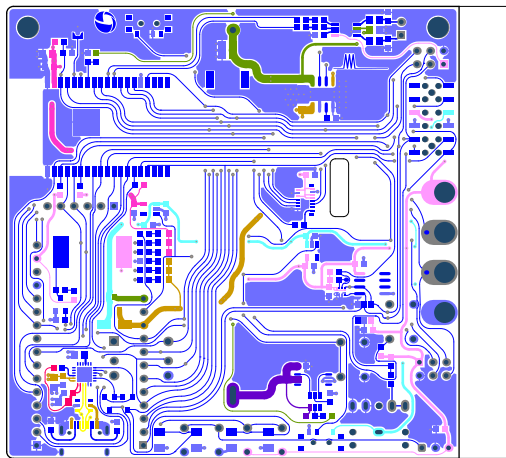
Designer  
WimVG

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| Date<br>31/12/2019           | Rev<br>00 |

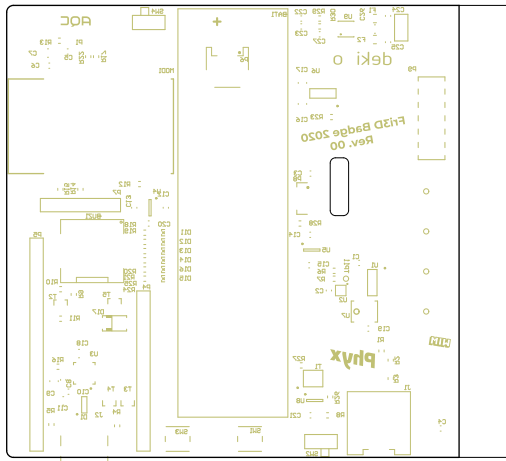
Document  
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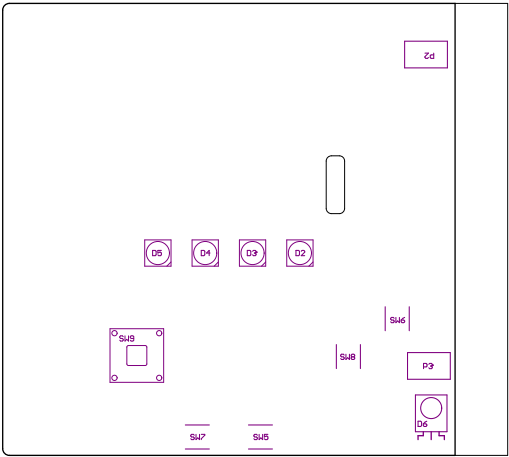


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| Document    |                  |                      |
| WimVG       |                  | Fri3D_2020_00,PcbDoc |



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**Phyx**

Designer  
WimVG

|                      |     |
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