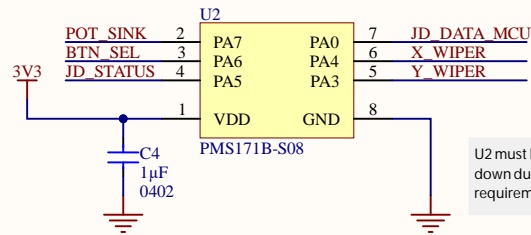
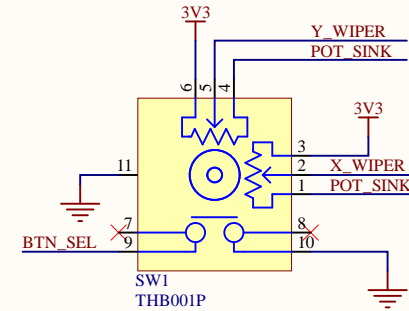


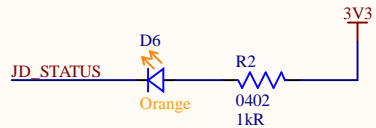
## MCU



## 2-axis analog thumb joystick



## Status LED



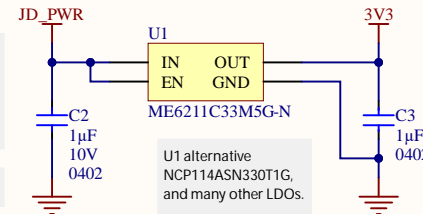
D6 alternative part  
SML-D12D  
E6C0603SEAC1UDA  
NCD0603O1

Jacdac modules require a status LED. Can be monochrome or multicolor depending on GPIO availability. If using alternative part recalculate the resistor value R2.

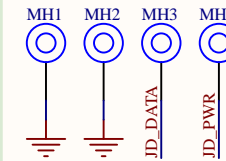
## 3V3 regulator

Recommendation: consider replacing ME6211C33M5G-N with an LDO that is robust to repeated spikes of 8V or more on its input in case there is noise on the Jacdac bus.

This component is a power-consumer.



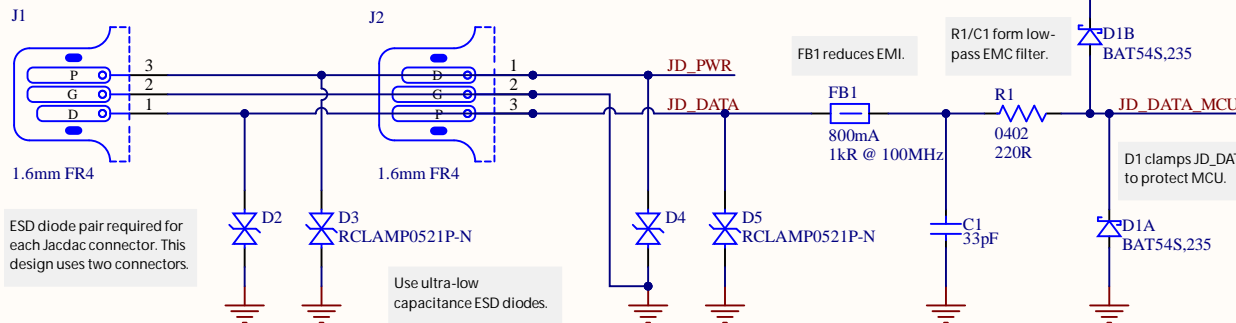
## Mounting holes



Mounting holes are electrically connected to the Jacdac bus nets so they can be used as an alternative to the PCB edge connector. Please use the following reference designators and net mapping:

MH1 & MH2: GND  
MH3: JD\_DATA  
MH4: JD\_PWR

## Jacdac connector



This design uses Jacdac 'small' mounting holes: PTH with finished diameter of 2.1mm, annular copper ring of 3.0mm diameter & copper/component keepout of 5.0mm. The mounting holes must be on 2.5mm pitch. Mounting holes should have appropriate silkscreen marker, and MH1 should have a pin 1 marker on the top side.

This reference design is a guideline. Please refer to the Jacdac docs online at <https://aka.ms/jacdac> for the definitive and most up-to-date information.

Silkscreen should include text to identify the module type and revision, and optionally a QR code.

This design uses a 'cute' board shape.

Silkscreen & layout notes

Block name

Design notes

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When this PDF is viewed with Adobe Reader, clicking on components shows part numbers and other details.

PROJECT FILENAME JacdacJoystick 44.PrjPCB

PROJECT CODENAME JacdacJoystick

SHEET FILENAME JacdacJoystick 44.SchDoc

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Microsoft

PROJECT DESCRIPTION

Jacdac PADAUK 2-axis analog thumb joystick

SHEET DESCRIPTION

Complete design

LAST MODIFIED 21/12/2021

PAGE 1 OF 1

DRAWN BY DG, MM, GD & SH

REVISION 0.4

PCB ID 44-0.4