



PiRA RTC HAT

Power in Responsive Applications with RTC sleep mode.
Designed as a Raspberry Pi Zero HAT.

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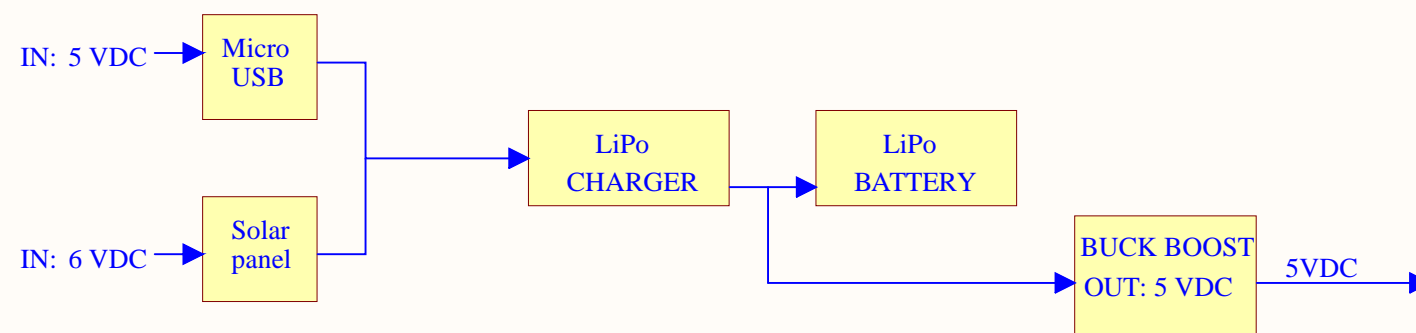
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Version Revision:

v0.1 - 20.09.2017.

v0.2 - 31.10.2017.

POWER DIAGRAM



DESIGN CONSIDERATIONS

DESIGN NOTE:
Example text for informational
design notes.

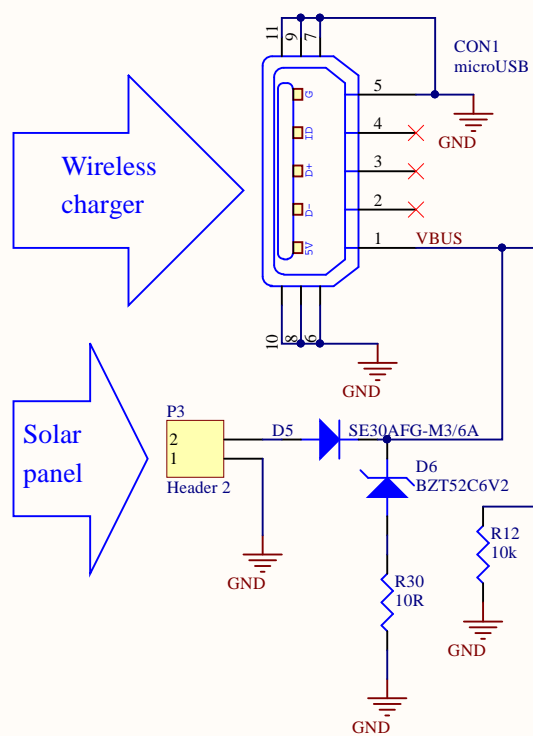
DESIGN NOTE:
Example text for critical
design notes.

LAYOUT NOTE:
Example text for critical
layout guidelines.

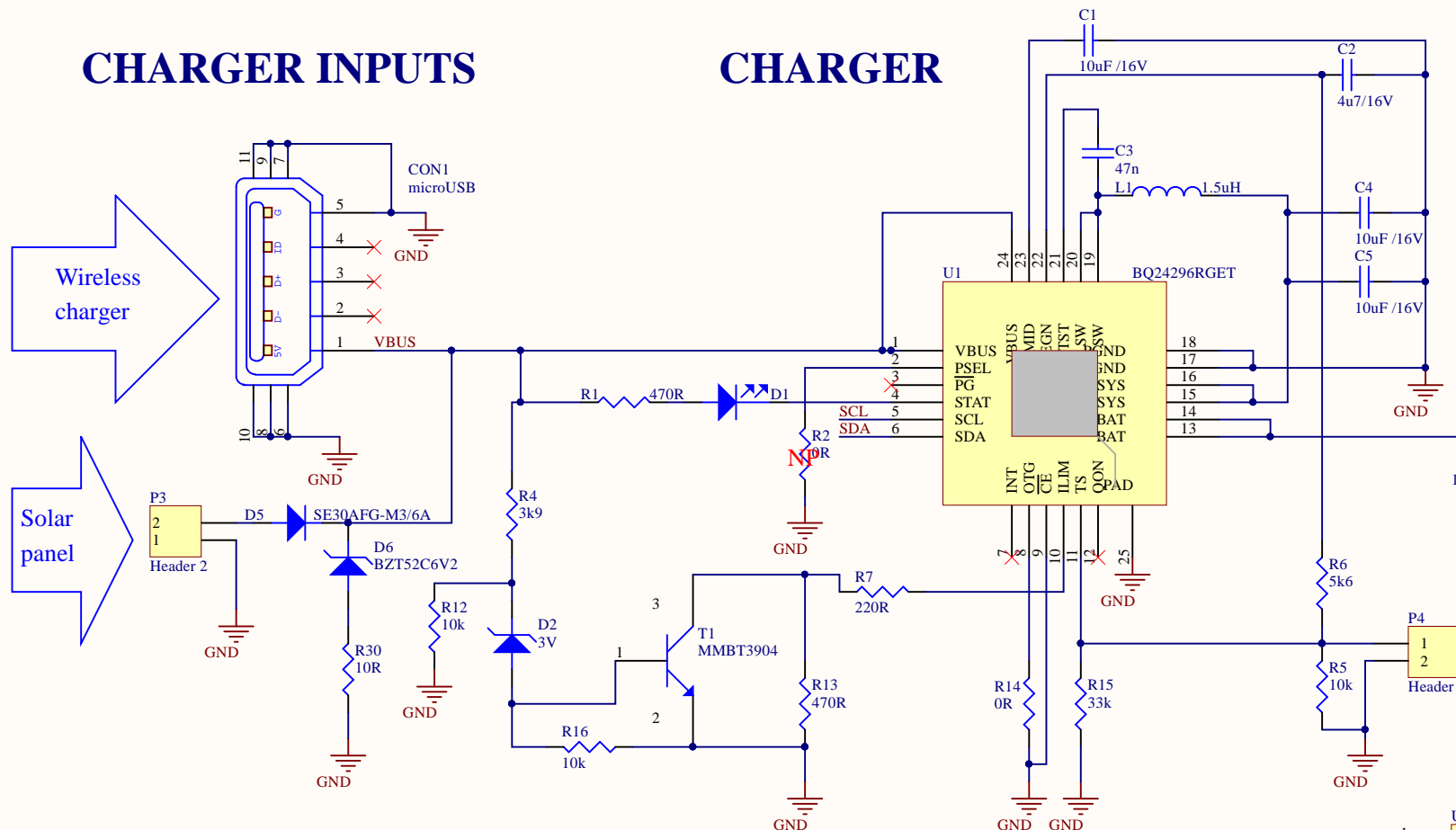
Irnas		www.irnas.eu	
Title: PiRA-RTC-HAT-PCB.PrjPcb			
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POWER, RTC, RPI

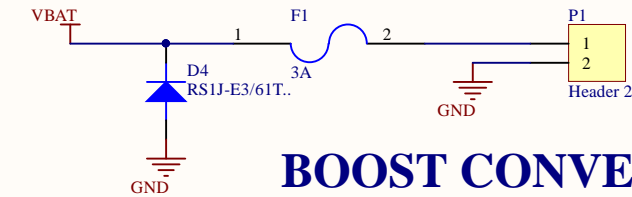
CHARGER INPUTS



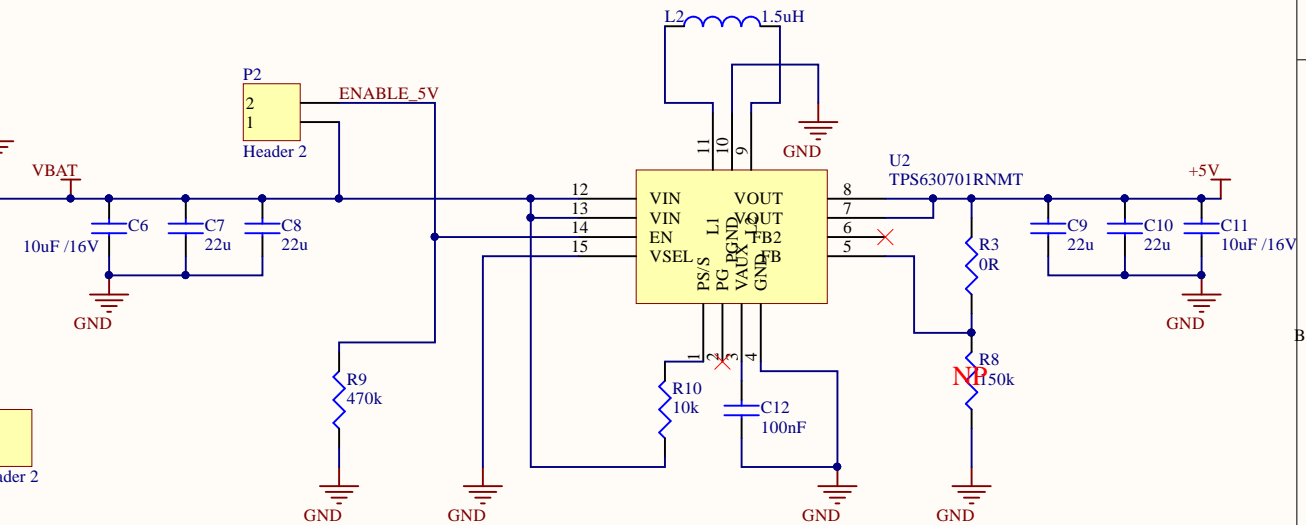
CHARGER



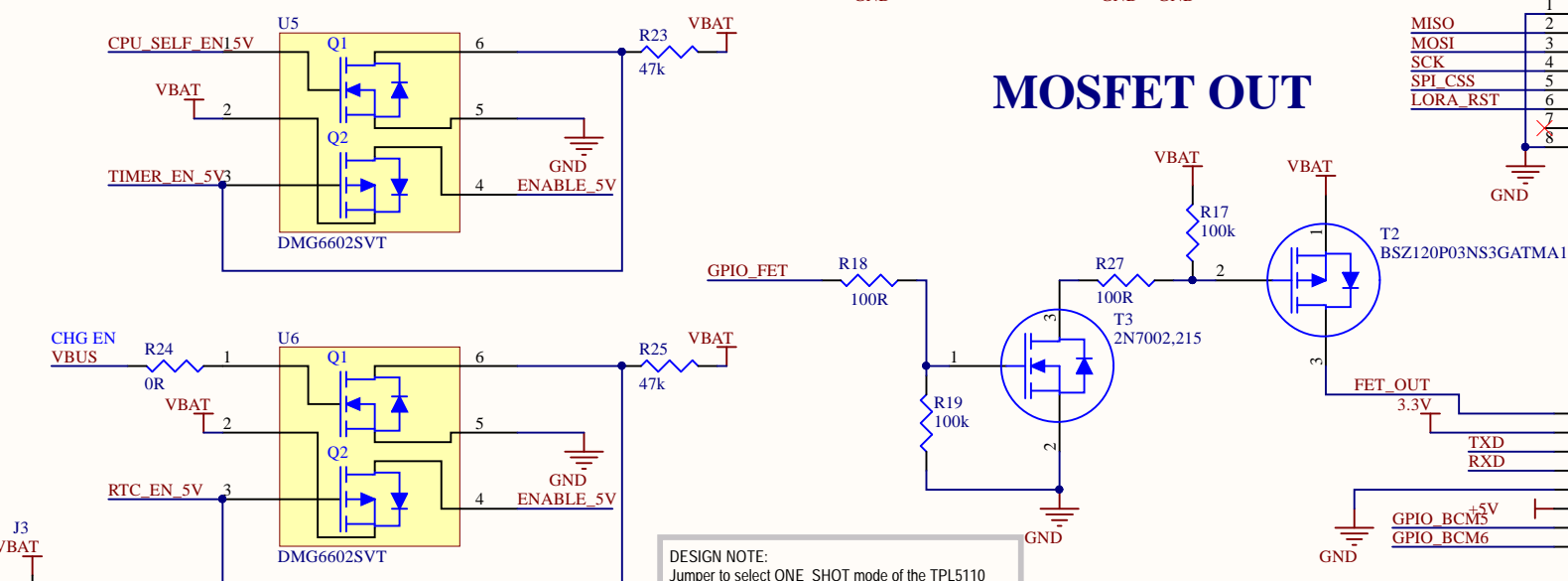
BATTERY CONNECTOR



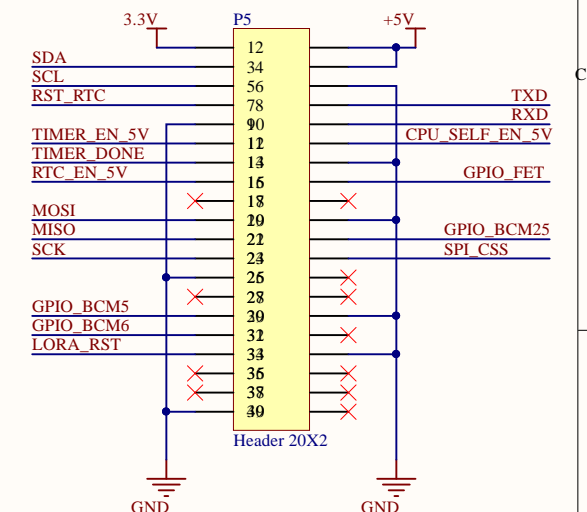
BOOST CONVERTER



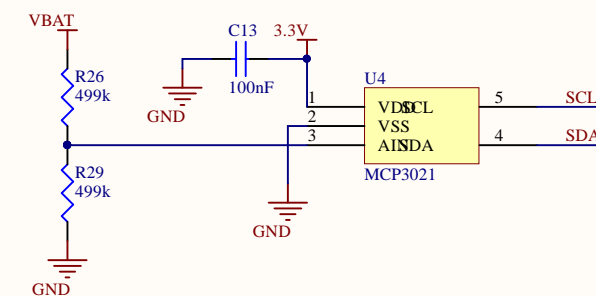
MOSFET OUT



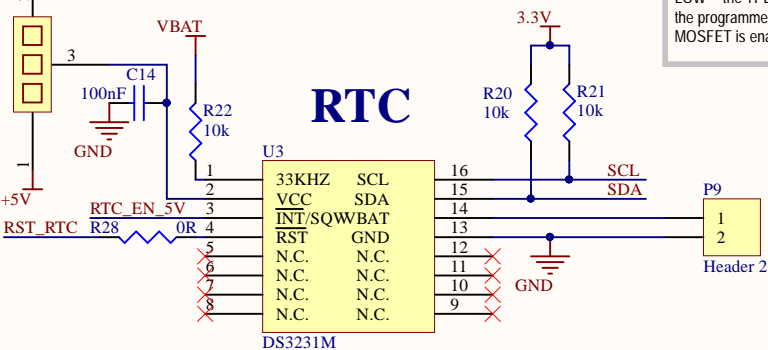
RPI CONNECTOR



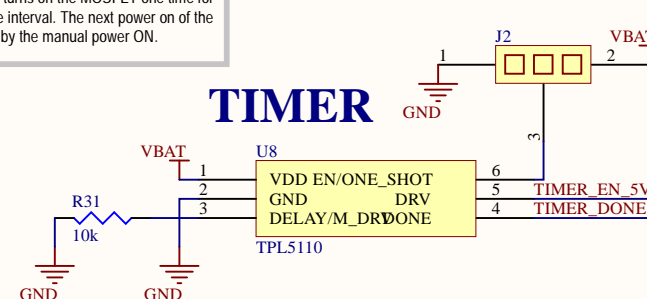
BATTERY VOLTAGE



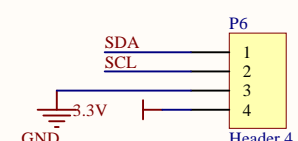
RTC



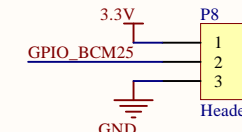
TIMER



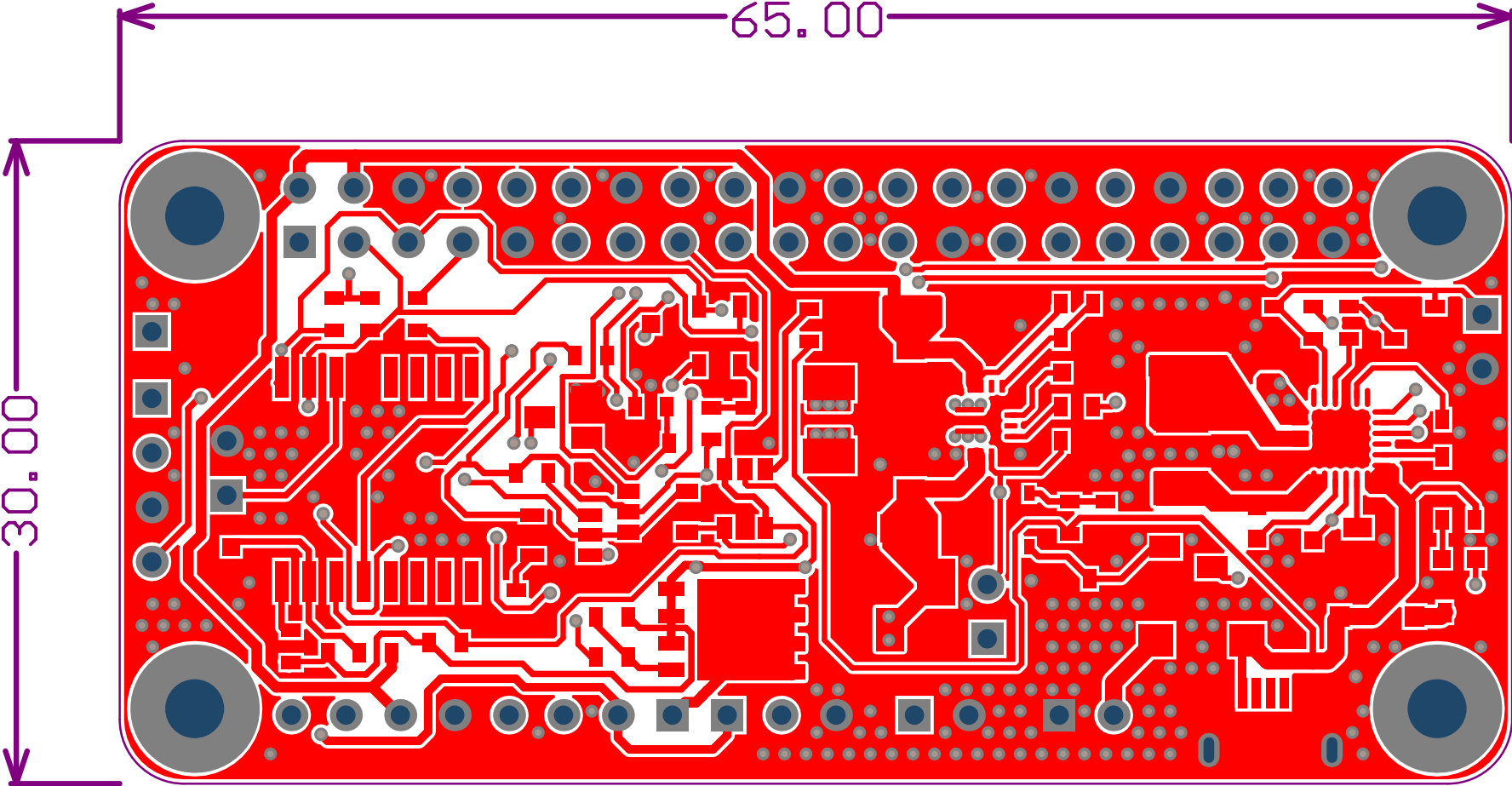
I2C/DISPLAY

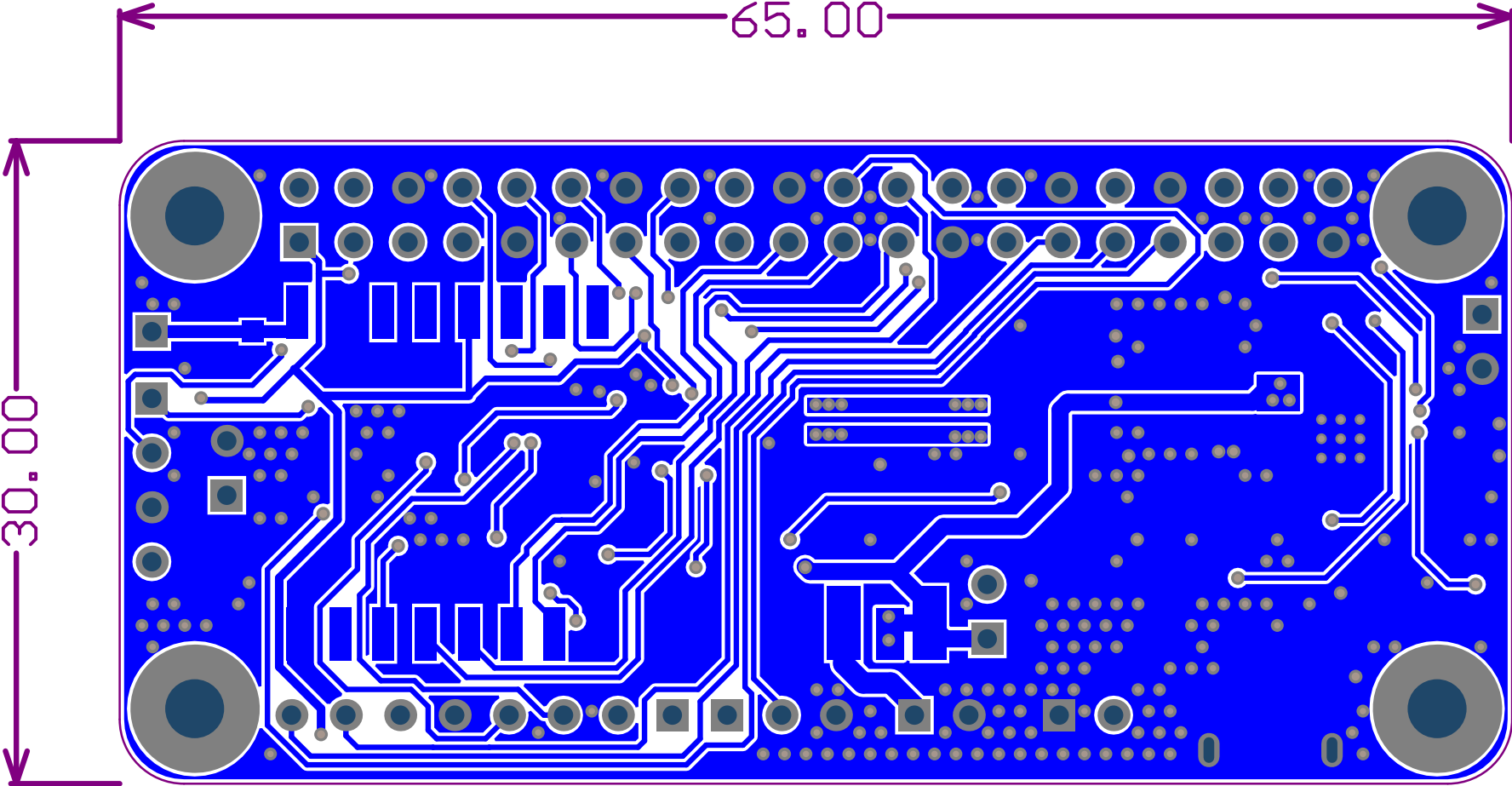


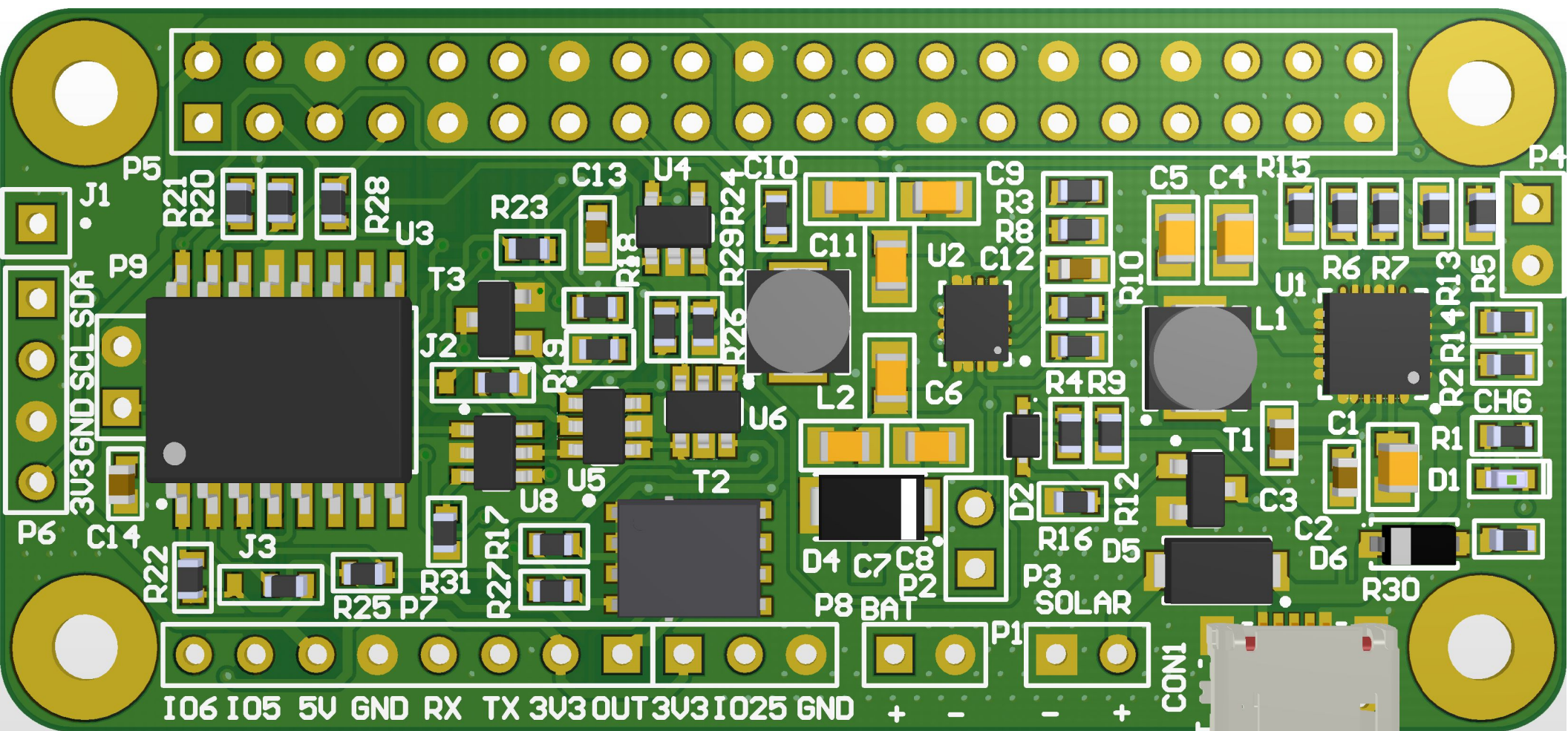
SENSOR

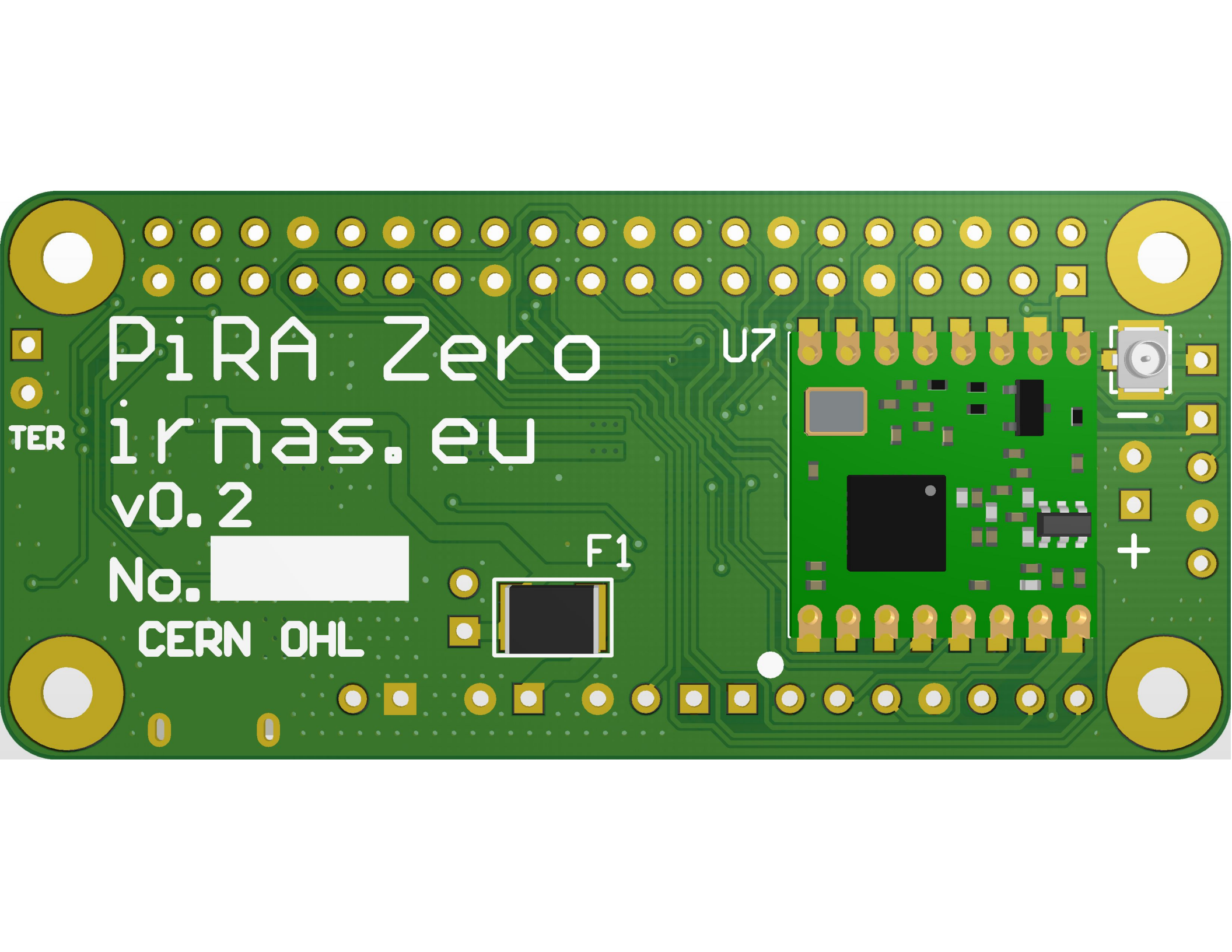


DESIGN NOTE:
Jumper to select ONE_SHOT mode of the TPL5110
HIGH - works as timer
LOW - the TPL5110 turns on the MOSFET one time for the programmed time interval. The next power on of the MOSFET is enabled by the manual power ON.









PiRA Zero

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v0.2

No.

CERN OHL

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