



PiRa-Smart

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

CONTENTS:

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- PAGE2 - POWER, RTC, RPI

Version Revision:

- v0.1 - 23.03.2018.
- v0.2 - 11.05.2018.

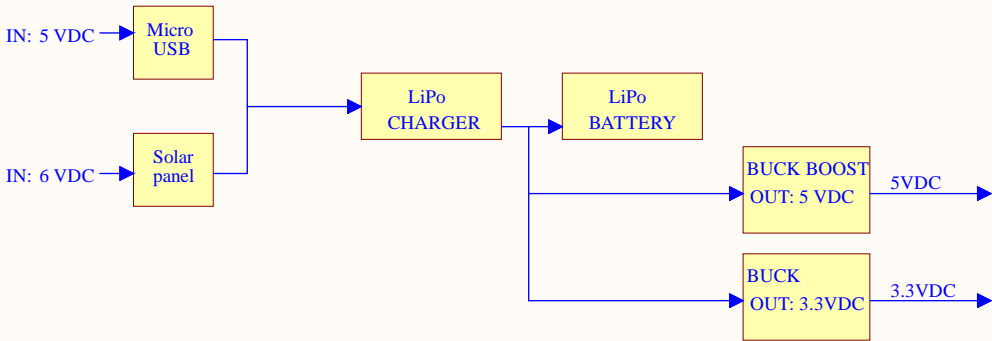
DESIGN CONSIDERATIONS

DESIGN NOTE:
Example text for informational
design notes.

DESIGN NOTE:
Example text for critical
design notes.

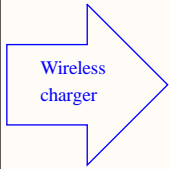
LAYOUT NOTE:
Example text for critical
layout guidelines.

POWER DIAGRAM



IRNAS		iras.eu	
Title: pira-smart-PCB.PrjPcb			
Page Contents: PAGE1-CONTENTS.SchDoc			
Size:	DWG NO		Revision: v0.2
Date: *	Sheet 1 of 2		

CHARGER INPUTS



CHARGER

POWER, RTC, RPI

BATTERY CONNECTOR

BOOST CONVERTER

MOSFET OUT

BLE

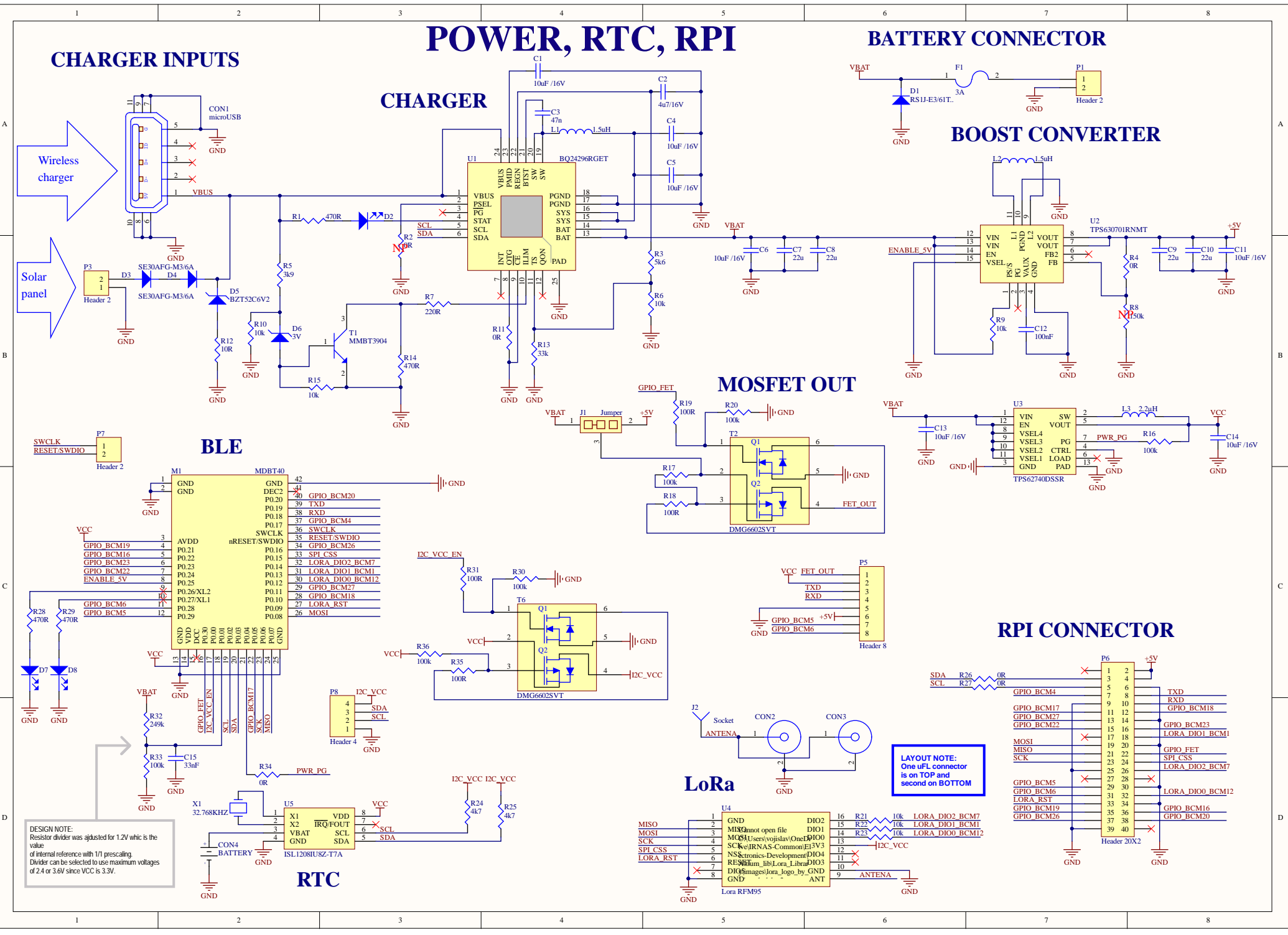
RPI CONNECTOR

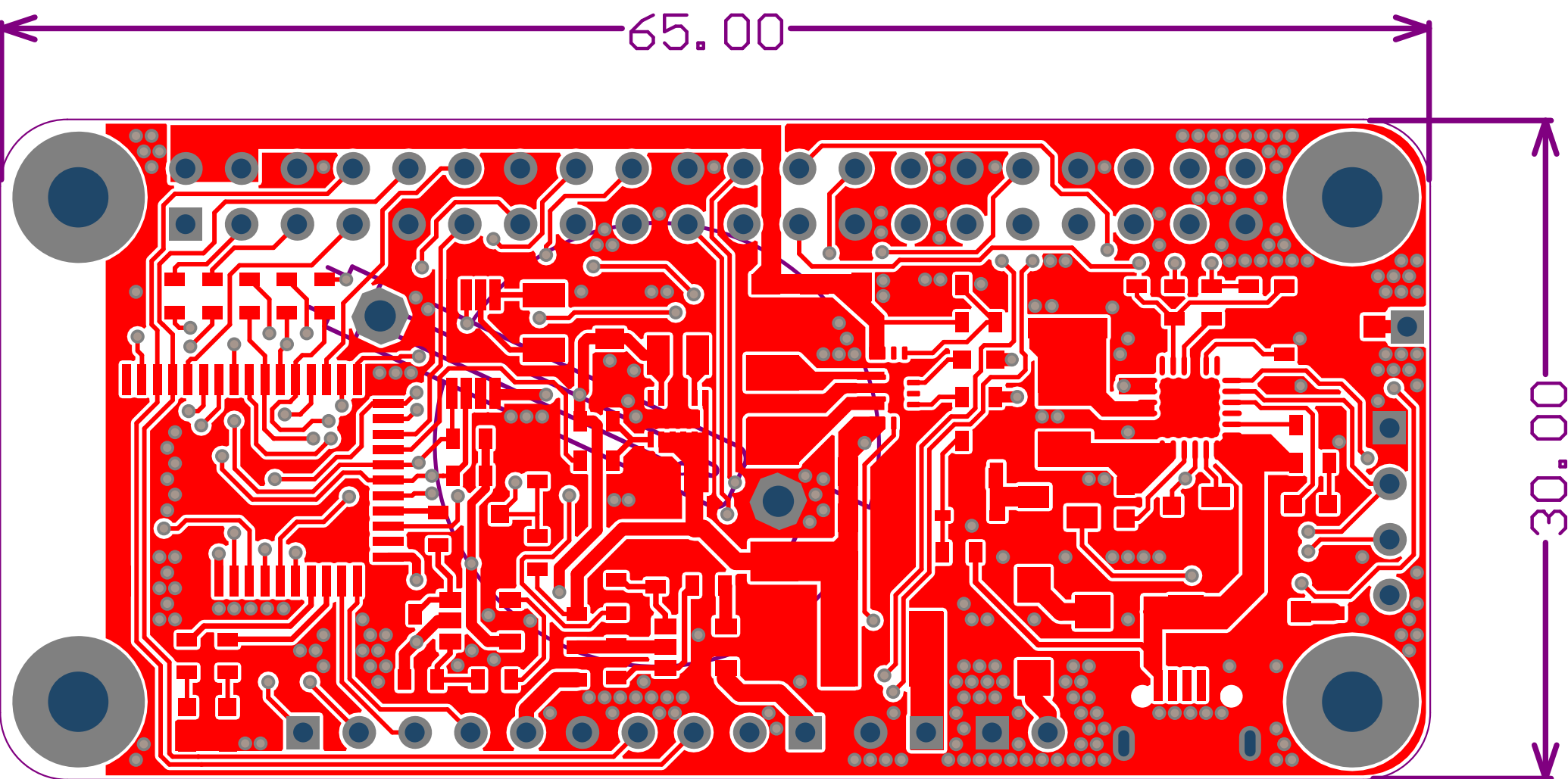
LoRa

RTC

DESIGN NOTE:
Resistor divider was adjusted for 1.2V which is the
value
of internal reference with 1/1 prescaling.
Divider can be selected to use maximum voltages
of 2.4 or 3.6V since VCC is 3.3V.

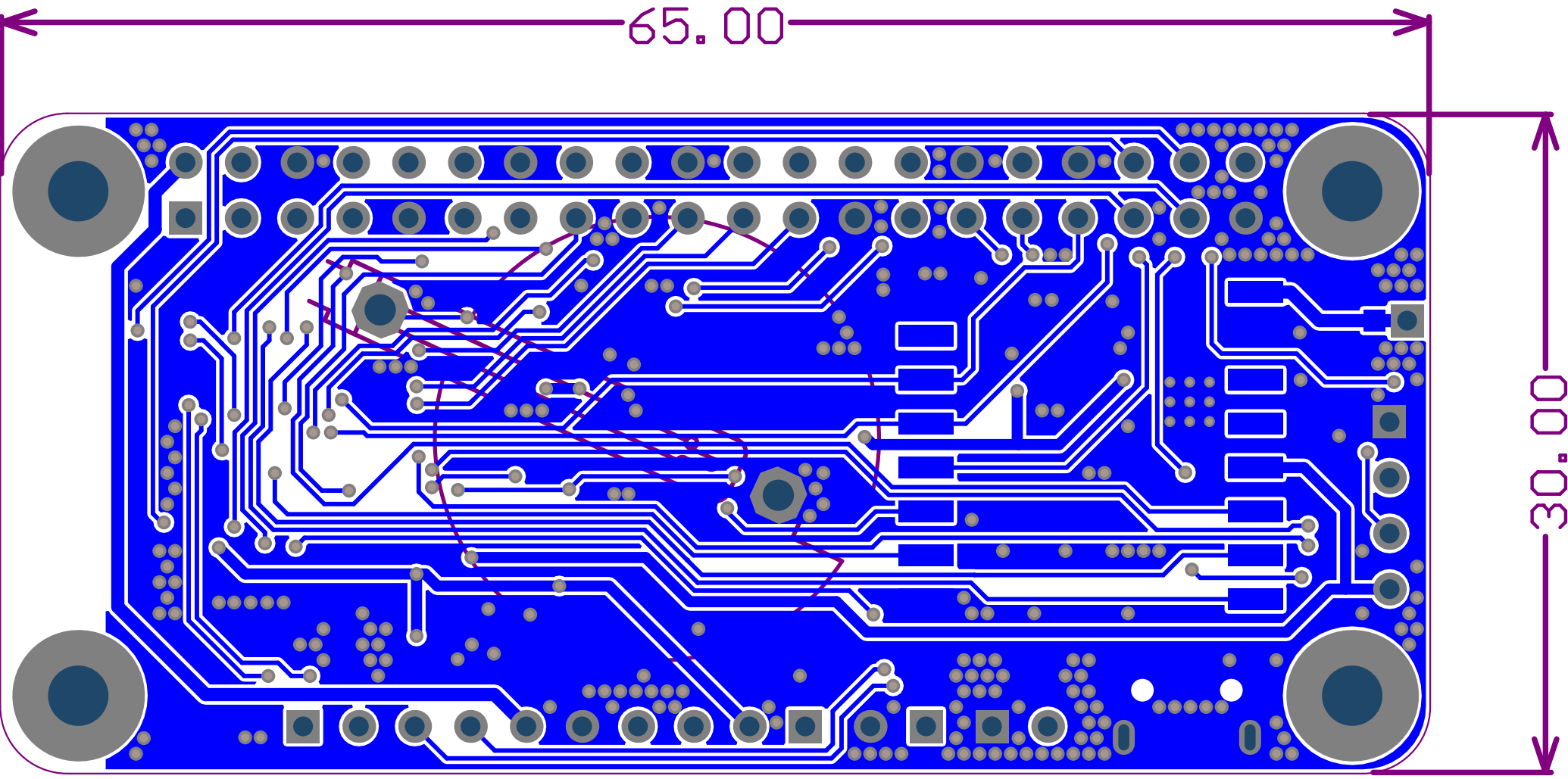
LAYOUT NOTE:
One uFL connector
is on TOP and
second on BOTTOM

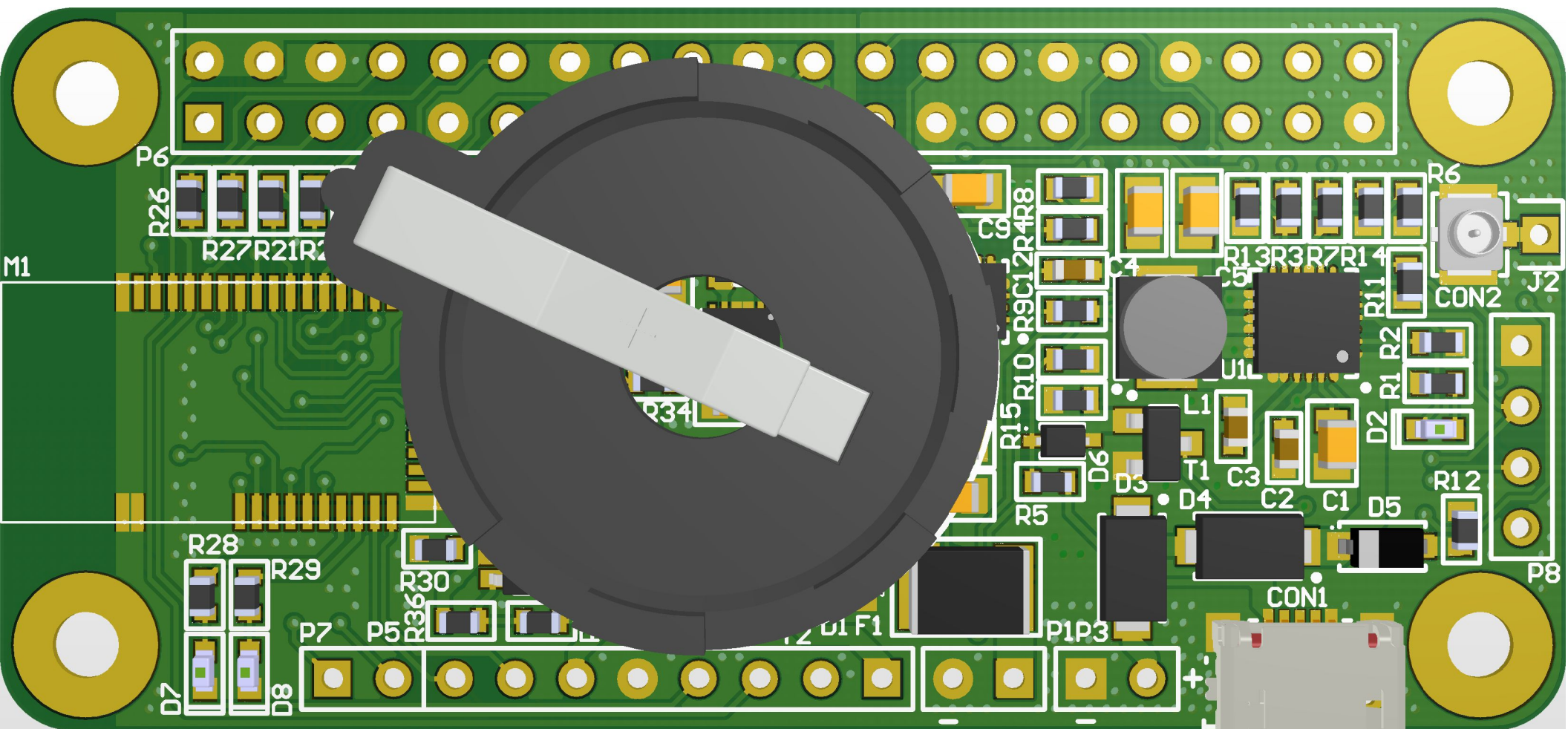


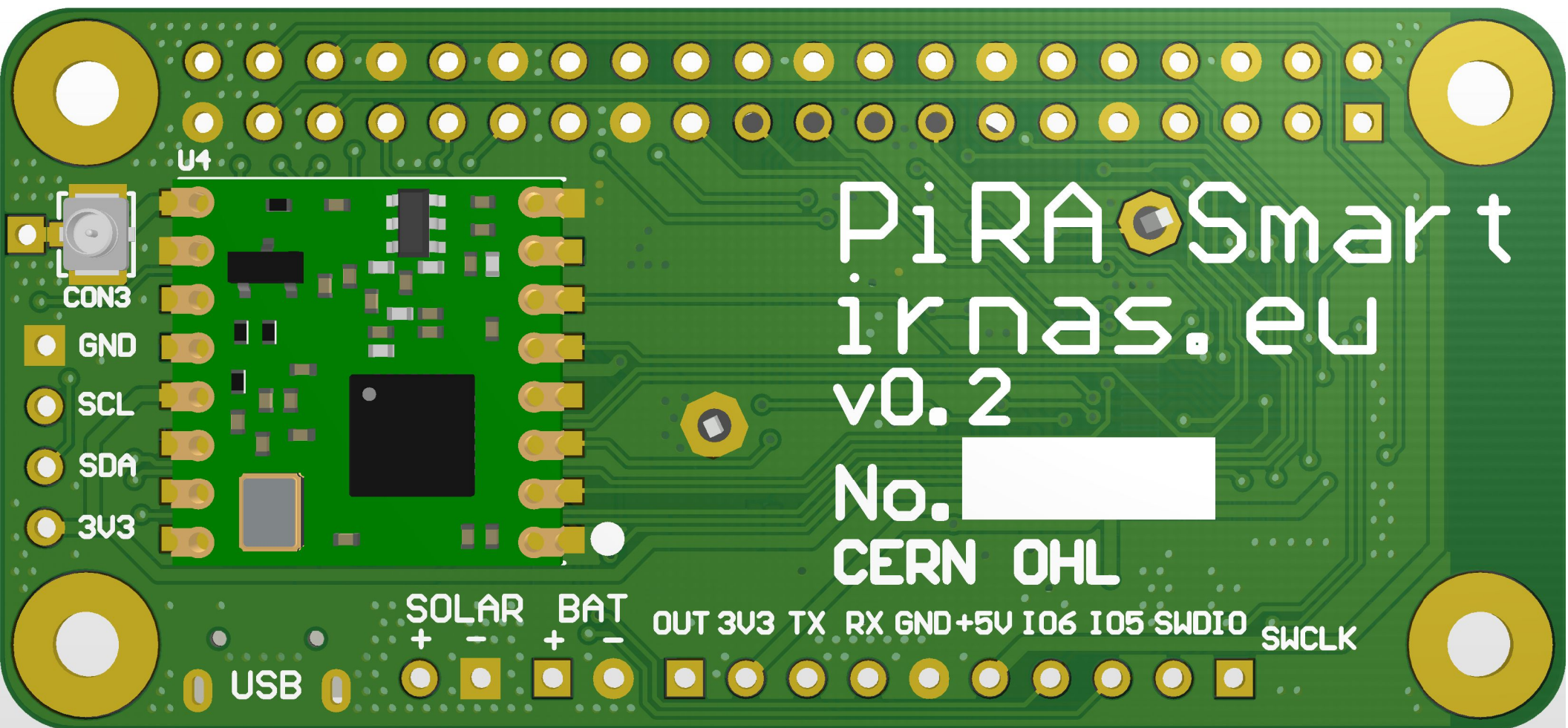


65.00

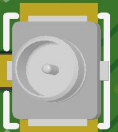
30.00







U4



CON3

GND

SCL

SDA

3V3

PiRA Smart

irnas.eu

v0.2

No. [redacted]

CERN OHL

USB

SOLAR
+ -

BAT
+ -

OUT 3V3

TX

RX

GND+5V

IO6

IO5

SWDIO

SWCLK