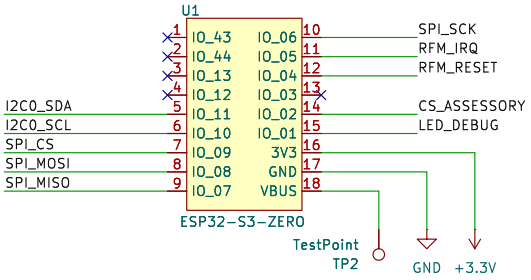
## ESP32-S3-ZERO MCU

https://www.waveshare.com/wiki/ESP32-S3-Zero

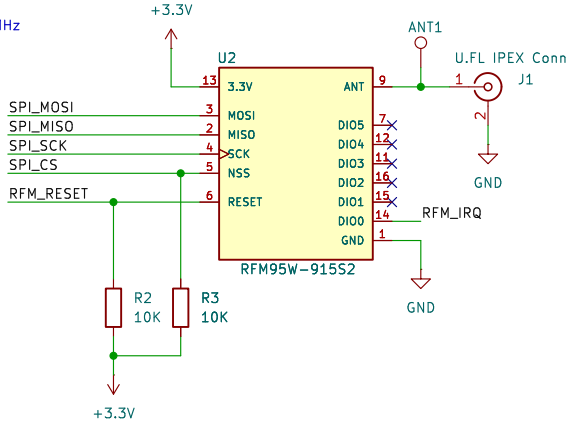
ESP32 PINOUT DEFINITION
IO_01 - General IO
IO_02 - General IO
IO_03 - General IO
IO_04 - General IO
IO_05 - General IO
IO_06 - General IO
IO_07 - General IO
IO_08 - General IO
IO_09 - General IO
IO_10 - General IO / SPI CS
IO_11 - General IO / SPI MOSI
IO_12 - General IO / SPI MISO
IO_13 - General IO / SPI SCK
IO_43 - UART TX
IO_44 - UART RX




## LORA RADIO

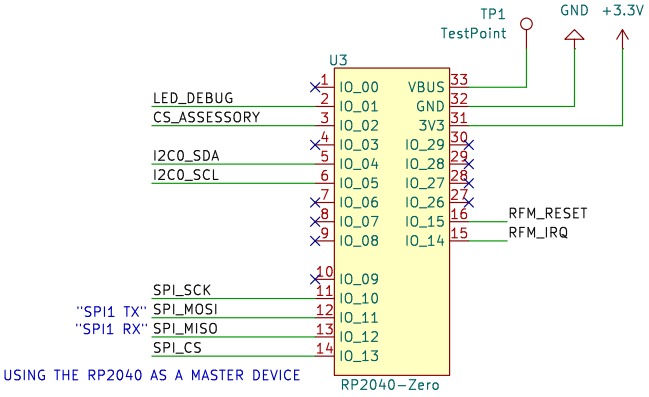
PN: RFM95W-915S2
OPERATING FREQUENCY: 915MHz

FOR EU OPERATION,
USE PN RFM95W-868S2




## RP2040 MCU

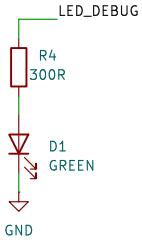
https://www.waveshare.com/wiki/RP2040-Zero



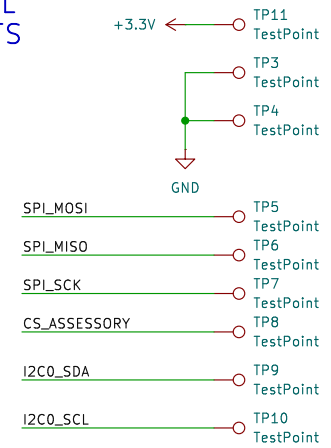

USING THE RP2040 AS A MASTER DEVICE

## DEBUG LED

GOES TO BOTH MCU SLOTS




## ADDITIONAL TESTPOINTS




**GENERAL NOTE:**
**USE ESP32 OR RP2040 MCU - DO NOT POPULATE BOTH**

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