

Meeting Notes

- We do not have to do our own code for the libraries that we found in the Arduino IDE (LoRa and SPI for example). 3 choices for IDE for the ESP32: Arduino, SDK for the ESP32, Platform I/O.
- Brief comments for the power supply in the shared folder. A lot of deep sleep info on the ESP32, there are even examples of AT-Tiny/MOSFET combination being used in conjunction with ESP32 to put it into deep sleep. Can use the MOSFET on the ground lead if you want (n type for ground)
- LoRa draws more current. Do a matrix on how much everything draws power in different modes (off, deep sleep, etc)
- Can find Sparkfront and Adafruit libraries for Eagle. If not, we can generate packages on our own. Good idea to order parts before ordering the board, to see if it properly fits.
- When you spec a relay it will have different inductive/resistive loads ratings. Use LED to show that the relay is working. So did we conclude that opto isolator and relay will be separate? So the relay will not be a part of the board.
- ForPCB.com professor uses them for design checks. Oshpark (3 or quantities of 3 per design group) and PCBway (5 or multiple of 5 boards per design group) and JBLPCB for board manufacturing/shipment.