

This diagram illustrates the PCB layout for an ESP32 module with USB-C connectivity. The layout is organized into several functional blocks:

- USB CONNECTER 1:** Two USB-C connectors are shown, each with a shield and various pins for data and power. They are connected to the USB pins of the ESP32 module.
- USB TO UART:** A section showing the connection between the USB pins and the UART pins of the ESP32 module, including a USB-to-UART bridge chip.
- USER LED:** A single LED connected to a GPIO pin and a current-limiting resistor.
- POWER LED:** A single LED connected to a GPIO pin and a current-limiting resistor.
- ESP32 MODULE:** The central component, an ESP32-S3-MINI-1-N8, with its pins connected to various components.
- 5V TO 3V3 CONVERSION:** A section showing the conversion of 5V to 3V3 using a voltage divider and a 3V3 regulator.
- SERIAL SIGNAL HANDLING:** A section showing the handling of serial signals using a 3V3 regulator and a 3V3 regulator.
- RESET BUTTON:** A button connected to a GPIO pin and a pull-up resistor.
- BOOT/USER BUTTON:** A button connected to a GPIO pin and a pull-up resistor.
- 5V VOLTAGE SELECTION:** A section showing the selection of 5V using a voltage divider and a 5V regulator.
- 3V3 VOLTAGE SELECTION:** A section showing the selection of 3V3 using a voltage divider and a 3V3 regulator.

The diagram includes various components such as resistors, capacitors, LEDs, and buttons, and shows the connections between them and the ESP32 module. It also includes a table of components and their values.

Title		ESP32 WITH USB -C		(C)DESIGNED BY GADILINGAREDDY G M	
Size	Number			Revision	
A2					
Date:	11/23/2025			Sheet of	
File:	C:\Users\...ESP32 USB -C SCH 1.Sch			Drawn By:	