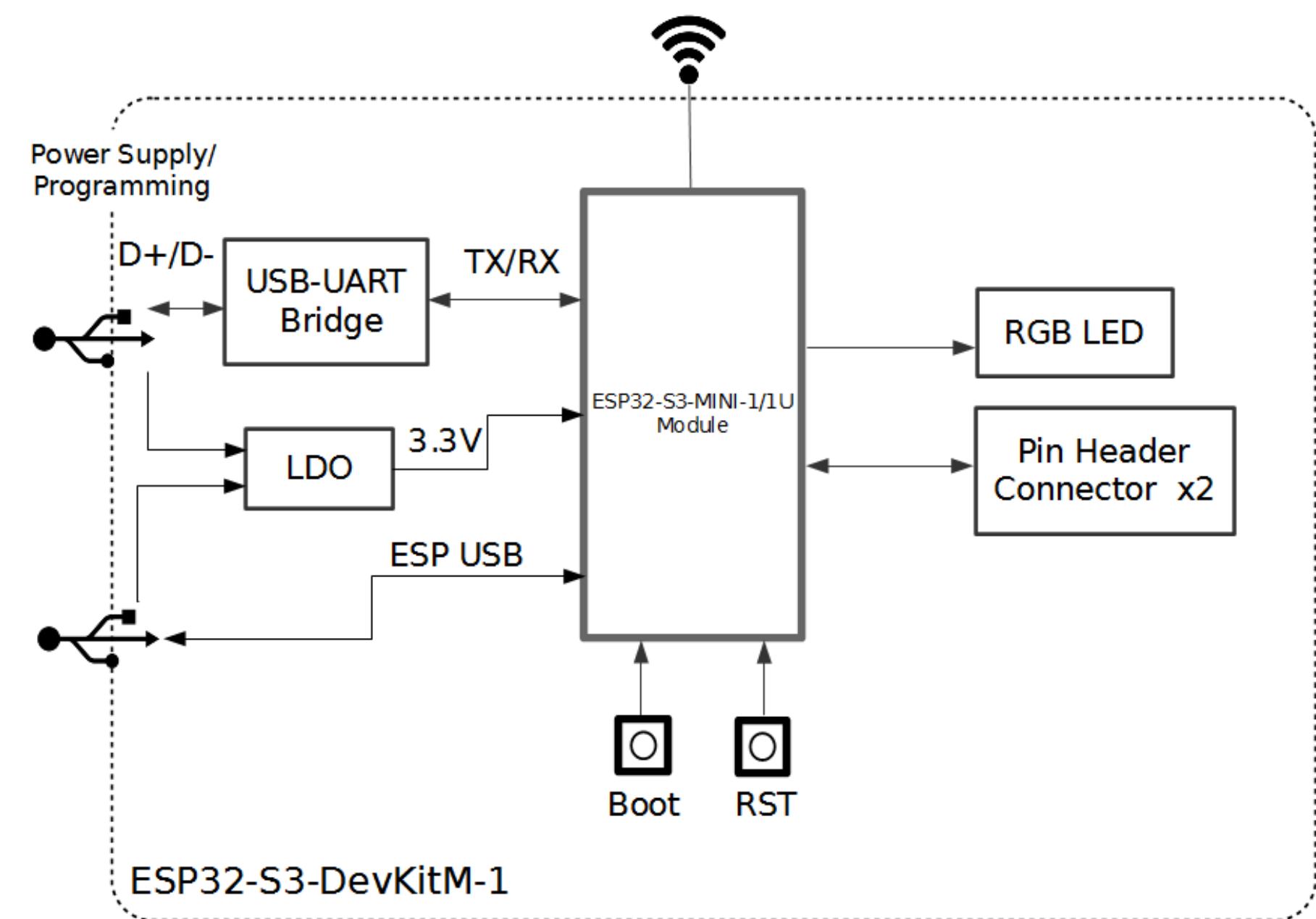
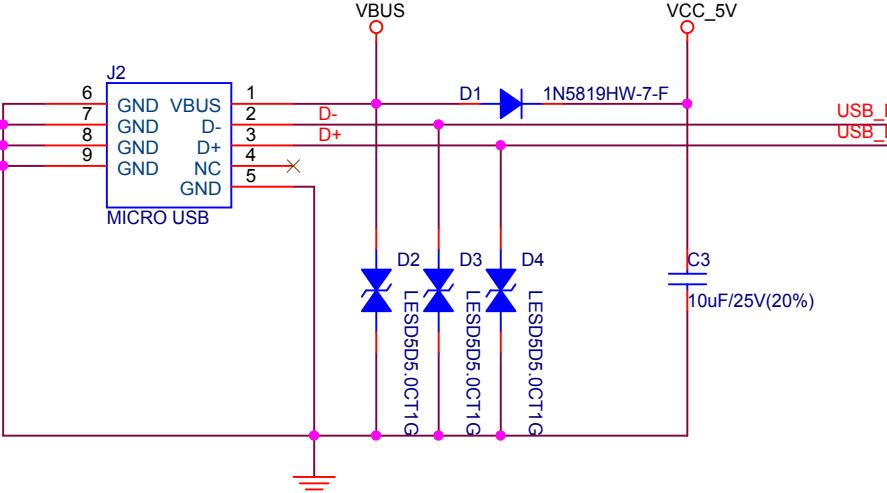


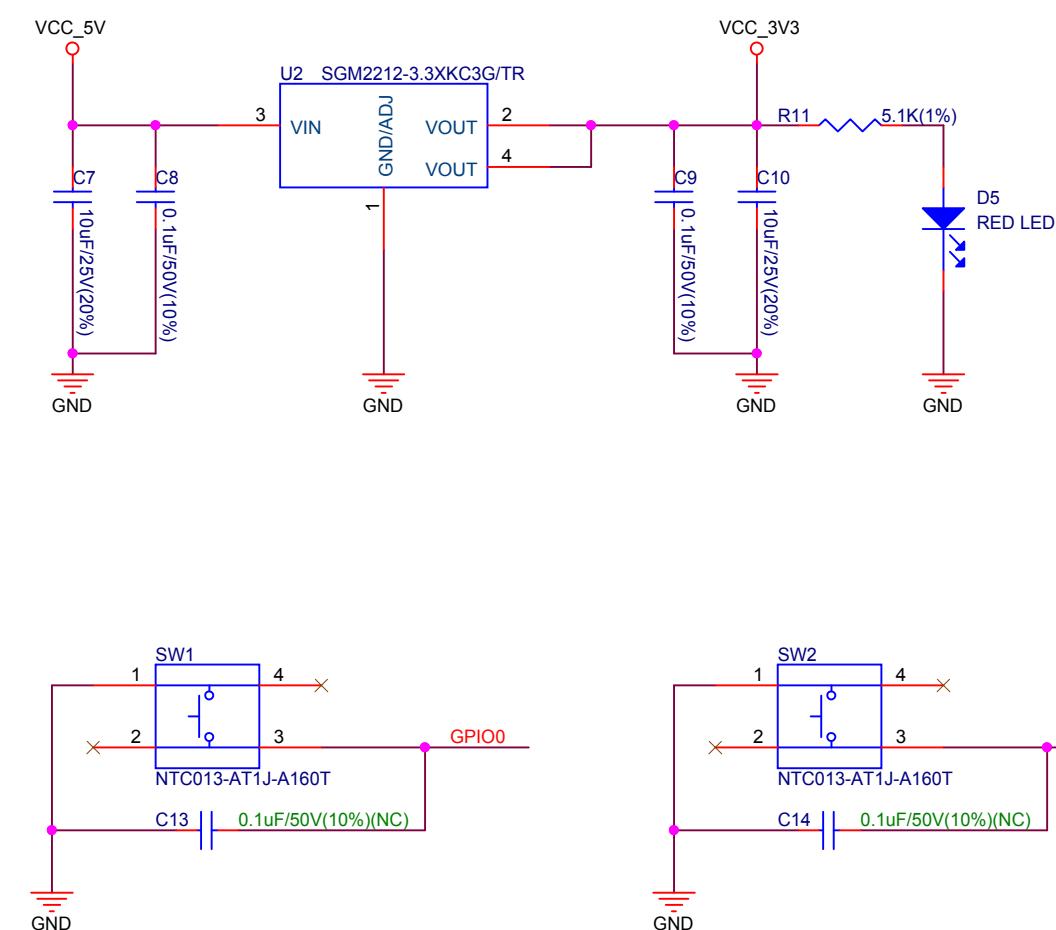
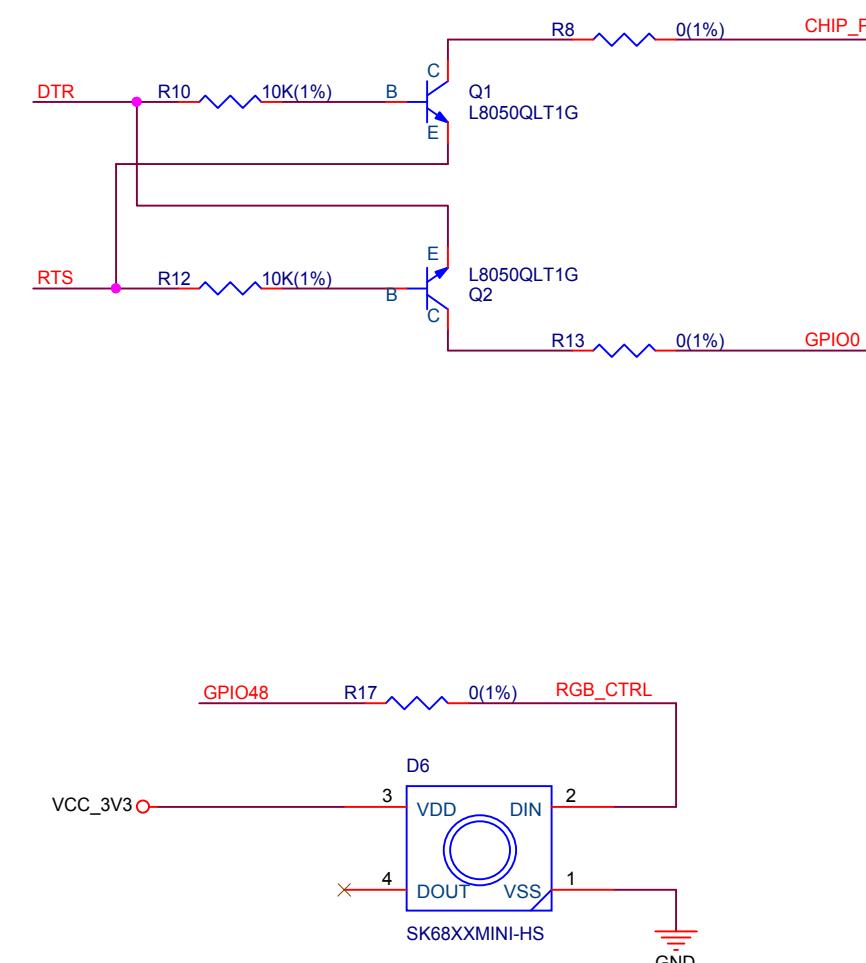
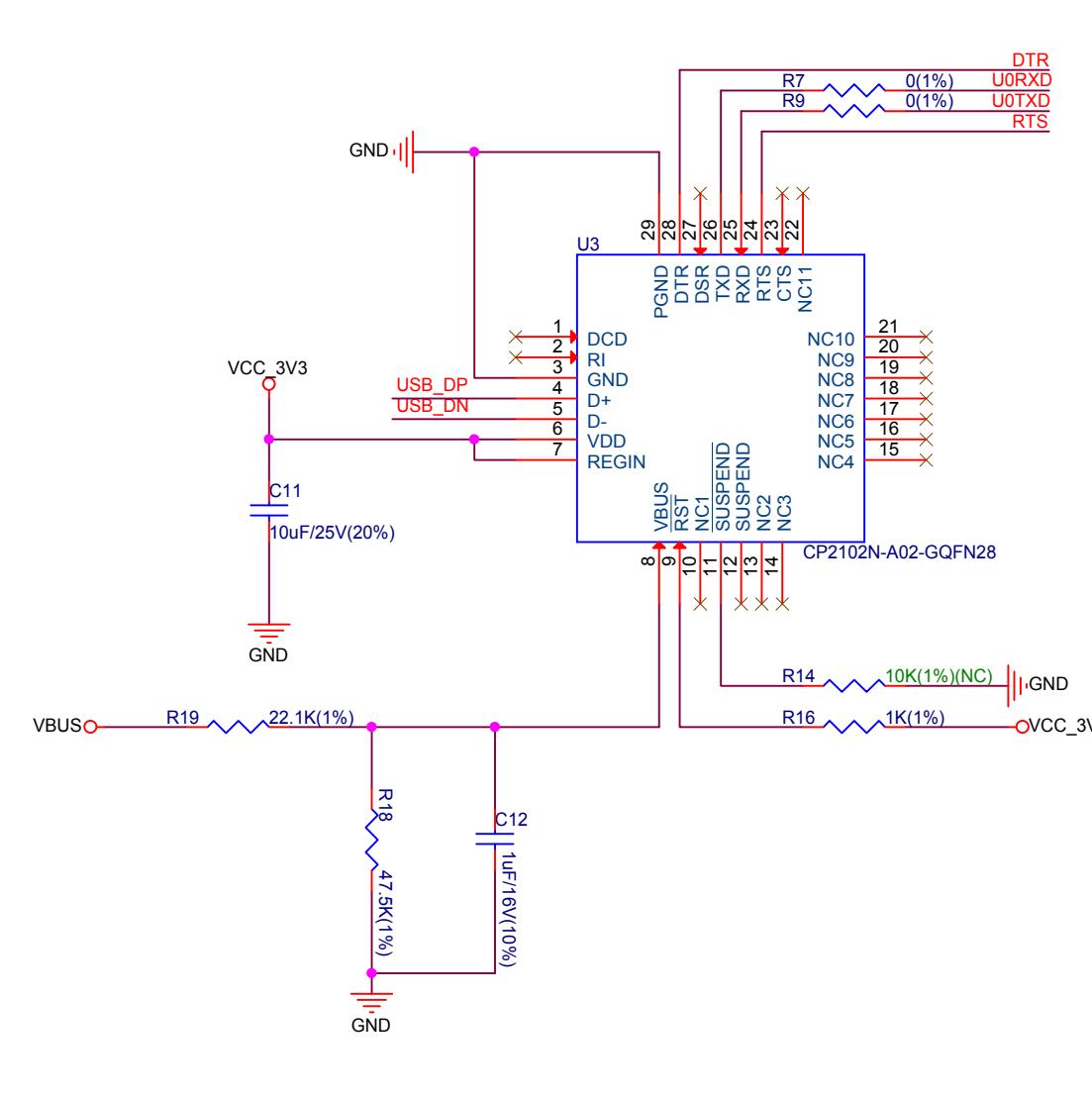
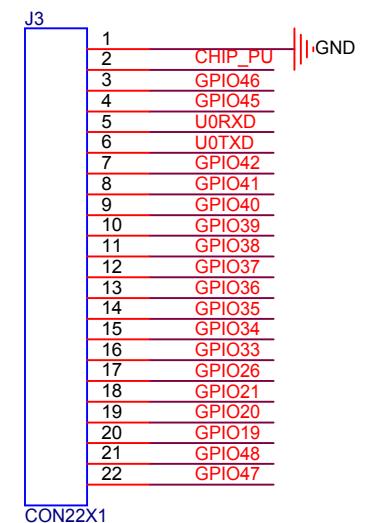
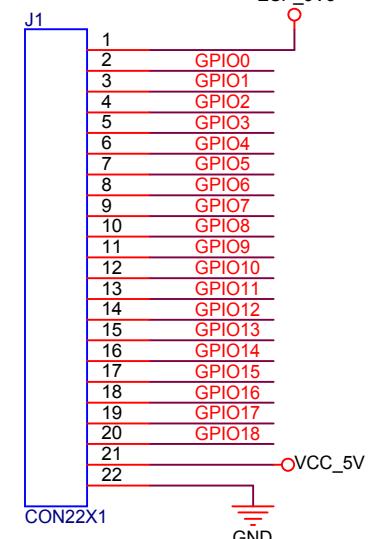
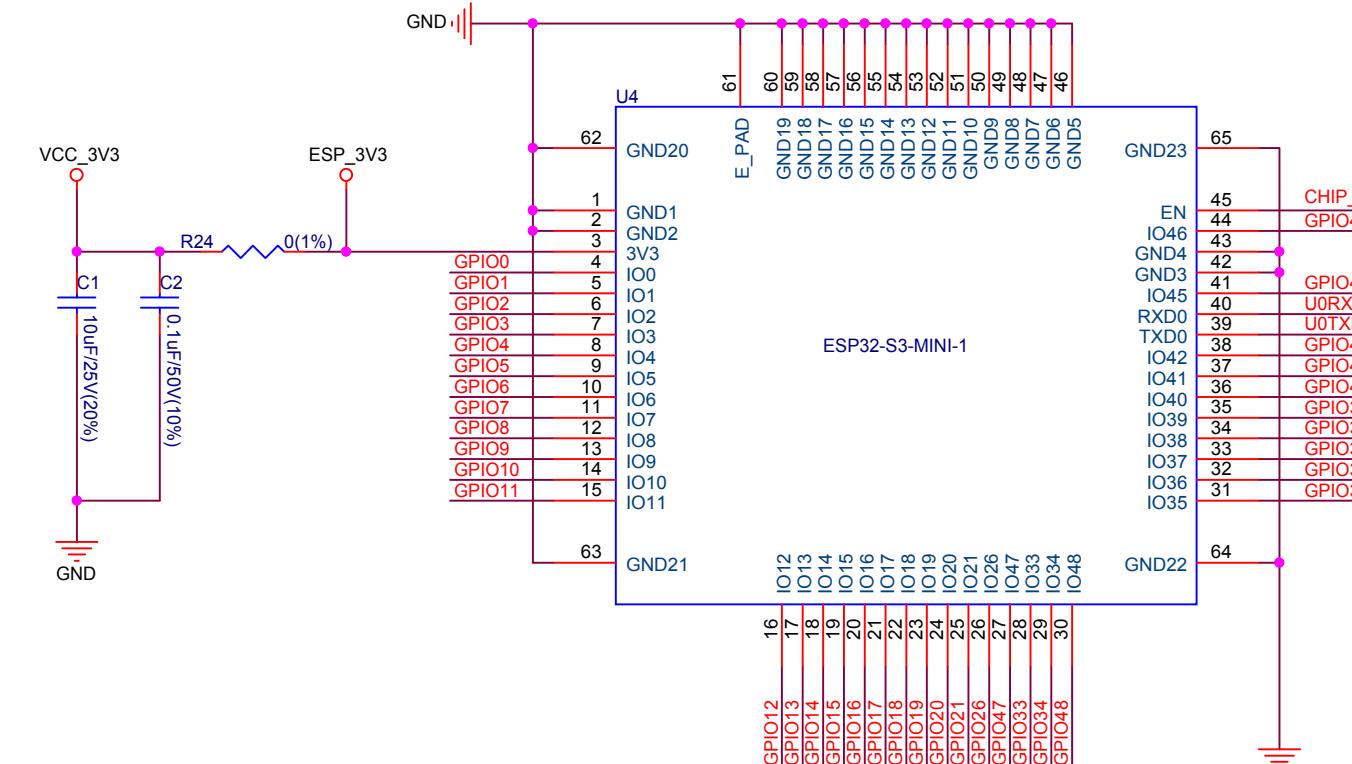
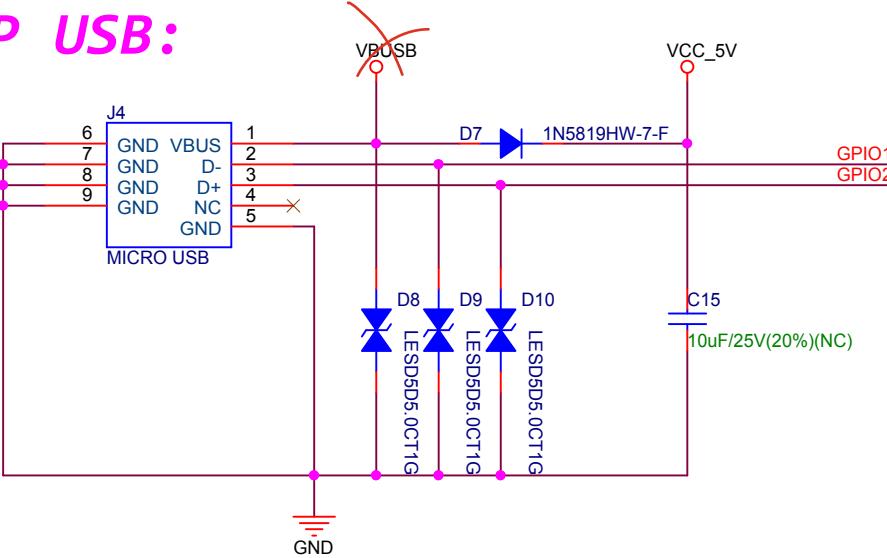
System Block:



USB to UART:



ESP USB:



Micro USB -> 5 pins:
Pin 1 (VBUS): 5V Power, Pin 5 (GND): Ground
Pin 2 (D-): Data -, Pin 3 (D+): Data +
Pin 4 (ID):
The Function of ID Pin: It tells the device whether it should act as a Host or a Peripheral.
If Pin 4 is connected to Ground: The device enters "Host Mode" to provide power and control of If Pin 4 is left floating: The device stays in "Peripheral mode", which is the standard mode for an ESP32 when you plug it into your computer to program it.

NC-not connected = The design has a spot for this, but leave it empty for now

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