

ESP32-S3 Arduino Uno

Version

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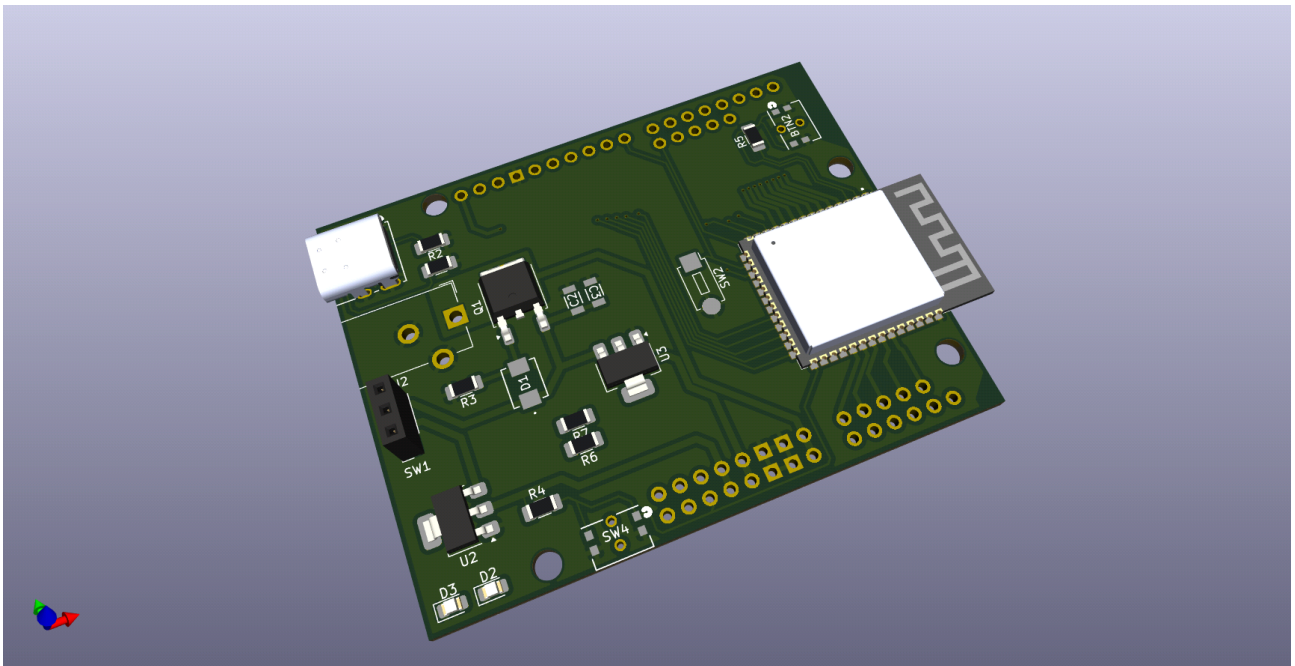
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ESP32-S3 Arduino Uno Project

This guide will walk you through the steps required to design an ESP32-S3 development board. The schematic design for this development board is based on the technical guidelines for ESP32-S3 WROOM module.

ESP32-S3 WROOM is a widely used microcontroller module. It is compact and packs significant computing power and capabilities. The image below showcases the 3D model of completed ESP32-S3 Uno development board.



PROJECT OVERVIEW

ESP32-S3 Uno Development Board retains the formfactor of Arduino Uno board. This is a two-layer board with the ESP32-S3 WROOM module at the top. The power and USB-C connection port, pin headers along the sides are located on the same side. The board also features the two control buttons, “BOOT” and “EN”, power-LED indicator, barrel jack connector for external power supply, a 3.3V voltage regulator with reverse voltage protection and a power switch.

SCHEMATIC DESIGN

Schematic Setup

Symbols

Annotation and Component Values

Arrangement

Associations

Wiring

Nets and Net Classes

