

S3 development Board Product Brief

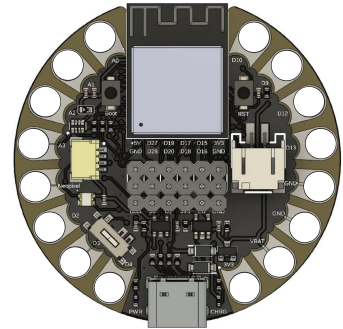
ESP32-S3 development board with 2.4GHz Wi-Fi and Bluetooth 5.0

Version: 1.0

Modified: 2025-04-30

Introduction

Unit Lily S3 is a compact development board powered by the versatile ESP32-S3 chip, engineered for IoT, AI, and machine learning applications. Its design integrates the efficient ESP32-S3 Mini microcontroller—with low power consumption and an optional PSRAM configuration—to support both basic sensor projects and advanced prototypes. Additionally, the 3.3V power rail facilitates seamless connectivity with low-voltage components such as LilyPad and QWIIC sensors.



Functional Description

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Electrical Characteristics

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Features

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Applications

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Settings

Interface Overview

Interface	Signals / Pins	Typical Use
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Supported Pins

Symbol	I/O	Description
VCC	Input	Power supply (3.3V or 5V)

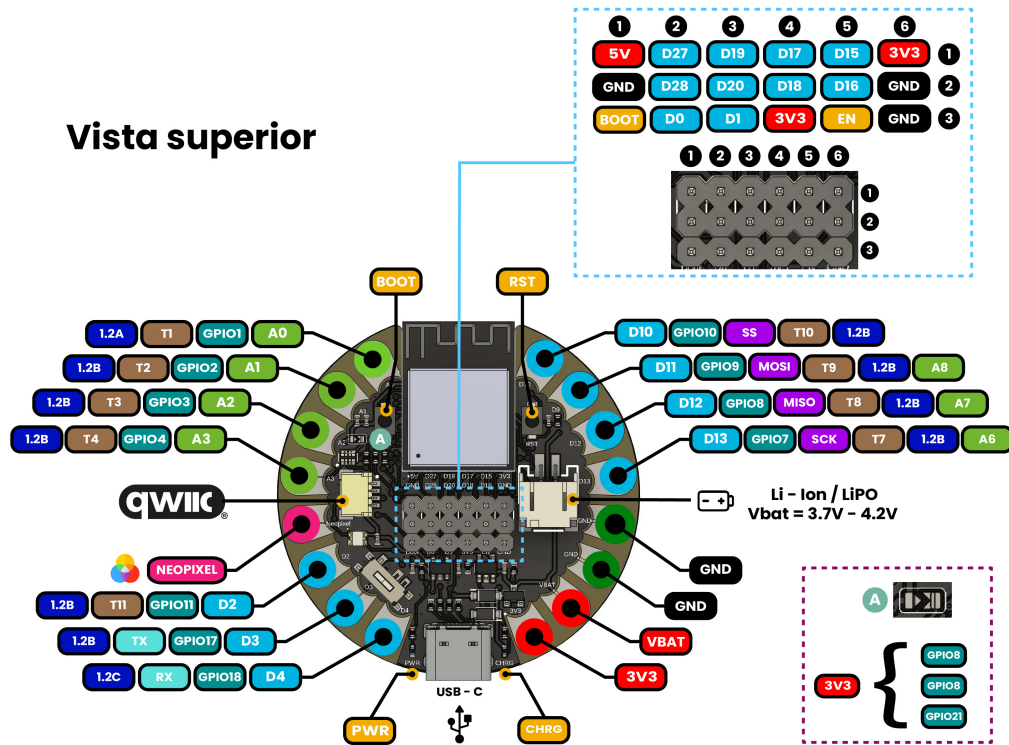
Pin & Connector Layout

Group	Available pins	Suggested use
GPIO	D2 to D13	Sensors, actuators
UART	Tx and Rx	Serial communication
TouchPad	T1 to T11	Capacitive sensors for touch detection
Analogic	A0 to A8	12 bits (0–4095) resolution
SPI	Optional	Displays, additional memory

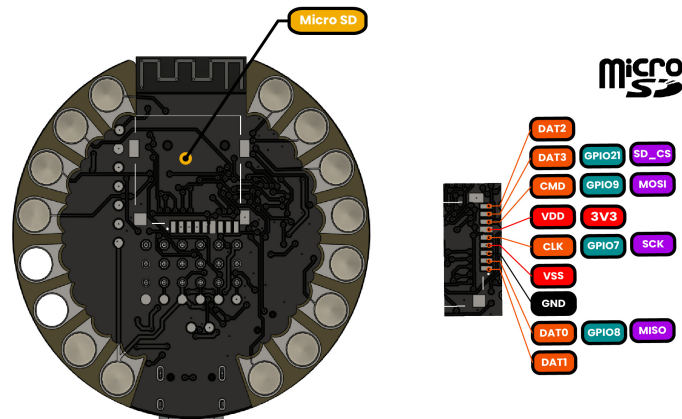
Block Diagram

PINOUT














UNIT LilyPad S3



Vista inferior



Leyenda:

 Alimentación	 GPIO compatible con Arduino	 Touch Pad	 SPI	 RGB
 GND	 GPIO ESP32	 Analógico	 Micro SD Data	
 Componentes	 UART	 ADC	 Pad expuesto	



Dimensions



Usage

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Downloads

- Schematic PDF

Purchase

- Buy from UNIT Electronics