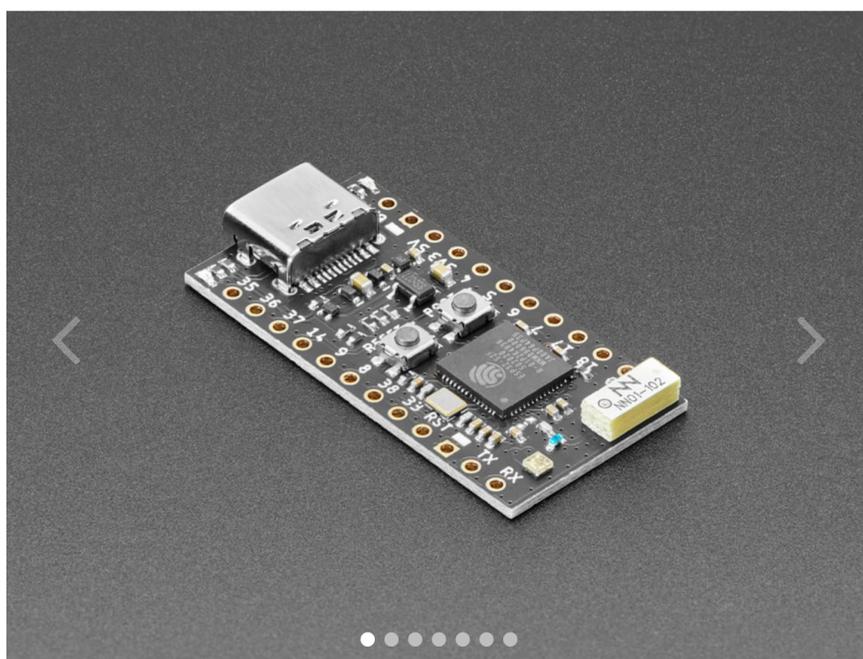




TinyS2 - ESP32-S2 Development Board

Product ID: 5029



Description

Introducing the **TinyS2** - The Tiny Mighty ESP32-S2 development board in the TinyPICO format! This board features the powerful ESP32-S2, a single-core Tensilica processor with WiFi and native USB so it can run Arduino or Circuitpython code.

The ESP32-S2 is a highly-integrated, low-power, 2.4 GHz Wi-Fi System-on-Chip (SoC) solution that now has **built-in native USB** as well as some other interesting new technologies like Time of Flight distance measurements. With its state-of-the-art power and RF performance, this SoC is an ideal choice for a wide variety of application scenarios relating to the [Internet of Things \(IoT\)](#), [wearable electronics](#), and smart homes.

Ships with a set of male headers and a JST connector that you can solder on if ya like. Each TinyS2 also ships with a UF2 bootloader and the latest version of CircuitPython that supports the ESP32-S2.

So many features in such a small footprint:

- Just like its bigger brother [TinyPICO](#), the TinyS2 has onboard LiPo battery charging
- 4MB of flash
- Onboard RGB LED that can be shut down to reduce deep sleep current
- A generous 700mA output 3.3V regulator.
- TinyS2 also has 2MB of extra PSRAM on top of the 320K SRAM and 17 GPIO broken out.
- TinyS2 is **17.8mm** wide and **41mm** long.

Note that unlike the ESP32, it does not have dual cores and does not have Bluetooth® or Bluetooth® LE.

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Technical Details

- If you are looking for **technical support for an Unexpected Maker product**, you can either use [this form](#) or join the [discord server](#) and post in the #um-hardware support channel, where you can get more real-time help from UM or other people on the server.
- For additional specs, code, FAQ, and more, please visit the [official website](#).

[Schematic](#)

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