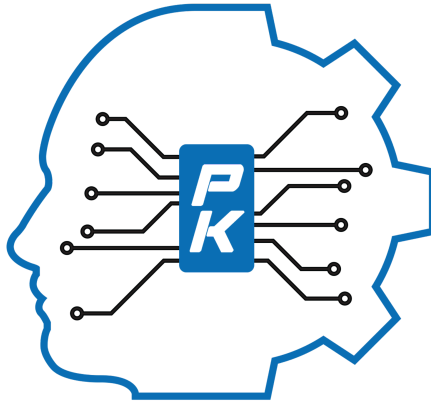


Esp32-Stick-Eth



PROKYBER

Rev. 1.3.0

Posted at 3. 3. 2024



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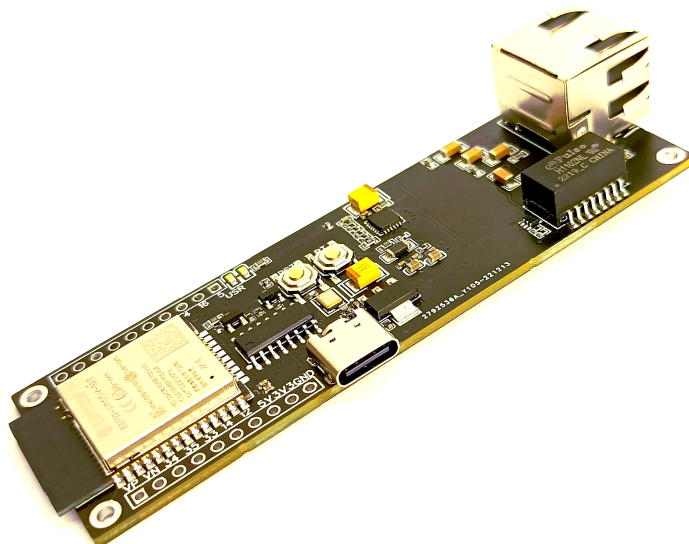
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ESP32-Stick-Eth



Product summary

ESP32-Stick-PoE-Eth is an open-source CE certified development board for Esp32 with Ethernet support, which is a part of Esp32-Stick boards line. The ESP32-STICK is a range of cost-effective development boards for the ESP32 with Ethernet support. The boards use the LAN8720A chip for ethernet and the CH340G USB-UART converter for communication with the PC and programming.



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The board is Pin-to-pin compatible with other Esp32-Stick boards and has 17 GPIOs!

Programming options

Esp-IDF, Arduino IDE, Micropython, ESPHome

Hardware characteristics

- ESP32-Wroom module.
- USB-C connector.
- 17 Pins are available.
- LAN8720A chip for Ethernet.
- CH340G USB-UART converter.
- USER-Led(GPIO2).
- Reset button and User button(GPIO0).
- Accepts power through: USB, External source (3.3V-5V)



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Other important characteristics:

- 17 pins are not used by Ethernet are available for programming.
- USB Type-C
- Esp32-Stick boards are fully programmable in Arduino, Micropython and are supported in ESPHome home automation environment(Examples are available on Github)
- No external USB-UART converter is required, ready for plug-and-play programming!
- All the Esp32-Stick boards have the same length and width so they can easily be replaced with one another.
- Any code written for one board is compatible with another because they share the same CPU and pinout.



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Packaging example



Example of product packaging in a sealed bag with BAR code according to the seller's needs. The package contains: 1x Esp32-Stick-PoE-Eth, 2x Pin header



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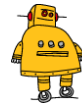
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Example projects

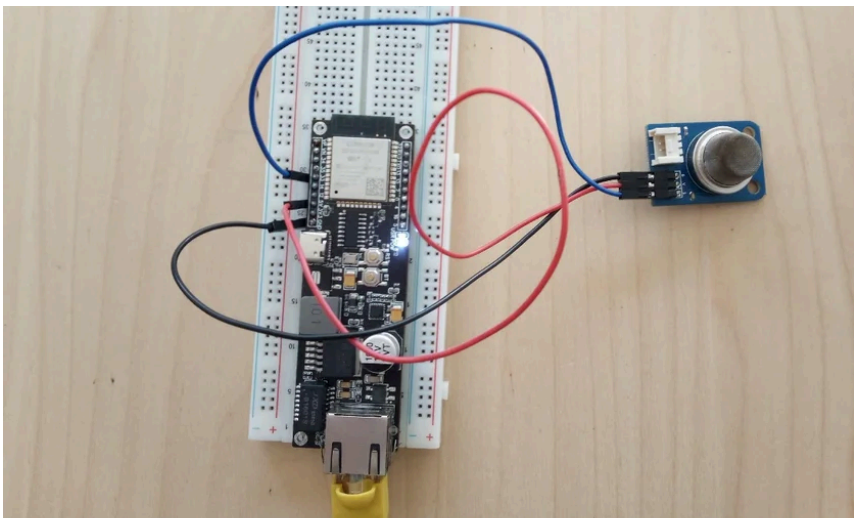
Each product has tutorials to quickly familiarize the user with its basic functions. Each tutorial is available on INSTRUCTABLES.COM and is created by users for users.



AUTODESK
Instructables

How to Make Plug-And-Play Esp32-Stick Gas Monitoring Sensor

- The tutorial (same for all ESP32-Stick-PoE-n boards) is available at: <https://www.instructables.com/Esp32-Stick-Telegram-Gas-Sensor-How-to-Make-Plug-A/>



Tutorial output created by user alexok997 in category Circuits Arduino



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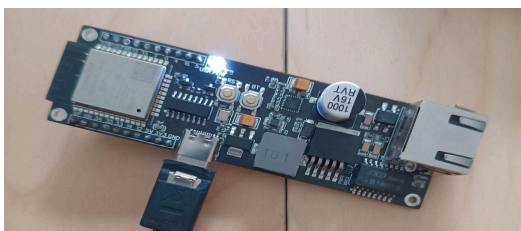
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Esp32-Stick Development Boards(POE-A, POE-P, ETH) Blink and Ping

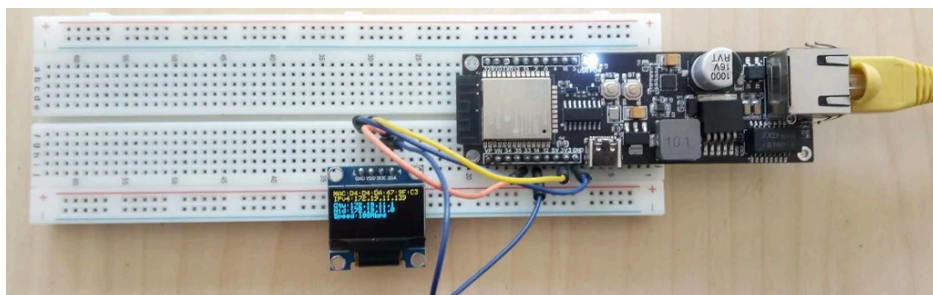
- The tutorial (same for all ESP32-Stick-PoE-n boards) is available at: www.instructables.com/Esp32-Stick-Development-BoardsPOE-AETH-Blink-and-P/



Tutorial output created by user GruncMichal in category Circuits Arduino

Esp32-Stick displays network characteristics on Oled display

- The tutorial (same for all ESP32-Stick-PoE-n boards) is available at: <https://www.instructables.com/Esp32-StickOled-Display-Displaying-Connected-Netwo/>

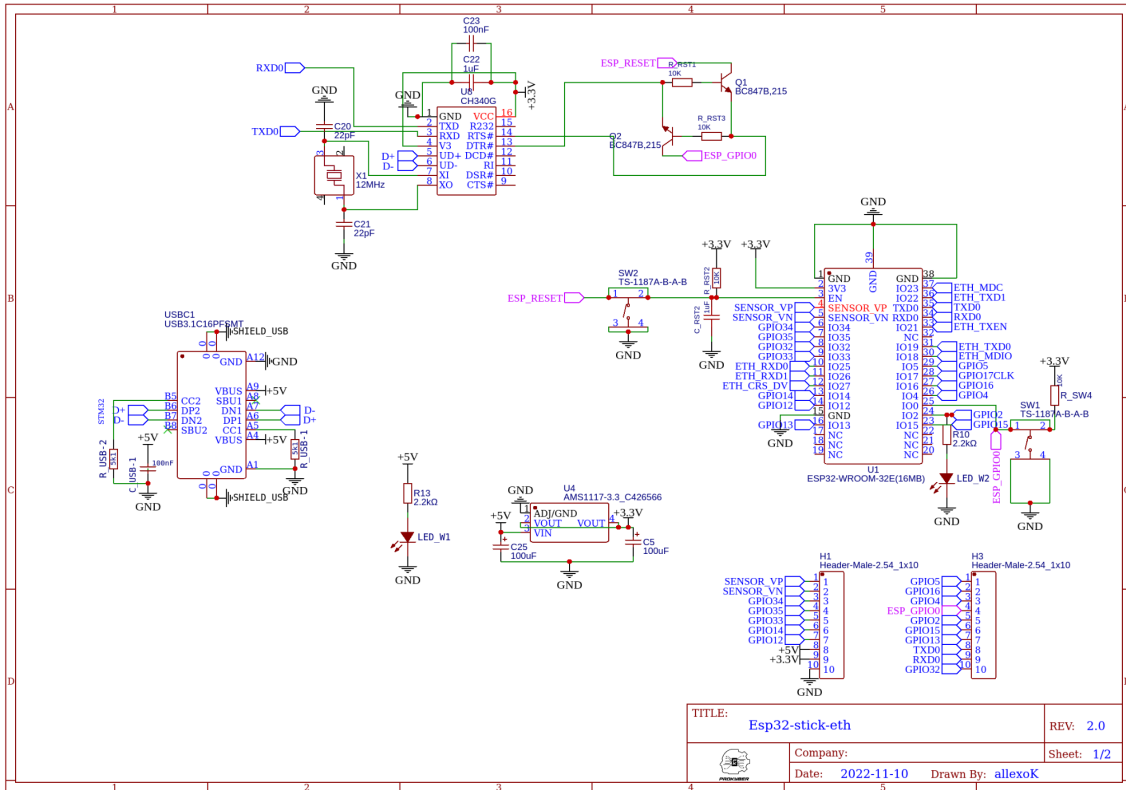


Tutorial output created by user alexok997 in category Circuits Arduino

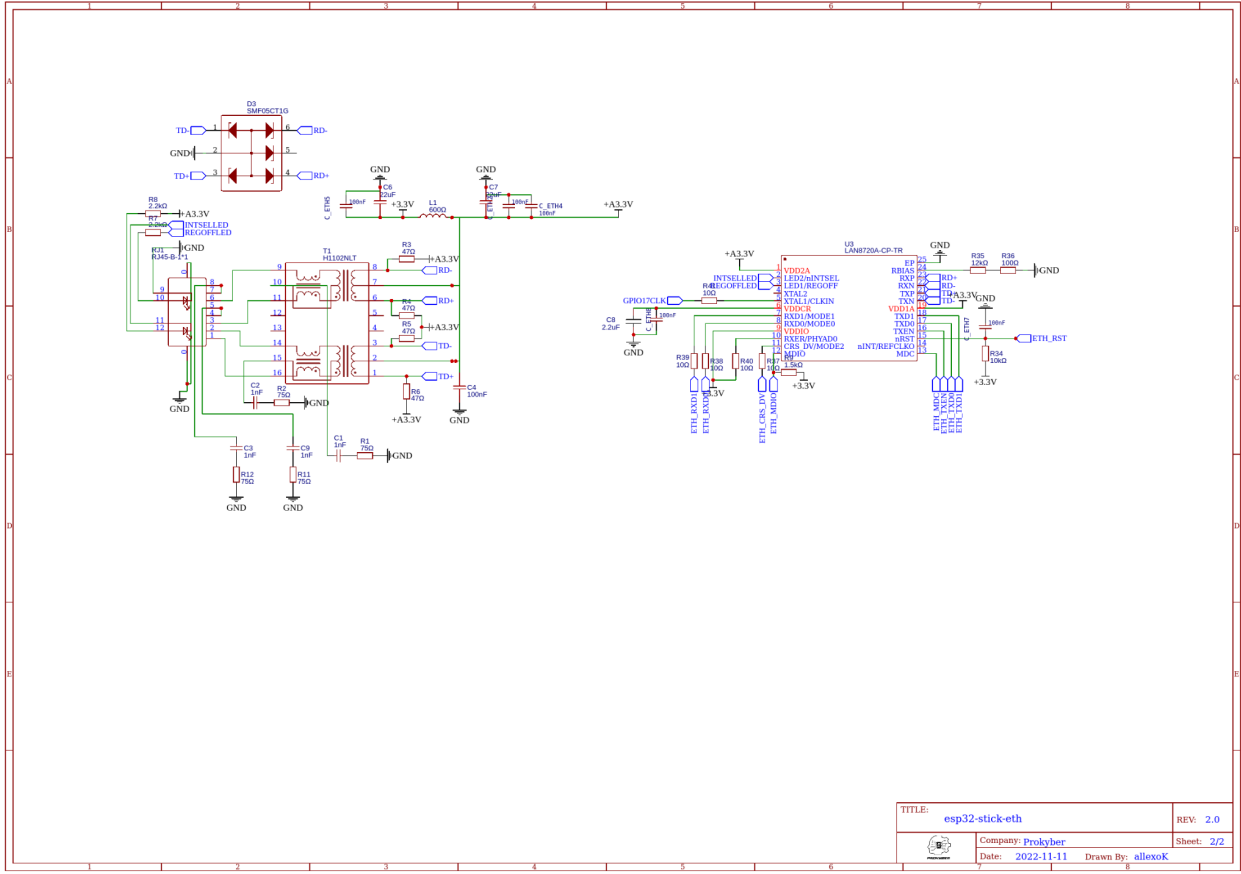
Parameters Summary

	Main chip	GPIO	Logic level	Vin	Pins soldered	Temp	Flash	Protocols	Connectors	Programming options	Main distinctive feature(s)
Esp32-Stick-Eth	Esp32	17	3.3V	3.3-5V	No	-40... +85	16MB	Wifi, Ethernet, Bluetooth, BLE, GPIO, I2C ,I2S, SPI, UART	USB-C, RJ45	Arduino IDE, Micropython, EspHome, ESP-IDF	Ethernet, Same size as other Esp32-Stick boards

Schematics



TITLE: Esp32-stick-eth		REV: 2.0
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Date: 2022-11-10	Drawn By: allexoK	



TITLE:	esp32-stick-eth	REV: 2.0
	Company: Prokyber	Sheet: 2/2
	Date: 2022-11-11	Drawn By: alexoK