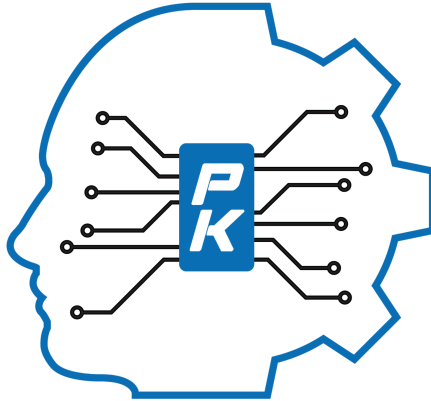


Esp32-Stick-PoE-A



PROKYBER

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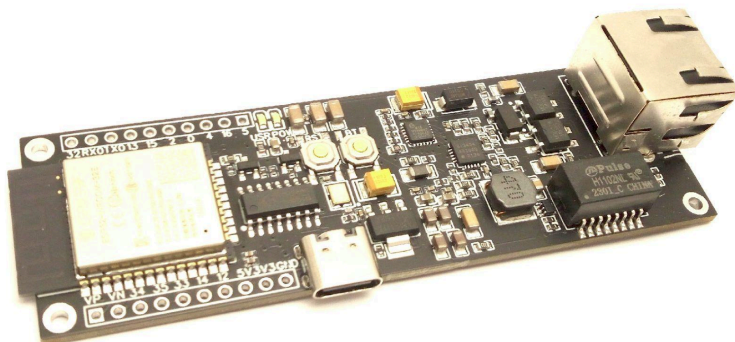
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ESP32-Stick-PoE-A



Product summary

ESP32-Stick-PoE-A is an open-source CE certified development board for Esp32 with Ethernet and active PoE support, which is a part of Esp32-Stick boards line, The Boards use the LAN8720A chip for ethernet and the CH340G USB-UART converter for communication with the PC and programming. The ESP32-STICK-POE-A uses the SI3404 circuit, which provides Power-Over-Ethernet support. Programming is done through the USB connector.

The board is Pin-to-pin compatible with other Esp32-Stick boards and provides active PoE support!

Hardware characteristics



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- ESP32-Wroom module.
- USB-C connector.
- 17 Pins are available.
- LAN8720A chip for Ethernet.
- Si3404-A(PoE-A)
- CH340G USB-UART converter.
- USER-Led(GPIO2).
- Reset button and User button(GPIO0).
- Accepts power through: USB, External source (3.3V-5V),Active POE

Programming options

Esp-IDF, Arduino IDE, Micropython, ESPHome

Other features:

- 17 pins are not used by Ethernet are available for programming
- USB Type-C
- Esp32-Stick-Poe-A has 5V output, so additional peripherals can be powered.
- 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 package contains: 1x Esp32-Stick-PoE-A, 2x Pin header

Example projects

Each product has tutorials to quickly familiarize the user with its basic functions. Each tutorial is available on [INSTRUCTABLES.COM](https://www.instructables.com) and is created by users for users.



AUTODESK
Instructables

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



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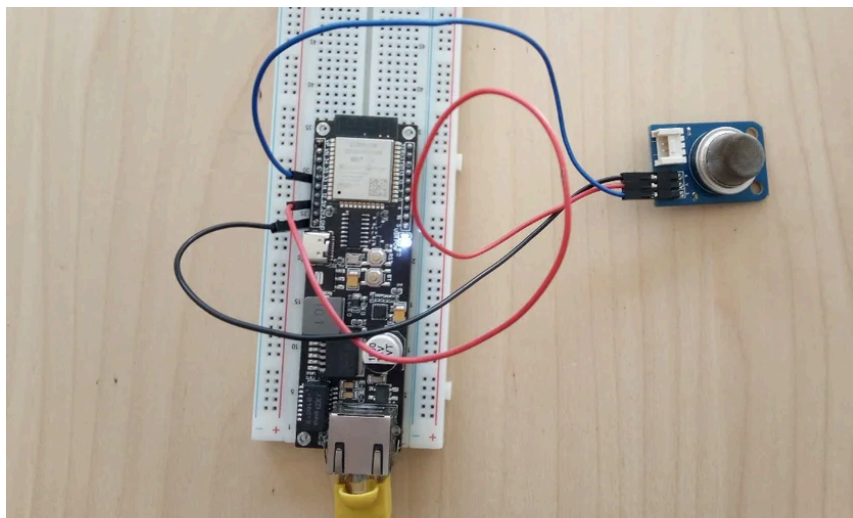
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- The tutorial (same for all ESP32-Stick-PoE-n boards) is available at: <https://www.instructables.com/Esp32-Stick-Telegram-Gas-Sensor-How-to-Make-Plug-A/>



Tutorial output created by user alexok997 in category Circuits Arduino

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/



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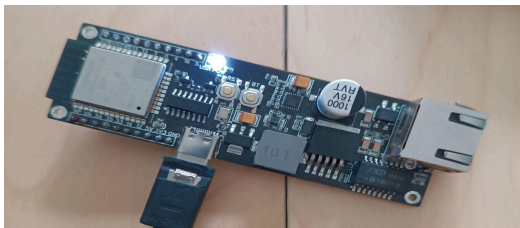
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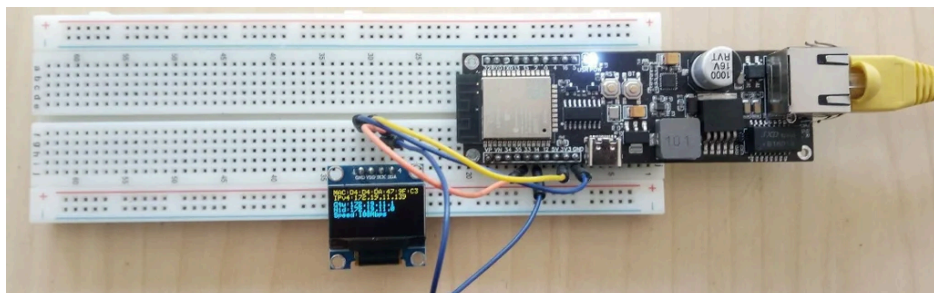
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Tutorial output created by user GruncMichal in category Circuits Arduino

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/>

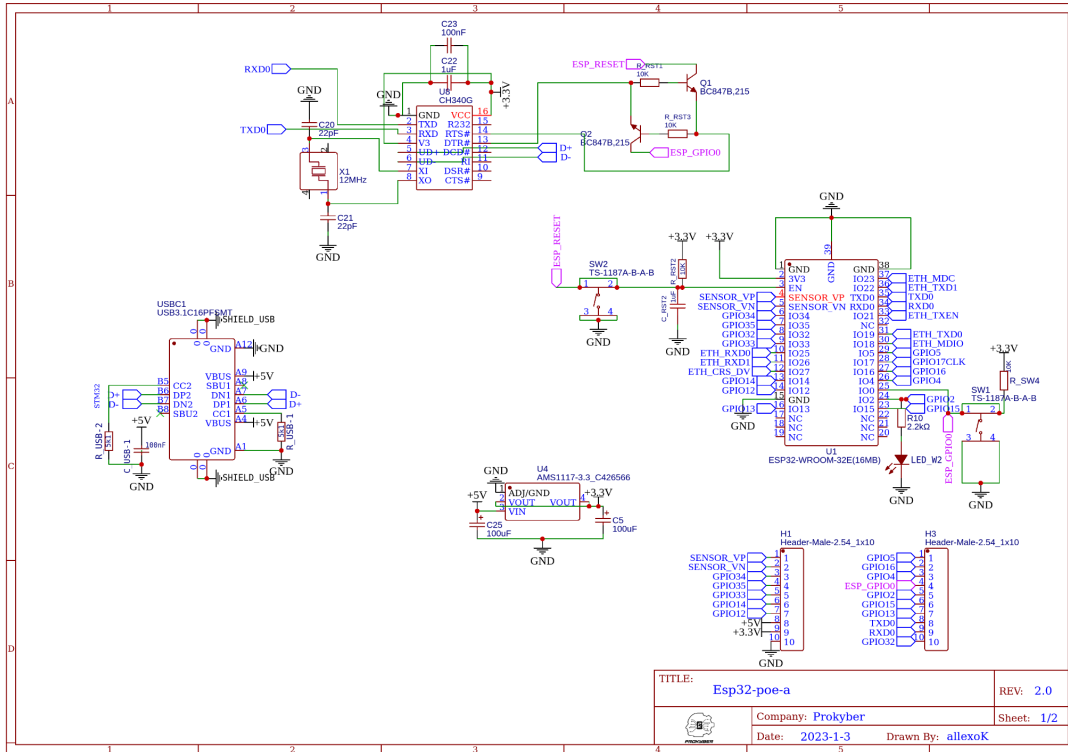


Tutorial output created by user alexok997 in category Circuits Arduino

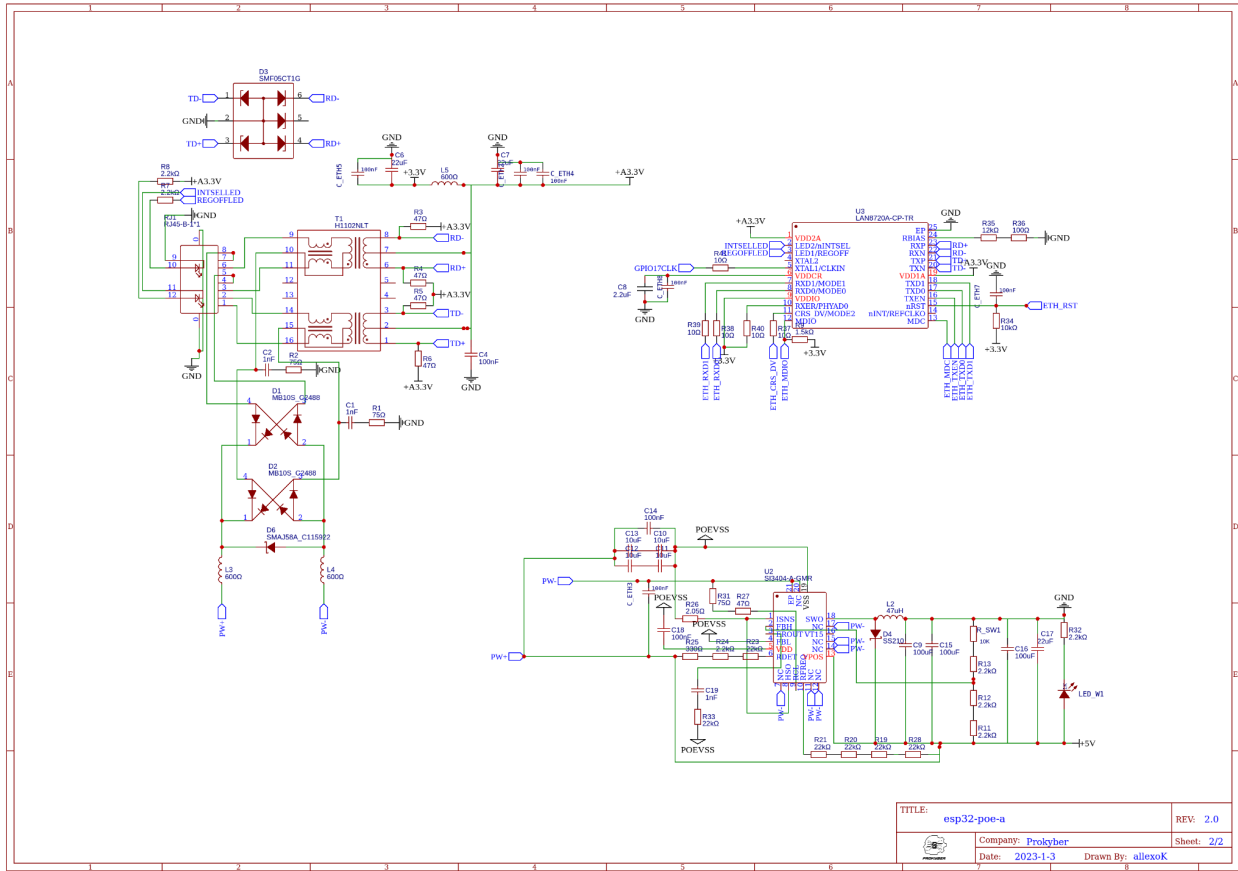
Parameters Summary

	Main chip	GPIO	Logic level	Vin	Pins soldered	Temp	Flash	Protocols	Connectors	Programming options	Main distinctive feature(s)
Esp32-Stick-PoE-A	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	Active PoE, Same size as other Esp32-Stick boards

Schematics



TITLE: Esp32-poe-a		REV: 2.0
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