Vitorbnc / espSuite Public

Full-featured Serial bridge for ESP8266, supports MQTT, WebSockets,Telnet, and also comes with a nice Config Page

GPL-3.0 license

37 stars 9 forks

Star Notifications

Code Issues 2 Pull requests 1 Actions Projects Security Insights

master Go to file

vbncost add esp8266 binary ... on Aug 17, 2021 49

View code

README.md

espSuite

Full-featured Serial bridge for ESP8266 and ESP32, supports MQTT, WebSockets,Raw TCP (Telnet), Server and Client mode and also comes with a nice Configuration Page.

Now we don't have to upload code again only to switch to AP Mode or change the password. Just open the config page and you're all set.

New version: ESP32 support + EEPROM emulation for saving default data. This greatly improves stability.

Previous version moved to the legacy folder.

Flashing:

Pre-built:

Bulding from source is recommended for customizing the default options.

Prebuilt binaries available:

- Wemos Lolin32
  - Go to `./bin/esp32` and run `flash_wemos_lolin32.bat`
- Generic ESP-01 module (not tested yet)
  - Install `python 3` and esptool (with `pip`)
  - Go to `./bin/esp8266` and run `flash_esp01_generic.bat`

> Edit the `.bat` files to replace COM3 with your port number if it fails to find the device.

> For linux, just copy+paste the batch file contents in the terminal.

From source

Tested with:

- Arduino IDE 1.8.13
- arduinoWebSockets 2.3.4
- pubsubclient 2.8.0
- EEPROM Rotate 0.9.2
- Arduino core for ESP32 1.0.4
- Arduino core for ESP8266 3.0.1 (build succeeded, but not tested in actual device)

Steps:

- Upload the Sketch to ESP8266/ESP32
- Connect to its AP (SSID is *things* by default) and go to 192.168.1.1 to see the Setup Page
- **Optional**: open `constants.h` to view or edit default settings (change `INIT_CODE` to some arbitrary number of your choice after every new change)

The ESP will work as a Serial device, always when you `Serial.print("something")`, *something* will be sent using the protocol you've chosen. When you send *something* to its IP address and port (don't forget the '\n' in the end), it will be printed to Arduino too.

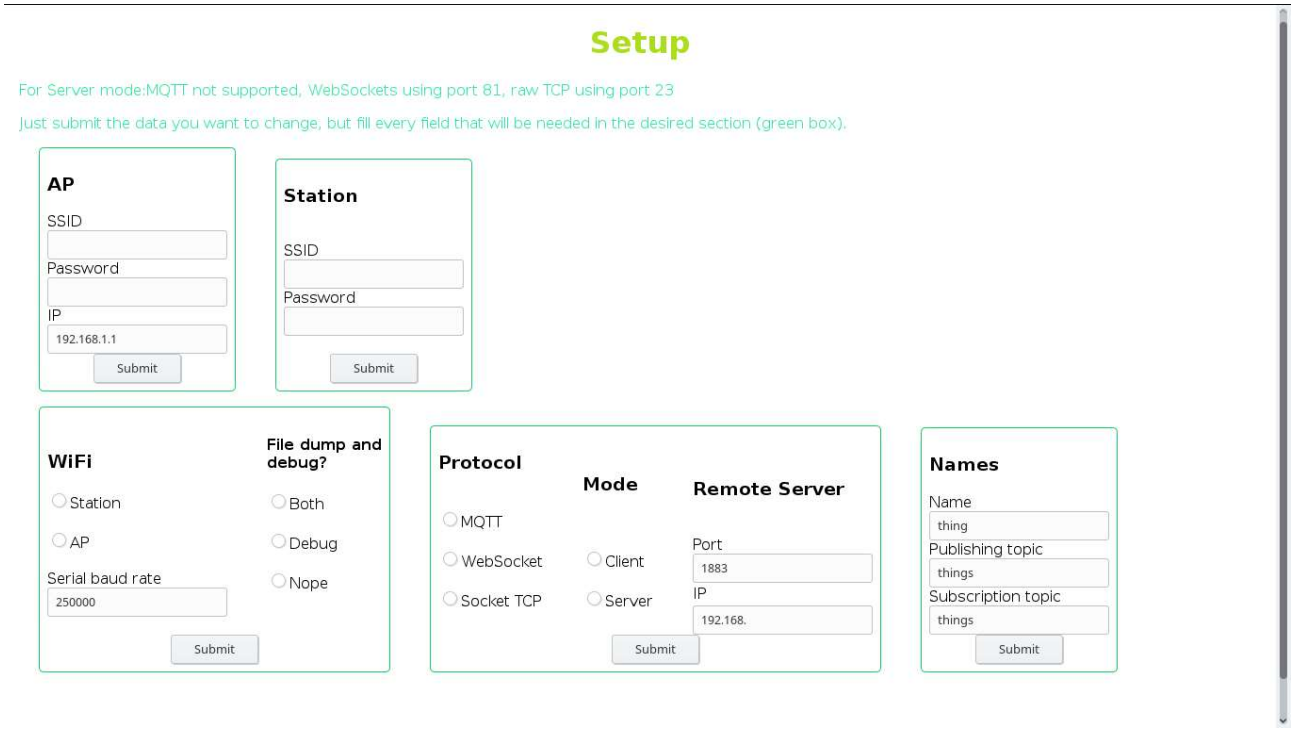
Things to make it better:

- Choose another language (currently, EN-US and PT-BR available) by opening `espSuite.ino` and replacing `index_en` by `index_br`
- Edit `/pages/index_xx.html` with your custom html, then generate a new `index_xx.html.h` with the provided `page_converter` tool by running it from the `pages` folder:

```
..\tools\page_converter.exe .\index_xx.html
```

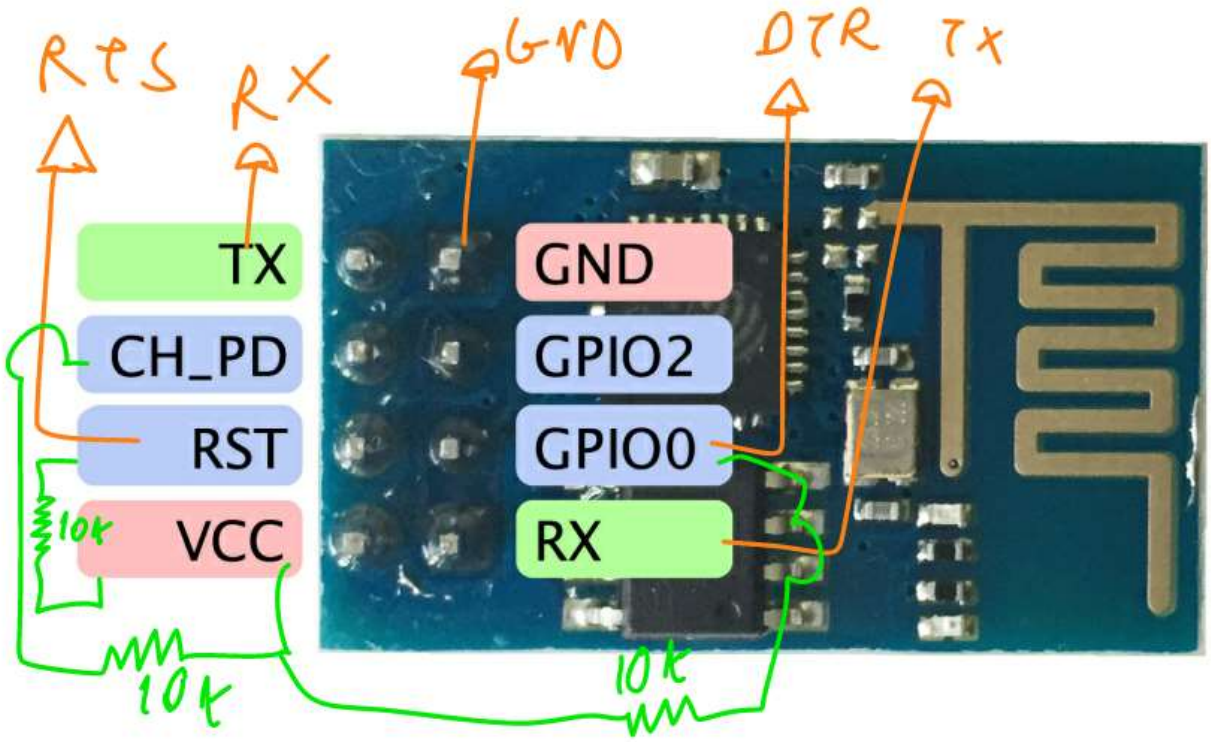
> Note: a linux binary for the page converter will come soon, but you should be able to build it with gcc in no time.

The Setup Page



The Wiring Diagram

Just in case you forgot:



Notes

- Disconnect *DTR* and *RTS* before opening Arduino Serial Monitor
- Make sure to use *Newline*('\n') as line ending char, or change `dataTrailer` in the sketch to use something else.

Releases

No releases published

Packages

No packages published

Languages

C++ 48.8% HTML 29.1% C 21.6% Batchfile 0.5%