**ApRemote – a web based Raymarine SeaTalk 1 autohelm remote control**

Source: <https://github.com/richardJG/APRemote>, Last commit, Nov 2020

Platform IO

**Libraries for build:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name & author** | **PlatformIO libdeps entry:** | **Version** | **Maintainer** |
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Moving to alternative web sockets library & code in ApRemote in PlatformIO

<https://m1cr0lab-esp32.github.io/remote-control-with-websocket/led-setup/>

Now complies :-)

String send to client with data is:

267{"hdg":0,"cts":0,"hdgInfo":"&nbsp;","rsa":"S0","sog":0.00,"cog":0,"awa":"0S","xte":"---","aws":0.00,"vlw":0.00,"dpt":0.00,"stw":0.00,"dtw":"---","btw":"---","left":"&nbsp;","right":"&nbsp;","led0":"led\_on","led1":"led\_off","led2":"led\_off","led3":"led\_off","alm":" "}

Adding Wi-Fi Access point capability

Rui Santo’s Tutorials: <https://RandomNerdTutorials.com/>

[ESP32 Access Point (AP) for Web Server | Random Nerd Tutorials](https://randomnerdtutorials.com/esp32-access-point-ap-web-server/)

SeaTalk 1 interface circuit.

Original (for 5V microcontroller):

Diagram, schematic

Description automatically generated

Reworked for 3.3V microcontroller:

Using EasyEDA simulation mode.

Diagram, schematic

Description automatically generated5V (VCC) related resistors have been scaled by 3.3/5 and nearest standard value selected.

Simulation showed circuit works with 11, 12 and 14V charge states of 12V lead acid battery.

A picture containing graphical user interface

Description automatically generated

Prototyping the circuit

Veroboard layout tool: <https://github.com/bancika/diy-layout-creator>

Tutorial: <https://www.youtube.com/watch?v=mzje3eHqi2E>