

Read before you start



WARNING: nixies need high voltage to light up. If you choose to build or use the calculator, you are doing so at your own risk.

- This repository does not provide a complete project design. The design of the high voltage power supply (170V / $\geq 45\text{mA}$) is not provided.
- Be aware that I'm just an electronics hobbyist and nixie enthusiast. However, this repository is only intended for suitable qualified electronic engineers who are familiar with nixie tubes.
- Please read all documents in Docs before deciding whether to build the calculator.
- I am not affiliated with any of the service providers mentioned in this project.

Known issues

- The calculator uses double type (64-bit) variables which provide limited precision. If more precision is needed, the solution could be using a “big number” library for the calculations.
- The accuracy of the countdown timer and the stopwatch depends on the internal oscillator of the ESP32. With the revision 1a of the controller board there is the possibility to use the 1Hz or the 32kHz signal provided by the RTC chip (firmware must be changed accordingly).