

# Multitasking Scriptable Autotuning PID Platform

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# 1 Hardware

## 1.1 Goals

The priorities during hardware design have been the following, in order of importance:

- safety – the device shall not cause a fire or electric shock to the end user
- reconstructability – the device shall be composed **only** of worldwide accessible components
- price – the BOM for the complete device shall not exceed 100BGN
- ease of assembly – it shall be possible for a person with zero hardware experience to manufacture the device
- minimalism – each component shall fulfill a specific purpose, and the number of components shall be the lowest possible