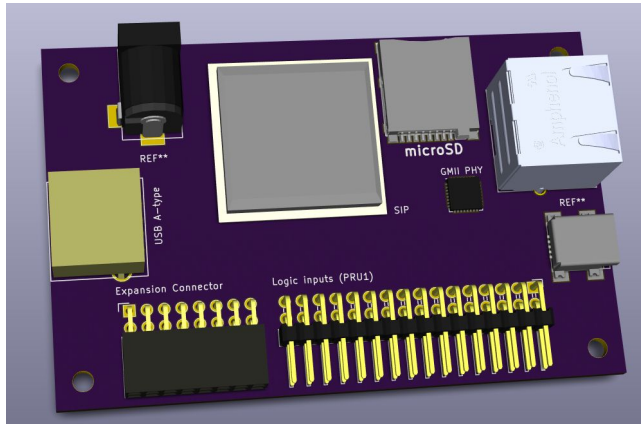# beaglelogic Standalone

Logic analyzers in the range of $100 and below offer low sample depth, require a PC for additional processing and do not offer remote debugging capabilities.

This is where **BeagleLogic Standalone** comes in. With support for 16 channels @100MSa/s, Gigabit Ethernet networking, the capability to do *in situ* protocol analysis using the sigrok set of tools and a easy-to-use web-based interface which is the first of its kind for a logic analyzer, it offers more features for its price than any other logic analyzers at an attractive price point near or slightly above $100.

BeagleLogic is not just a logic analyzer but also a full-fledged Linux computer. It is also expandable through a connector allowing features such as sampling of analog data to be added.

Target Audience
- Makers
- Single-board computer users (BeagleBone and the Raspberry Pi)
- Beginner-to-Intermediate level engineers looking for a capable logic analyzer on a budget

Competitive Advantage

There are a few logic analyzers in the up-to $100 category, including the Dangerous Prototypes' OpenBench Logic Sniffer, and BeagleLogic standalone shall offer the best price-feature tradeoff in this category (with 100MSa/s, 16 channels, large sample depth, networking capability for remote debugging and in situ protocol analysis).

Product(s) to be sold

The primary product in the BeagleLogic family of devices will be the **BeagleLogic Standalone** which will be the major source of revenue.

The **BeagleLogic Standalone** device will feature expansion boards that will plug into the 24-pin expansion connector and augment the functionality of the device. One such device could be a board featuring an LCD display and rotary encoder that can provide a simple user interface for operating the board standalone, without a PC. Another such board could be a High-Speed ADC board that can convert the BeagleLogic standalone into an analog data acquisition device.

Apart from the **BeagleLogic Standalone**, I will continue to support and also sell the **BeagleLogic Cape** that plugs on top of a BeagleBone and converts it into a logic analyzer.

Thus it can be seen that there is a base product and a variety of add-ons and accessories to support it. The sale of these will fund further development of BeagleLogic's hardware and software.

Financials & Funding

The project is currently self-funded until the production of the initial prototypes. After that, funding will be required to handle the certifications necessary. The sale of the prototype units (on Tindie or GroupGets) shall fund future development of BeagleLogic. This project is currently a solo effort but if this project needs to, I may also hire people to help with the project and I would then have to pay them as well, and that would require funding as well.

More Information

Please visit the project page on hackaday.io for the latest updates.

Documentation for BeagleLogic is available on the GitHub wiki but is being migrated to Read the Docs and will be available shortly at beaglelogic.readthedocs.io