simpleRTK2B-SBC documentation

Welcome!
This is the documentation for Ardusimple SBC, a customizable dual band GPS/GNSS RTK Single Board Computer. It's based on u-blox ZED-F9 module and allows you to build any application using its centimeter level accuracy.

If this is the first time you are using the SBC, we suggest you take a look at all the sections of our **Hookup Guide:**

SBC Hardware Overview
Find a detailed description of how to power and communicate with your device. Including a detailed description of all the components and peripherals that you will be able to access to build your own application.

Mechanical integration
Here you will find the SBC mechanical specs (weight, dimensions, 2D/3D models that will help to integrate mechanicaly your SBC. You will also find information about the different enclosures available in our store

SBC firmware update
The code running under the SBC is continuously improved by our engineers by adding new features and fixing known issues. In this section you will learn how to update your SBC firmware to use the newest features.

Load your application
The time has come to launch your own application. We will explain all the options you have to upload it into your SBC.

microPython IDEs for SBC
Although you can use any microPython IDE, we will provide some suggestions with tutorials to make your programming experience more confortable.

If you are already familiar with the SBC hardware you can jump directly to our **API Reference Guide:**

SBC Classes
The SBC specific classes will make your programming much easier. This section should be your programming reference.

Basic Examples
Find a collection of basic examples: from blinking a LED to read a digital input. By combining these basic examples with your imagination you can start building serious things!

Application Examples
Looking for inspiration to get the most of your SBC? We have prepared a few application examples ready to be loaded to your SBC to show you more advanced stuff.

In the **SBC Firmware** section you will find:

Download Firmware
Get the latest firmware version.

Firmware changelog
Keep track of the new features and improvements of each firmware version.

The **How to connect...** section will help you to connect your third party devices to the SBC:

Relays
Use the SBC to switch high power devices.

Motors
The SBC can easily control servo, stepper and DC motors.

And remember to **Contact us** if you have questions or suggestions.

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