

Skywalker 1KG Firmware

Connecting the Skywalker PKF-1KG to HiBean via Bluetooth

Here is a starting point for connecting a Skywalker PKF-1KG coffee roaster to HiBean via Bluetooth.

Hopefully this helps shorten your journey—and gives an old man a place to remember where to start over. Hope it helps!

What You'll Need

1. Skywalker PKF-1KG Roaster

Roaster: PKF-1KG Skywalker

I purchased mine from Amazon here in the U.S.

2. ESP32-S3 Development Board

Quantity: 1

Model: ESP32-S3-DEVKITC-1

DigiKey:

<https://www.digikey.com/en/products/detail/espressif-systems/ESP32-S3-DEVKITC-1-N8R2/15199627>

3. USB-C Splitter

Quantity: 1

Use a USB-C splitter like the one shown below.

Amazon:

<https://www.amazon.com/Jadebones-Charger-Adapter-Splitter-Charging/dp/B0DS7ZHZDF>

4. USB-C Power Supply / Charger

Quantity: 1

A standard USB-C power supply is needed to power the setup.

Example on Amazon:

<https://www.amazon.com/2-Pack-Phone-Charger-Charging-Device/dp/B0D99QLKBL>

Firmware Setup

5. Download the "Bear" Firmware

Download the Bear firmware for the ESP32 from GitHub.

At the time of this post, the current version is 2.6.

SkywalkerRoasterLab – Skywalker 1KG:

<https://github.com/matelbear/SkywalkerRoasterLab/tree/f18470bdb065b70d144abd4b7acd7eecf5cb4133/Skywalker%201KG>

6. Install the Firmware

Flash/install the downloaded Bear firmware onto the ESP32-S3-DEVKITC-1.

Once the firmware has been successfully installed, the ESP32 can act as the Bluetooth interface between the Skywalker roaster and HiBean.

HiBean Setup

7. Download and Install HiBean

Download and install the HiBean application on your device.

HiBean:

<https://www.hibean.fun/en/>

After installation, configure HiBean to connect to the ESP32 Bluetooth interface.

Basic Connection Layout

Skywalker PKF-1KG

↓

USB-C Splitter

↓

ESP32-S3 running Bear Firmware

↓ Bluetooth

HiBean

The USB-C power supply provides the additional power required by the setup.

«Note: This is intended as a starting point rather than a complete troubleshooting guide. Hardware and firmware may change over time, so check the SkywalkerRoasterLab repository for newer firmware versions and instructions.»

From DaYeri988

Revision #1

Created 2026-08-14 21:10:39 UTC by Nirecue

Updated 2026-08-14 21:12:03 UTC by Nirecue