

# Banana Pi Cookbook

Ryad El-Dajani



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Over 25 recipes to build projects and applications for multiple platforms with Banana Pi

# **About This Book**

- Design, develop, and customize real-world applications and projects rapidly and easily using Banana Pi
- Quick solutions to the most common real-world problems on the amazing Banana Pi
- Step-by-step recipes to help you experience the vast possibilities of the device by setting up interesting applications

# Who This Book Is For

This book is intended for anybody who wants to learn how they can utilize the capabilities of the Banana Pi to its full potential. It's full of step-by-step guides and detailed descriptions for the whole range of possibilities in a language that is appropriate for computer enthusiasts and experts alike. It would be helpful to have a basic knowledge of Unix-like operating systems or programming, but no prior experience is required as every concept is explained in the appropriate sections.

# What You Will Learn

- Discover how to configure and maintain your Banana Pi device
- Install Android and a Linux-based distribution onto Banana Pi
- Attach external drives to your Banana Pi by using the USB or SATA interfaces
- Share files between your Banana Pi and other devices either in your internal network or over the Internet
- Connect remotely to your Banana Pi using SSH and VNC
- Build simple electrical circuits and connect simple hardware elements such as LEDs, resistors, and buttons to the GPIO pins
- Configure a multimedia center that is able to play high-definition content

# In Detail

Banana Pi is a dual core single board microcomputer like Raspberry Pi but is much faster, more cost-effective, and performs more efficiently than Raspberry Pi.

Banana Pi Cookbook is a practical guide that starts with setting up Banana Pi and moves on to exploring the more advanced capabilities of the device. You will learn to build a decent Linux-based operating system that can resolve common server tasks (Samba, Web, DLNA) and multimedia challenges. Also, you will see how to use the GPIO opportunities by building simple but straightforward circuits.

By the end of this book, you will be an expert in using Banana Pi to deploy a variety of hardware and software applications.

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