

Wireless Hardware

[Overview](#)

[EFR32 Series 1](#)

[Overview](#)

[Application Notes](#)

[EFR32 Series 2](#)

[Overview](#)

[Application Notes](#)

[Modules](#)

[Overview](#)

[Application Notes](#)

[General](#)

[Overview](#)

[Application Notes](#)

[More Documentation](#)

[Silicon Labs](#)

Overview

Overview

EFR32-based SoCs and modules cover plenty of wireless technologies such as 802.15.4, Bluetooth LE, Proprietary, Z-Wave, Wi-Fi, etc. The hardware required for these different technologies is usually similar and the same RF guidelines can be followed regardless of the technology protocol.

The Wireless Hardware section provides RF hardware-related documentation in EFR32 Series 1, EFR32 Series 2, Modules, and General topics.

Overview

Overview

This section provides Wireless Hardware documentation (e.g., Application Notes) for EFR32 Series 1.

Application Notes

EFR32 Series 1 Application Notes

Application Note	Title
AN718	Manufacturing Test Overview
AN923.1	EFR32 Series 1 sub-GHz Matching Guide
AN928.1	EFR32 Series 1 Layout Design Guide
AN930.1	EFR32 Series 1 2.4 GHz Matching Guide
AN933.1	EFR32 Series 1 Minimal BOM
AN958	Debugging and Programming Interfaces for Custom Designs
AN969	Measuring Power Consumption on Wireless Gecko Devices
AN1081	Integrated Passive Devices for EFR32 Series 1 Sub-GHz RF Matching
AN1082	EFR32 Receive and Transmit Current Measurements
AN1180	EFR32 Series 1 sub-GHz Discrete Matching Solutions
AN1146	Johanson 434 MHz IPDs for EFR32 Series 1 Wireless SOCs
AN1147	Murata 434 MHz IPDs for EFR32 Series 1 Wireless SOCs
AN1148	Johanson 868 MHz IPDs for EFR32 Series 1 Wireless SOCs
AN1149	Murata 868 MHz IPDs for EFR32 Series 1 Wireless SOCs

Overview

Overview

This section provides Wireless Hardware documentation (e.g., Application Notes) for EFR32 Series 2.

Application Notes

EFR32 Series 2 Application Notes

Application Note	Title
AN718	Manufacturing Test Overview
AN923.2	EFR32 Series 2 sub-GHz Matching Guide
AN928.2	EFR32 Series 2 Layout Design Guide
AN930.2	EFR32 Series 2 2.4 GHz Matching Guide
AN933.2	EFR32 Series 2 Minimal BOM
AN958	Debugging and Programming Interfaces for Custom Designs
AN969	Measuring Power Consumption on Wireless Gecko Devices
AN1082	EFR32 Receive and Transmit Current Measurements
AN1195	Antenna Array Design Guidelines for Direction Finding
AN1382	RF Performance with Bluetooth Low Energy Simultaneous Scanning

Overview

Overview

This section provides Wireless Hardware documentation (e.g., Application Notes) for EFR32-based modules.

Application Notes

Module Application Notes

Application Note	Title
AN958	Debugging and Programming Interfaces for Custom Designs
AN1048	Regulatory RF Module Certifications
AN1223	LGA Manufacturing Guidance
AN1394	BGM220S Antenna Tuning Guide

Overview

Overview

This section provides general Wireless Hardware documentation (e.g., Application Notes).

Application Notes

General Application Notes

Application Note	Title
AN1088	Designing with an Inverted-F 2.4 GHz PCB Antenna

