

Overview

Redpine Signals' RS13100 WiSeMCU™ family of EVK's provides ultra-low power dual-mode Bluetooth® 5 and up to 180 MHz ARM® Cortex®-M4F application processor with advanced security and a rich set of digital/analog peripherals. The RS13100 provides the necessary wireless connectivity options and processing power for audio, data transfer, locationing and control/monitoring applications for wearable, home automation, industrial automation, lighting and home appliance markets.

Solution Highlights

- Highly integrated and secure solution with dual-mode Bluetooth 5
- Efficient on-chip application processor based on ARM Cortex-M4F with up to 180 MHz performance, up to 4 MB dedicated flash and up to 272 kB of RAM
- Support for BLE 5 long range (125 kbps), high data rate (2 Mbps) and advertising extensions
- Ultra-low power consumption with multiple power modes to reduce the system energy consumption
- Multiple levels of security including PUF (Physically Unclonable Function), Crypto HW accelerators, Secure Bootloader and Secure Zone, to create a highly secure system
- Integrated wireless stacks and profiles for easy evaluation and integration
- Leading edge RF performance (up to 20 dBm output power for BLE and 802.15.4) providing long range up and higher throughputs
- Unique peripherals like ULP sub-system, Voice Activity Detection (VAD) and up to 8 capacitive touch sensor inputs

Evaluation Kit



Evaluation Kit Contents

The RS13100 Evaluation Kit comes with the following components:

Hardware

- SDIO Adapter Cable
- SPI Cable
- 2 Micro A/B-type USB Cable
- RS14100 IO Base Board
- Wireless Daughter Card
- GPIO Header
- JTAG
- Debug Card

Software & Documentation

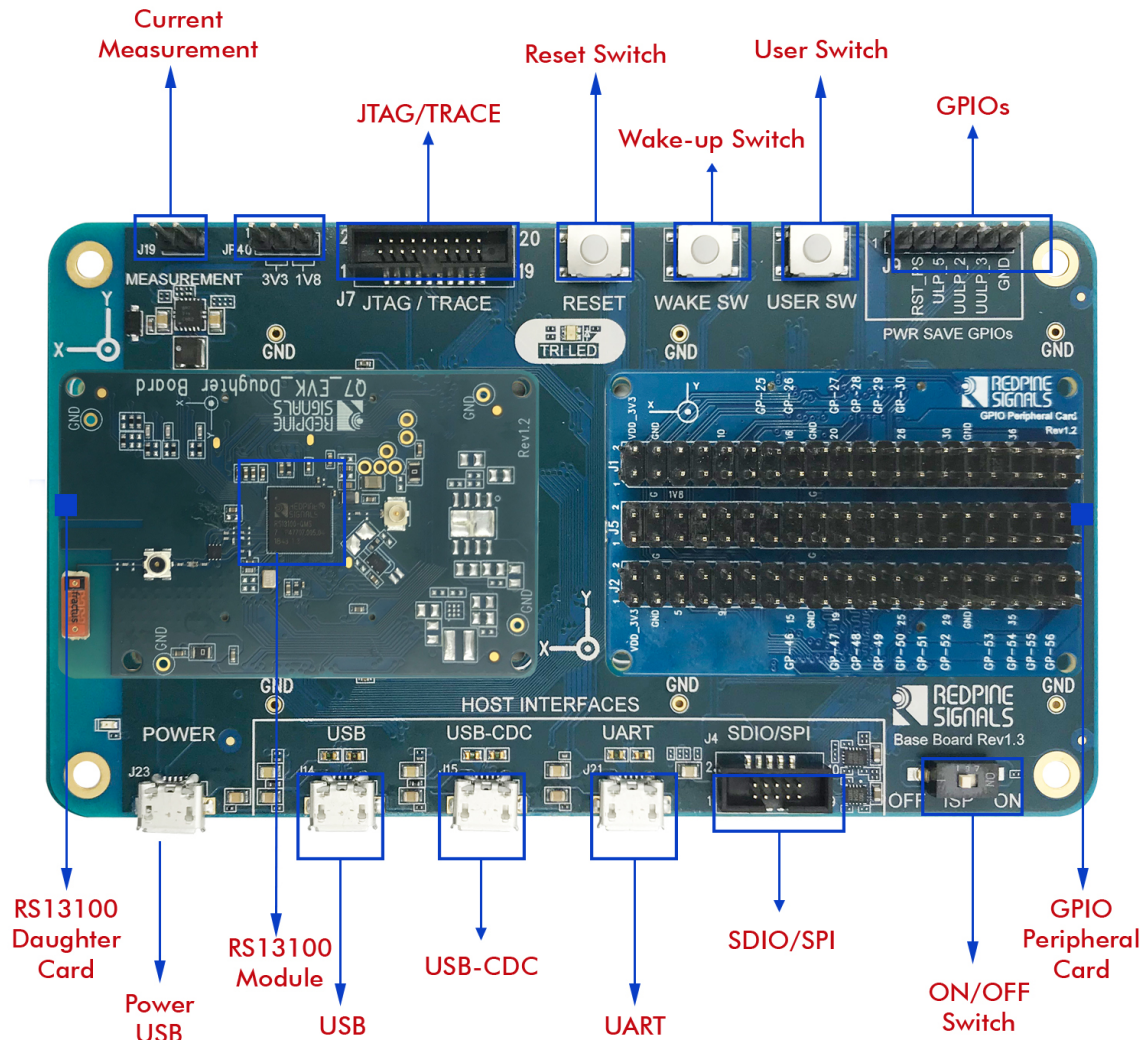
- Wireless Simple APIs (SAPI) based examples
- Open source linux drivers
- Demo examples for faster evaluation

Please login to
www.redpinesignals.com
Software & Documentation.

Ordering Information

- Single band P/N: RS13100-SB-EVK1

Evaluation Board



Redpine Signals, Inc.

2107 North First Street, Suite #540, San Jose, California 95131, United States of America.

Phone: +1-408-748-3385 | Fax: +1-408-705-2019

Email: sales@redpinesignals.com | Website: www.redpinesignals.com



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Silicon Laboratories:](#)

[RS13100-EVK1](#)