

## SDK Overview

The SDK is an extensive software suite for the SR1000 Series UWB transceivers.

It can be used to simplify and accelerate development for applications such as establishing communication links between transceivers for low latency, low power data exchange and time-of-flight ranging.

## SDK Development Environment

### *Toolchain*

Works with GCC for Arm.  
STM32CubeIDE projects available.

### *Quick Start Guide*

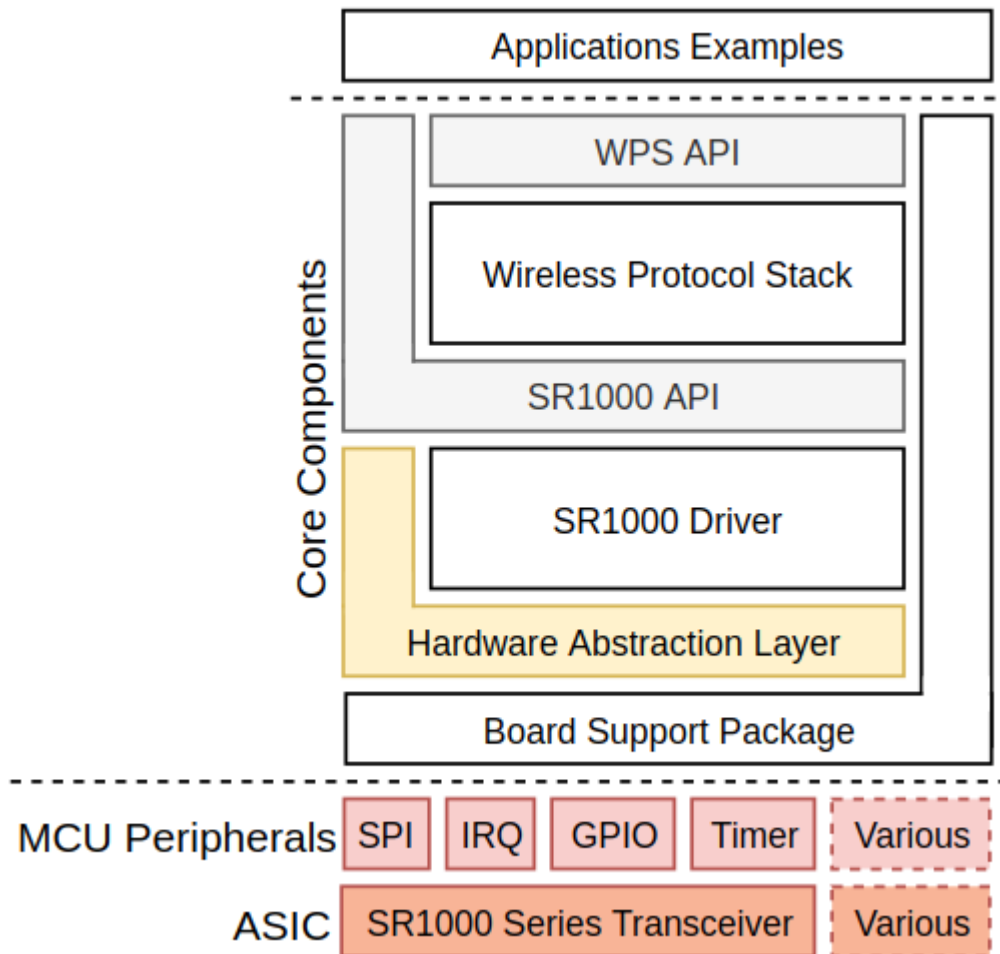
The SDK comes with a user guide and example code to help setup basic applications.

## Features

- SR1000 driver API
- EVK board support
- Wireless Protocol Stack (WPS)
  - Concurrency
  - Channel switching
- Audio
  - Full CD quality
  - Stereo/mono channels
  - Digital volume control
  - Clock drift compensation
  - ADPCM audio compression
  - Low-rate data channel
- Ranging
  - 2-way ranging (TWR)
- Examples: Audio Streaming, Audio Compression, Audio User Data, Ranging, Hello World, Blinky and Star Network

### *Coming soon :*

- *Pairing*
- *DUO board support*
- *High bit-rate audio @ 96kHz*
- *Multicast audio*
- *Radio diversity*
- *WPS integrated ranging*



## About SPARK Microsystems

SPARK Microsystems is a fabless semiconductor company that is leading the way towards ultra-low power wireless communications for the Internet of Things revolution. With its patented technologies, SPARK Microsystems is bringing to market a high-performance wireless transceiver that allows for orders of magnitude improved power consumption and latency while providing higher data rates than competing technologies.

For more information, please visit [www.sparkmicro.com](http://www.sparkmicro.com).

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