

Quick Start Instructions

CC1010DK Development Kit

Introduction

The CC1010 RF transceiver and microcontroller provides a single-chip solution for a wide range of applications. The CC1010DK Development Kit includes what you need to evaluate the RF performance of the CC1010, develop your own software for the CC1010 and can also be used to build a prototype of your application. An evaluation version of the Keil μ Vision 2 C compiler can be downloaded from Chipcon's or Keil's web site.

The Development Kit includes a CC1010EB Evaluation Board and two CC1010EM Evaluation Modules. The CC1010EM contains the CC1010 chip and associated support circuits. The CC1010EM can also operate as a stand-alone component.

The CC1010EB serves as a motherboard for the CC1010EM Evaluation Modules. The CC1010EB provides two serial ports, a parallel interface, buttons, LEDs, a voltage regulator, configuration jumpers and connectors to make it easy to interface the CC1010 with Chipcon's Integrated Development Environment (IDE), SmartRF[®] Studio and various test equipment.

The hardware is documented in the CC1010DK User Manual, the Chipcon-supplied software is documented in the IDE User Manual and the Keil μ Vision 2 compiler has its own documentation. All of this information can be found on Chipcon's web site. Remember to check Chipcon's website regularly for updates to the documentation and software.

Getting started

1. Plug a CC1010EM into the CC1010EB. Connect the CC1010EB to an external power supply. If you are using a 4-10V supply, connect it to the 4-10V and 0V terminals on the power connector. If you are using a 3.3V regulated supply, connect it to the 3V and 0V terminals. Set the voltage selector switch on the CC1010EB to the correct position.
2. If you are going to measure the current consumption of the CC1010, insert an amperemeter between the I_IN and I_OUT terminals of the power connector. If not, make sure that a jumper is inserted between these terminals.
3. Use the supplied parallel cable to connect the CC1010 and a PC together.
4. Make sure that you've installed the IDE software. This can be downloaded from Chipcon's web site. Run the CC1010 Flash Programmer program.
5. Click on the Browse button in the Flash Programmer, and select the adc.hex example program. Click the Do it button.
6. A simple "Hello-world" type program is now running on the CC1010. Turn the potmeter knob to change the speed of the blinking LEDs.
7. You can test the RF performance of the CC1010 by running the supplied SmartRF[®] Studio software. Close down the Flash Programmer and start SmartRF[®] Studio. For details, please see the SmartRF[®] Studio User Manual.

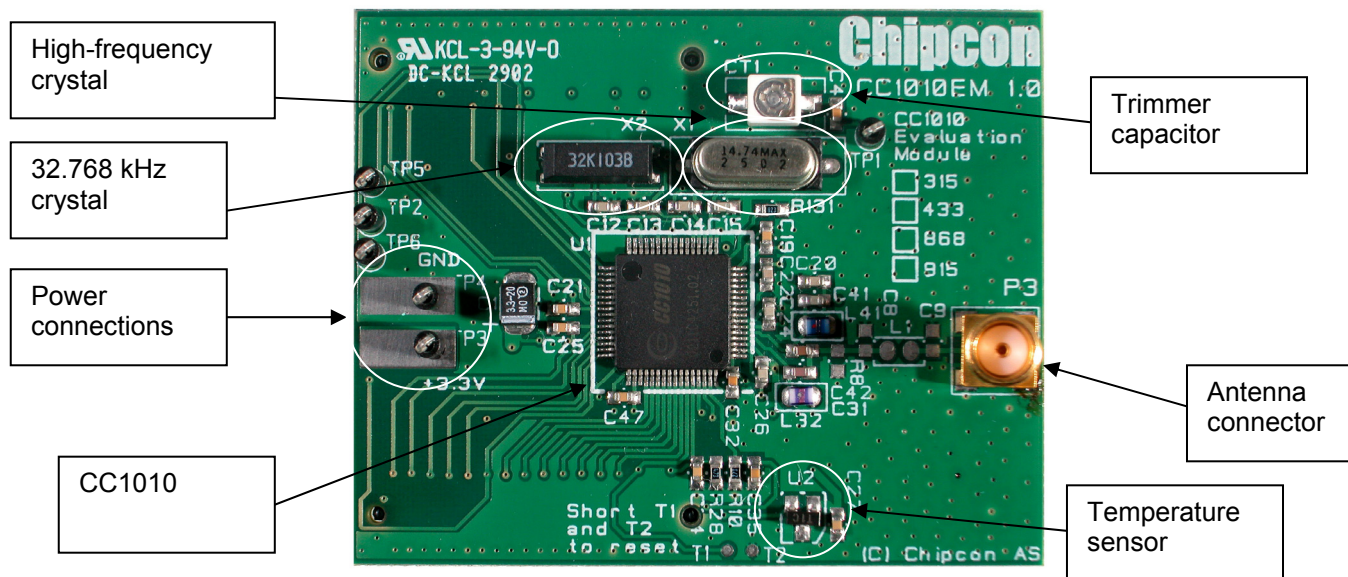


Figure 1: CC1010EM Evaluation Module

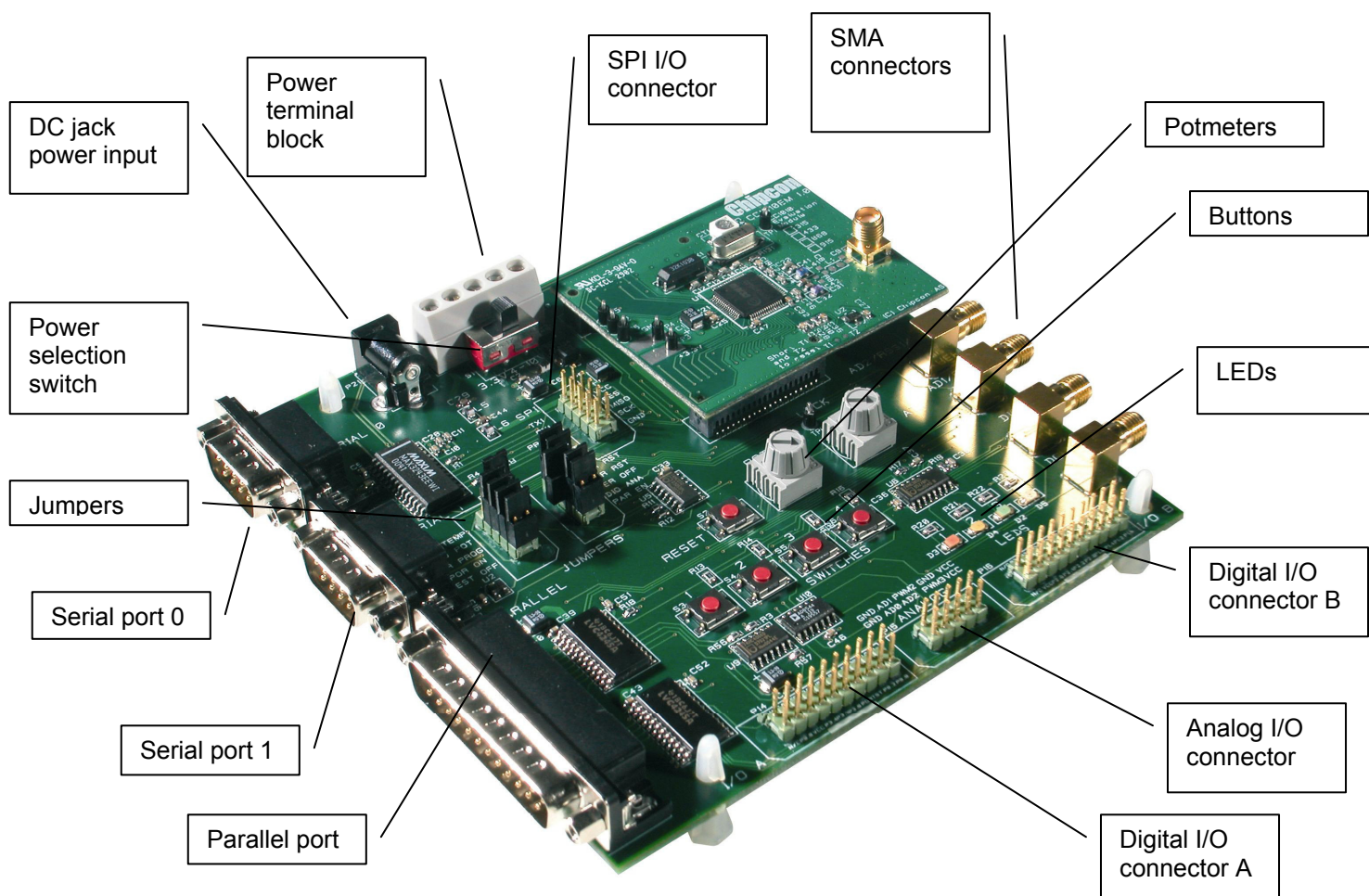


Figure 2: CC1010EB Evaluation Board (with CC1010EM plugged in)