

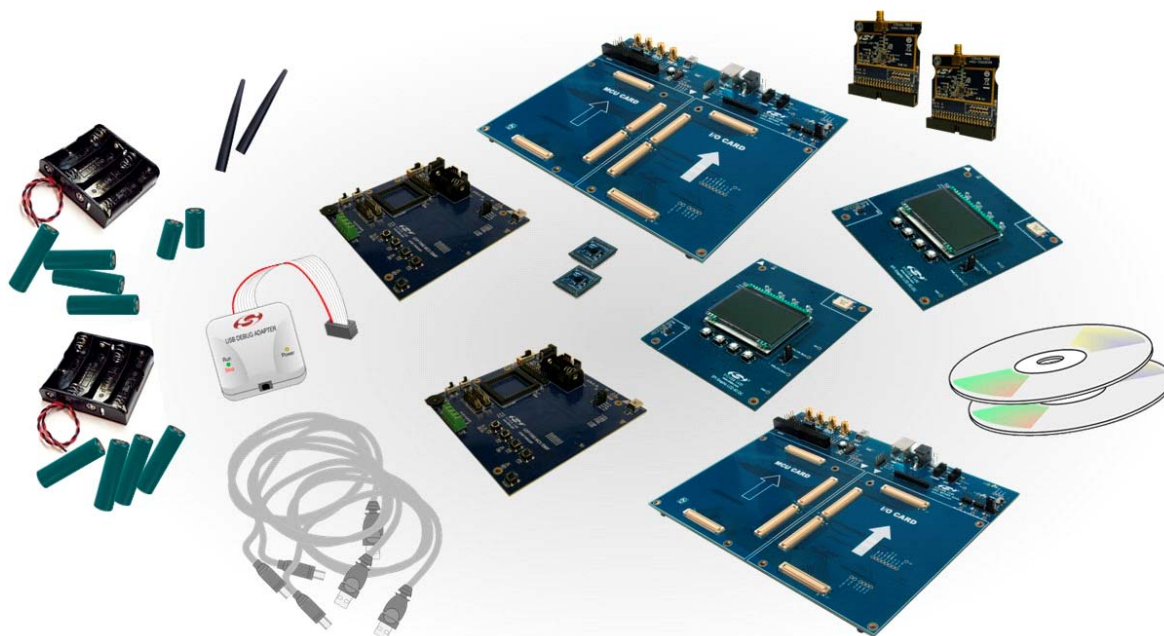
## Si446x DEVELOPMENT KIT QUICK-START GUIDE

### 1. Kit Contents

There are two development kits available for the EZRadioPRO<sup>®</sup> product line: one for 915 MHz and one for 868 MHz. The contents of the kits are listed in Table 1.

**Table 1. EZRadioPRO Development Kit (Si4463-915-DK or Si4461-868-DK)**

Content	Quantity
EZRadioPRO Wireless Test Card (4463-TCE20C915 or 4461-TSQ14D868)	2
UDP Motherboard (UP-BACKPLANE-01)	2
UDP MCU card (UPMP-F960-EMIF)	2
UPPI Pico Board for the MCU Card (UPPI-F960)	2
SPI Graphic LCD I/O Card (UPIO-GLCD-SPI)	2
915/868 MHz Antenna with SMA (ANTENNA-SMA-916)	2
1/2AA Battery (BATTERY-LI-HALFAA)	2
CD for the Si446x EZRadioPRO Wireless IC (CD446x)	1
CD for the KEIL C51 Development Tool (CDKEIL)	1
AA Battery Holder (MSC-DABP-X4)	2
AA Battery	8
USB Debug Adapter (EC3)	1
USB Cable (S-USB2.06-01)	3



**Figure 1. EZRadioPRO Development Kit**

## 2. Hardware Setup

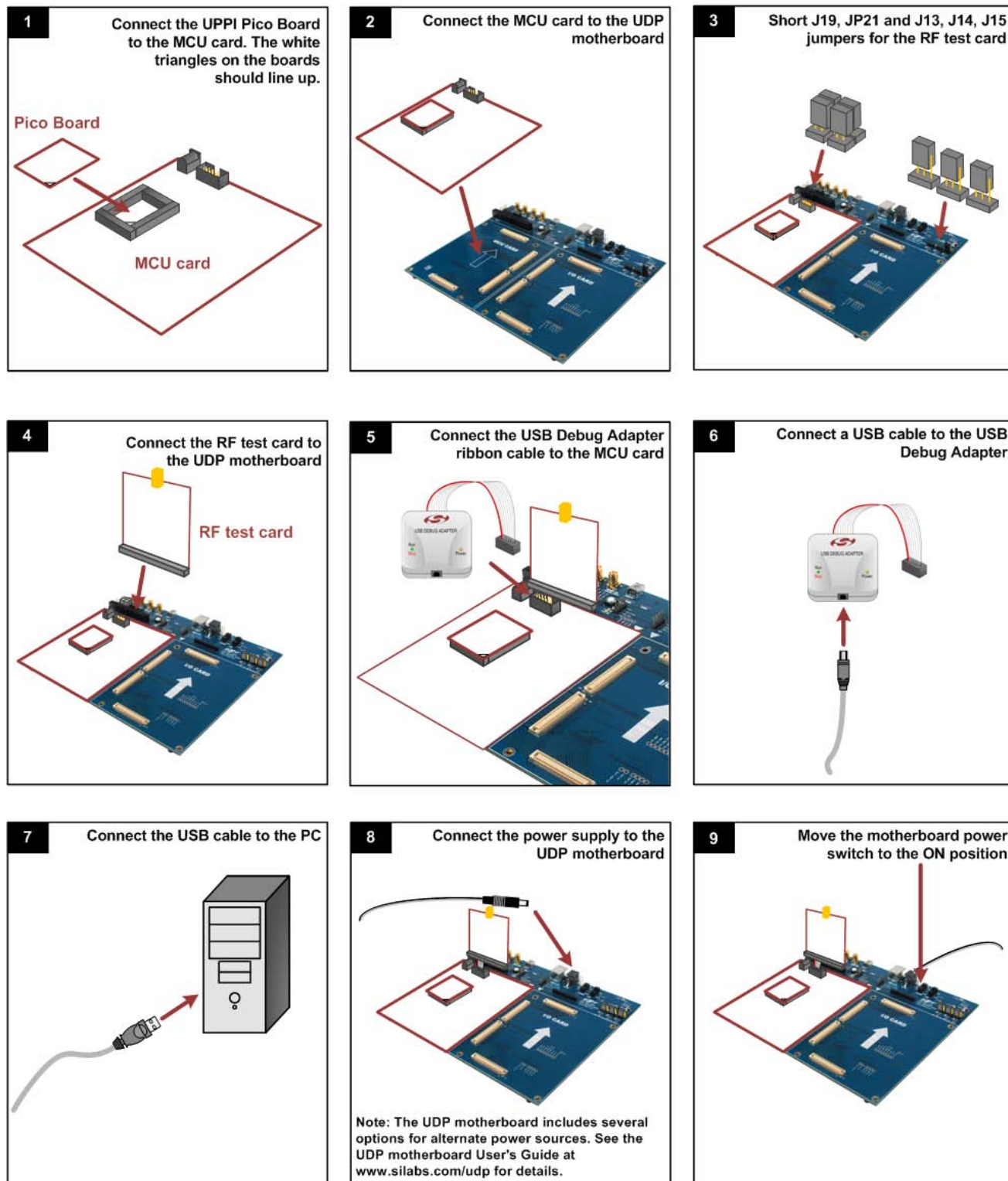
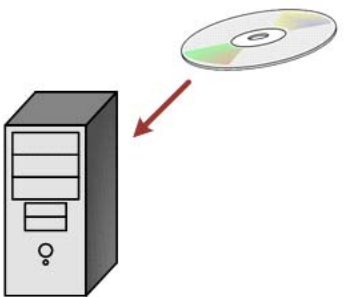



Figure 2. Hardware Setup Steps

### 3. Software Installation

**1** Insert the UDP Development Kit CD in the PC's CD-ROM Drive

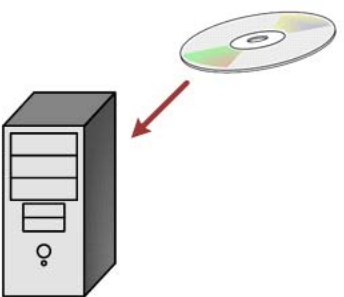


**2** Select "Install Development Tools" from the instruction window and follow the on-screen instructions




**Note:** If autorun does not launch the instruction window, run "SETUP.EXE" directly from the CD.

**3** Insert the EZRadioPRO NG Development Kit CD in the PC's CD-ROM Drive



**4** Browse for "WDS3-Setup.exe" and run it. Follow the on-screen instructions.



**Note:** If you are having any problem during the installation, refer to "WDS user guide for Si4xx6x and Metron" (AN4xx).

Figure 3. Software Installation Steps

## 4. Operation

### 4.1. Lab Measurements

The WDS (Wireless Development Suite) supports the EZRadioPRO products. Along with the HW tools, a variety of controlled lab measurements can be performed with it. For more information, refer to "AN632: WDS User Guide for Si446x and Metron".

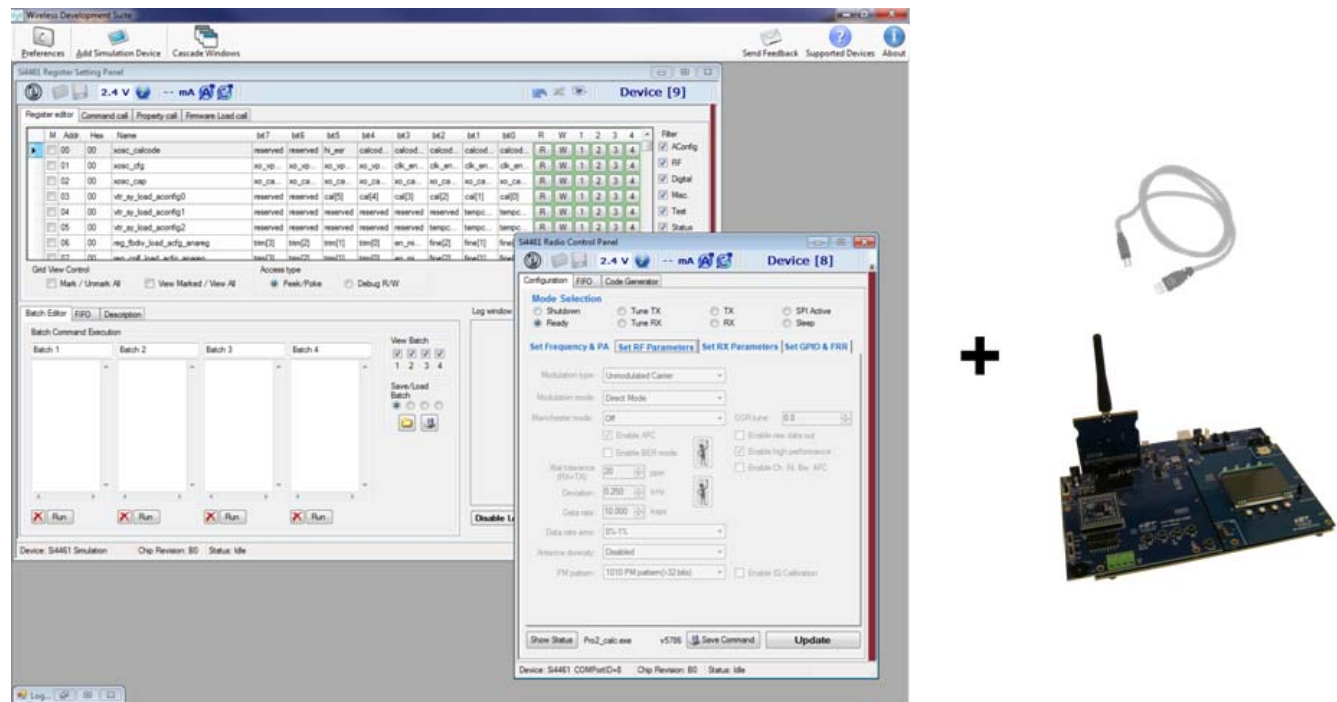
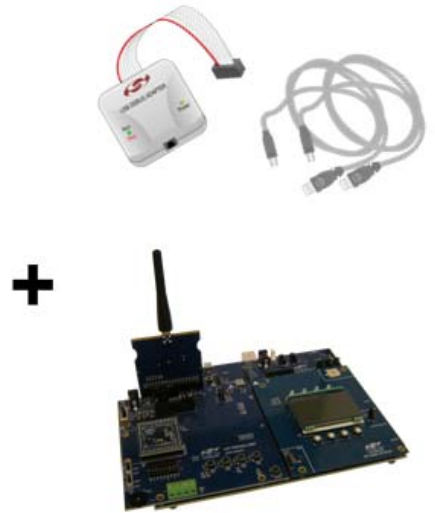


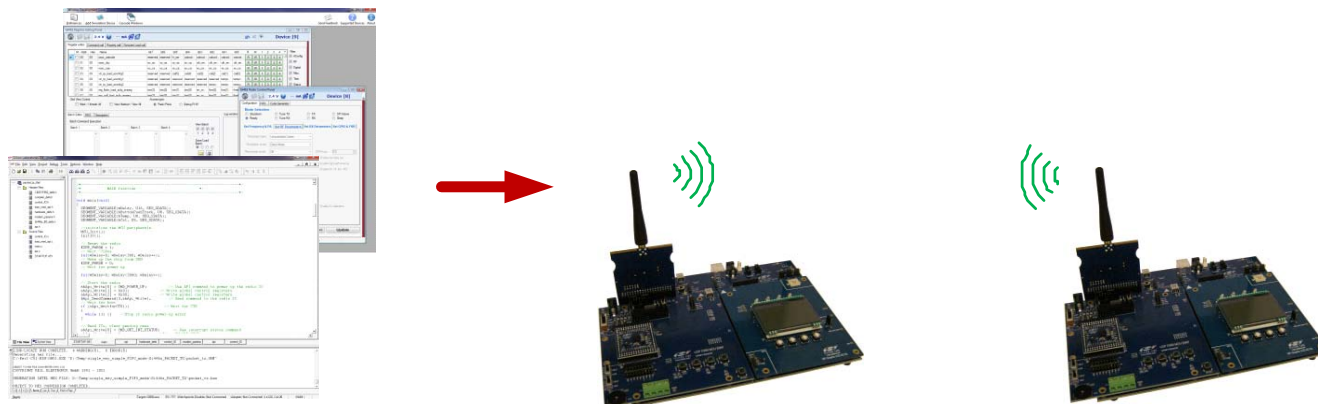
Figure 4. Lab Measurements with WDS





## 4.3. Range Test

In order to conduct range tests, the Radio evaluation demo (PER demo) is provided. It can be downloaded either from WDS or from the IDE. “AN655: Radio Evaluation Demo for the EZRadioPRO” describes the radio evaluation demonstration in detail.



**Figure 6. Radio Evaluation Demo (PER Demo)**

If you are experiencing difficulty installing and/or using the development kit, use the following support resources:

- EZRadioPRO programming, WDS, Antenna, matching design ([www.silabs.com/products/wireless](http://www.silabs.com/products/wireless)).
- UDP Motherboard, MCU card, Pico Board, and I/O card User's Guides ([www.silabs.com/udp](http://www.silabs.com/udp)).
- “AN104: Integrating Keil 8051 Tools Into the Silicon Labs IDE” contains instructions for obtaining the 4 k limited version of the Keil toolset.
- Latest versions of Application Notes can be found at:  
[www.silabs.com/products/wireless](http://www.silabs.com/products/wireless)  
[www.silabs.com/products/microcontroller/applications.asp](http://www.silabs.com/products/microcontroller/applications.asp)
- EZRadioPRO, MCU Knowledgebase (available at [www.silabs.com/support](http://www.silabs.com/support))
- Contact an Applications Engineer using the online information request form (available at [www.silabs.com/support](http://www.silabs.com/support)).

## NOTES:

## CONTACT INFORMATION

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