

Si446X DEVELOPMENT KIT QUICK-START GUIDE

1. Kit Contents

There are two development kits available for the EZRadioPRO[®] 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

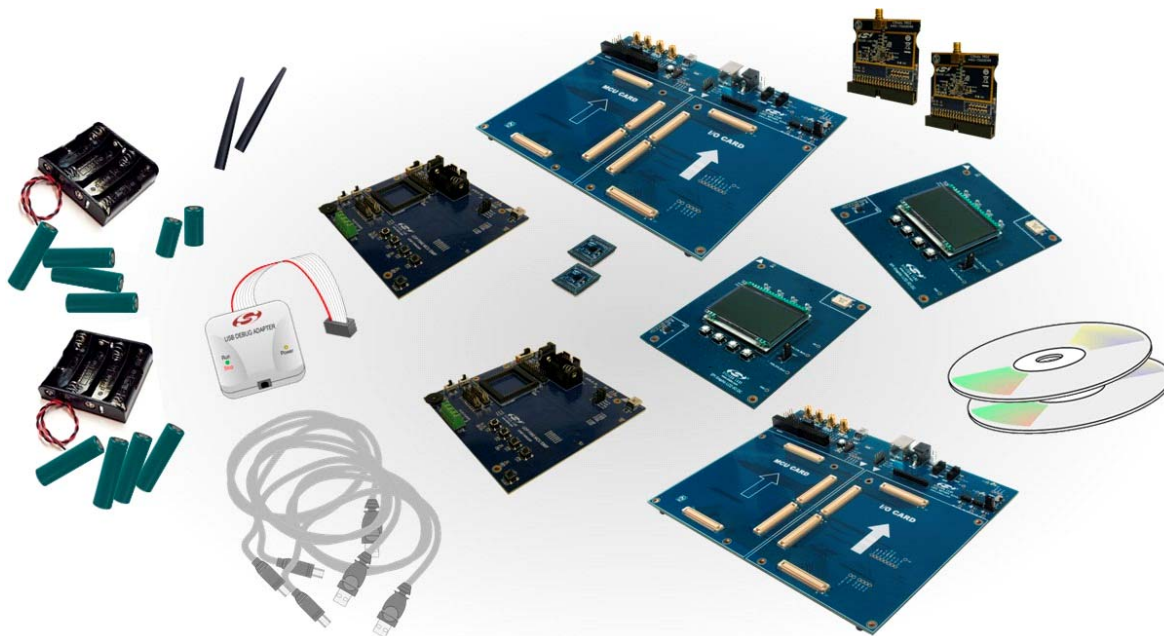


Figure 1. EZRadioPRO Development Kit

Si446x QSG

2. Hardware Setup

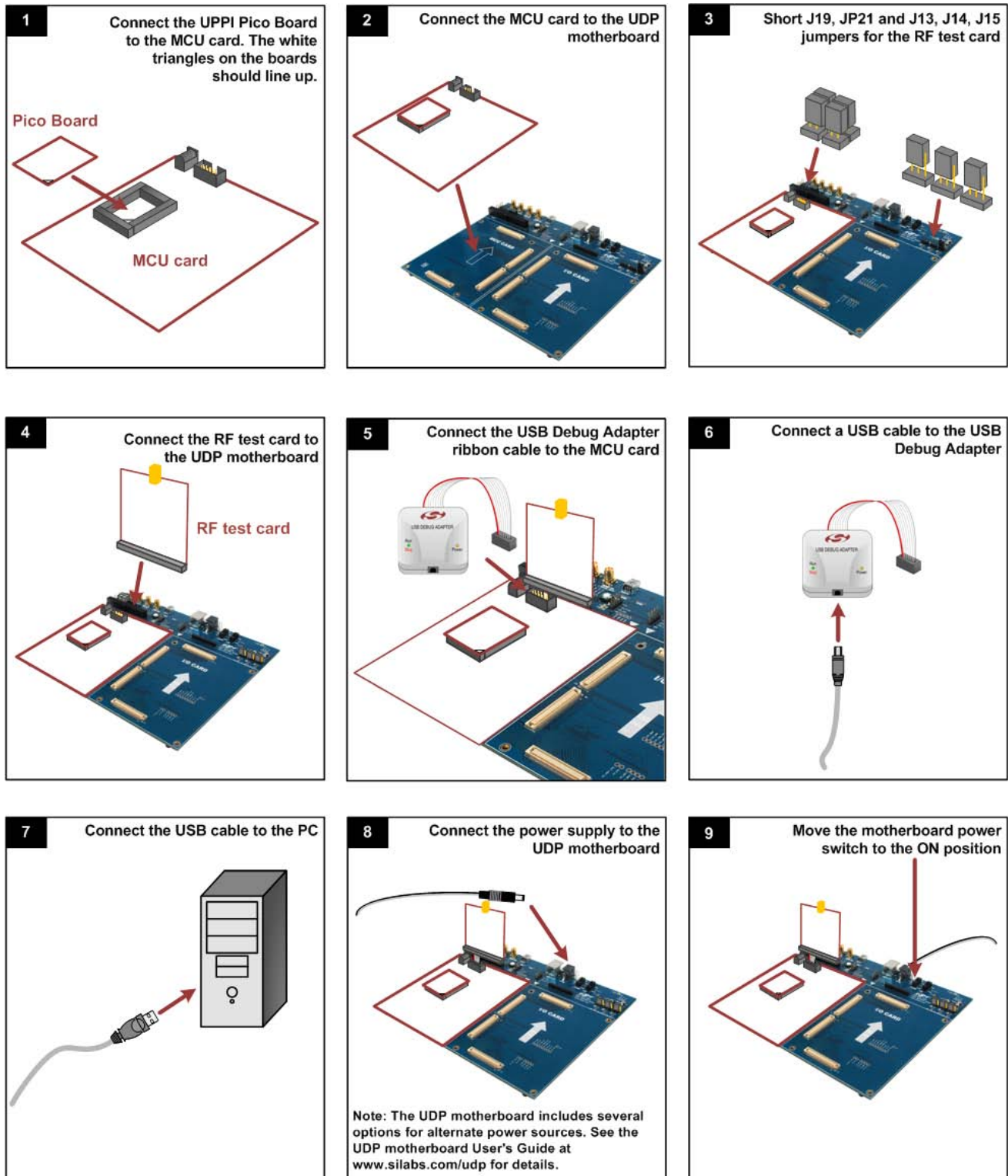


Figure 2. Hardware Setup Steps

3. Software Installation

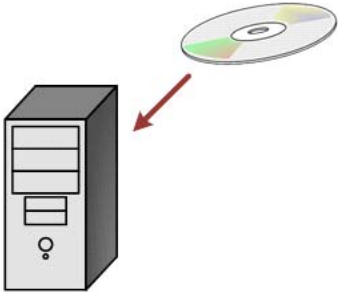

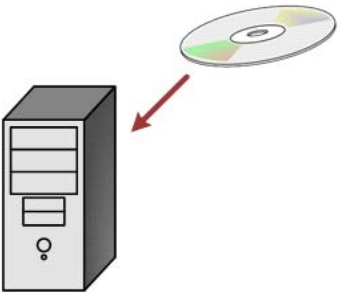

<p>1 Insert the UDP Development Kit CD in the PC's CD-ROM Drive</p> 	<p>2 Select "Install Development Tools" from the instruction window and follow the on-screen instructions</p>  <p>Note: If autorun does not launch the instruction window, run "SETUP.EXE" directly from the CD.</p>
<p>3 Insert the EZRadioPRO NG Development Kit CD in the PC's CD-ROM Drive</p> 	<p>4 Browse for "WDS3-Setup.exe" and run it. Follow the on-screen instructions.</p>  <p>Note: If you are having any problem during the installation, refer to "WDS user guide for Si4x6x and Metron" (AN4xx).</p>

Figure 3. Software Installation Steps

Si446x QSG

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".

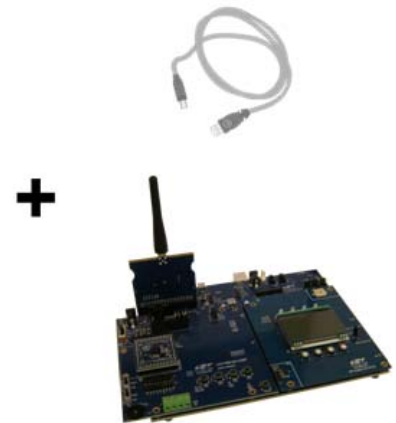
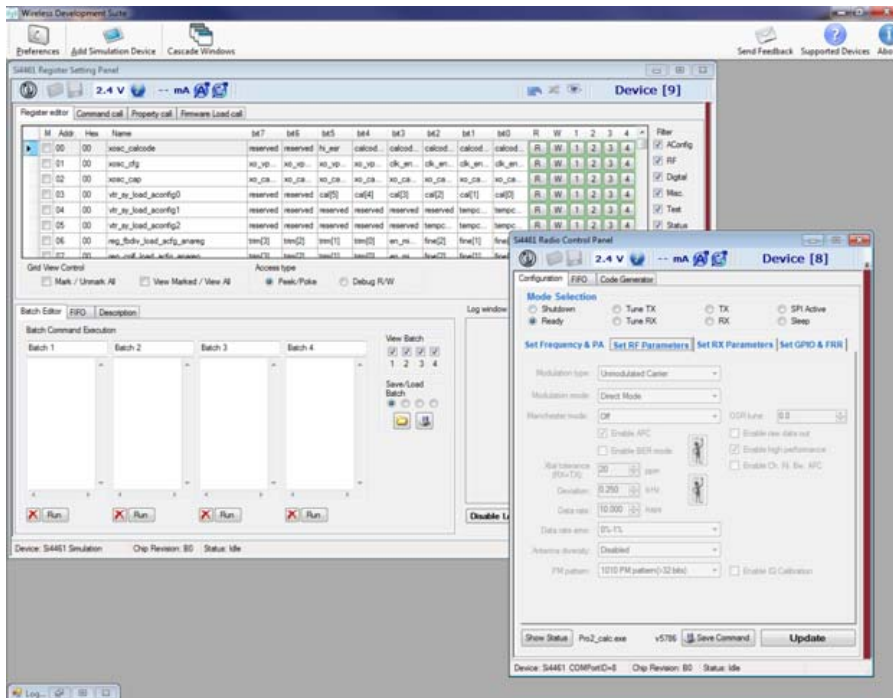


Figure 4. Lab Measurements with WDS

4.2. Software Development

For software development, the Silicon labs IDE can be used. There are sample codes available that show how to use the EZRadioPRO products. The sample codes and details of controlling the radio IC are described in "AN633: Si446x Programming Guide and Sample Codes".

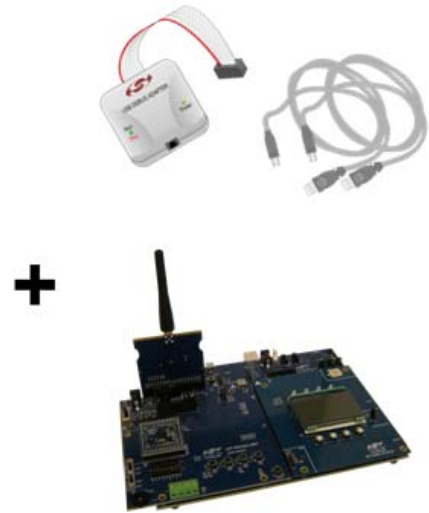
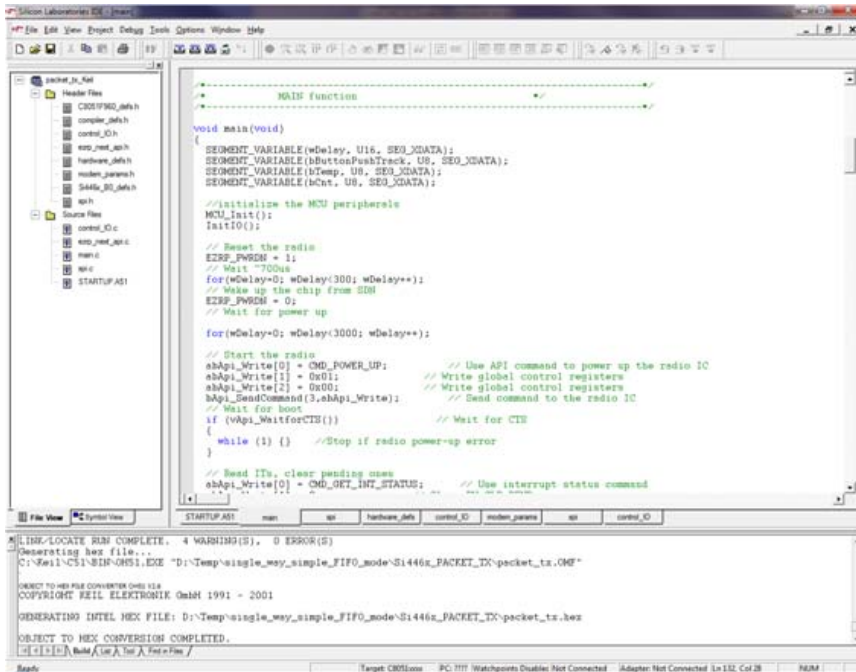


Figure 5. Software Development with the IDE

Si446x QSG

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.

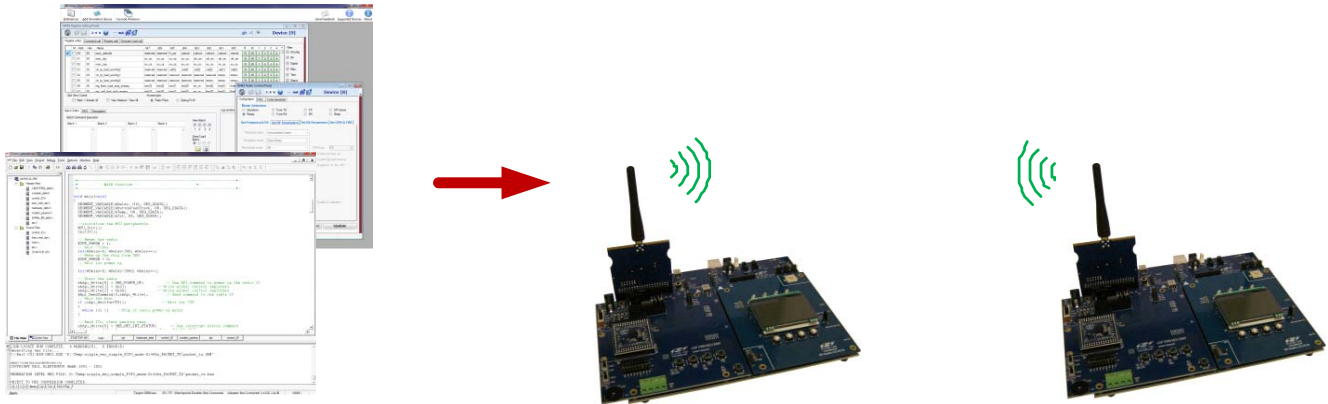


Figure 6. Radio Evaluation Demo (PER Demo)

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).
- UDP Motherboard, MCU card, Pico Board, and I/O card User's Guides (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
www.silabs.com/products/microcontroller/applications.asp
- EZRadioPRO, MCU Knowledgebase (available at www.silabs.com/support)
- Contact an Applications Engineer using the online information request form (available at www.silabs.com/support).

NOTES:

CONTACT INFORMATION

Silicon Laboratories Inc.

400 West Cesar Chavez
Austin, TX 78701
Tel: 1+(512) 416-8500
Fax: 1+(512) 416-9669
Toll Free: 1+(877) 444-3032

Please visit the Silicon Labs Technical Support web page:
<https://www.silabs.com/support/pages/contacttechnicalsupport.aspx>
and register to submit a technical support request.

The information in this document is believed to be accurate in all respects at the time of publication but is subject to change without notice. Silicon Laboratories assumes no responsibility for errors and omissions, and disclaims responsibility for any consequences resulting from the use of information included herein. Additionally, Silicon Laboratories assumes no responsibility for the functioning of undescribed features or parameters. Silicon Laboratories reserves the right to make changes without further notice. Silicon Laboratories makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Silicon Laboratories assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Silicon Laboratories products are not designed, intended, or authorized for use in applications intended to support or sustain life, or for any other application in which the failure of the Silicon Laboratories product could create a situation where personal injury or death may occur. Should Buyer purchase or use Silicon Laboratories products for any such unintended or unauthorized application, Buyer shall indemnify and hold Silicon Laboratories harmless against all claims and damages.

Silicon Laboratories and Silicon Labs are trademarks of Silicon Laboratories Inc.
Other products or brandnames mentioned herein are trademarks or registered trademarks of their respective holders.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.