

# WirelessUSB™ LP Evaluation Kit (CY3630) 2.4GHz Wireless Platforms - Delivered



When the time comes to go wireless, only Cypress's WirelessUSB LP 2.4GHz radio system on chip (SoC) delivers the robustness and ease of use needed to Cut the Cord™. And there's no easier way to discover WirelessUSB LP's wealth of features than the **WirelessUSB LP Evaluation Kit (EVK)**. The EVK showcases the advanced features of WirelessUSB LP, such as Auto Transaction Sequencer, AutoRate™ receiver, high data rate with DSSS, and low power. The EVK is loaded with customer-friendly features like firmware demos, tutorials, multi-configuration MCU slots, large prototyping area, radio modules and MCU programming hardware, all of which provide a flexible and high performance platform for developing 2.4GHz wireless applications.

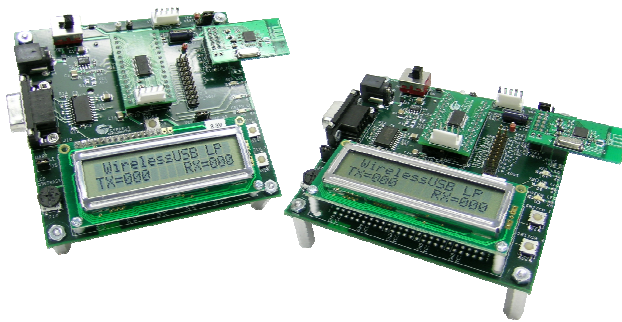


FIGURE 1. WirelessUSB LP EVK Platform boards with radio and LCD modules

## Applications

Wireless Keyboards and Mice  
Wireless Gaming Devices  
Presenter Tools  
Remote Controllers  
VoIP and Wireless Headsets

Consumer Electronics  
Home Automation  
White Goods  
Toys  
Personal Health & Entertainment

## A Complete Suite of Development Tools

In addition to the EVK, Cypress provides a complete line of value-add kits to simplify design and reduce time to market for WirelessUSB LP applications.

<b>CY3630M WirelessUSB LP Radio Modules</b>	Pack of 4 socketed WirelessUSB LP radio modules for evaluation and prototyping. \$99.
<b>CY4636 Keyboard-Mouse Reference Design Kit (RDK)</b>	Complete reference design for building a wireless keyboard and mouse solution based on WirelessUSB LP. Includes schematics, layout, firmware, and demo units. \$199.
<b>CY3631 Manufacturing Test Kit (MTK)</b>	An industry first, the MTK is an automated RF test platform providing a cost-effective method of early detection of assembly level failures. \$895. <b>Available now.</b>
<b>CY3636 Development Kit (DVK)</b>	Powered by the general purpose protocol, enables the development of sophisticated wireless applications. Includes platform boards, radio modules, and detailed documentation. <b>Available Q3'06.</b>

## FEATURES

- Easy hardware prototyping through flexible platform boards
- Evaluation boards are small and can be battery powered for portability during evaluation and demonstration
- Included radio modules enable prototyping and evaluation of wireless communication with zero RF board design
- Fast track learning provided with four firmware tutorials, a wireless range demo, and thorough documentation
- Integrated switches and LEDs enable quick "buttons and lights" projects
- Integrated LCD modules provide text display feedback during evaluation and demonstration
- Multi-configuration MCU sockets can accommodate a wide variety of Cypress MCUs and adapter modules, including the Wireless enCoRe™ II family and PSoC mixed signal array
- Conveniently includes all components necessary for evaluation, demonstration, and development
- Attractively priced at \$250, and available through Cypress distributors and Online Store



# WirelessUSB LP Evaluation Kit (EVK)

## Kit Contents

- **WirelessUSB EVK Platform Boards (2)** – General purpose evaluation platform board including power supply options, breadboard area, radio and LCD module connectors, and a multi-purpose MCU socket that can accommodate the CY8C27000 and CY8C29000 PSoC devices directly, as well as variety of MCU adapter modules for the Wireless enCoRe II family of devices.
- **Socketed CY7C60323 MCU Adaptor Module (2)** – Contains a Wireless enCoRe II MCU and plugs into the multi-purpose MCU socket on the platform board in order to control platform board functions and WirelessUSB LP radio operations.
- **Socketed CY7C60323 Emulation Module (1)** – Allows in-circuit emulation of Wireless enCoRe II, for use with the Cypress ICE Cube tool (supplied separately).
- **Socketed WirelessUSB LP Radio Modules (2)** – Complete plug-in radio modules with integrated RF passives and antenna for simple evaluation and prototyping.
- **3.3v LCD Modules (2)** – Displays application data providing text feedback to simplify evaluation and enable effective demonstrations.
- **MiniProg Programmer (1)** – Portable device that connects to PC via a USB cable for in-system serial programming (ISSP) of Cypress Flash MCUs.
- **RS232 Cable (1)** – Provides real-time serial debug connectivity to a PC
- **Multiple power supply options** – External power adapter, 2 AAA, or 9V battery



FIGURE 2. WirelessUSB LP EVK contents including platform board, MiniProg, modules, batteries, and adapter

## HIGHLIGHTS

### Fast Track Learning

Four tutorials provide incremental learning to the user. Each tutorial builds upon the features and training from the prior tutorial:

- Tutorial 1: Introduces basic features and ease of use for WirelessUSB LP via direct radio operation. Demonstrates a simple buttons and lights project
- Tutorial 2: Familiarizes the user with basic features of the provided firmware radio driver, and demonstrates the buttons and lights application utilizing the driver
- Tutorial 3: Showcases the low power consumption of the radio by simulating a real world HID application example using additional radio driver features
- Tutorial 4: Demonstrates packet retries, and provides real time debugging capabilities by adding UART support

### Wireless Range Demo

The included range demo firmware showcases the RF robustness of Wireless USB LP (works reliably at 10m in a hostile RF environment)



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