



Release Notes

CY4636 WirelessUSB™ LP Keyboard Mouse Reference Design Kit

Release Date, April 3, 2012

Thank you for your interest in the CY4636 WirelessUSB™ LP keyboard mouse reference design kit (RDK). This document lists kit contents, installation system requirements and recommendations, limitations and known issues, and links for updates, support, and additional information.

System Requirements and Recommendations

Hardware/Operating System Requirements	Minimum	Recommended
Processor speed	1 GHz	2 GHz
RAM	1 GB	2 GB
Free hard drive space	800 MB	1 GB
Screen resolution	1024x768	1280x1024
CD/DVD drive	✓	✓
USB	Full Speed	2.0 Hi-Speed
XP (SP2 or higher), Vista, or Windows 7	✓	✓
Software Prerequisites	Minimum	Recommended
Microsoft Internet Explorer	7	Latest
Adobe Reader (for PDF documentation)	6	9+
Windows Installer	3.1	
.NET Framework	2.5	
PSoC Programmer	3.14	Latest
PSoC Designer™	5.2 SP1	Latest

Installation

To install, insert the kit CD/DVD into your PC's CD/DVD-ROM drive. If the installer does not start automatically, run *cyautorun.exe* in the root directory of the CD. Follow the installation instructions.

Updates

Go to <http://www.cypress.com/go/CY4636> for the latest software downloads and documents.



Notes

RDK Bridge:

1. Encrypt Build

The *encrypt.c* file is necessary for this build, which is not included in the shipping CD/DVD. Contact [Cypress Applications support](#) to get this file. After receiving this file, copy it to the directory: <Installed Directory>\Cypress\CY4636 WirelessUSB LP RDK\<<ver>\Firmware\LP_RDK_Bridge.

For the encrypt build, define the following value in the *config.h* file:

- ENCRYPT_DATA

RDK Keyboard:

1. Encrypt Build

The *encrypt.c* file is necessary for this build, which is not included in the shipping CD/DVD. Contact [Cypress Applications support](#) to get this file. After receiving this file, copy it to the directory: <Installed Directory>\Cypress\CY4636 WirelessUSB LP RDK\<<ver>\Firmware\LP_RDK_Keyboard\LP_RDK_Keyboard.

For the encrypt build, define the following value in the *config.h* file:

- ENCRYPT_DATA

Kit Revision – New Feature

In Revision *C, the code examples are updated to support the latest version of PSoC Designer.

Limitations and Known Issues

1. When the mouse or keyboard is pressed to wake up a Windows 2000 system, the system wakes up but the monitor may not come on until the mouse or keyboard is pressed a second time (after the system is awake).
2. The RDK is susceptible to zero length packets. Therefore, Cypress recommends that you do not use zero length packets in an application as the receive process may lock up, causing the watchdog timer to reset the processor. It is preferable to keep the watchdog timer enabled when an erroneous zero length packet is received. Future kit firmware revisions will manage this condition.
3. The PMU components used in the keyboard do not support the load of the keyboard at battery voltages below 1.9 V. To fully use the battery to 1.8 V, high efficiency PMU components should be chosen. Refer to the mouse design schematic and BOM for an example of the high efficiency PMU components.

Documentation

Kit documents are located in the \Documentation folder in the default install location:

<Installed Directory>\Cypress\CY4636 WirelessUSB LP RDK\<<ver>\Documentation

Documents include:

- CY4636 RDK_User_Guide.pdf
- CY4636 RDK_Quick_Start_Guide.pdf
- CY4636 RDK_Release_Notes.pdf
- CY4636 RDK_Product_Brief.pdf
- CY4636 RDK_LP_Radio_Driver_Documentation.pdf



Silicon Errata

To access the latest versions of the silicon errata, visit <http://www.cypress.com/psoc> and navigate to Errata.

Technical Support

For assistance, go to <http://www.cypress.com/go/support> or contact our customer support at +1(800) 541-4736 Ext. 8 (in the USA), or +1 (408) 943-2600 Ext. 8 (International).

Additional Information

- For more information about PSoC Designer functionality and releases, review the user guide and release notes on the PSoC Designer web page: <http://www.cypress.com/go/psocdesigner>
- For more information about PSoC Programmer, supported hardware, and COM layer, visit the PSoC Programmer web page: <http://www.cypress.com/go/psocprogrammer>
- For a list of trainings on PSoC Designer, visit <http://www.cypress.com/?rID=40543>



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