Release Notes
CY4605 EZ-USB® HX2LP™ Reference Design Kit
Version *A, Release Date: March 16, 2012

Thank you for your interest in the CY4605 EZ-USB® HX2LP™ Reference Design Kit (RDK). This kit provides a reference board and documentation to evaluate, design, and manufacture low-power USB 2.0 hubs using the EZ-USB HX2LP hub controller family.

Overview

Cypress’s CY4605 EZ-USB HX2LP RDK board is a tool to demonstrate the features of EZ-USB HX2LP (CY7C65620/CY7C65630). Both CY7C65620 and CY7C65630 are identical in every aspect except for the number of ports they support. The term HX2LP refers to both the chipsets unless stated explicitly. The EZ-USB HX2LP implements a fixed-function hub functionality between one upstream USB port and two or four downstream ports. The HX2LP RDK is based on the 56-pin QFN CY7C65620/CY7C65630. Both are single transaction translator (1TT) hubs. In the initial phase of the design, this board helps developers to understand the chip features and limitations before proceeding with a complete design. The RDK includes documents related to board hardware, PC application software, and the EEPROM configuration data (.iic) files.

System Requirements and Recommendations

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<thead>
<tr>
<th>Hardware/Operating System Requirements</th>
<th>Minimum</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor speed</td>
<td>1 GHz</td>
<td>2 GHz</td>
</tr>
<tr>
<td>RAM</td>
<td>1 GB</td>
<td>2 GB</td>
</tr>
<tr>
<td>Free hard drive space</td>
<td>800 MB</td>
<td>1 GB</td>
</tr>
<tr>
<td>Screen resolution</td>
<td>1024x768</td>
<td>1280x1024</td>
</tr>
<tr>
<td>CD/DVD drive</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>USB host controller (full-speed or high-speed)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Windows XP (SP2 or higher), Vista, or Windows 7</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

Software Prerequisites

<table>
<thead>
<tr>
<th>Minimum</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adobe Reader (for PDF documents)</td>
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<td>Microsoft Internet Explorer</td>
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Kit Contents

The CY4605 kit contains:

- CY4605 HX2LP 2-port hub DVK
- 5-V power supply
- USB A to B cable
- Kit CD/DVD with documentation and manufacturing utilities

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/DVD. Follow the installation instructions.
Updates


Documentation

Kit documents are located in `\Documentation` folder. The following documents are available:

- CY4605 EZ-USB® HX2LP™ Reference Design Kit Quick Start Guide
- CY4605 EZ-USB® HX2LP™ Reference Design Kit User Guide
- CY7C656xx data sheet
- CY7C656xx chip errata
- Application Notes:
  - Bus-powered USB hub design using EZ-USB HX2LP(TM) - AN15454
  - Migrating from EZ-USB(R) HX2(TM) to EZ-USB HX2LP(TM) - AN5038
  - Single versus multiple transaction translator - AN1071

Silicon Errata

Go to [http://www.cypress.com/?rID=14346](http://www.cypress.com/?rID=14346) for the most up-to-date versions of the silicon errata.

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