



CY4632 Reference Design Kit Release Notes

Overview

The CY4632 Reference Design Kit provides the developer with the necessary intellectual property to build a wireless keyboard and mouse using the CYWUSB6934 WirelessUSB LS 2.4 GHz Radio silicon.

Comments

1. The mouse has been programmed for a 10 second optical timeout and a sleep algorithm that uses optical LED pulsing to reduce power consumption. The mouse is programmed for 800 cpi operation.
2. This reference design will operate with standard Windows USB HID class drivers and does not require any custom software. The CD included with the kit contains support information and optional Battery Level and Link Quality monitoring software.
3. The bridge will work with Mac environments but requires version 10.3 of the Mac OS.
4. Mouse performance may be degraded on dark surfaces. A light colored surface is recommended for optimal mouse operation.
5. The keyboard may bring certain Gateway computers out of standby even though this option may not be enabled in the keyboard settings.
6. Plugging the bridge into some computers running Win2K may result in a prompt to reboot the system. This is not necessary and the prompt can be canceled.
7. Battery level and link quality monitoring requires additional protocol overhead and reduces battery life on the keyboard and mouse. Removing battery level and link quality reporting will slightly improve battery life.
8. The Battery Level and Link Quality application currently supports Win2K and WinXP only.
9. Platforms running Windows ME may experience a delay while the OS loads the appropriate drivers when the bridge is inserted for the first time.
10. Please contact Cypress Applications for updated Battery Level and Link Quality application source code at www.cypress.com/support.
11. The default build of the 1.3 version of the RDK utilizes an updated protocol that is not compatible with RDK versions earlier than 1.2. The updated protocol allows multiple devices of the same type to be connected (bound) at the same time. The code can be built to be compatible by removing the "PROTOCOL_1_1" define.
12. Both 28SOIC and 48QFN footprints are included in the hardware files. The 28SOIC footprint was included because the CY4632 mouse and keyboard currently use the 28 SOIC CYWUSB6934 devices. Cypress highly recommends all new designs use the 48QFN device, as Cypress will be phasing out the 28SOIC device. Please refer to the QFN-version of the files for a layout example.
13. Refer to the Bridge schematics notes for additional details on the Bridge circuit design.
14. The warning messages enabled by the "Enable warning messages" check box in Battery Level and Link Quality application are not supported in Windows ME/98.
15. The Battery Level and Link Quality application utilizes a fixed font.
16. The Link Quality value displayed by the Battery Level and Link Quality application may not be valid when the bridge is touching a WIFI transmitter. If this occurs move the bridge away from the transmitter.

Revision History

Revision	Date Issue	Change
1.3	October 22, 2004	Updated Release