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Agilent ADNK-2623 Optical Mouse Designer's Kit

Product Overview

Description

Agilent Technologies and Cypress Semiconductor have once again collaborated efforts to produce a new optical mouse reference design kit. Based on the new compact Agilent ADNS-2620 optical mouse sensor and the powerful Cypress CY7C63723 enCoRe™ USB microcontroller, this reference design kit provides a low cost and yet, feature-rich solution in one neat package.

The Agilent ADNS-2620 optical mouse sensor is a new small form factor, entry-level sensor built with performance features. This part enables more compact designs and performance enhancements. Housed in an 8-pin package, this sensor has programmable features such as frame speeds (from 500 to 2300 fps), automatic power conservation when idle, and LED strobing for lower power consumption, enhancing navigation performance. With an open serial interface, it can communicate with most common microcontrollers.

The Cypress enCoRe CY7C63723 is a revolutionary chip that integrates numerous common components, including breakthrough crystal-less oscillator. The result is an overall reduction in board components and reduced system cost. The EPROM based microcontroller allows easy firmware modification, as well as storage of Vendor and Product ID™s without an external EEPROM.

This kit is connectable to a PC via the USB or PS/2 ports. A single cable with a USB connector and a PS/2 adapter is also provided. The design automatically detects the type of interface is attached, allowing further development of a USB or PS/2 only mouse.

Features

- **Complete optical mouse reference design kit**
- **New Agilent ADNS-2620 optical mouse sensor**
- **Precise optical navigation technology for smoother and accurate surface navigation**
- **No mechanical moving parts for easy maintenance and high reliability**
- **Programmable frame speed up to 2300 frames per second (fps)**
- **High speed motion detector with accurate motion up to 12 inches-per-second (ips) and 400 counts-per-inch (cpi) resolution**
- **Open serial interface for communication with microcontrollers**
- **Power conservation mode during times of no movement**
- **Serial port registers for programming and data transfer**
- **Cypress enCoRe™ CY7C63723 USB controller**
- **USB and PS/2 interface combination for PC connection**
- **Proprietary 8-bit RISC processor, USB and PS/2-optimized interfaces for high system performance**
- **8K Bytes of internal EPROM provided to enable easy customization of firmware and lower cost**
- **Conforms to USB suspend mode specifications**

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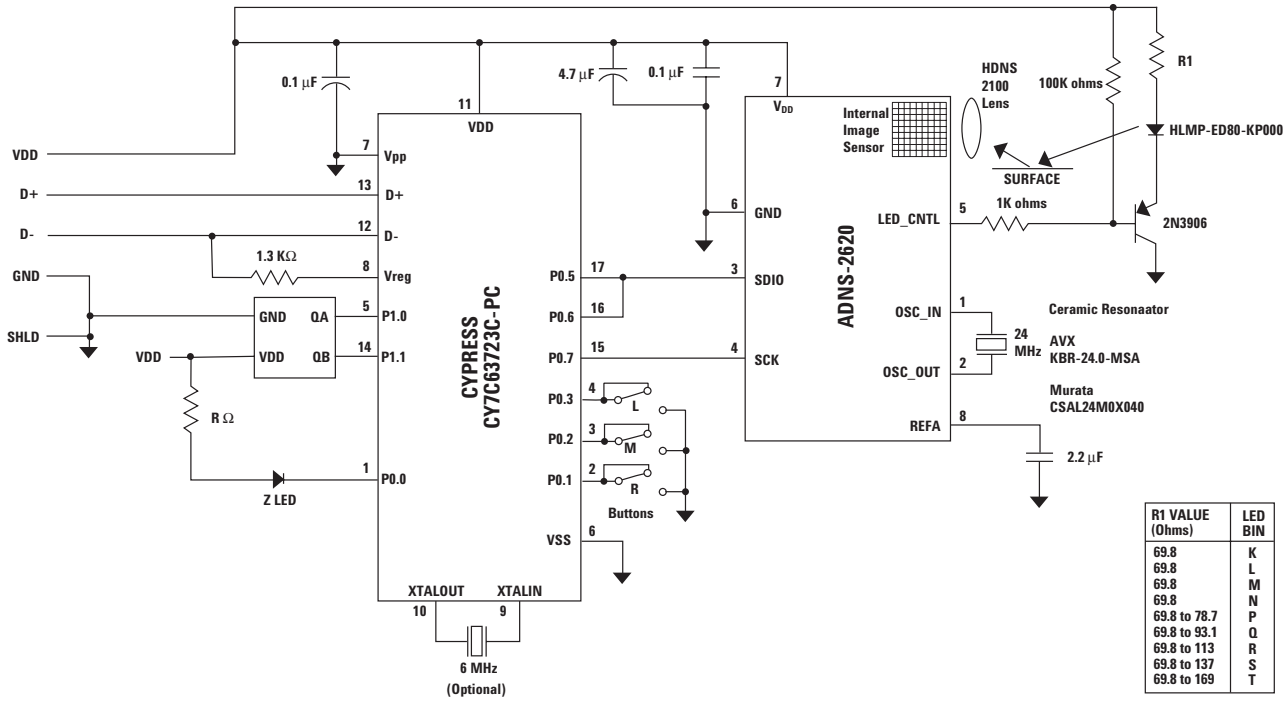

Figure 1. Circuit block diagram for ADNK-2623 designer's kit optical mouse using the Agilent ADNS-2620 optical mouse sensor and Cypress CY7C63723 enCoRe Controller.

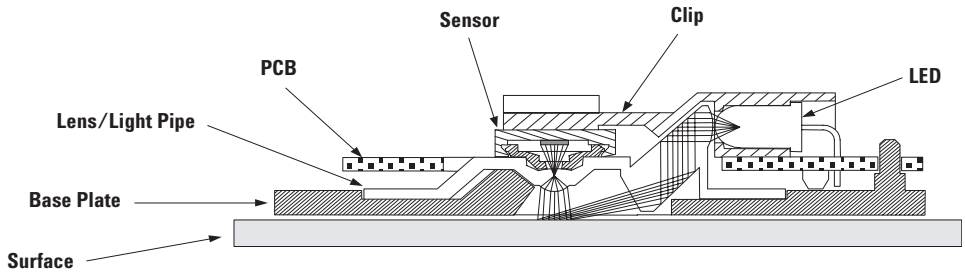

Figure 2. Sectional view of PCB assembly highlighting optical mouse components (optical mouse sensor, clip, lens, LED, PCB and base plate).

Kit Components

This designer's kit contains the following components:

Part Number	Description	Name	Quantity
ADNK-2623	Optical Mouse Reference Design Unit Includes: • Agilent ADNS-2620 optical mouse sensor • Cypress CY7C63723 enCoRe USB controller	Reference Design Unit	1
ADNS-2620	Optical Mouse Sensor	Sensor	5
CY7C63723-PC	Cypress USB Controller	USB Controller	5
HDNS-2100	Round Lens Plate	Lens	5
HDNS-2100#001	Trimmed Lens Plate	Lens	5
HDNS-2200	LED Assembly Clip (Black)	LED Clip	5
HDNS-2200#001	LED Assembly Clip (Transparent)	LED Clip	5
HLMP-ED80-KP000	639 nm T1 $^{3}/_{4}$ (5 mm) Diameter LED	LED	5
ADNK-2623 CD-ROM	Includes Documentation and Support Files for ADNK-2623 • Documentation a. ADNS-2620 Data Sheet b. CY7C63723 Data Sheet c. HDNS-2100 Data Sheet d. HDNS-2200 Data Sheet e. HLMP-ED80-XXXXX Data Sheet f. Application Note 1282 • Hardware Support Files a. ADNK-2623 BOM List b. ADNK-2623 Schematic c. Base Plate Feature IGES File • Software Support Files a. Microcontroller Firmware		1
Cypress LAB™ CD-ROM	Includes Development Tools and Support Files for CY7C63723-PC • CY Debugger • CYASM Assembler Software • Code Examples • Users Manual		1

Ordering Information
For ordering information, please contact your local Agilent sales representative.

At Cypress call (800) 541-4736 or (408) 943-2821 or visit the web site at www.cypress.com

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