

General Description

The PS2 CMOS optical mouse SOC implements an optical mouse that is compatible with Microsoft 3D IntelliMouse and IBM PS/2 mouse. Axis Z supports mechanical scroll input. Excellent tracking performance with minimum external components offers the advantages of good performance and lower cost.

Features

- PS/2 Interface
- Single 5V power supply
- Compatible with Microsoft IntelliMouse 3D PS/2 and IBM PS/2 mouse.
- Compatible with Microsoft Windows Vista, 2000, XP, ME and 98
- Supports three buttons (L, M, R), three axis's (X, Y, Z) inputs, and Z-axis scroll wheel
- Optical motion estimation technology
- WHQL certification
- High resolution up to 1600CPI
- Flexible external resolution setting between 800DPI/1600DPI, one button dynamic toggling between 800 and 1600 DPI
- Built-in de-bounce circuits
- Built-in power-on-reset
- Built-in regulators
- Built-in LED driver
- Internal oscillator, crystal-less design
- Minimal external components
- ROHS compliant

Technical Specifications

Power supply	4.5~5.5V
Interface	PS2
Optical Lens	1:1
System clock	24MHz internal clock
Resolution	800(default)/1600 CPI
Frame Rate	Up to 4000 frames/sec
Operating Current	15mA@ mouse moving
	10mA@mouse not moving (Sleep mode)
Package	Staggered DIP12

Applications

Optical PS/2 mouse for desktop PC, workstation and laptop

Ordering Information

Part Number	Package	Description
A2633	Staggered DIP12	PS/2 optical mouse SOC

FCC WARNING

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: The manufacturer is not responsible for and radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.