

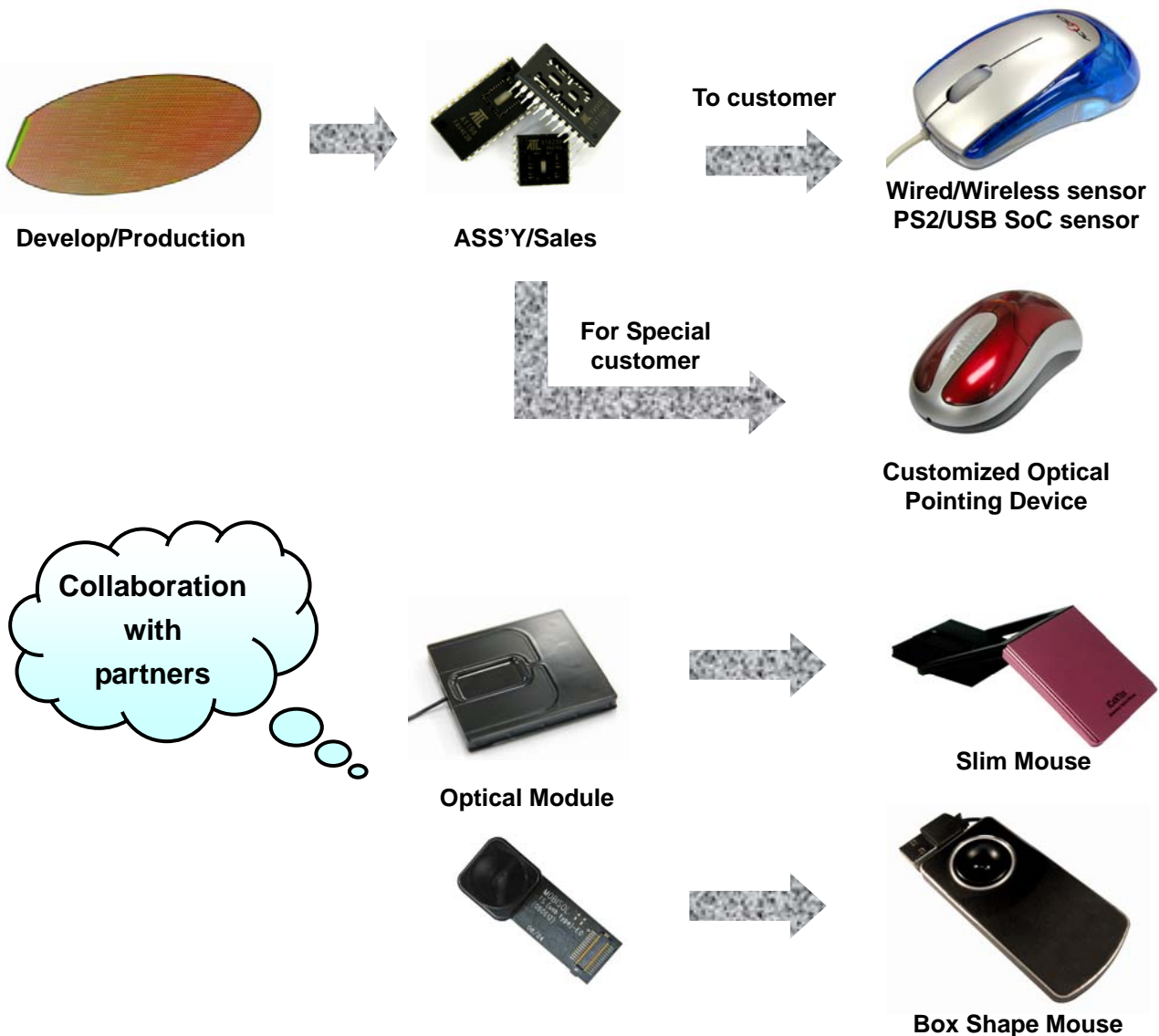
# Optical Pointing Devices

## Introduction

ATLab's is now proud of being the second in the world in development of Optical Pointing Devices chips, of being a leader in SoC (System-on-Chip) series sensors, and of applying more than 66 worldwide patents as of 2006. ATLab's optical pointing device SoC (System-on-Chip) series contain MCU within the package, so that user can select either one of PS/2, USB or U+P Combo interfaces as needed. In particular, ATLab's PS/2 1-chip optical mouse sensor requires only 4 additional parts (2 capacitors, 1 resistor and 1 LED) to make one complete mouse set. ATLab's is also concentrating to develop "value added functions" such as eye safety technology that protects potential eye damage from dazzling LED or laser light and ATLab's patented low power technology enables longer battery lifetime for a wireless mouse.

Besides, ATLab provides various optical solutions with creative partners. For example, ATLab and partners supply optical modules for the slim mouse (mouse set height: 5mm) and for finger navigation sensors of mobile application.

## Business Chain



Product distributor / Sales representative: Act-On ([www.acton-usa.com](http://www.acton-usa.com))

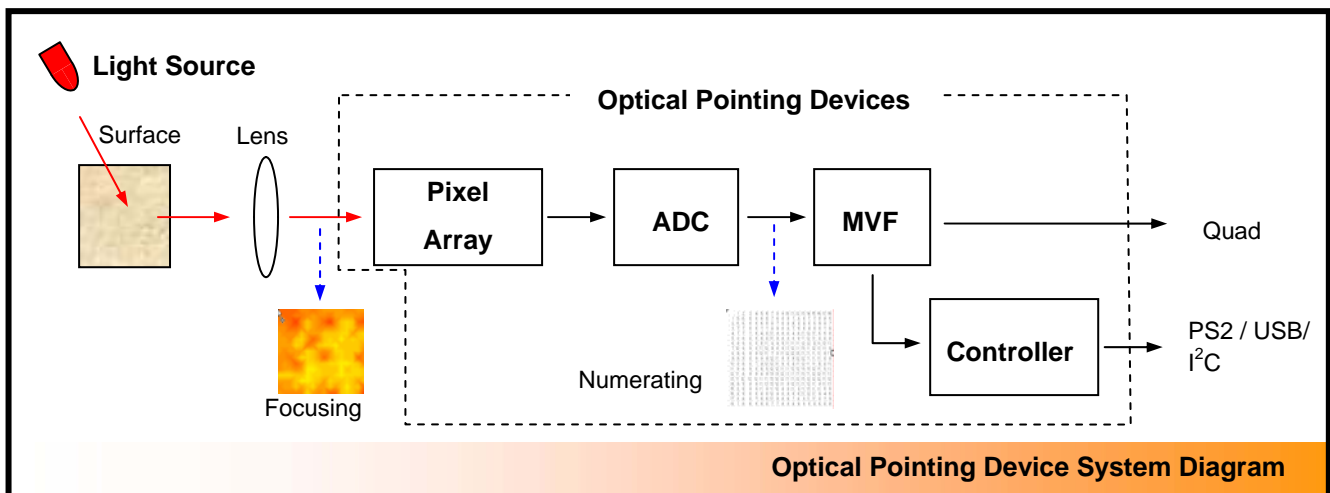
# Optical Pointing Devices

## Features

- Single power supply (5.0V or 3.3V)
- Very low operation current
- Smart power management with various modes
- LED drive TR and oscillator included on chip
- MCU embedded in SoC devices
- Low power wireless solution (27MHz/2.4GHz)
- Patented technology (Worldwide 52 applied)
- Value added functions
  - Eye Safety: when you lift off the mouse from the surface, LED/laser light source will be turned off to protect your eyesight.
  - Ultra thin mouse module: it can be applied in slim mouse, finger navigation sensor, etc.
  - Touch sensor embedded optical pointing device: touch sensing technology can recognize grasp or touch of user on optical mouse or finger navigation sensor.

## Applications

- Mice for desktop PC's, Workstations, and notebook PC's
- Ultra thin optical pointing devices such as slim mouse, finger navigation sensor, etc.
- Integrated input devices



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