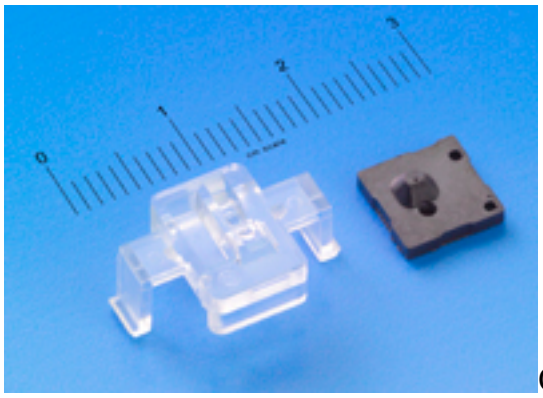
Programmable Single-Chip Laser Navigation System Simplifies Mouse Design



Cypress Semiconductor announced its second generation laser navigation product family, which integrates a laser navigation sensor and programmable Flash based microcontroller on one die. The OvationONS II Laser Nvigation System-on-Chip features the surface tracking and low-power consumption characteristics of the company's OptiCheck technology integrated with a programmable CPU, USB interface, and a configurable power management unit. The OvationONS II devices combine with an optical lens for simple two-piece assembly measuring only 8 mm x 8 mm x 4 mm. The OvationONS II family is designed to support 0.8V to 5.5V operations, enabling both wired and wireless applications with a single AA battery. PSoC Designer provides pre-built, drag-and drop “user modules” that allow designers to complete important design elements rapidly. The OvationONS II SoC integrates the vertical-cavity surface-emitting laser (VCSEL) in the package, meeting Class I eye-safety requirements. The device eliminates the need for power calibration of the VCSEL or for optical alignment at a customer’s factory. All products in the family share the same pin-out and are mechanical compatible, enabling customers to offer multiple products without changing PCB layout and mechanical system alteration.

Cypress Semiconductor
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[1] http://www.cypress.com/