



Avago Technologies Supplies First Single-Package LaserStream(TM) SoC for Wireless Bluetooth 2.1 Mice

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Long Battery Life and Excellent Tracking on Smooth Surfaces

SAN JOSE, Calif. & SINGAPORE, Sep 08, 2010 (BUSINESS WIRE) --

Avago Technologies (Nasdaq:[AVGO](#)), a leading supplier of analog interface components for communications, industrial and consumer applications, today announced production availability for its ADNS-7630 Bluetooth(R) (BT) 2.1 LaserStreamSystem-on-Chip (SoC) navigation sensor for wireless mouse applications. It is the industry's first laser navigation sensor to integrate a BT 2.1 transceiver, stand-alone baseband processor and VCSEL surface illuminator into a single package. Compared to LED-based mice, laser mice track reliably on a greater variety of smooth surfaces. The ADNS-7630 device enhances battery life - extending usage to more than 6 months from two AA battery cells - and simplifies Bluetooth mouse design, helping shorten time to market.

Avago's LaserStream technology provides precise high-speed tracking on virtually all surfaces - a feature that is attractive to both laptop users and gaming enthusiasts. With this proprietary technology, ADNS-7630 based mice feature high-speed motion detection of up to 30 inches per second (ips) and 8 g acceleration detection. In addition, laser power on all ADNS-7630 devices is pre-calibrated in Avago's factory to meet IEC/EN60825-1 Class 1 Eye Safety standards, reducing assembly time and lowering cost for the manufacturer.

Industry's First Single Package Laser Bluetooth Mouse Solution

The ADNS-7630 device contains an Image Acquisition System (IAS), a Digital Signal Processor (DSP), Bluetooth HID (Human Interface Device) stream output and RF transceiver. Images acquired by the IAS are processed by the DSP to determine the direction and distance of motion. The DSP generates the \hat{x} and \hat{y} relative displacement values which are then converted for wireless transmission to the Bluetooth host. All these processes are automatically executed by the ADNS-7630 without the mouse manufacturer being involved with source code or firmware.

Avago's SoC BT navigation engine is the first mouse sensor that has a fully synchronized BT navigation core and baseband circuitry. All communication and algorithms involved between the laser light sensor and RF stages have been optimized for the application.

Wide Feature Set and Programmability Expand Marketing Options

The ADNS-7630 device supports multiple I/Os which can be configured as buttons and LED indicators. Each button can be programmed to have several functions, depending on if it is clicked once, double-clicked, or long-pressed. Button functions include KeyMap for keyboard shortcut keys, media buttons for audio control, and mouse resolution increase/decrease/rotate features.

The ADNS-7630 product also supports both mechanical and optical z-wheel and tilt-wheel functions, programmable resolution, 4-axis sensor rotation and configurable low power operating modes for extended battery life.

Avago's free MConfig software gives manufacturers the ability to store configuration settings in an external 128-kbit EEPROM so that a diverse range of markets can be served by one basic ADNS-7630 design.

Additional ADNS-7630 Specifications

- Programmable resolution: 200-3000 cpi in 250 cpi increments
- Single 3 V supply
- Up to 10 I/O pins for flexible configuration
- 4-axis sensor rotation: 0°, 90°, 180° or 270°

U.S. Pricing and Availability

The ADNS-7630 device is priced at \$5.00 each in 10,000 piece quantities. Samples and production quantities are available now through Avago's direct sales channel and worldwide distribution partners. Avago also offers the ADNK-7633 reference design kit to qualified mouse designers.

About Avago Technologies

Avago Technologies is a leading supplier of analog interface components for communications, industrial and consumer applications. By leveraging its core competencies in III-V compound and silicon semiconductor design and processing, the company provides an extensive range of analog, mixed signal and optoelectronics components and subsystems to approximately 40,000 end customers. Backed by strong customer service support, the company's products serve four diverse end markets: wireless communications, wired infrastructure, industrial and automotive electronics, and consumer and computing peripherals. Avago has a global employee presence and heritage of technical innovation dating back 40 years to its Hewlett-Packard roots. Information about Avago is available on the Web at <http://cts.businesswire.com/ct/CT?id=smartlink&url=http%3A%2F%2Fwww.avagotech.com%2F&esheet=6420291&lan=en-US&anchor=www.avagotech.com&index=2&md5=74730918e4dbd8a0cb83ffe883aa9f6>.

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