



Avago Technologies Introduces Industry's Highest-Resolution Hall-Effect Magnetic Encoder for Industrial Applications

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Robust Rotary Encoder Delivers Precise Positioning in Harshest Environments

SAN JOSE, Calif. & SINGAPORE, Jul 19, 2011 (BUSINESS WIRE) --

Avago Technologies (Nasdaq:[AVGO](#)), a leading supplier of analog interface components for communications, industrial and consumer applications, today announced the market's highest-resolution Hall-effect magnetic encoder. The new [AEAT-6600-T16](#) encoder provides advanced positioning information with the robust performance required for the harsh operational environment of industrial applications such as contactless rotary position sensing, robotics, motor feedback and valve control, as well as for medical applications.

The Avago AEAT-6600-T16 magnetic encoder offers up to 16-bit resolution for precise angle measurement over a full rotation of 360 degrees. The use of magnetic technology for motion control and sensing activities enables non-contact operation free from mechanical wear and tear. The encoder is a system-on-chip combining integrated Hall elements, analog front end and digital signal processing in a single device. Along with this high level of integration, the encoder features built-in programmability to allow customized encoder settings, providing significant savings for customers' encoder inventory. Avago is exhibiting the AEAT-6600-T16 encoder, along with its portfolio of isolation and motion control solutions for motor applications, at the MotorTech Japan 2011 trade show in East Hall 1 booth number 1D-103 from July 20-22.

"The Avago AEAT-6600-T16 encoder delivers leading precision for motion control systems with highly durable magnetic technology in a small form factor, building on our industry leadership in high-resolution magnetic reflective encoders," said Hassan Hussain, general manager of the Motion Control Products Division at Avago. "The device expands the reach of our complete optical and magnetic encoder portfolio, addressing applications operating in severe industrial conditions."

The AEAT-6600-T16 device offers simple one-step alignment with no calibration required, avoiding handling-related issues during setup and reducing assembly time and costs. The encoder delivers accurate performance over a large axial gap and radial displacement, reducing concerns related to assembly tolerance errors during the manufacturing process. The device offers serial output, reducing the number of wires required. The encoder is available in a small 16-pin TSSOP package and features low supply voltage, making it ideal for portable, battery-operated applications.

Additional AEAT-6600-T16 Encoder Features

- Simultaneous incremental output of up to 1024 cycles per revolution (CPR)
- Wide operating temperature range from -40° to 125° C
- 3-wire or 2-wire Serial Synchronous Interface (SSI) interface mode for absolute output
- Pulse Width Modulation (PWM) and incremental output modes
- Internal voltage regulator for 5V or 3.3V operation
- Power-down mode to reduce current consumption
- RoHS compliant

U.S. Pricing and Availability

The Avago AEAT-6600-T16 magnetic encoder is priced at \$6.50 each in 970 piece quantities (10 tubes). Samples and production quantities are available now through the Avago direct sales channel and via worldwide distribution partners. Avago also offers the [HEDS-8937](#) programming kit designed specifically for the AEAT-6600-T16 encoder.

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 nearly 50 years to its Hewlett-Packard roots. Information about Avago is available on the Web at www.avagotech.com.

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