



## Avago Technologies Introduces Multi-Channel, High-Speed Digital Isolator Family with Industry-Leading High-Voltage Insulation

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### Highly-Integrated Magnetic Couplers Feature Low Power Consumption at High Data Rates for Test and Measurement Equipment and Medical Imaging Applications

SAN JOSE, Calif. & SINGAPORE, Jun 08, 2011 (BUSINESS WIRE) -- Avago Technologies (Nasdaq: [AVGO](#)), a leading supplier of analog interface components for communications, industrial and consumer applications, today announced a family of digital isolators that deliver the market's most robust insulation performance. The new [ACML-74x0](#) family is based on patented magnetic coupler technology that enables low power consumption at high data rates of 100 MBaud. The CMOS digital isolators feature thick, multi-layer insulation that is robust to very high voltage transient and working voltage, providing the reinforced insulation required for the harsh operation environments facing test and measurement, medical imaging and industrial applications.

The ACML-74x0 family's robust insulation is UL recognized at 5.6 kV<sub>RMS</sub> for 1 minute, the highest of any digital isolators, enabling existing equipment to rate to higher voltages or provide greater safety margins in high voltage environments. During data transmission, the devices send low current pulses across the isolation barrier, maintaining low electromagnetic interference (EMI) emissions even at high data rates. This low EMI performance also provides end-applications with stronger ability to pass regulatory testing. The isolators integrate a quad-channel structure, and offer uni- or bi-directional configurations, to provide PCB savings.

#### Additional ACML-74x0 Product Features

- Low power consumption of 13 mA per channel typical at 100 MBd data rate
- Wide operating temperature range from -40° C to 105° C
- Qualified to low maximum propagation delay of 32 ns and low maximum pulse width distortion of 2 ns
- Low propagation delay skews of 4 ns maximum for channel-to-channel and 5 ns maximum for part-to-part
- Dual supply voltage compatible for 3.3V and 5V
- High common mode transient immunity of 25 kV/us min
- Safety and regulatory approvals from UL, CSA and IEC 60950-1/61010-1/60601-1

#### U.S. Pricing and Availability

The [ACML-7400](#) device offers an all-in-one channel configuration, the [ACML-7410](#) offers a bi-directional 3/1 channel configuration, and the [ACML-7420](#) offers a bi-directional 2/2 channel configuration. The ACML-74x0 isolators are all available in 16-pin SOIC wide-body packages, and are priced starting at \$6.48 each in 1,000 piece quantities. Samples and production quantities are available now through the Avago direct sales channel and via worldwide distribution partners. More information on Avago isolation amplifiers can be found at [www.avagotech.com/optocouplers](http://www.avagotech.com/optocouplers).

#### 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](http://www.avagotech.com).

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