



## Avago Technologies Unveils Intelligent Power Module Optocoupler Optimized for Renewable Energy Applications

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### Device Targets Trend toward 1700V Insulation Voltage with Isolation Performance and Special Packages Featuring 13-mm Creepage and Clearance to Address Safety Standards

MUNICH, Nov 09, 2010 (BUSINESS WIRE) --

Avago Technologies (Nasdaq:AVGO), a leading supplier of analog interface components for communications, industrial and consumer applications, today announced a new optocoupler available in special packages designed for use in renewable energy applications, here at the Electronica 2010 trade fair. The new [ACNV4506](#) optocoupler provides robust electrical signal isolation as an Intelligent Power Module (IPM) interface or Insulated Gate Bipolar Transistor (IGBT) gate drive in wind turbines, renewable energy harvesting sites and other industrial control applications.

These applications are increasingly using a 1700V IGBT, which requires higher creepage and clearance - the distance between conductive parts in a design. Industry standards require minimum creepage and clearance distances to ensure user safety in the presence of hazardous voltages. The ACNV4506 optocoupler is available in a 500 mil 10-pin dual-inline package (DIP) as well as a gull wing lead option for standard surface mount processes, both with 13-mm creepage and clearance that meets the IEC60664-1 standard. The package improves isolation performance with minimum common-mode rejection (CMR) of 30 kV/s for superior noise toleration, resulting in smoother control with less torque ripple in motor control applications. The device operates in harsh working environments in the -40 to +105° C extended industrial temperature range, and also targets AC and brushless DC motor drives and industrial inverters.

"Avago offers the industry's broadest portfolio of IPM interface optocouplers with a variety of packages for different safety standard requirements and application needs," said Kheng-Jam Lee, marketing manager for plastic optocoupler products at Avago. "Our new ACNV4506 optocoupler not only adds to this IPM portfolio, but also to our gate drive and current sense devices targeting the surging renewable energy market."

The ACNV4506 optocoupler offers strong electrical specifications for comprehensive safety approvals, with input-output withstand voltage of 7,500 Vrms for 1 minute for UL 1577-compliance and working voltage (V<sub>orm</sub>) of 2,262V peak for IEC/EN/DIN EN 60747-5-5 approval. It is also CSA approved. The high insulating voltages of the device make it suitable for applications with 690V power main voltages. In addition to high insulation ratings, the device's packages provide distance through insulation (DTI) of 2 mm, meeting EN50178 regulatory standards. Short maximum propagation delays of 200 ns~400 ns for the device result in short dead time, as well as improved efficiency and precision of motion.

Avago is exhibiting the ACNV4506 optocoupler along with a wide range of its isolation, fiber optics, motion control and LED products for the industrial and automotive markets at Electronica 2010 in Hall A4 booth 458 at the New Munich Trade Fair Centre from November 9-12.

Avago also offers the ACNV2601 10 MBd digital optocoupler in the 500 mil DIP platform.

#### Additional ACNV4506 Product Features

- Minimized pulse width distortion (PWD) of 200 ns for fast drive
- Maximum allowable overvoltage (V<sub>iotm</sub>) of 12,000V
- Wide 4.5V~30V V<sub>cc</sub> supply voltage for simplified system power supply requirements
- Built-in load resistor for simplified IPM driving designs
- Tape and reel surface mounted package option

#### U.S. Pricing and Availability

The ACNV4506 IPM and gate drive interface optocouplers are priced at \$2.37 in 10,000 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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