



Avago Ships Industry's Fastest Intelligent Power Module Interface Optocouplers for Industrial and White Goods Applications

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New Devices Provide High Common Mode Rejection and Short Propagation Delays for Robust and Efficient Operation; Extend Performance of Market's Broadest Optocoupler Portfolio

SAN JOSE, Calif., & SINGAPORE, Nov 08, 2011 (BUSINESS WIRE) -- Avago Technologies (Nasdaq:[AVGO](#)), a leading supplier of analog interface components for communications, industrial and consumer applications, today announced three high-speed optocouplers that deliver robust electrical signal isolation for Intelligent Power Module (IPM) interface applications. The new [ACPL-x484](#) optocouplers operate at 10 MBd, doubling the speed of existing IPM optocouplers for more efficient performance. Available in three different compact packages that reduce PCB board space, the devices address IPM interfaces in AC and brushless DC motor drives, industrial inverters, air conditioners, renewable energy inverters, sewing machines and switching power supplies, as well as gate drive applications and general digital isolation.

With high common-mode rejection (CMR) of 30 kV/s, the ACPL-x484 optocouplers prevent erroneous driving of an IPM and provide reliable operation in noisy environments. The devices offer fast switching with short propagation delays of 100 ns, resulting in reduced dead time, as well as improved efficiency and precision of motion. The optocouplers feature a wide supply voltage range from 4.5V to 30V, which ensures an IPM is driven to the optimum intended level and thus lowers system power budget.

"These new optocouplers demonstrate our ability to bring value to customers by pushing the speed limits of IPM and gate drive interface performance," said Kheng-Jam Lee, marketing director for optocoupler products at Avago. "The devices' robust noise rejection, flexible supply voltage range and multiple compact packages extend our market-leading optocoupler portfolio to better address a wider range of industrial and white goods applications."

The [ACPL-M484](#) and [ACPL-P484](#) optocouplers offer input-output withstand voltage of 3,750 Vrms and the [ACPL-W484](#) device offers 5,000 Vrms, each for 1 minute for UL 1577-compliance. The devices meet IEC/EN/DIN EN 60747-5-2 approval with working voltage (Viorm) of 560 Vpeak for ACPL-M484, 891 Vpeak for ACPL-P484 and 1140 Vpeak for ACPL-W484. They are also CSA approved. The ACPL-M484 device is available in an SO-5 package with both clearance and creepage of 5 mm. The ACPL-P484 device is available in a stretched SO-6 package with clearance and creepage of 7 mm and 8 mm, respectively. The ACPL-W484 device is available in a stretched SO-6 package with clearance and creepage of 8 mm.

Additional ACPL-x484 Product Features

- Minimized pulse width distortion (PWD) for fast drive
- Under voltage lock-out (UVLO) with hysteresis for IPM protection
- Low Icc supply current to allow for bootstrap supplies
- Positive output type (totem pole output)
- Truth table guaranteed: Vcc from 4.5V to 30V
- Industrial temperature range: -40°C to 105°C
- Low LED drive current of 4mA (min)

U.S. Pricing and Availability

The ACPL-M484 optocoupler is priced at \$1.47 each in 10,000 piece quantities, the ACPL-P484 device is priced at \$1.63 each in 10,000 piece quantities, and the ACPL-W484 device is priced at \$1.66 each 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 optocouplers can be found at <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 <http://www.avagotech.com>.

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