



## Broadcom Announces New Generation of 5A Gate Drive Optocouplers with Unmatched Noise Immunity for Motor Drives and Power Inverters

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### Industry's Highest Current Gate Drive Optocouplers with Superb CMTI Optimized for Driving IGBT and SiC/GaN MOSFET

SAN JOSE, Calif., and SINGAPORE, May 10, 2016 (GLOBE NEWSWIRE) -- Broadcom Limited (NASDAQ:AVGO), a leading designer, developer and global supplier of a broad range of analog and digital semiconductor connectivity solutions, today announced a new generation of 5A gate drive optocoupler devices, the ACPL-352J and ACNW3430, designed for a wide range of industrial applications including motor drives and power inverters. The new devices feature superb common mode transient immunity (CMTI) of up to 100 kV/ $\mu$ s, preventing erroneous gate driver failures in noisy environments. Both the ACPL-352J and ACNW3430 support up to 5A rail-to-rail output current, which eliminates the need of an output buffer circuit, enabling designers to implement cost-effective and power efficient gate driver solutions.

Expanding upon previous generation devices, the new ACPL-352J incorporates a set of fail-safe IGBT and MOSFET diagnostics, protection and fault reporting, which has become an integral part of ensuring system reliability and high availability. Both the ACPL-352J and ACNW3430 feature minimal propagation delay with excellent timing skew, enabling high frequency switching to improve efficiency in driving IGBT and SiC/GaN MOSFET.

"Our previous generation of 5A optocouplers has enjoyed tremendous commercial success and differentiated Broadcom from the competition in high current, high speed switching applications. In response to new market requirements, our latest generation of 5A optocouplers with its new added functions and superior CMTI performance enables our customers to deliver more cost effective, energy efficient and robust gate driver solutions and reinforces Broadcom's commitment to providing high current gate drive optocouplers for industrial applications," said Tze Siong Chong, vice president and general manager of the Isolation Products Division at Broadcom.

Broadcom will showcase the ACPL-352J and ACNW3430 in the Broadcom Booth #7-502 at the PCIM Europe 2016 exhibition in Nuremberg, Germany from May 10th to 12th. During the exhibition, Broadcom will have a demonstration of ACPL-352J driving a Panasonic X-GaN transistor and display an ACPL-352J gate driver board for the Fuji Electric All-SiC power module.

"We are pleased to have Broadcom in a joint reference design and demonstration of the X-GaN and ACPL-352J at the PCIM Europe 2016. The combination of Panasonic's X-GaN and Broadcom's latest 5A optocoupler will enable power supply engineers to deliver high-performance, cost-effective gate driver solutions, further establishing the GaN GIT as a technology of choice for high power, high speed switching applications," said Mr. Yutaka Tanase, CTO, Panasonic Semiconductor Solutions.

#### Product Highlights

- 5A Maximum Peak Output Current
- High CMTI
  - > 50kV/ $\mu$ s [ACPL-352J]
  - > 100kV/ $\mu$ s [ACNW3430]
- Functional Safety Protection and Reporting
  - UVLO with Feedback, Over Current Sensing, Soft Turn-Off, Fault Feedback, and Active Miller Clamping [ACPL-352J]
  - UVLO for Bi-directional Power Supply [ACNW3430]
- Propagation Delay
  - 100 ns typical [ACPL-352J]
  - 80 ns typical [ACNW3430]
- Worldwide Safety Approvals: UL1577, CSA and IEC/EN/DIN EN 60747-5-5 (Note these important safety standards are not relevant to non-optical isolators such as magnetic and capacitor-based isolators)

#### Availability

Samples and production quantities of the ACPL-352J and ACNW3430 will be available in June 2016 through the Broadcom direct sales channel and via worldwide distribution partners. Please contact your local Broadcom sales representative for pricing.

Further information on the ACPL-352J and ACNW3430 is available online at

<http://www.avagotech.com/products/optocouplers/industrial-plastic/isolated-gate-drive-optocouplers/highly-integrated-smart-gate-drives/acpl-352j-000e>

<http://www.avagotech.com/products/optocouplers/industrial-plastic/isolated-gate-drive-optocouplers/gate-drives/acnw3430-000e>

#### About Broadcom Limited

Broadcom Limited is a leading designer, developer and global supplier of a broad range of analog and digital semiconductor connectivity solutions. Broadcom Limited's extensive product portfolio serves four primary end markets: wired infrastructure, wireless communications, enterprise storage and industrial & other. Applications for our products in these end markets include: data center networking, home connectivity, broadband access, telecommunications equipment, smartphones and base stations, data center servers and storage, factory automation, power generation and alternative energy systems, and displays. For more information, go to [www.broadcom.com](http://www.broadcom.com).

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