



Dual Buck Converter from Diodes Incorporated Boosts Modem Efficiency

Plano, Texas – October 28, 2014 – Diodes Incorporated (Nasdaq: DIOD), a leading global manufacturer and supplier of high-quality application specific standard products within the broad discrete, logic and analog semiconductor markets, today introduced the PAM2322AGEAR. By providing a pair of high-efficiency PWM step-down DC/DC converters in a tiny 2.5mm x 2mm package, this device is tailored to meet the needs of wireless and DSL modem applications. Its innovative pulse-skipping mode enables a reduction in quiescent current under light load operation, helping to maximize portable device battery life.

Further power savings are achieved by the converters' 100% duty cycle, allowing systems to operate even at the lowest voltage supply. With an input voltage range from 2.7V to 5.5V, the 17-pad W-FLGA2050 packaged converters will support the use of single Li+ / Li polymer cells, multiple alkaline/NiMH cells, USB power supplies and many other standard power sources.

The device offers a 1A, 1.8V fixed voltage output and a 2A, adjustable (0.9V to V_{IN}) voltage output, each with an independent active-high channel enable pin. Integration of an internal power switch and synchronous rectifier on each output, combined with a high operating frequency of 1.2MHz means PAM2322AGEAR also minimizes the size and quantity of external components that are required.

A complete suite of protection features is included in the package, consisting of under-voltage lockout, soft-start, thermal shutdown and heat-reducing, hiccup

mode short-circuit protection. Further information is available at www.diodes.com.

About Diodes Incorporated

Diodes Incorporated (Nasdaq: DIOD), a Standard and Poor's SmallCap 600 and Russell 3000 Index company, is a leading global manufacturer and supplier of high-quality application specific standard products within the broad discrete, logic and analog semiconductor markets. Diodes serves the consumer electronics, computing, communications, industrial, and automotive markets. Diodes' products include diodes, rectifiers, transistors, MOSFETs, protection devices, functional specific arrays, single gate logic, amplifiers and comparators, Hall-effect and temperature sensors; power management devices, including LED drivers, AC-DC converters and controllers, DC-DC switching and linear voltage regulators, and voltage references along with special function devices, such as USB power switches, load switches, voltage supervisors, and motor controllers. Diodes' corporate headquarters, logistics center, and Americas' sales office are located in Plano, Texas. Design, marketing, and engineering centers are located in Plano; San Jose, California; Taipei, Taiwan; Manchester, England; and Neuhaus, Germany. Diodes' wafer fabrication facilities are located in Kansas City, Missouri and Manchester, with two more located in Shanghai, China. In addition, two assembly-test facilities are located in Shanghai; two are located in Chengdu, China, with one in Neuhaus and one in Taipei. Additional engineering, sales, warehouse, and logistics offices are located in Fort Worth, Texas; Taipei; Hong Kong; Manchester; Shanghai; Shenzhen, China; Seongnam-si, South Korea; Suwon, South Korea; Tokyo, Japan; and Munich, Germany, with support offices throughout the world. For further information, including SEC filings, visit Diodes' website at <http://www.diodes.com>.

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