

**FOR IMMEDIATE RELEASE**

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## **Alpha and Omega Semiconductor Launches High Performance Synchronous Buck Regulator Utilizing Proprietary Constant-On-Time Control Architecture**

*New product is stable with ceramic output caps, while offering high efficiency and fast transient response*

**SUNNYVALE, Calif., Aug. 9, 2011** – [Alpha and Omega Semiconductor Limited](#) (AOS) (Nasdaq: AOSL), a designer, developer and global supplier of a broad range of power semiconductors, today announced the release of [AOZ1231-01](#), a high-efficiency, easy-to-use synchronous buck regulator that operates to 28V and provides 4A of continuous output current in a 5x5mm QFN package. The new product provides a compact and high efficiency DC/DC solution that can reliably meet the demanding requirements of transient load response of the latest digital IC chipsets. The combination of high performance and small solution size makes AOZ1231-01 ideally suited for providing DC/DC solutions to the high end Computing, Telecom and Datacom market segments.

The AOZ1231-01 features proprietary ceramic-stable constant on-time (COT) PWM control with input feed-forward that is programmable to 1MHz switching frequency. The control architecture allows compact designs that reduce external capacitors. It also produces an ultra-fast response to load transients while maintaining a relatively constant switching frequency over the entire input voltage range. The AOZ1231-01 internal power stage has 40% lower on-resistance than the leading competitor, reducing the total power dissipation and heat generation to improve overall system reliability.

“We are pleased to release the first of an emerging line up of products utilizing our new COT platform. The AOZ1231-01 demonstrates the combined strength of AOS’ IC design, discrete technology, and packaging capability that are opening up new higher end markets for us in the Computing and Communications segments,” said Dr. Mike Chang, President and CEO of AOS.

### **Technical Highlights**

- Input Range: 4.5V to 28V
- Power Stage On-Resistance
  - High-side MOSFET: 40 mOhms
  - Low-side MOSFET: 25 mOhms
- Integrated Linear Regulator: 5.3V, 20A
- Switching Frequency: COT, Adj. to 1MHz
- Package: 5x5 QFN-30

### **Pricing and Availability**

AOZ1231-01 is immediately available in production quantities. The unit price for 1,000 pieces is \$3.00.

**About AOS**

Alpha and Omega Semiconductor Limited, or [AOS](#) is a designer, developer and global supplier of a broad range of power semiconductors, including a wide portfolio of [Power MOSFET](#) and [Power IC](#) products. AOS seeks to differentiate itself by integrating its expertise in device physics, process technology, design and advanced packaging to optimize product performance and cost, and its product portfolio is designed to meet the ever increasing power efficiency requirements in high volume applications, including portable computers, flat panel TVs, battery packs, smart phones, portable media players, UPS, motor control and power supplies. For more information, please visit [www.aosmd.com](http://www.aosmd.com).

**Forward Looking Statements**

This press release contains forward-looking statements that are based on current expectations, estimates, forecasts and projections of future performance based on management's judgment, beliefs, current trends and anticipated product performance. These forward-looking statements include, without limitation, references to the efficiency and capability of new products and their potential to expand into new markets. Forward looking statements involve risks and uncertainties that may cause actual results to differ materially from those contained in the forward-looking statements. These factors include, but are not limited to, the actual product performance in volume production, the quality and reliability of the product, our ability to achieve design wins, the general business and economic conditions, the state of the semiconductor industry, and other risks as described in the Company's annual report and other filings with the U.S. Securities and Exchange Commission. Although the Company believes that the expectations reflected in the forward looking statements are reasonable, it cannot guarantee future results, level of activity, performance, or achievements. You should not place undue reliance on these forward-looking statements. All information provided in this press release is as of today's date, unless otherwise stated, and AOS undertakes no duty to update such information, except as required under applicable law.

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