

**FOR IMMEDIATE RELEASE**

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## **At APEC 2024, Alpha and Omega Semiconductor to Display and Demo its Industry-Leading Power Management Solutions**

*Meet with AOS Product Experts and see their latest Applications-Specific Power Semiconductors, Power ICs, and Module Products*

**SUNNYVALE, Calif., Feb. 22, 2024** – [Alpha and Omega Semiconductor Limited](#) (AOS) (Nasdaq: AOSL), a designer, developer, and global supplier of a broad range of discrete power devices, wide band gap power devices, power management ICs, and modules will showcase its complete line of advanced power management solutions at the Applied Power Electronics Conference (APEC). The new products are designed to meet key power management challenges in several key application areas and markets AOS focuses on.

Booth highlights-

- **Computing and Data Center:** AOS' multiphase Vcore solutions are expanding to power Intel, AMD as well as NVIDIA CPU/GPUs and cover applications from personal computers to data centers with a product family that ranges from 4-phase single rail to multi-rail converters of up to 16 phases. When paired with AOS' industry-leading power stages, AOS controllers offer a complete Vcore solution to power next-generation chipset-based SoCs. AOS has also expanded its EZBuck™ family to cover application-specific rails for Intel and AMD platforms. The newly released AOZ22559QI is for the Intel Meteor Lake platform powering the VNN\_AON rail.

In addition, AOS continues to expand its leading portfolio of products in **DC/DC, Hot Swap, and Load Switches**. AOS recently released the AONZ66412, a 40V XSPairFET™ optimized for 28V Type C EPR for buck-boost application

- **Power Supply and Renewable Energy:** AOS will showcase its growing **High Voltage Super Junction MOSFET portfolio**. AOS helps designers achieve efficiency and density goals while satisfying budget goals with its industry-leading αMOS5™ 600V to 700V Super Junction MOSFETs. Featuring Fast Switching, Robust UIS/Body Diode, and ease-of-use, these state-of-the-art MOSFETs meet the latest Server, Telecom Rectifier, Solar Inverter, EV Charger, Gaming, PC, and Universal Charging/PD design requirements.

In addition, AOS released the AONA66916 a 100V AlphaSGT™ MOSFET in a DFN 5x6 double sided cooling package. The new device offers industry-leading Rthjc-top and Rthjc-bottom thermal resistances, allowing for improved thermal designs in demanding telecom, solar, and DC-DC converter applications.

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- **Automotive and E-mobility:** AOS is expanding its portfolio of automotive MOSFETs with new released automotive grade 80V (AOTL66810Q) and 100V (AOTL66912Q) MOSFETs in the TOLL package. The AOS automotive TOLL package is designed to achieve the highest current capability by utilizing advanced clip technology to achieve a high in-rush current rating. In addition, AOS TOLL packaging with clip technology offers very low package resistance and inductance, enabling improved EMI performance compared to other TOLL packages utilizing standard wire-bonding technology packages. These new products help designers meet the ongoing trend to electrify vehicles and find use in battery management systems (BMS) and high-performance inverters (BLDC motors) for e-mobility.
- **Motor Drives:** AOS introduces a new range of 60V and 100V drivers for power tools, outdoor garden equipment, and e-mobility applications. AOZ32101DV (100V half bridge), AOZ32103MQV (100V 3-phase), and AOZ32063MQV (60V 3-phase) all support 100% duty cycle operation required for demanding motor drive applications and provide a complete solution when paired with AOS MOSFETs. Visit our booth to see demo boards using AOS motor drivers and MOSFETs.
- **Silicon Carbide (SiC) MOSFETs:** AOS has expanded its SiC MOSFET portfolio with 650V / 750V / 1200V SiC MOSFETs for industrial and automotive applications. These new 650V/750V MOSFETs are AEC-Q101 automotive qualified and deliver industry-leading RDS(ON) ranges from 15mohm to 500mohm.
- **Intelligent Power Modules, Mega IPM7:** The world's most compact package design integrates AOS' latest RC IGBT and high-voltage gate driver delivering mega power of up to 100W in motor control applications. The portfolio covers 600V / (1A - 3A), in a variety of package options (Mega IPM-7D, IPM-7DT, IPM-7E, IPM-7ET) suited to different design requirements.

**Where: APEC 2024, Long Beach, CA, at the Long Beach Convention Center**

**When: February 26 to 29, 2024**

**Location: Alpha and Omega Semiconductor, Booth #1345**

### **About AOS**

Alpha and Omega Semiconductor Limited, or [AOS](#), is a designer, developer, and global supplier of a broad range of discrete power devices, wide band gap power devices, power management ICs, and modules, including a wide portfolio of [Power MOSFET](#), [SiC](#), [IGBT](#), [IPM](#), [TVS](#), [Gate Drivers](#), [Power IC](#), and [Digital Power](#) products. AOS has developed extensive intellectual property and technical knowledge that encompasses the latest advancements in the power semiconductor industry, which enables us to introduce innovative products to address the increasingly complex power requirements of advanced electronics. AOS differentiates itself by integrating its Discrete and IC semiconductor process technology, product design, and advanced packaging know-how to develop high-performance power management solutions. AOS' portfolio of products targets high-volume applications, including portable computers, flat-panel TVs, LED lighting, smartphones, battery packs, consumer and industrial motor controls, automotive electronics, and power supplies for TVs, computers, servers, and telecommunications equipment. 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 the 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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