

**FOR IMMEDIATE RELEASE**

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## **Alpha and Omega Semiconductor Unveils its Mega IPM-7 Series Intelligent Power Modules Engineered to Improve Application Performance and Deliver Increased Power Density**

*New power modules have an optimized high-efficiency, compact, and durable design that is ideal for BLDC motor drives*

**SUNNYVALE, Calif., April 29, 2025** – [Alpha and Omega Semiconductor Limited](#) (AOS) (Nasdaq: AOSL) a designer, developer, and global supplier of a broad range of discrete power devices, wide bandgap power devices, power management ICs, and modules, today announced its Mega [IPM7 series](#) intelligent power modules. Offering a highly efficient, compact, and durable design, this new series is optimized for brushless DC (BLDC) motor drive-based designs, including home appliance applications such as air-conditioners, refrigerators, dishwashers, and power tools.

The Mega IPM7 series is AOS' new generation of intelligent power modules engineered to improve application performance and deliver increased power density all in a rugged, compact footprint that meets increasing space-constrained inverter design requirements. This energy-efficient power module also aids in enhancing the cost-effectiveness of fan motor applications. In addition, the advanced features of the Mega IPM7 series enable it to quickly and accurately detect module temperature, helping achieve highly reliable and long lifetime operation.

The Mega IPM7 series is offered in multiple packages, including the Mega IPM7-DT, the Mega7 DBC, and the Mega7 exposed package, allowing customers to select the package that best suits their heat dissipation performance specifications and other application-specific requirements.

"AOS is committed to staying ahead of our customers' needs for increased power density and efficiency to help them meet market demands for greater performance, long lifetime, and rugged operation. The introduction of the Mega IPM7 series is specifically designed to boost the competitive advantages of BLDC-based applications. What's more, AOS gives designers numerous package options to choose the one that ideally meets their performance needs," said Dino Ge, Marketing Director of IGBT/IPM at AOS.

### **Technical Highlights**

- 600V/1A – 600V/3A
- Compact package: 18mm x 7.5mm
- DBC technology
- 3-phase RC-IGBT inverter topology for motor drives
- Integrated HVIC gate driver including bootstrap circuit
- Integrated over-temperature protection and monitoring functions

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## Product Selection Table

Part Number	Package	Input Logic	Rated Voltage (V)	V <sub>CE(SAT)</sub> Typ. (V)
<a href="#">AIM7DT3AR60V3</a>	IPM-7DA	Active High	600	1.5
<a href="#">AIM7E1AR60V1</a>	IPM-7A	Active High	600	2.0
<a href="#">AIM7ET1AR60V1</a>	IPM-7B	Active High	600	2.0
<a href="#">AIM7DT1AR60V3</a>	IPM-7DA	Active High	600	2.0

## Pricing and Availability

The Mega IPM7 series is immediately available in production quantities with a lead time of 16 weeks. The unit price in 1,000-piece quantities is \$1.8.

## 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 bandgap power devices, power management ICs, and modules, including a wide portfolio of [Power MOSFET](#), [SiC](#), [IGBT](#), [IPM](#), [TVS](#), [HV 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 personal computers, graphics cards, data centers, AI servers, smartphones, consumer and industrial motor controls, TVs, lighting, automotive electronics, and power supply units for various 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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