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Alpha and Omega Semiconductor Introduces AMD SVI3 Multiphase Controller with Low Quiescent Power for Graphics and Desktop Systems

Dual Output 8-phase Controller Provides a Complete Power Management Solution when Paired with an AOS Power Stage for AMD AM5 Desktop and Navi44/48 Graphics Platforms

SUNNYVALE, Calif., May 13, 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 power modules, today announced its [AOZ98252QI](#) 2-output, 8-phase controller with low 2.5 mA quiescent power. Featuring AMD SVI3 high-speed and SMBus digital interfaces, the AOZ98252QI is engineered as a key component in a complete system power solution with AOS' DrMOS products for graphics and desktop systems.

The AOZ98252QI digital controller provides two output rails in flexible 8+0 to 4+4 GFX/SOC and Vcore/SOC output rails. It is designed with AOS' Advanced Transient Modulator (A²TM) that delivers cutting-edge variable frequency hysteretic peak current mode control with a proprietary phase current sensing scheme. Using the A²TM feature, designers can achieve fast response times and optimal current balance for transient and DC loads. These benefits also provide design flexibility, helping to lessen component count and reduce BOM costs while streamlining design efforts.

This new AOS power solution offers low quiescent power in all power states, providing the enhanced energy efficiency demanded by next-generation graphics and desktop system designs. Designed to meet the AMD SVI3 2.0 specification, it features an SMBus interface that facilitates application-specific configurations, allowing settings to be programmed into product registers. These capabilities also reduce the need for manual solder rework during development. Programming is streamlined using the AOS Graphical User Interface (GUI) or a customized Embedded Control (EC). The controller also provides the ability to store register settings during development and when the configuration is finalized.

Designers can use the AOZ98252QI to provide a full range of protection and warning features, including UVP, OVP, OCP, and OTP. Fault protection behavior can also be easily programmed through SMBus. In addition, AOS' Vcore and GFX solution offers real-time telemetry information via SMBus for VIN, VOUT, temperature, output current, power state, and Psys / Isys input reporting.

When paired with AOS' full portfolio of DrMOS Power Stages, graphics, and computing systems, designers get a cost-effective, high-performance core power solution that matches their advanced feature and capability goals. For example, the AOZ5310NQI-A and AOZ5517QI-03 DrMOS solutions are offered in small QFN5x5 packages that meet the power requirements in graphics and desktop applications while providing best-in-class robustness.

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“Our AOZ98252QI features industry-leading quiescent power and can be paired with AOS’ Power Stages for a cost-effective, high power density, and high-performance power management solution. With AMD approval, our key customers are confident they can actively design this solution for their next-generation graphics and desktop products,” said Daniel Lenskold, Director of Product Marketing for the Power IC Product Line at AOS.

Technical Highlights

- AOS Advanced Transient Modulator (A²TM) control: Variable frequency hysteretic peak current mode control ensures fast transient response and dynamic phase current balance
- Two output rails with flexible 8+0 to 4+4 phase configuration
- The SVI3 interface to the CPU is compliant with the AMD 2.0 specification
- Low quiescent current: 2.5 mA (in PSi6)
- Autonomous Phase Management, including Phase shedding and auto DCM to minimize power loss
- User-friendly GUI for compensation and configuration with minimal external RC components
- EC programmability for configurations with built-in MTP
- Supports multi-source industry-standard DrMOS
- QFN 6x6-52L package

Pricing and Availability

The AOZ98252QI is immediately available in production quantities with a lead time of 12-16 weeks. The unit price for AOZ98252QI starts at \$2.95 in 1,000-piece quantities.

About AOS

Alpha and Omega Semiconductor Limited, or [AOS](http://www.aosmd.com), 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](#), [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.

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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