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Alpha and Omega Semiconductor Announces Application-Specific EZBuck™ Regulator to Power Intel Rocket Lake Platform

AOZ2263VQI-01 and AOZ2263VQI-02 with Adjustable Output Voltage using 2-bit VID Provides Highest Power Density Solution for Intel Rocket Lake CPU VCCIO Rails

SUNNYVALE, Calif., April 14, 2021, [Alpha and Omega Semiconductor Limited](#) (AOS) (Nasdaq: AOSL), a designer, developer, and global supplier of a broad range of power semiconductors, power ICs, and digital power products, today introduced a new family of application-specific EZBuck™ regulators. The [AOZ2263VQI-01](#) and [AOZ2263VQI-02](#) are offered in a QFN 4 x 4 package and offer the industry's most compact footprint to support VCCIO rails in Intel Rocket Lake platforms used in desktop computing systems.

Intel's Rocket Lake platform consists of two VCCIO rails; VCCIO_0 and VCCIO_1_2 power multiple I/O in Intel CPU. High-performance, personal computing systems support add-on features requiring high-speed input/output communication. These feature-rich personal computing systems require VCCIO rails with high currents and typical competitor power implementations require either a controller with external discrete power FETs or a converter with a large package. In contrast, AOS's highly integrated solution includes all the power silicon in a single QFN 4 x 4 package for 12A.

Technical Highlights

The AOZ2263VQI-01 and AOZ2263VQI-02 converters include features specifically designed to meet the Intel Rocket Lake Platform's specifications. The 2-bit VID pins allow the VCCIO_0 and VCCIO_1_2 power rail to adjust with voltage for 1.05V, 1.075V, 1.1V, 1.125V, and 0.8V, 0.95, 1.0V, 1.05V, respectively, depending on multiple systems operating modes. Both devices have also passed all the validation requirements included in the Intel Rocket Lake Platform component list. This validation puts the regulator through stringent tests to ensure compliance with Intel specifications. AOS's proprietary COT architecture provides ultra-fast load transient response performance and enables stable and low voltage ripple operation with small-sized ceramic capacitors, further reducing solution size and cost. AOS EZBuck family is highly integrated; featuring a PGOOD output, an integrated bootstrap diode and integrated soft start. Protection features include cycle-by-cycle current limit, short-circuit protection (SCP), Overvoltage Protection (OVP) and Thermal shutdown. A Low Power Mode (LPM) pin also allows system designs to lower VCCIO rails down to 0V for minimizing system power consumption in standby or idle mode.

Key Features

- Supports Intel Rocket Lake Platform 2 bits VID and Low Power Mode (LPM)
- AOZ2263VQI-01, VID Range = 1.05V to 1.125V
- AOZ2263VQI-02, VID Range = 0.8V to 1.05V
- Wide input voltage range: 4V to 28V
- High Current Capability: 12A
- Low RDS(ON) internal NFETs: 11mOhm HS FET, 7mOhm LS FET
- Thermally enhanced 4 x 4 QFN package

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“The current capability offered by the AOZ2263VQI-01 and the AOZ2263VQI-02 offers designers an easy-to-use solution to support Intel Rocket Lake’s platform. In today’s ever shrinking desktop motherboard form factors, PCB real estate is at a premium. Utilizing AOS’s EZBuck regulator platform technology enables AOS to solve the system designer’s problem of ever-shrinking PCB real estate,” said Wayne Lee, Power IC Marketing at AOS.

Pricing and Availability

The AOZ2263VQI-01 and the AOZ2263VQI-02 are immediately available in production quantities with a lead-time of 12 weeks. The unit price for 1,000 pieces is \$1.058 for the AOZ2263VQI-01 and the AOZ2263VQI-02.

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 power semiconductors, including a wide portfolio of [Power MOSFET](#), [IGBT](#), [IPM](#), [TVS](#), [HVIC](#), [SiC/GaN](#), [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’s 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.

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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