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MaxLinear announces the development of the Rushmore family of 200G/lane PAM4 Digital Signal Processors (DSP)

- *Samsung Foundry leading-edge-CMOS-based DSP family developed in conjunction with MaxLinear homegrown co-optimized SERDES to achieve overall best-in-class power and performance.*

CARLSBAD, Calif.--(BUSINESS WIRE)-- MaxLinear, Inc., a leading provider of high-speed interconnect ICs enabling data center, metro, and wireless transport networks, today announced the development of its fourth generation 200G/lane PAM4 SERDES (Serializer/Deserializer) and DSP family, Rushmore. This new Samsung Foundry leading-edge-CMOS-based family delivers a significant leap in performance, power efficiency and density, enabling data center operators and cloud providers to address rapidly increasing data traffic demand, the transition to higher speed networks, and the critical power efficiency needs of AI/ML networks.

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MaxLinear announces the development of the Rushmore family of 200G/lane PAM4 Digital Signal Processors (DSP)

The Rushmore family encompasses a diverse array of variants tailored to meet the evolving needs of modern data centers and telecommunications networks. This includes support for fully re-timed optical modules, half re-timed optics, and active electrical cables (AECs). Moreover, MaxLinear is introducing both 8x200G-to-8x200G

re-timers and 8x100G-to-4x200G gearbox variants, providing customers with a comprehensive suite of solutions to address their specific requirements.

"The AI/ML revolution has accelerated the pace of innovation across the industry, and that is also the case at MaxLinear," said Drew Guckenberger, Vice President of High Speed Interconnect at MaxLinear. "Starting from our highly successful Keystone 5nm 100G/lane DSP family, the amount of additional innovation that has gone into the new Rushmore 200G/lane DSP family is incredible. The impacts on power and performance our partners will see are expected to be significant for the industry as a whole as we scale into the new AI/ML world."

Building on the technical and commercial success of the Keystone family of 5nm 100G/lane DSPs, Rushmore doubles the data rates and significantly reduces latency for Big Data and AI/ML applications, while simultaneously adding significant additional functionality and performance extensions. The Rushmore family of DSP has been developed in conjunction with homegrown co-optimized SERDES to achieve overall best-in-class power and performance.

"We are excited to collaborate closely with MaxLinear on this industry-leading achievement. Their proven expertise in high-speed interconnect solutions, combined with their strong development approach, made them an ideal partner for developing this next generation PAM4 SERDES IP and DSP using our most advanced manufacturing CMOS process technology," said Marco Chisari, Executive Vice President and Head of US Foundry Business, Samsung Electronics. "This collaboration signifies our commitment to delivering cutting-edge solutions that empower our customers to build next-generation data center and high-performance computing applications."

AI and ML have emerged as key drivers for the growth of the global high-performance computing market, which is directly linked to the need for faster data processing and transfer for AI workloads. Training AI models can be computationally expensive and time-consuming. Higher data rates, enabled by technologies like 200G/lane SERDES and DSPs, allow for faster data movement between processing units and memory, accelerating the training process. Similarly, faster inference speeds are crucial for real-time applications like autonomous vehicles or image recognition, requiring efficient data transfer through high-bandwidth connections.

"Shipments of PAM4 DSPs will grow at a CAGR (Compound Annual Growth Rate) of 50% between 2023 and 2027, primarily driven by AI/ML applications," said Vlad Kozlov at LightCounting. "MaxLinear, with its strong track record in high-speed interconnect solutions, is well-positioned to capitalize on this trend by delivering innovative 200G/lane PAM4 SERDES and DSP solutions that address the specific needs of the AI/ML market, such as high performance, low power consumption, and low latency."

MaxLinear will be exhibiting at the Optical Fiber Communication (OFC) conference in San Diego, California, March 26-28, 2024 at booth 4501.

About MaxLinear, Inc.

MaxLinear, Inc. (Nasdaq: MXL) is a leading provider of radio frequency (RF), analog, digital, and mixed-signal integrated circuits for access and connectivity, wired and wireless infrastructure, and industrial and multimarket applications. MaxLinear is headquartered in Carlsbad, California. For more information, please visit <https://www.maxlinear.com/>.

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This press release contains “forward-looking” statements within the meaning of federal securities laws. Forward-looking statements include, among others, statements concerning or implying future financial performance, anticipated product performance and functionality of our products or products incorporating our products, and industry trends and growth opportunities affecting MaxLinear, in particular statements relating to the partnership between MaxLinear and Samsung and statements relating to certain of MaxLinear’s technologies and products, including the functionality, performance and benefits of such products and statements relating to the potential growth in the AI/ML market and shipments of PAM4 DSPs. These forward-looking statements involve known and unknown risks, uncertainties, and other factors that may cause actual results to differ materially from any future results expressed or implied by these forward-looking statements. We cannot predict whether or to what extent these new and existing products will affect our future revenues or financial performance. Forward-looking statements are based on management’s current, preliminary expectations and are subject to various risks and uncertainties that could cause actual results to differ materially from those described in the forward-looking statements. Forward-looking statements may contain words such as “will be,” “will,” “expected,” “anticipate,” “continue,” or similar expressions and include the assumptions that underlie such statements. The following factors, among others, could cause actual results to differ materially from those described in the forward-looking statements: risks relating to the partnership between MaxLinear and Samsung; risks relating to the development, testing, and commercial introduction of new products and product functionalities; risks relating to our terminated merger with Silicon Motion and related arbitration and class action complaint and the risks related to potential payment of damages; the effect of intense and increasing competition; impacts of global economic conditions; the cyclical nature of the semiconductor industry; a significant variance in our operating results and impact on volatility in our stock price, and our ability to sustain our current level of revenue, which has declined, and/or manage future growth effectively, and the impact of excess inventory in the channel on our customers’ expected demand for certain of our products; the geopolitical and economic tensions among the countries in which we conduct business; increased tariffs, export controls or imposition of other trade barriers; our ability to obtain or retain government authorization to export certain of our products or technology; risks related to the loss of, or a significant reduction in orders from major customers; costs of legal proceedings; information technology failures; a decrease in the average selling prices of our products; failure to penetrate new applications and markets; development delays and consolidation trends in our industry; inability to make substantial research and development investments; delays or expenses caused by undetected defects or bugs in our products; failure to timely develop and introduce new or enhanced products; order and shipment uncertainties; failure to accurately predict our future revenue and appropriately budget expenses; lengthy and expensive customer qualification processes; customer product plan cancellations; failure to maintain compliance with government regulations; failure to attract and retain qualified

personnel; any adverse impact of rising interest rates on us, our customers, and our distributors and related demand; risks related to compliance with privacy, data protection and cybersecurity laws and regulations; risks related to conforming our products to industry standards; risks related to business acquisitions and investments; claims of intellectual property infringement; our ability to protect our intellectual property; risks related to security vulnerabilities of our products; use of open source software in our products; and failure to manage our relationships with, or negative impacts from, third parties. In addition to these risks and uncertainties, investors should review the risks and uncertainties contained in MaxLinear's filings with the United States Securities and Exchange Commission, including risks and uncertainties arising from other factors affecting the business, operating results, and financial condition of MaxLinear, including those set forth in MaxLinear's most recent Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, and Current Reports on Form 8-K, as applicable. All forward-looking statements are qualified in their entirety by this cautionary statement. MaxLinear is providing this information as of the date of this release and does not undertake any obligation to update any forward-looking statements contained in this release as a result of new information, future events, or otherwise.

Market Information

This press release contains statistical data, estimates and forecasts that are based on independent industry publications or other publicly available information. This information involves many assumptions and limitations, and you are cautioned not to give undue weight to such information. We have not independently verified the accuracy or completeness of the information contained in the industry publications and other publicly available information. Accordingly, we make no representations as to the accuracy or completeness of that information nor do we undertake to update such information after the date of this press release.

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