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MaxLinear Partners with JPC Connectivity to Build Active Electrical Cables Using Keystone PAM4 DSP

- *MaxLinear Keystone-powered cables can use up to 40% less power than competitor solutions*

CARLSBAD, Calif.--(BUSINESS WIRE)-- MaxLinear, Inc. (Nasdaq: MXL), a leader in connectivity solutions for hyperscale datacenters, today announced a partnership with JPC Connectivity to produce active electrical cables using MaxLinear's 5nm Keystone PAM4 DSP. The chip-embedded cables are a key component in ensuring maximum data transfer speeds in hyperscale datacenters. JPC Connectivity will demonstrate the new cables at Computex 2023 in Taipei, Taiwan from May 30 – June 2.

JPC Connectivity's new 800G active electrical cables will be powered by MaxLinear's 5nm PAM4 DSPs, which leverage the advantages of 5nm CMOS technology to address the critical needs for low power, highly integrated, high performance interconnect solutions in next generation hyperscale cloud networks. Used in active electrical cables, MaxLinear's Keystone can yield up to a 40% power saving over competitor solutions.

"We're excited to partner with JPC Connectivity on these new active optical cables," said Drew Guckenberger, Vice President of High Speed Interconnect at MaxLinear. "Our Keystone DSPs offer a significant power advantage in this type of application, which is increasingly becoming a critical factor with hyperscale data centers."

One of the fastest-growing technologies in the IT infrastructure space, hyperscale datacenters offer computing, networking, and storage solutions to the enterprise market. The global hyperscale datacenter market was valued at $59.0 billion in 2020, and is projected to reach $585.0 billion by 2030, growing at a CAGR of 25.9% from 2021 to 2030, according to Allied Market Research. Sitting at the heart of the performance of these datacenters are active electrical cables, connecting individual servers together to form blocks and transferring huge amounts of data. The cable market mirrors the growth of data centers. The high-speed electrical market - which includes active optical cables, direct attach copper cables, fiber optics cables, and others – is expected to grow to $17.1B by 2028, up from $10.7B in 2021 according to a market forecast report from The Insight Partners.

"Our new 800G cables using the low power, high performance Keystone DSP is designed to meet the market's need for next-gen interconnect solutions as datacenters transition from passive DAC cables," said Jessica Chang CEO at JPC Connectivity. "We are happy to have MaxLinear as a partner for this innovative new product."

About MaxLinear's Keystone Family

The Keystone 5nm DSP family has been designed to address both 400G and 800G applications and is the first generation to provide 106.25Gbps host side electrical I/O to match the line side 106.25Gbps interface rate. Variants supporting single mode optics (EML and SiPh), multimode optics (VCSEL transceivers and AOCs), and Active Electrical Cables (AECs) are all available and can be paired with companion TIAs to provide complete solutions.

The Keystone family's host side interfaces support 25.78125/25.5625/53.125/106.25Gbps signaling per lane over C2M, MR and LR host channels. The line side interfaces also support the same rates and are targeted for 100G/λ DR, FR, and LR applications. All devices provide extensive DSP functionality, including line-side transmitter digital pre-distortion (DPD), transmit pre-emphasis (TX FIR), receiver feed forward equalization (FFE) and decision feedback equalization (DFE).

These DSPs offer exceptional performance and signal integrity in a compact (12mm x 13mm) footprint suitable for next generation optical module form-factors such as QSFP-DD800 and OSFP800 and are also offered as Known Good Die (KGD) for higher density applications, such as OSFP-XD.

JPC Connectivity will demonstrate the new cables at Computex 2023 in Taipei, Taiwan from May 30 – June 2. The cables are expected be available in Q4 2023.

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 www.maxlinear.com.

About JPC Connectivity

JPC Connectivity was established since 1992 and specializes in Integrated design and production services for electronic components. Applications include 5G Telecom, servers, new energy vehicles, aircraft, smart connection industry, high performance computing products, and Internet of things (IoT).

JPC Connectivity is headquartered in Taipei with offices in Japan, the US, China, Vietnam, and Thailand.

Cautionary Note About Forward-Looking Statements

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 JPC Connectivity and statements relating to MaxLinear's active electrical cables, including but not limited to, with respect to anticipated growth in the potential market opportunities for the cable market and hyperscale datacenters, functionality,

performance and the benefits of use of such products. 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 JPC Connectivity, risks relating to the development, testing, and commercial introduction of new products and product functionalities; risks relating to our proposed merger with Silicon Motion and the risks related to increased indebtedness; the effect of intense and increasing competition; impacts of a global economic downturn and high inflation; the cyclical nature of the semiconductor industry; the political and economic conditions of the countries in which we conduct business and other factors related to our international operations; increased tariffs 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 international geopolitical conflicts; risks related to the loss of, or a significant reduction in orders from major customers; 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; 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, including the impact of excess inventory in the channel on our customers' expected demand for certain of our products, and/or manage future growth effectively; claims of intellectual property infringement; our ability to protect our intellectual property; and a 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

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