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MaxLinear Introduces Smart Power Stage with Current and Temperature Monitoring

- *20A integrated power stage extends telemetry to lower power rails*
- *Small 4mm x 5mm QFN package integrates the driver, high-side (HS) and low-side (LS) MOSFET's*

CARLSBAD, Calif.--(BUSINESS WIRE)-- MaxLinear, Inc. (NYSE: MXL), a leading provider of radio frequency (RF), analog and mixed-signal integrated circuits for the connected home, wired and wireless infrastructure, and industrial and multimarket applications, today introduced its first Smart Power Stage (SPS). The fully optimized XR78021 integrates a synchronous buck gate driver and HS/LS MOSFETs that support up to 20A output current in a compact 4mm x 5mm QFN package. The package design is optimized to provide very low thermal impedance and excellent EMI performance by minimizing parasitic inductances. The XR78021 is targeting conversions from 12V down to as low as 0.6V to meet the requirements of processors and chipsets used in servers, networking and telecommunications equipment.

The XR78021 integrates temperature monitoring and a current sense amplifier with temperature compensation supporting DCR current sensing. The temperature and current telemetry features allow system implementers to design reliable and robust solutions for mission critical end equipment.

"The XR78021 expands our ability to meet the needs of server and enterprise markets," said Joseph Tseng, MaxLinear Director of Marketing, Power Management. "The XR78021 can be used on the +1 phase in multiphase controllers to power 12A to 20A rails and provides real-time temperature monitoring and reporting on critical CPU, memory and system power rails. In addition to MaxLinear's success of 15A and 20A constant on-time regulators in the server market, the XR78021 gives customers the option to have telemetry of current and temperature. When using the XR78021's smaller form factor 4mm x 5mm package instead of the standard 5mm x 6mm footprint in systems, customers can realize much needed space savings."

Availability:

The XR78021 is available now in a RoHS compliant, 4mm x 5mm QFN package. Samples and evaluation boards are available. For more information, visit <https://www.exar.com/xr78021>.

About MaxLinear, Inc.

MaxLinear, Inc. (NYSE:MXL) is a leading provider of radio frequency (RF), analog and

mixed-signal integrated circuits for the connected home, wired and wireless infrastructure, and industrial and multimarket applications. MaxLinear is headquartered in Carlsbad, California. For more information, please visit www.maxlinear.com.

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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, or trends and growth opportunities affecting MaxLinear, in particular statements relating to MaxLinear’s announcement of the introduction of XR78021, including but not limited to potential market opportunities and the benefits of use of XR78021. 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 the availability of XR78021 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: intense competition in our industry and product markets; risks relating to the development, testing, and commercial introduction of new products and product functionalities; the ability of our customers to cancel or reduce orders; uncertainties concerning how end user markets for our products will develop; our lack of long-term supply contracts and dependence on limited sources of supply; potential decreases in average selling prices for our products; and the potential for intellectual property litigation, which is prevalent in our industry. 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 identified in our Quarterly Report on Form 10-Q for the quarter ended September 30, 2018. 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.

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