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MaxLinear Introduces MxL9103, a 28Gbaud Linear TIA for 100Gbps/400Gbps Fiber-Optic Data Center Applications

- *The MxL9103 TIA Offers Lowest Power Consumption and Best Performance for 100Gbps+ Data Center Optical Transceiver Designs*

CARLSBAD, Calif.--(BUSINESS WIRE)-- MaxLinear Inc. (NYSE: MXL), a leading provider of radio frequency (RF) and mixed-signal integrated circuits for cable and satellite broadband communications, the connected home, and for data center, metro, and long-haul fiber networks, announced the MxL9103, a single-channel 28Gbps linear transimpedance amplifier (TIA) targeting low-power pulse-amplitude modulation (PAM-4) and discrete multi-tone (DMT) optical transceivers for data center transceiver designs.

The MxL9103 features best-in-class power consumption of 140mW, which makes it ideally suited for power-sensitive data center designs. The excellent total harmonic distortion (THD) performance and ultra-wide bandwidth supports the linearity required for higher-order-modulation of PAM-4 and DMT, which enables either 50Gbps or 100Gbps data rates on a single lambda (wavelength). The high dynamic range of the IC ensures the best signal reception quality.

The MxL9103 provides automatic-gain-control function for simplified interface design and system control scheme between the TIA and the digital signal processor (DSP). It also integrates received-signal-strength-indicator (RSSI), output shutdown, bandwidth control and photodetector bias voltage functions on-chip.

The TIA is well suited for SFP28 low-power optical transceiver module designs.

“Low power consumption and support of advanced modulation schemes make the MxL9103 optimal for next-generation, low-cost data center transceivers,” said Brendan Walsh, MaxLinear’s Vice President of Marketing for Infrastructure Products. “This device expands our high-speed optical interconnect product family, making MaxLinear a one-stop solution vendor for 100Gbps+ transceiver designs.”

Technical Highlights

The MxL9103 features:

- 140mW typical power consumption
- Typical 3% total harmonic distortion (THD)
- Best-in-class dynamic range
- Photodetector bias

- Bandwidth control
- Receiver signal strength indicator (RSSI)

Availability

The MxL9103 is sampling now. For more information please contact sales@maxlinear.com.

About MaxLinear, Inc.

MaxLinear, Inc. (NYSE:MXL) is a global provider of integrated, radio frequency, and mixed-signal integrated circuits and SoCs. The company is a pioneer in multimedia over coax alliance (MoCA) technology and its products serve broadband communications and infrastructure industries, including cable TV, satellite TV, data center, metro, and long-haul optical transport network 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 the Private Securities Litigation Reform Act of 1995. Forward-looking statements include, among others, statements concerning or implying future financial performance or trends and growth opportunities affecting MaxLinear, including statements related to the performance of the MxL9103. 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 we will successfully commercialize and realize revenues from the MxL9103. Forward-looking statements are based on management's current, preliminary expectations and are subject to various risks and uncertainties, including (among others) integration risks arising from our recent acquisition of Entropic Communications, Inc.; intense competition in our industry; 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; currently pending intellectual property litigation; and the potential for additional 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 our most recent Annual Report on Form 10-K for the fiscal year ended December 31, 2015. 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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