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MaxLinear Launches MxL9142 45Gbaud Linear Transimpedance Amplifier for Telecom and Data Center Coherent Optical Systems

- *The MxL9142's frequency response, low noise, and low power dissipation deliver optimal 45Gbaud intradyne coherent receiver (ICR) performance*

CARLSBAD, Calif.--(BUSINESS WIRE)-- MaxLinear Inc. (NYSE: [MXL](#)), a leading provider of radio frequency (RF) and mixed-signal integrated circuits for the connected home and wired and wireless infrastructure markets, today announced the MxL9142, a dual-channel 45Gbaud linear coherent transimpedance amplifier (TIA) for high-bandwidth dense wave division multiplexing (DWDM) coherent applications.

The MxL9142 is a dual-channel coherent TIA supporting high data rate of 45Gbaud for 200Gbps / 400Gbps optical networking systems. Programmable channel bandwidth and an input equalizer allow receiver performance to be fine-tuned to work with different photo detectors (PD). The device offers industry leading linearity, low noise, and low power dissipation, which makes it the ideal TIA to use for next-generation ICR modules with high performance requirements.

The MxL9142 supports the low differential output swings required for next-generation low-power coherent DSPs. The high transimpedance gain is ideally suited for metro networks, which experience greater signal loss due to the prevalence of older fiber and multiple interconnects.

"100Gbps coherent system deployments are moving full-speed ahead, driven by the continued growth in bandwidth consumption in data centers and telecom networks. 45Gbaud technology, combined with higher modulation like DP-32QAM, can deliver up to 400Gbps data rates in a single wavelength," said Bird Yuan, MaxLinear's Director of Marketing for High Speed Interconnect Products. "MaxLinear now offers a complete coherent TIA product family to address the high-performance needs of next-generation high bandwidth coherent receivers."

The MxL9142's pin-out assignment and functionality are fully compatible with MaxLinear's MxL9105 32Gbaud coherent TIA, which allows one common package design for both 32Gbaud and 45Gbaud ICRs.

Availability

The MxL9142 began sampling in March 2017. For more information contact MaxLinear sales at sales@maxlinear.com.

About MaxLinear, Inc.

MaxLinear, Inc. (NYSE: MXL), a leading provider of radio frequency (RF) and mixed-signal integrated circuits for the connected home and wired and wireless infrastructure markets. 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 MaxLinear's MxL9142. These forward-looking statements involve known and unknown risks, uncertainties, and other factors that may cause actual results to be materially different from any future results expressed or implied by the forward-looking statements. Forward-looking statements are based on management's current, preliminary expectations and are subject to various risks and uncertainties. The closing of recent acquisitions of wireless infrastructure assets from Microsemi and Broadcom present particular risks associated with our ability to integrate the acquired businesses, and maintain relationships with employees, customers, and vendors. In addition, our current expectations with respect to the size of the available market and growth opportunities in future years are subject to substantial management assumptions that are themselves subject to material risks and uncertainties. Additional risks and uncertainties that could affect our assumptions and expectations with respect to the completed acquisitions that also generally affect our business, operating results, financial condition, and stock price, include, intense competition in our industry; our dependence on a limited number of customers for a substantial portion of our revenues; uncertainties concerning how end user markets for our products will develop; potential uncertainties arising from continued consolidation among cable television and satellite operators in our target markets and continued consolidation among competitors within the semiconductor industry generally; our ability to develop and introduce new and enhanced products on a timely basis and achieve market acceptance of those products, particularly as we seek to expand outside of our historic markets; potential decreases in average selling prices for our products; risks relating to intellectual property protection and the prevalence of intellectual property litigation in our industry, including pending litigation against us by a third parties in the United States District Court in Delaware and Superior Court of California; our reliance on a limited number of third party manufacturers; and our lack of long-term supply contracts and dependence on limited sources of supply. 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, 2016 and our Current Reports on Form 8-K. 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

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