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MaxLinear Introduces MxL9162 64Gbaud Linear Transimpedance Amplifier for Next-Generation 400Gbps / 600Gbps Coherent Systems

- *The MxL9162 TIA enables next-generation 400Gbps / 600Gbps coherent long-haul, metro and data-center interconnect receiver designs with industry-leading RF performance, advanced features and low power dissipation*

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 introduced the MxL9162, a 64Gbaud linear coherent transimpedance amplifier (TIA) for next-generation 400Gbps/600Gbps dense wave division multiplexing (DWDM) coherent systems.

The MxL9162 features best-in-class RF system performance including over 40GHz channel bandwidth, low total harmonic distortion (THD), input referred noise density, power dissipation and channel crosstalk. The device exceeds the high-performance requirements of next-generation 64Gbaud high bandwidth (HB) micro-intradynic coherent receiver (ICR) designs for long-haul, metro and datacenter interconnect applications.

The MxL9162 is a dual-channel TIA with a per-channel data rate of 64Gbaud. Its excellent THD and optimal channel signal-to-noise-ratio enable a higher order of signal modulation such as 64-QAM that is required to support 400Gbps/600Gbps single wavelength data rates. An integrated photo detector bias and SPI interface with integrated high-resolution DAC/ADC greatly simplifies the peripheral circuit design, reduces module bill-of-material cost and minimizes substrate real estate. Ultra-low input referred noise density and low power consumption make it the best option for next-generation HB micro-ICR designs.

Additionally, the integrated equalizer function with programmable gain peaking profile allows receiver sensitivity to be optimized with PDs and package designs from a wide range of manufacturers. The MxL9162 also supports the low differential output swings required for the next generation of low-power coherent DSPs.

MaxLinear will demonstrate the MxL9162 64Gbaud coherent TIA at OFC 2017, which will take place at the Los Angeles Convention Center on March 21 to 23, 2017. The company will be in stand #2471.

"Today, mainstream 32Gbaud-based 100Gbps/200Gbps DWDM coherent systems bring a great balance of performance and cost to optical networks. For telecom and data center

operators to further increase data capacity, and to reduce cost-per-bit, coherent technology supporting higher bandwidth and a higher order of modulation is required,” said Bird Yuan, MaxLinear Director of Marketing, High Speed Interconnects. “We believe MaxLinear’s high-speed interconnect component technology delivers the best performance and enables next-generation high bandwidth coherent deployments.”

Availability

The MxL9162 will begin sampling in the second quarter of 2017. More information is available 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 MxL9162. 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 as a result of new information, future events, or otherwise.

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