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MaxLinear Launches the MxL9244 45Gbaud Linear Mach-Zehnder Modulator Driver for 200Gbps / 400Gbps Telecom and Data Center Applications

- *MxL9244's frequency response, best-in-class linearity and low power make it the ideal optical modular driver for 45Gbaud transceiver designs; Transceiver design performance is optimized when used with 45Gbaud MxL9142 transimpedance amplifier in an intradyne coherent receiver*

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 MxL9244, a quad-channel linear **Mach-Zehnder** (MZ) modulator driver for next-generation 200Gbps / 400Gbps coherent systems.

The MxL9244 is designed for data center, long-haul and metro telecom network systems. With its best-in-class total harmonic distortion (THD) performance, the MxL9244 supports next-generation linear DP-QPSK / DP-16QAM / DP-32QAM coherent transceiver designs where component linearity and bandwidth performance is critical for optimal optical signal-to-noise ratio (OSNR) performance.

The MxL9244 features a serial peripheral interface (SPI) to perform all control and monitoring functions, which greatly simplifies module peripheral circuitry design. A programmable input gain equalizer compensates for high frequency loss from the printed circuit board (PCB) and the package. The MxL9244 can support up to 400Gbps data rate in a single wavelength when used with higher-level modulation such as DP-32QAM.

The device also integrates broadband bias tee to maintain optimal power dissipation. The MxL9244 is available in a small, 14mm x 9mm, SMT package that makes it ideal for the next-generation CFP-DCO, CFP2-ACO or smaller form-factor module designs where high face-plate density and minimized power dissipation are desired.

"A 45Gbaud coherent solution is appealing to both datacenter and telecom operators as it not only offers longer reach capability for 200Gbps and higher long-haul transport, but also enables 400Gbps data transport in a single wavelength," said Bird Yuan, MaxLinear Director of Marketing for High Speed Interconnect Products. "We expect that the MxL9244's leading optical modulator driver performance – combined with the companion MxL9142 TIA - will have a significant impact on the performance of emerging 200Gbps / 400Gbps products."

Availability

The MxL9244 samples will be available beginning in Q2 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 MxL9244. 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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