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MaxLinear Launches MxL9203 Ultra-Low-Power 32Gbaud Linear Driver for 100Gbps / 200Gbps Coherent Long-Haul and Metro Applications

- *MxL9203 delivers best-in-class RF performance while consuming 30 percent less power than existing driver ICs; Optimal optical transceiver performance can be achieved when combined with intradyne coherent receiver designed with companion MxL9105 32Gbaud transimpedance amplifier*

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 MxL9203, a quad-channel linear Mach-Zehnder (MZ) modulator driver for next-generation 200Gbps dense wave division multiplexing (DWDM) coherent systems.

With an attractive combination of ultra-low-power dissipation and best-in-class total harmonic distortion (THD) performance, the feature-rich MxL9203 supports next-generation linear DP-QPSK / DP-16QAM designs for telecom long-haul and metro networks where better linear driver performance is demanded.

The MxL9203 has a per-channel data rate of 32Gbaud with differential input and single-ended output. The MxL9203 features a serial peripheral interface (SPI) to perform all control and monitoring functions, which greatly simplifies module peripheral circuitry design and eliminates the need for external analog / digital conversion (DAC/ADC) and op-amp components that are required by conventional driver devices.

A programmable input gain equalizer compensates for high frequency loss from the printed circuit board (PCB) and the package, and provides bandwidth optimization capability to support up to 260Gbps data rate. The MxL9203 supports both legacy manual gain control mode and automatic gain control mode.

The device also integrates broadband bias tee to maintain optimal power dissipation. The MxL9203 is available in a small 14mm x 9mm SMT package that makes it ideal for the next-generation CFP-DCO or smaller form-factor module design for telecom applications where maximizing face-plate density and minimizing power dissipation are critical.

“Coherent technology, like the MxL9203, is helping carriers to build cost-effective long haul and metro networks that can meet the extreme growth in data consumption. The MxL9203 comes into this market with leading performance as well as the power dissipation and small

size that can make next-generation coherent systems possible,” said Bird Yuan, MaxLinear’s Director of Marketing for High Speed Interconnect Products. “Leading telecom customers’ interest in this part shows that the MxL9203’s best-in-class performance and reliability are critically important.”

Availability

The MxL9203 is sampling now. 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 MxL9203. 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. Forward-looking statements are based on management’s current, preliminary expectations and are subject to various risks and uncertainties, including (among others) risks relating to integration of our acquisitions of assets from Microsemi Corporation and from Broadcom; 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 as amended by Amendment No. 1 filed with the SEC on April 28, 2016; our subsequent Quarterly Reports on Form 10-Q for the quarter ended March 31, 2016, June 30, 2016 and September 30, 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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