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# MaxLinear Launches High-Performance 32Gbaud Linear Coherent Transimpedance Amplifier (TIA) for 100Gbps/200Gbps Long-Haul and Metro Networks

- *The MxL9105 TIA delivers industry best overall RF performance 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 cable and satellite broadband communications, the connected home, data center, metro, long-haul fiber networks, and wireless infrastructure, today introduces the MxL9105, a dual-channel linear coherent transimpedance amplifier (TIA) for 100Gbps/200Gbps dense wave division multiplexing (DWDM) coherent systems.

With best-in-class overall system performance including low input referred noise density, total harmonic distortion (THD), power dissipation, channel crosstalk and high channel bandwidth, the MxL9105 completely satisfies the performance requirements of next-generation intradyne coherent receiver (ICR) designs for long-haul and metro applications.

The MxL9105 is a dual-channel TIA with a per-channel data rate of 32Gbaud. Programmable channel bandwidth allows receiver sensitivity to be optimized with photo detectors (PDs) from a wide range of manufacturers. Ultra-low input referred noise density and extremely low power consumption make it ideal for the entire range of 32Gbaud ICR module designs including type 1, type 2, and the latest micro-ICR.

The MxL9105 supports low differential output swings required for the 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.

“While the 100Gbps market is still growing rapidly, carriers are starting active deployment trials of 200Gbps DWDM systems. We believe 2017 will be the year that broader demand for this technology will emerge,” said Bird Yuan, MaxLinear’s Director of Marketing for High Speed Interconnect Products. “Relative to the legacy solution, the MxL9105 is superior in performance in all the critical metrics of comparison, namely sensitivity, linearity, and power consumption.”

The MxL9105’s pin-out assignment and functionality are fully compatible to legacy 32Gbaud coherent TIA, which minimizes customers’ re-design and re-qualification efforts.

## **Availability**

The MxL9105 is sampling from January 2017. More information is available at [sales@maxlinear.com](mailto:sales@maxlinear.com).

## **About MaxLinear, Inc.**

MaxLinear, Inc. (NYSE: MXL), is a leading provider of radio frequency (RF) and mixed-signal integrated circuits for cable and satellite broadband communications, the connected home, data center, metro, long-haul fiber networks, and wireless infrastructure markets. MaxLinear is headquartered in Carlsbad, California. For more information, please visit [www.maxlinear.com](http://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 MxL9105. 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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