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# MaxLinear Showcases Wireless Backhaul Product Portfolio Strength with 20 Gbps Millimeter Wave Modem SoC

- *The MxL85110 supports the highest throughput bit rates for point-to-point millimeter wave wireless products*

BARCELONA, Spain--(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 MxL85110 baseband system on-chip (SoC) for broadband wireless transmission systems.

With its exceptional 20 Gbps throughput, the MxL85110 provides a flexible solution that meets the evolving demands of fronthaul and backhaul networks, supporting both all outdoor unit (AODU) and pure IP transport implementations for 4G and 5G cellular networks.

The comprehensive functionality supported by the MxL85110 includes a complete processing chain, from the various user IP interface technologies to analog baseband signals. The MxL85110 supports large channel-spacing spans of between 50 MHz and 2 GHz, modulation rates from binary phase-shift keying (BPSK) to 1024-QAM, and high spectral efficiency supporting multiple-input and multiple-out (MIMO) transceivers and cross pole interference cancellation (XPIC).

As operators seek to efficiently expand bandwidth in fronthaul and backhaul networks, leveraging millimeter bands (V-Band and E-Band) has emerged as an attractive option due to larger blocks of available spectrum and lower licensing costs. The wideband MxL85110 enables operators to take full advantage of these benefits.

“As wireless networks migrate toward 5G standards, service providers will need new tools to transport the massive amount of data that is aggregated at the base station with minimal latency,” said Sean Martin, Director of Marketing. “High-capacity millimeter wave transmission will be a key building block for both fronthaul and backhaul applications to enable commercially viable 5G network deployments. MaxLinear is well positioned for this market with the MxL85110 and we will showcase our capabilities for early 5G field trials during Mobile World Congress 2017.”

## Technical Details

The MXL85110 provides a complete processing chain from the various interface technologies of user's data to analog baseband signals. The MXL85110 is characterized by these main features:

- Glueless connectivity to the RF/IF analog circuitry via integrated AFE DACs and ADCs
- Synchronous Ethernet (SyncE)
- 1588v2, transparent clock (TC) mode
- Full-duplex, single carrier, FDD modem
- XPIC
- Bit rates up to 10Gbps
- Modulation from BPSK to 1024 QAM
- Channels spacing of 50MHz to 2GHz
- Baud rate up to 1600 Mbaud
- Configurable LDPC or RS FEC channel codes
- High phase noise immunity
- Ethernet and GPI interfaces
- In-band management link

The MxL85110 is now available from MaxLinear's worldwide sales team. For more information, or to schedule a viewing of the MWC 2017 demo, email: [info@maxlinear.com](mailto:info@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](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 MxL85110. 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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