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MaxLinear Debuts 32-Channel DOCSIS® 3.0 Full-Spectrum Capture Cable TV Receiver

- *New Full-Spectrum Capture™ receiver delivers up to 1.6 Gbps data rates at less than 75mW power dissipation per channel*
- *MaxLinear and Intel will demonstrate reference design at IBC 2014 featuring MxL268 and 32-channel Intel® Puma™ 6 DOCSIS 3.0 SoC*

AMSTERDAM--(BUSINESS WIRE)-- MaxLinear, Inc. (NYSE: MXL), a [leading provider of integrated radio frequency \(RF\) and mixed-signal integrated circuits](#) for broadband communications applications, today announced the MxL268, a 32-channel, Full-Spectrum Capture™ (FSC™) receiver for next-generation DOCSIS 3.0 cable applications.

Delivering up to 1.6 Gbps throughput, the MxL268 is an ideal fit for cable operators looking to exceed speeds offered by their fiber-to-the-home (FTTH) competitors while maximizing investment in their existing infrastructure. With its FSC technology, the MxL268 captures the full 1 Gigahertz (GHz) cable spectrum, enabling cable operators to configure their systems flexibly to meet different consumer requirements for different combinations of data speeds and number of video channels.

The new device will be part of a platform demonstration with Intel at IBC 2014 in Amsterdam that combines the Intel Puma™6 32-channel DOCSIS 3.0 SoC with the MxL268 receiver in a platform bonding 32 DOCSIS 3.0 channels. The demonstration will be located in Intel's booth in Hall 14, location L20. IBC 2014 runs from Sept. 12 – 16.

The MxL268 is pin compatible with MaxLinear's MxL265 16-channel and MxL267 24-channel receivers, simplifying the effort of migrating designs to 32 channels. Manufacturers can reuse their investment in their Puma6 gateway designs by simply replacing the receiver with the MxL268.

The receiver is capable of simultaneously receiving any combination of 32 channels located arbitrarily inside the cable spectrum. Like other MaxLinear FSC cable receivers, the MxL268 features significantly reduced power consumption for gateways and STBs, minimized PCB footprint, reduced external RF bill-of-materials, and simplified design of customer platforms requiring multiple channel access.

"The MxL268 is designed for gateways and STBs where performance and functionality are critical. The FSC technology, integrated functionality and proven operation with Intel SoCs combine to make the MxL268 the best choice for 32-channel systems," said Brian Sprague, MaxLinear's Vice President and General Manager for Broadband and Consumer Products.

“Low power, industry-leading integration and pin compatibility with our 16-channel and 24-channel devices are just some of the ways that we’re helping cable system OEMs get to market faster with superior 32-channel systems.”

Technical Highlights

Based on MaxLinear’s industry-leading, low-power 40 nm CMOS process technology, the MxL268 offers a monolithic digital cable front-end with integrated LNA and signal conditioning functions combined with a Full-Spectrum Capture receiver. In full 32-channel receive mode of operation, the MxL268 provides up to 1.6 Gbps downstream speeds and consumes less than 75mW per channel, eliminating the need for expensive heat removal components such as fans, heat shields and heat sinks inside customer equipment.

The MxL268 supports remote spectrum analyzer functions that report network health and performance parameters, which can be used by cable operators in managing and troubleshooting their networks. This innovative feature allows cable operators to avoid costly technician visits to customer homes by remotely monitoring and diagnosing potential problems with customer premises equipment.

The MxL268 is compliant with Energy Star and the European Code of Conduct for Digital TV Services and Broadband Equipment requirements for both standby and operating modes.

The device exceeds requirements for DOCSIS and video applications, including the stringent test scenarios under SCTE40 plant loading and impairment conditions. The device supports a serial interface to a DOCSIS 3.0 modem, and has an integrated single-channel tuner for low-power operation.

Availability

The MxL268 32-channel DOCSIS 3.0 digital cable receiver is available now in a standard 7 mm x 7 mm QFN package. Please contact MaxLinear for ordering information.

About MaxLinear, Inc.

MaxLinear, Inc. is a leading provider of radio-frequency and mixed-signal semiconductor solutions for broadband communications applications. 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, in particular statements relating to the introduction of the MxL268 FSC receiver. 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. We cannot predict whether or to what extent we will realize revenues from the introduction of the MxL268 FSC

receiver. Forward-looking statements are based on management's current, preliminary expectations and are subject to various risks and uncertainties, including (among others) 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 risks and uncertainties identified in our Quarterly Report on Form 10-Q for the quarter ended June 30, 2014. 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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