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MaxLinear and NewVasTek Announce Breakthrough Wireless Gigabit Data and Power Solution

- *Joint solution delivers multi-gigabit data throughput and up to 60 watts of wireless power through solid walls and low-E glass windows*
- *Solution targeted at emerging 5G fixed wireless broadband access applications*

CARLSBAD, Calif.--(BUSINESS WIRE)-- MaxLinear, Inc. (NYSE:MXL), a leading provider of radio frequency (RF), analog and mixed-signal integrated circuits for wireless and wired infrastructure, industrial, the connected home and multimarket applications, and NewVasTek, a leading provider of customized solutions for wireless power transfer based in Taiwan, today announced a joint reference design that combines MaxLinear's AirPHY™ multi-gigabit modem technology with NewVasTek's customized AirFuel resonant wireless power technology.

The joint solution is able to provide up to 60W of wireless power from an indoor unit (IDU) to an outdoor unit (ODU) with 5G modem and phased array antenna, while also transferring up to 2.5Gbps through a wireless AirPHY link. It solves a critical problem for 5G fixed wireless access (FWA) providers that use millimeter wave (28-60GHz) radio frequencies to deliver multi-gigabit broadband services to consumers and businesses.

The 5G millimeter wave signals are not able to effectively penetrate structural walls or energy-efficient windows with low-emissivity (low-E) metallic coatings, which forces service providers to install the wireless receiver on the outside of a home or building.

Existing solutions for bridging power and data from outside to inside the home require drilling a hole through the wall and running Ethernet cabling to the indoor router or gateway. A total wireless solution is much more attractive to both homeowners and service providers as it reduces installation costs, eliminates the need for holes and wires, and enables the potential for a self-installation model, where consumers can easily install the indoor equipment without scheduling a service call or opening their home to installers.

NewVasTek has developed AirFuel resonant power transmitter units (PTU) and power receiver units (PRU). These wireless power products build on NewVasTek integration and development capabilities and its proven history of developing low- and high-power solutions compliant with the AirFuel Alliance (AFA) standards for resonant wireless charging. Beyond the existing AirFuel Alliance standard, NewVasTek has upgraded its 6.78MHz-based resonant power transfer distance to eight inches (20cm) so the 60W of wireless power can now penetrate solid walls.

Multi-gigabit data throughput is provided by MaxLinear's MxL210x family of AirPHY data modems that operate within unlicensed radio frequency bands and below the FCC and European Telecommunications Standards Institute (ETSI) limits for radiated emissions. The MxL210x enables wireless data throughput of up to 2.5Gbps while penetrating nearly all construction materials up to 1 meter (~3 feet) in thickness. AirPHY technology is capable of avoiding over-the-air interference and modulating its performance for maximum speed and robustness.

"Wireless power is evolving very quickly – from charging applications to now remote powering of customer premise equipment. NewVasTek was founded to focus on the development of AirFuel resonant wireless power, as we believe it's the only wireless power technology able to transfer enough power across a certain distance. And unlike other low frequency wireless power technologies, its frequency doesn't heat most of the metal objects, so the application scope is much broader. Our core technology is quite suitable for this emerging application, and we're excited to demonstrate this at Mobile World Congress Americas," said Fang Ming Liang, President of NewVasTek. "We searched for the right 5G technology for this application and found that MaxLinear's AirPHY is the only one to combine the ultra-broadband speeds with the ability to penetrate almost any building to pair with our wireless power with the ability to penetrate both windows and solid walls."

"Adding wireless power to our AirPHY technology is a great consumer feature and gives broadband service providers many new options for easily deploying 5G fixed wireless services," said Will Torgerson, Vice President and General Manager of MaxLinear's Broadband Group. "This joint solution is a big step toward AirPHY serving as a complete and competitive last mile access technology."

Demonstration at MWCA

A demonstration of the integrated AirPHY and wireless power solution will be held during Mobile World Congress Americas, from Sept. 12-14, 2018, in Los Angeles. For reservations, please contact sales@maxlinear.com or Thomas Lin at thomas@newvastek.com.

About NewVasTek Corp.

NewVasTek, based on Taiwan, is a provider of wireless power professional services and solutions. The company specializes in both power transmitter units (PTU) and power receiver units (PRU) for OEM and ODM markets. The company also provides PRU resonator customization engineering services. NewVasTek develops chips, modules and end products that are AirFuel and FCC/CE certified. More information is at http://www.newvastek.com.

About MaxLinear, Inc.

MaxLinear, Inc. (NYSE:MXL), a leading provider of radio frequency (RF), analog and mixed-signal integrated circuits for the connected home, wired and wireless infrastructure, and industrial and multimarket applications. MaxLinear is headquartered in Carlsbad, California. For more information, please visit www.maxlinear.com.

Cautionary Note About Forward-Looking Statements

This press release contains “forward-looking” statements within the meaning of federal securities laws. 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 NewVasTek’s use of MaxLinear’s AirPHY™ multi-gigabit modem technology. 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 our relationship with NewVasTek. Forward-looking statements are based on management’s current, preliminary expectations and are subject to various risks and uncertainties that could cause actual results to differ materially from those described in the forward-looking statements. Forward-looking statements may contain words such as “will be,” “will,” “expected,” “anticipate,” “continue,” or similar expressions and include the assumptions that underlie such statements. The following factors, among others, could cause actual results to differ materially from those described in the forward-looking statements: intense competition in our industry, particularly in our broadband markets; the ability of our customers, including NewVasTek, 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; and the potential for 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, 2018. 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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