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MaxLinear MxL85110 Virtual Fiber™ 20 Gigabit Ethernet Modem SoC Selected by Technetix for Wireless Fronthaul-over-Coax Solution

- *Technetix's revolutionary Virtual Segmentation™ solutions enable MNOs to provide 10 Gbps symmetrical throughput over existing coax, powered by MaxLinear 20Gbps modem technology*

CARLSBAD, Calif.--(BUSINESS WIRE)-- MaxLinear Inc. (NYSE: [MXL](#)), a leading provider of radio frequency (RF) and mixed-signal integrated circuits for the connected home, wired and wireless infrastructure, and industrial and multimarket applications, today announced that Technetix Inc. has selected its MxL85110 broadband modem system-on-chip (SoC) for a new product that enables 10 Gbps throughput over coaxial cable infrastructure.

As mobile network operators (MNOs) face the challenge of providing high-bandwidth fronthaul and backhaul networks to address the bandwidth and low latency requirements of future 5G services, Technetix's Virtual Segmentation™ product line provides high-speed connections using existing coaxial cable infrastructure. This saves the cost of laying new fiber-optic cabling, providing MNOs with new flexibility in terms of where to locate nodes and how to provide connectivity to their core network.

Virtual Segmentation Uses Coax to Meet Needs of 4G, 5G Fronthaul

By using Virtual Segmentation, 10 Gbps throughput can be provided over a single coaxial cable, alleviating the need to lay fiber or to carefully position and spectrum-manage adjacent fixed wireless radios. For suburban locations where coax is available, 5G can be provisioned quickly and cost-effectively given the ability to leverage existing coax infrastructure.

This video-centric market mandates stringent quality-of-service (QoS) requirements over all transport media. Virtual Segmentation delivers robust connectivity over coaxial cable and provides configurable QoS assurance, TR-069 remote management, and secure firmware upgrade capability.

The Technetix Virtual Segmentation product uses MaxLinear's MxL85110 chipset. The MxL85110 provides up to 20 Gbps (10 downstream + 10 upstream) Ethernet capacity, ultra-low latency of 5 microseconds per node, and Adaptive Code Modulation ranging from BPSK to 1024 QAM. The device can be programmed for flexible bandwidth from 25MHz to 2GHz, with independent asymmetric transmit and receive configuration. It also delivers the highest spectral and payload efficiency for productive utilization of cable bandwidth with no MAC-

layer overhead. Additional features include carrier-grade synchronous Ethernet and IEEE 1588v2 synchronization and an integrated management channel.

“Technetix is a leading provider of cable products worldwide. Their innovative Virtual Segmentation solutions address a real market need for cable plant diversity, leveraging existing infrastructure for 5G service deployment, resulting in significant capital expenditure savings, dramatic improvement in the 5G network rollout business case, and accelerating deployment time-frames,” said Brendan Walsh, Vice President of the Wireless Group for MaxLinear.

“New applications like 4K video, cloud storage, real-time gaming, video streaming and voice-activated assistants will push the demands of 4G networks. Our carrier customers are demanding fronthaul and backhaul solutions that can scale to handle these applications, while having enough headroom to support future services enabled by 5G,” said Paul Broadhurst, Founder and Chief Executive Officer of Technetix. “By using MaxLinear’s Virtual Fiber modem platform, we ensure we meet our customer requirements today, while having the flexibility to adapt to new requirements in the future.”

The Technetix Virtual Segmentation product provides a 10GbE input to connect to the core network/uplink, single RF output connecting the transceiver to the network, and is deployable as either a transceiver or repeater. The product supports flexible provisioning of upstream and downstream frequency configuration with an industrial-grade temperature range that allows for deployment in harsh environmental conditions.

Technetix’s Virtual Segmentation products will be displayed at MaxLinear’s Mobile World Congress demonstration suite. To view a demonstration of these products, please contact a MaxLinear sales representative or send an email to sales@maxlinear.com.

About Technetix

Technetix is a global provider of market leading broadband technology to major cable operators worldwide. We deliver 135 million products every year to over 2,300 customers based in 91 countries. Technetix can provide MSOs with innovative products and solutions throughout the network - from the headend to the home. For more information please visit www.technetix.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.

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Cautionary Note About Forward-Looking Statements

This press release contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. Forward-looking statements include, among others, statements

concerning our reference design win with Technetix and statements concerning or implying the performance of MaxLinear's technologies, their potential use cases, and the potential impact of these technologies or our design win with Technetix on our business and future operating results. 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. In particular, our future operating results are substantially dependent on our assumptions about market trends and conditions and our expectations with respect to recently completed acquisitions, including our ability to integrate our recently completed acquisition of Exar Corporation. Additional risks and uncertainties arising from our operations generally and our recently completed acquisitions 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; indemnification obligations of Exar arising from a recent divestiture; the impact on our financial condition of acquisition indebtedness and cash usage arising from the Exar transaction; 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 our filings with the Securities and Exchange Commission (SEC), including the information under the caption "Risk Factors" in our Annual Report on Form 10-K for the year ended December 31, 2016 and our Quarterly Report on Form 10-Q for the quarter ended September 30, 2017. All forward-looking statements are based on the estimates, projections and assumptions of management as of the date of this press release, and MaxLinear is under no obligation (and expressly disclaims any such obligation) to update or revise any forward-looking statements whether as a result of new information, future events, or otherwise.

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