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MaxLinear & Innovium Successfully Test Interoperability for 400G DR4/FR4 & 100G DR1/FR1

- *MxL935xx based 100/400G connectivity validated with TERALYNX switch to help drive faster adoption of higher performance data center networks*

CARLSBAD, Calif.--(BUSINESS WIRE)-- 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, and Innovium, a leading provider of networking switch solutions for data centers, today announced successful interoperability testing of MaxLinear's Telluride PAM4 DSPs with Innovium's industry leading 12.8Tbps TERALYNX™ Switch ASIC.

The tests successfully validated the functionality of the Telluride products in 400Gbps mode with support for breakout mode clocking in DR4 operation. Breakout mode clocking is an essential feature for hyper-scale data center customers for 400G DR4 deployments. MaxLinear's 400G Telluride DSP (MxL9354x) is currently the only PAM4 DSP SoC product that successfully integrates this clocking requirement. In addition, the 100Gbps testing validated functionality of CAUI-4 (4X 25G NRZ), 100GAUI-2 interfaces and support for the required PAM4 KP4 FEC implemented in the 100G Telluride DSP (MxL9351x).

"First time success of the organically developed, low power, high-speed IP that operates at 25G NRZ, 50G and 100G PAM4 in the Telluride family of products establishes MaxLinear as a credible partner in the PAM4 and high-speed connectivity ecosystem," said Will Torgerson, Vice President and General Manager of MaxLinear's Broadband Group. "The successful interoperation between two key enablers of the technology confirms that ecosystem is coming together very quickly for industry transition towards 100G single lambda and 400Gbps optics connectivity within data centers."

"Bandwidth demand in the data center is growing at an exponential pace, with increasing deployment of applications such as artificial intelligence, machine learning, distributed applications, video and IP-based storage. To meet this insatiable demand, we are excited to announce interoperability of PAM4-based MaxLinear DSPs used inside next-gen 100/400G optics solutions with TERALYNX™, Innovium's industry leading 12.8Tbps programmable switch. Together, they are ready to power next generation large scale data centers," said Amit Sanyal, VP of Product Management and Marketing at Innovium.

Technical Highlights – Telluride

The Telluride family of low-power, high-performance PAM4 DSP SoCs enable

400Gbps/100Gbps optical modules using a 4x100Gbps/1*100Gbps optics interface. These SoCs are suitable for use within QSFP-DD, OSFP and COBO module form factors. Two options are currently available: the MxL93542/MxL93512 that integrates an EA-EML driver with 1.8V PP SE swing, and the MxL93543/MxL93513 that offers differential 800mV peak-to-peak swing for non EA-EML-based optics. MaxLinear's Telluride products enable sub-10W, 400G optical module solutions.

Technical Highlights – TERALYNX™

TERALYNX offers the world's fastest 12.8 Terabits/sec throughput, while delivering line-rate programmability, largest on-chip buffers, breakthrough telemetry and best-in-class low-latency. TERALYNX includes most up to date support for 10GbE to 400GbE Ethernet and delivers 128 ports of 100GbE, 64 ports of 200GbE or 32 ports of 400GbE in a single device. Innovium's patented ground-up design in TERALYNX provides customers clear advantages in programmability, robust tunneling, low latency, power efficiency, and advanced analytics/telemetry that are essential for scale data centers.

About MaxLinear, Inc.

MaxLinear, Inc. (NYSE:MXL) is 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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About Innovium

Innovium is a leading provider of high performance, innovative switching silicon solutions for data centers. Innovium TERALYNX™ family delivers software compatible products ranging from 3.2Tbps to 12.8Tbps with unmatched power efficiency, radix, programmability, buffers and low latency. Innovium team members have a highly successful track record in delivering several generations of widely deployed data center products. The company is headquartered in Silicon Valley, California and is backed by leading venture capital firms including Greylock Partners, Walden Riverwood, Capricorn Investment Group, Qualcomm Ventures, S-Cubed Capital and Redline Capital. For more information, please visit: www.innovium.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 integration of MaxLinear's products with Innovium's products. 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 Innovium. 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 Innovium, 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 September 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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