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MaxLinear Launches Trinity Platform for Faster, Cost-Efficient, Cloud-Managed, AI-Enabled Wireless Backhaul for 5G Networks

- *Trinity platform delivers carrier-grade, bidirectional 10Gbps performance, helping reduce radio cost and power consumption while enabling AI-based link management through SAI API*

CARLSBAD, Calif.--(BUSINESS WIRE)-- MaxLinear, Inc. (Nasdaq: MXL) today announced availability of **the Trinity™ platform**, based on the URX processor family, delivering carrier-grade, bidirectional wireless backhaul speeds of up to **10Gbps**. **Trinity combines the URX850 SoC with a purpose-built cloud-native API framework** that seamlessly integrates with MaxLinear's millimeter and microwave modems.

This press release features multimedia. View the full release here:

<https://www.businesswire.com/news/home/20260514326305/en/>

MaxLinear's highly integrated Trinity platform for cloud-managed, AI-enabled 5G wireless backhaul delivers carrier-grade, bi-directional backhaul up to 10GBps

Designed for the next generation of intelligent networks, Trinity enables cloud-

managed, AI-optimized backhaul infrastructure, helping operators expand 5G coverage while lowering deployment and operational costs through automation and real-time network intelligence.

Wireless backhaul is the critical link connecting cell towers and radios to the core network. As global mobile data demand surges and 5G expands into underserved areas, operators require wireless backhaul solutions that are not only simpler to deploy, but also more cost-effective and autonomously managed. Traditional approaches require manual provisioning and limited visibility, slowing deployments and increasing costs, particularly in markets with constrained Average Revenue Per User (ARPU).

Industry analysts project strong growth for millimeter wave technology as 5G networks densify and the demand for high-capacity wireless backhaul increases. The global millimeter wave technology market is expected to grow from approximately \$3 billion in 2024 to more than \$7 billion by 2029, representing about 20% annual growth, driven in part by the need for scalable, cloud-managed, and AI-enabled telecom infrastructure.

The Trinity Platform: A Highly Integrated, Carrier-Grade Solution

URX processors are already deployed globally across major carrier networks. Building on the robustness of the URX platform with architectural advancements, MaxLinear's Trinity platform integrates multiple backhaul functions into a **single URX850 chip**, significantly reducing radio system complexity, cost and power consumption.

Reinforcing MaxLinear's commitment to open standards, Trinity supports Open Compute Project (OCP) Switch Abstraction Interface (SAI) enabling seamless migration from legacy systems into software-defined, cloud-managed networks.

Together, these advances strongly position MaxLinear as a key technological partner for operators in the rollout of next-generation wireless backhaul deployments.

"We are excited about the capabilities of the Trinity platform, which reflect MaxLinear's leadership in highly integrated system-on-chip solutions for wireless backhaul," said **Puneet Sethi, SVP & GM of MaxLinear's Network Infrastructure and Carrier Business Unit**. "Leveraging URX's built-in AI acceleration and Trinity SAI API, our OEM customers can now deliver highly differentiated 10Gbps microwave and E band radio systems that enable smarter and with cost savings up to 50%"

What It Means for Original Equipment Manufacturers (OEMs)

By utilizing the Trinity platform, equipment manufacturers can accelerate the design and delivery of more capable backhaul radios, with:

- **Reduced cost and power consumption:** Savings of up to 50% on relevant parts, plus increased power savings for greener operations.
- **Optimized form factor:** Reduced size and weight for easier installation.
- **Enhanced reliability:** Fewer components contribute to a highly improved Mean Time Between Failures (MTBF).
- **Cloud-based network management:** Centralized visibility, provisioning, and orchestration across distributed infrastructure.

This integration is a significant advancement for **outdoor wireless radios**, where space and power are constrained. The Trinity platform now handles functions that previously required multiple components, including switching and quality-of-service (QoS) functionality, aggregation of multiple wireless links to increase capacity, high-speed data encryption to improve security, and precise timing required for carrier-grade networks.

In traditional radio architectures, these functions are implemented by large, power-hungry ASICs, including programmable logic devices (FPGAs). The Trinity platform performs these tasks directly in integrated hardware and software, simplifying designs and maximizing efficiency.

What it means for Mobile Network Operators (MNOs)

Trinity enables simpler, lower-cost radios that support fast, reliable, and scalable networks with several key differentiators:

- **Multi-link aggregation:** Simultaneously aggregates up to four microwave wireless links, automatically adapting to fluctuating channel conditions.
- **Ruggedized performance:** Engineered for harsh environments, operating reliably from

–40°C to +85°C.

- **Advanced security:** Built-in hardware-accelerated, high-speed encryption to protect data integrity.

“Meeting the capacity demands of 5G while maintaining sustainable deployment costs requires a new level of integration and cost optimization in backhaul design,” said **Randeep Sekhon, Chief Technology Officer at Bharti Airtel**. “We appreciate MaxLinear’s focus and investment in these areas and look forward to the availability of next-generation optimized backhaul radio solutions.”

Availability

The Trinity platform, which includes the URX850 and the associated backhaul software kit, is available now. OEM products based on Trinity are expected to launch in the first half of 2027.

About MaxLinear, Inc.

MaxLinear, Inc. (Nasdaq: MXL) is a leading provider of radio frequency (RF), analog, digital, and mixed-signal integrated circuits for access and connectivity, wired and wireless infrastructure, and industrial and multimarket applications. MaxLinear is headquartered in Carlsbad, California. For more information, please visit <https://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 relating to the Trinity platform and the functionality, performance and benefits of such product, statements about the potential market opportunity for the Trinity platform, statements about the potential growth of the global millimeter wave technology market, MaxLinear’s ability to be a technology partner for next-generation wireless backhaul deployments, statements regarding the expected launch date of OEM products based on Trinity and statements by MaxLinear’s SVP & GM and the Chief Technology Officer at Bharti Airtel. 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 and our future financial performance and operating results forecasts generally. Forward-looking statements are based on management’s current, preliminary expectations and are subject to various risks and uncertainties. In particular, our future operating results are substantially dependent on our assumptions about market trends and conditions. Additional risks and uncertainties affecting our business, future operating results and financial condition include, without limitation; risks relating to: the development, testing, and commercial introduction of new

products and product functionalities, including the Trinity platform; the capabilities of MaxLinear's technology, including the Trinity Platform; potential delays related to the launch of OEM products based on Trinity; risks related to a lack of market demand for our Trinity products; our terminated merger with Silicon Motion and related arbitration and class action complaint and the risks related to potential payment of damages; the effect of intense and increasing competition; increased tariffs, export controls or imposition of additional trade barriers; impacts of global economic conditions; the cyclical nature of the semiconductor industry; a significant variance in our operating results and impact on volatility in our stock price, and our ability to sustain our current level of revenue, which has previously declined, and/or manage future growth effectively, and the impact of excess inventory in the channel on our customers' expected demand for certain of our products and on our revenue; escalating trade wars, military conflicts and other geopolitical and economic tensions among the countries in which we conduct business; international geopolitical and military conflicts; our ability to obtain or retain government authorization to export certain of our products or technology; the loss of, or a significant reduction in orders from major customers; legal proceedings or potential violations of regulations; information technology failures; a decrease in the average selling prices of our products; failure to penetrate new applications and markets; development delays and consolidation trends in our industry; inability to make substantial and productive research and development investments; delays or expenses caused by undetected defects or bugs in our products; substantial quarterly and annual fluctuations in our revenue and operating results; failure to timely develop and introduce new or enhanced products; order and shipment uncertainties and differences between our estimates of customer demand and product mix and our actual results; failure to accurately predict our future revenue and appropriately budget expenses; lengthy and expensive customer qualification processes; customer product plan cancellations; failure to maintain compliance with government regulations; failure to attract and retain qualified personnel; any adverse impact of rising interest rates on us, our customers, and our distributors and related demand; risks related to compliance with privacy, data protection and cybersecurity laws and regulations; risks related to conforming our products to industry standards; risks related to business acquisitions and investments; claims of intellectual property infringement; our ability to protect our intellectual property; security vulnerabilities of our products; use of open source software in our products; failure to manage our relationships with, or negative impacts from, third parties; and future decisions relating to our stock repurchase program.

In addition to these risks and uncertainties, investors should review the risks and uncertainties contained in our filings with the Securities and Exchange Commission, including our Current Reports on Form 8-K, as well as the information to be set forth under the caption "Risk Factors" in MaxLinear's Quarterly Report on Form 10-Q for the quarter ended March 31, 2026. 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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