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MaxLinear Advanced Power Management Delivers Sub-5-Watt for Wi-Fi 7 XGS-PON Home Routers and Gateway Platforms

- *Path to sub 5-watt tri-band Wi-Fi 7 home gateways can help operators meet carbon reduction goals.*
- *Demo at Network X will showcase performance using AnyWAN URX851 broadband SoC and the MXL31712 Wi-Fi 7 radio reference platform.*

CARLSBAD, Calif.--(BUSINESS WIRE)-- MaxLinear, Inc. (Nasdaq: MXL), a leader in home connectivity solutions, today announced that it has achieved substantial improvements for idle and active power modes using its Wi-Fi 7 XGS-PON reference platform, setting the stage for more environmentally sustainable home networking using sub-5-watt home routers and gateways. Empowering network operators to be able to meet a 55% CO₂ reduction goals by 2030, MaxLinear has optimized power consumption for numerous use cases for high-performance home gateway units (HGU). MaxLinear will demonstrate the power savings at Network X in Paris October 24-26 at booth B1 using MaxLinear's W-Fi 7, tri-band 4+4+4, XGS-PON home gateway platform.

This press release features multimedia. View the full release here:
<https://www.businesswire.com/news/home/20231023073684/en/>



MaxLinear Advanced Power Management Delivers Sub-5-Watt for Wi-Fi 7 XGS-PON Home Routers and Gateway Platforms (Graphic: Business Wire)

At its demonstration at Network X, MaxLinear will show how its Wi-Fi 7 platform consumes no more than 5.7 watts of power while idling and less than 7.4 to 9 watts in typical usage scenarios, such as video streaming over an XGS-PON fiber link to a Wi-Fi client. At these levels, power consumption is reduced by half of

comparable products on the market. The reference platform used in this demonstration

features the AnyWAN URX851 – MaxLinear’s universal, ultra-scalable broadband SoC - and the MXL31712 Wi-Fi 7 radio, which integrates the tri-band 4+4+4 MAC plus RF in a single chip.

“Power efficiency need not translate to lower SoC performance,” said Will Torgerson, VP/GM Broadband Group at MaxLinear. “Being able to offer high-performance technology with advanced power management is one of the most critical design factors for the new generation of home gateways. With the demonstrated power management on the MaxLinear Wi-Fi 7 reference platforms, we are paving the way for commercial sub-5 watt tri-band Wi-Fi 7 home gateways – taking energy efficiency to a new level to help our customers become carbon neutral.”

The growth in power hungry, always-on HGU’s has prompted many operators to find ways to increase energy efficiency of their products. Many service providers are targeting a 55% CO₂ reduction by 2030 and 100% carbon neutrality by or before 2050. To achieve these greenhouse gas (GHG) emission targets, many companies are optimizing their operations, sourcing greener products, and reducing energy use of “always on” equipment in consumer homes.

“With global fixed broadband subscribers projected to grow from 1.21 billion in 2023 to 1.34 billion by 2028, even small improvements in the energy efficiency of Wi-Fi CPE could deliver significant reductions in global greenhouse gas emissions,” said Andrew Spivey, Senior Analyst, ABI Research. “The number of Wi-Fi CPE shipped annually is also expected to rise, with a forecasted increase from 273.1 million in 2023 to 397.4 million by 2028. Wi-Fi 7 CPE is also expected to see an exponential jump from 11 million in 2024 to 258.9 million in 2028. Clearly, with the number of Wi-Fi CPE shipped to consumers expected to grow, reducing their energy consumption is becoming more important than ever. And with sustainability now at the top of everyone’s mind, this could prove to be a key differentiator for Wi-Fi CPE of the future.”

About MaxLinear’s Wi-Fi 7 Solution

The MaxLinear Wi-Fi 7 platforms feature numerous power domains for dynamic voltage and clock scaling adapting to the current performance needs. System-wide power scaling, such as advanced Wi-Fi performance scaling and band steering, is software configurable easily through standard (Linux) APIs.

MaxLinear's Wi-Fi 7 SoCs offer a world’s-first single chip solution that helps to reduce board complexity, size, and BOM cost. Further, the single chip affords a seamless, coordinated view of multiple bands for an optimal Multi-Link Operations experience. With multi-gigabit speeds, low latency, and support for a massive number of connected devices, MaxLinear’s Wi-Fi 7 SoCs are poised to revolutionize wireless communication, enabling next-generation applications such as augmented reality and ultra-high-definition streaming. MaxLinear's commitment to innovation ensures that these SoCs will play a pivotal role in shaping the future of wireless connectivity.

For more information on the MaxLinear total Wi-Fi 7 solution, visit our [website](#). To learn more about our CSR and ESG focus, [click here](#).

About MaxLinear’s AnyWAN Solution

The MaxLinear AnyWAN™ SoCs - MxL25641, URX850, and URX851 - deliver high levels of integration to enable power- and cost-efficient high-performance home connectivity products. The universal broadband SoCs support all high-speed data access and in-home connectivity technologies, including Fiber-to-the-Home, Fixed Wireless Access, DOCSIS and Ethernet Broadband Access. While the main use case is telco service provider and cable MSO gateways with dual-band and tri-band Wi-Fi 6E or Wi-Fi 7 configurations, the SoCs can be used in applications such as SMB gateways, NAS storage devices, distribution point units, and cellular small cells.

The SoCs:

- Ensure faster time to market and reduces R&D costs
- Enable wirespeed Wi-Fi 7 throughput
- Scale power consumption to performance needs via adaptive power management
- Allow differentiated services due to quad-core CPUs

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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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, anticipated product performance and functionality of our products or products incorporating our products, and industry trends and growth opportunities affecting MaxLinear, in particular statements relating to MaxLinear’s AnyWan products, including but not limited to, with respect to anticipated growth in the potential market opportunities, the expected growth of global fixed broadband subscribers and Wi-Fi CPEs, functionality, performance and the benefits of use of such products and statements by MaxLinear’s Vice President & GM, Broadband Group. 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 these new and existing products will affect our future revenues or financial performance. 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: risks relating to the development, testing, and commercial introduction of new

products and product functionalities; risks relating to the terminated merger with Silicon Motion; the effect of intense and increasing competition; impacts of a 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 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; the political and economic conditions of the countries in which we conduct business and other factors related to our international operations; increased tariffs or imposition of other trade barriers; our ability to obtain or retain government authorization to export certain of our products or technology; risks related to international geopolitical conflicts; risks related to the loss of, or a significant reduction in orders from major customers; 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 research and development investments; claims of intellectual property infringement; our ability to protect our intellectual property; and a failure to manage our relationships with, or negative impacts from, third parties. 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 arising from other factors affecting the business, operating results, and financial condition of MaxLinear, including those set forth in MaxLinear's most recent Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, and Current Reports on Form 8-K, as applicable. 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.

Market Information

This press release contains statistical data, estimates and forecasts that are based on independent industry publications or other publicly available information. This information involves many assumptions and limitations, and you are cautioned not to give undue weight to such information. We have not independently verified the accuracy or completeness of the information contained in the industry publications and other publicly available information. Accordingly, we make no representations as to the accuracy or completeness of that information nor do we undertake to update such information after the date of this press release.

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