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MaxLinear Introduces High Performance Quad RS-485 Receivers with Superior ESD and EFT Protection to Facilitate Robust System Design

- *New products offer up to 32Mbps data rates at extreme temperatures, support for wide power supply range, IEC 61000-4-2 ESD protection, and IEC61000-4-4 electrical fast transient (EFT) protection*

CARLSBAD, Calif.--(BUSINESS WIRE)-- [MaxLinear, Inc.](https://www.maxlinear.com) (Nasdaq: MXL), a technology leader transforming global connectivity, announced today the launch of three new quad RS-485 serial receivers (MxL83411, MxL83433, and MxL83434) specifically designed to ensure reliable communication in harsh industrial environments. The new Quad RS-485 Receivers offer 12 product variations with two speed options (10Mbps and 32Mbps) in two package variants. Building upon MaxLinear's broad half-duplex RS-485 transceiver portfolio, these new products add quad receive capability with high performance, best-in-class ESD and EFT protection with wide voltage supply, and support for high common mode and bus voltage levels.

This press release features multimedia. View the full release here:
<https://www.businesswire.com/news/home/20241205358939/en/>



MaxLinear's new quad RS-485 serial receivers (MxL83411, MxL83433, and MxL83434) specifically designed to ensure reliable communication in harsh industrial environments. They offer up to 32Mbps data rates at extreme temperatures, support for wide power supply range, IEC 61000-4-2 ESD

“Edge AI inference processes in Industrial IoT devices perform critical tasks such as classification, prediction, and anomaly detection, and require accurate real-time data from sensors and other data collection devices to learn and adapt accurately and continuously. Our high-performance RS-485 quad receivers provide a solution to receive

protection, and IEC61000-4-4 electrical fast transient (EFT) protection.
(Photo: Business Wire)

more data with fewer components,” said Dr. Amit Bavisi, Vice

President and General Manager, Analog Mixed-Signal BU at MaxLinear. “These new products also provide extensive system level protection against ESD and other high voltage events to ensure minimal down time and long operating life under extreme conditions.”

Key features and Benefits

- **High Performance:** The MxL834xx family supports up to 32Mbps data rates with excellent pulse symmetry and low propagation delays.
- **System-level Protection:** Bus pins are designed to tolerate up to $\pm 4\text{kV}$ of IEC 61000-4-4 electrical fast transients (EFT) and up to $\pm 12\text{kV}$ of IEC 61000-4-2 electrostatic discharge (ESD).
- **Wide Supply (3.0V to 5.5V):** Ensures reliable operation under a wide range of applications and in systems where the power supply may drop. It also allows for single product qualification for use in both 3.3V and 5V systems.
- **Wide Common Mode:** Up to $\pm 15\text{V}$ of common mode improves communication over long distances.
- **High Input Voltage Tolerance:** $\pm 25\text{V}$ input voltage tolerance can reduce faults and system down time.
- **Extended Operating Temperature Range:** -40 to $+125^\circ\text{C}$ operating temperature ensures operation in extreme environments.
- **Multiprotocol Receive Capability:** The standard RS-485/422 inputs can also accept RS-232, TTL, CMOS, LVTTTL, and LVCMOS signals and convert them to TTL/LVTTTL while providing voltage level translation and optional signal inversion.

Availability & Additional Information

The MxL83411, MxL83433, and MxL83434 are available now in RoHS compliant, green/halogen free, industry standard NSOIC-16 and TSSOP-16 packages. Evaluation boards and samples are available at [MxL83411](#), [MxL83433](#), and [MxL83434](#).

For more information on MaxLinear’s complete portfolio of:

- RS-485 Serial Transceivers, visit www.maxlinear.com/rs485
- RS-232 Serial Transceivers, visit www.maxlinear.com/rs232
- Multi-protocol Transceivers, visit www.maxlinear.com/MP

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 by our Vice President and General Manager, Analog Mixed-Signal BU and statements regarding anticipated product performance, benefits and functionality of MaxLinear's serial receivers. 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 related to our partnerships; risks relating to 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; 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 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; the geopolitical and economic tensions among the countries in which we conduct business; increased tariffs, export controls 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 the loss of, or a significant reduction in orders from major customers; costs of 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 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; 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; risks related to security vulnerabilities of our products; use of open source software in our products; and 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.

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