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MaxLinear Expands Portfolio of Industrial Ethernet Products with a Quad-Port 2.5GBase-T PHY and 1GBase-T Switches

- Extends Expertise to Reach Industrial Markets, Ensuring Extended Operating Temperature Range from -40 to 85° C
- Verifone Adopts GSW145 Quad-Port 1G Ethernet Switch into POS Products

CARLSBAD, Calif.--(BUSINESS WIRE)-- Today MaxLinear (NASDAQ: MXL) announced the immediate availability of two 1000BASE-T Ethernet Switches (GSW125, GSW145) and a quad-port 2.5GBASE-T PHY (GPY245), expanding its Ethernet product portfolio to better serve the industrial, telecommunications, and networking outdoor markets, where products must perform efficiently in harsh temperature environments.

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

<https://www.businesswire.com/news/home/20220407005373/en/>

MaxLinear Expands Industrial Ethernet Products

Adds Industrial Temp Quad-Port 2.5G PHY and 1G Switches



With the increase of outdoor Wi-Fi access points, Industrial IoT and Industrial PCs used to collect, monitor and control equipment, products must operate in either high heat or frigid cold environments. Extreme temperatures can impact network operation, data transmission, and system reliability, causing interruptions

MaxLinear expands industrial Ethernet product family by adding industrial temperature quad-port 2.5G PHY and 1G switches (Graphic: Business Wire)

and downtime, leading to security risks and costly emergency repairs.

"MaxLinear has a 40-year history of being a leading supplier in industrial interface devices, having shipped over 1B serial transceivers over the past five years," said James Lougheed, Vice President of Marketing, High Performance Analog. "As the requirements for industrial-grade Ethernet products continue to grow, we continue to invest to remain in a strong position to support these fast-growing markets."

"Verifone, a global FinTech leader and payment solution provider to the world's largest retail brands, recently adopted the MaxLinear GSW145 Quad-port 1G Ethernet switch for its Engage family of payment terminals that provide secure, reliable and flexible payment experiences to merchants around the world," said Henry Wang, Global Commodity Director at Verifone. "This builds on the established relationship we have with MaxLinear as our supplier for our Interface product needs."

"According to our 2022 market research, the Industrial Ethernet market is expected to outpace the overall market and reach \$3.5B in 2025. Factory automation, the extension of Ethernet to support IoT, and additional industrial applications like smart cities and smart payment systems are all driving growth," said Alan Weckel, Founder and Technology Analyst at 650 Group. "The Industrial Ethernet market is transitioning from fast Ethernet to GigE and mGigEth is creating the need for a new family of Industrial grade IC's. The MaxLinear industrial Ethernet PHY and Switch products will help drive this market transition."

Technical Details

The GPY245 quad-port 2.5GBASE-T industrial PHY supports

- Low power consumption below 3.5W in 2.5GBASE-T mode
- An effective rBOM
- Industrial grade features like MACSec, PTP and SyncE
- Either 4 x 2.5G SGMII or a 10G USXGMII-M MAC interface
- Energy Efficient Ethernet (EEE) to reduce power consumption during low traffic periods

The low pin count and small size package (236 pin BGA 12mmx12mm) make this product ideal for 4-layer PCBs.

The GSW125, GSW145 industrial 1000BASE-T switches support

- Two or four twisted-pair interfaces (PHYs)
- Two MAC interfaces which can be 2.5G SGMII and RGMII
- QoS to prioritize switch traffic for different classes of applications, such as VoIP, video, audio, and data based on port ID
- Energy Efficient Ethernet (EEE) to reduce power consumption during low traffic periods

They are available in a small size 105 pin 8mmx8mm MRQFN package.

Visit the MaxLinear website for more information and to order sample parts on MaxLinear Ethernet switches [GSW125](#) or [GSW145](#) and the MaxLinear Quad-port PHY [GPY245](#).

About MaxLinear, Inc.

MaxLinear, Inc. (NYSE: MXL) is a leading provider of radio frequency (RF), analog, digital and mixed-signal integrated circuits for the connectivity and access, 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 650 Group, LLC

650 Group is a leading Market Intelligence Research firm for communications, data center, and cloud markets. Our team has decades of research experience, has worked in the technology industry, and is actively involved in standards bodies. 650 Group focuses on leading-edge market trends and research and prides itself on first to market research with over 24 research programs focused on Ethernet, cloud, and data center trends.

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, 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 Industrial Ethernet products, including MaxLinear's 1000BASE-T Ethernet Switches (GSW125 and GSW145) and quad-port 2.5GBASE-T PHY (GPY245), including but not limited to, with respect to anticipated demand for industrial-grade Ethernet products, anticipated growth in the Industrial Ethernet markets, the anticipated impact of MaxLinear products on the transition of the Industrial Ethernet market from fast Ethernet to GigE, potential market opportunity, and the functionality, performance, integration and benefits of use of such products, including with Verifone. 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," "expect," "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 and product markets; risks relating to the development, testing, and commercial introduction of new products and product functionalities; the ability of our customers 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; impacts from public health crises, such as the Covid-19 pandemic, or natural disasters; 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 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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MaxLinear Inc. Press Contact:

Debbie Brandenburg

Sr. Marketing Communications Manager

Tel: +1 669-265-6083

dbrandenburg@maxlinear.com

MaxLinear Inc. Corporate Contact:

James Loughheed

Vice President of Marketing, High Performance Analog

Tel: +1 760-692-0711

press@maxlinear.com

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