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Lattice Extends its Control FPGA Leadership with Introduction of MachXO5-NX Family

HILLSBORO, Oregon (USA) – May 31, 2022 – Lattice Semiconductor (NASDAQ: LSCC), the low power programmable leader, today extended its long-standing leadership in control FPGAs with the introduction of Lattice MachXO5™-NX family, the fifth device built on the award-winning Lattice Nexus™ platform. MachXO5-NX FPGAs enable the latest generation of secure control through increased logic and memory resources, robust 3.3 V I/O support, and a differentiated security feature set. Designed to enhance system monitoring and control in Server Computer, Communications, Industrial, and Automotive markets, MachXO5-NX FPGAs offer class-leading power efficiency and reliability.

“Fast-growing demands for secure system monitoring and reliability require additional control system capabilities. Our customers are looking for innovative solutions to meet these demands while increasing design efficiency and simplifying system integration,” said Gordon Hands, Senior Director of Product Marketing, Lattice Semiconductor. “To help our customers to get to market fast, MachXO5-NX FPGAs provide the right combination of advanced features, security, power efficiency, and reliability to meet their evolving needs.”

Lattice MachXO5-NX FPGAs deliver:

Increased logic and memory resources

- MachXO5-NX FPGAs combine a 25k logic cell capacity FPGA fabric with 1.9 Mb of embedded memory reducing the design footprint by minimizing the need for external memory. The devices also offer up to 9.2 Mb of dedicated user flash memory to store mission-critical data and parameters.

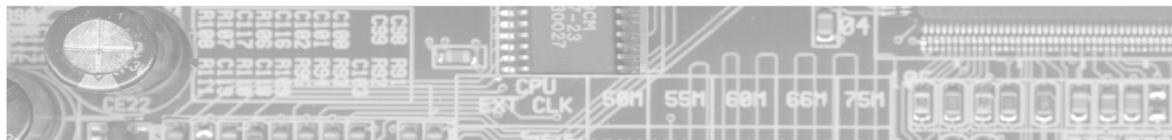
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- Integrated flash memory enables a single chip solution with instant-on operation and reliable in-field updates supporting multiple configuration images.
- MachXO5-NX FPGAs offer greater compute and control capabilities with added DSP and ADC blocks.

Robust programmable I/O

- MachXO5-NX FPGAs address challenges of modern CPUs and SoCs lacking robust 3.3 V I/O signaling support required to communicate with many other devices in system. The devices feature up to 300 general purpose I/O (80 percent supporting 3.3 V signaling) that support early I/O configuration and provides added features such as 1.25 Gbps SGMII, default pull-down, hot socketing, and programmable slew rate for simplified board design.

Class-leading Security

- On-chip multi-boot with bitstream encryption (AES256) and authentication (ECC256).
- Run-time security capabilities not currently available in competitive FPGAs of a similar class.

Leadership power efficiency and reliability

- Built on Lattice Nexus platform, the devices deliver up to 70 percent lower power than competing FPGAs of a similar class offering simplified thermal management and reduced total system operating cost.
- Leveraging FD-SOI manufacturing process, the devices provide up to 100 times lower soft error rate with improved system reliability than competing FPGAs of a similar class.

MachXO5-NX FPGAs are sampling today and are supported by latest release of Lattice Radiant® 3.1.1 design software.

For more information about the technologies mentioned above, please visit:

- Lattice MachXO5-NX <https://www.latticesemi.com/en...>

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- Lattice Nexus Platform <https://www.latticesemi.com/en...>
- Lattice Radiant Software <https://www.latticesemi.com/en/...>

Availability and Pricing

For more information availability and pricing please visit

email: sales.europe@macnica.com.

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About Lattice Semiconductor

Lattice Semiconductor (NASDAQ: LSCC) is the low power programmable leader. We solve customer problems across the network, from the Edge to the Cloud, in the growing Communications, Computing, Industrial, Automotive, and Consumer markets.

Our technology, long-standing relationships, and commitment to world-class support let our customers quickly and easily unleash their innovation to create a smart, secure, and connected world.

For more information about Lattice, please visit <https://www.latticesemi.com>.

You can also follow us via LinkedIn, Twitter, Facebook, YouTube, WeChat, Weibo or Youku.

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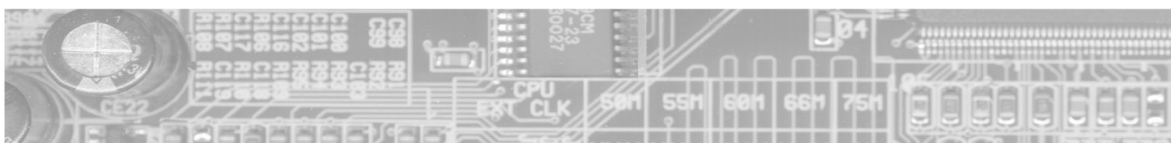
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About Macnica ATD Europe GmbH, (former Macnica GmbH)

Macnica's ATD Europe GmbH, (former Macnica GmbH), was originally established in the UK in 2006, and moved to Germany in July 2008, to increase efficacy of its service for European customers.

By its acquisition of the Munich based company Scantec Mikroelektronik in 2014 Macnica Europe formed a powerful semiconductor distribution with headquarter in Ingolstadt and offices in Munich, Regensburg, Milton Keynes (UK) and Warsaw offering an attractive and competitive portfolio of highly sophisticated devices.

Macnica provides end to end support from design-in to production through its global service network to its customers, regardless of the final destination of the product shipment to customers' manufacturing locations.

About Macnica ATD Europe S.A.S.

Founded in 1990 as ATD Electronique, Macnica ATD Europe headquarter offers innovative components dedicated to imaging applications for the European market. Its product portfolio includes: image sensors (CCD, CMOS, InGaAs, Thermal etc.), optics, interface circuits, FPGA & IPs, imaging processors, cables and OLED microdisplays.

It also covers development tools and design services enabling fast and efficient realization of new high-performance camera systems for markets such as machine vision, medical, life sciences, surveillance, automotive and others. After the acquisition of the company by Macnica Inc. as of October 1, 2020 the company operates under the name Macnica ATD Europe.

About Macnica, Inc.

Macnica was established in 1972 as a semiconductor distribution company headquartered in Yokohama, Japan, and has over 85 sales offices worldwide in eastern Asia, Europe and the USA. Total number of employees is over 3,000 and its consolidated revenue for fiscal 2020 was approximately US\$ 5.5 B.

Macnica is famous for having an excellent engineering team of more than 900 application support engineers, IC designers and software developers with strong focus on providing technical support for its customers including custom design services. Macnica is continuing to extend its presence globally by having successful partners in strategic areas in the electronics market.

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