Press RELEASES

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# Lattice Continues Rapid Product Portfolio Expansion Enabling the Next Era of Innovation

*Introduces new Lattice Avant™-G and Lattice Avant™-X mid-range FPGAs, expanded application-specific solution stacks, and updated software*

**HILLSBORO, Oregon (USA) – Dec. 5, 2023 –** Today at the Lattice Developers Conference, Lattice Semiconductor (NASDAQ: LSCC), the low power programmable leader, continued its rapid product portfolio expansion with the launch of multiple new hardware and software solutions. Lattice introduced two new innovative mid-range FPGA device families built on the award-winning mid-range Lattice Avant™ platform – Lattice Avant-G and Lattice Avant-X, designed for general purpose and advanced connectivity, respectively. Lattice announced new versions of its application-specific solution stacks for artificial intelligence (AI), embedded vision, security, and factory automation, each of which are expanded with new features and capabilities to help accelerate customer time-to-market. Lattice released updated versions of its software tools and Glance by Mirametrix® computer vision software.

"At Lattice, we're focused on enabling our customers to accelerate their designs with new levels of power efficiency and performance through our rapidly growing hardware and software portfolio," said Esam Elashmawi, Chief Strategy and Marketing Officer, Lattice Semiconductor. "We're excited to expand on the strong customer and developer momentum we've established for Lattice Avant, enabling the next era of innovation."

## Innovative Mid-range FPGAs

Built on the award-winning Lattice Avant platform, the Avant-G and Avant-X FPGA families offer power efficiency, advanced connectivity, and optimized compute for





mid-range applications across the Communications, Computing, Industrial, and Automotive markets.

**Lattice Avant™-G FPGA Family**

Avant-G general purpose FPGAs are designed to enable a wide range customer needs by offering seamless, flexible interface bridging and optimized compute for system expandability. Lattice Avant-G devices offer best-in-class signal processing and AI, flexible I/O supporting a range of system interfaces, while providing dedicated LPDDR4 memory interfaces at 2400 Mbps.

**Lattice Avant™-X FPGA Family**

Avant-X advanced connectivity FPGAs are designed to enable high bandwidth and security, with a feature set tailored to customer needs for signal aggregation and high throughput. Lattice Avant-X devices offer up to 1 Terabit per second total system bandwidth, PCIe® Gen 4 controllers with hard DMA, and a security engine to encrypt user data in motion providing quantum safe cryptography.

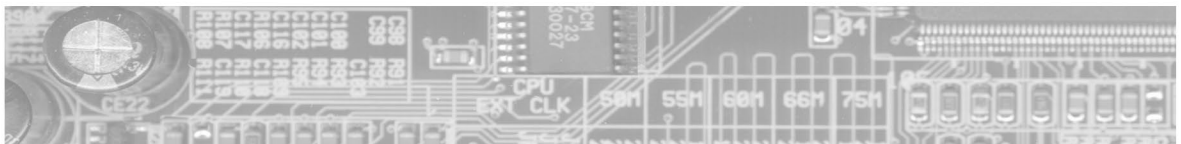
**Expanded Solution Stacks**

Lattice's solution stacks are designed to speed customer development and time-to-market by giving them a toolkit of hardware, software, and IP tailored to the needs of their application. Lattice today announced four solution stack updates in AI with Lattice sensAI™, embedded vision with Lattice mVision™, security with Lattice Sentry™, and factory automation with Lattice Automate™. These updates include improved performance with upgraded an accelerator engine, expanded IP and reference designs, added security features, and enablement of more industry standards.

**Enhanced Software Capabilities**

Lattice is committed to providing best-in-class, easy-to-use software tools that help enhance customers' design experience and design environment. Key updates to Lattice Propel™ and Lattice Radiant™ software includes adding full support for the new Lat-





tice Avant-G and Avant-X FPGA families, the introduction of enhanced ease-of-use and scripting to Radiant, and expanding the IP portfolio in Propel.

Advanced computer vision software Glance by Mirametrix® was also updated with new features to expand its applicability across Edge applications for various markets. Updates include a new smart avatar privacy feature and 3D head pose for low power capability.

These product announcements were made today during the livecast at the Lattice Developers Conference, a replay of which will soon be available on the event portal site. Lattice Developers Conference is taking place virtually Dec. 5-7, 2023, featuring an incredible lineup of keynotes, breakout sessions, and a robust showcase of FPGA-based technology demonstrations from Lattice and other industry leaders.

**Availability and Pricing**

Lattice Avant-G and Avant-X FPGAs are sampling today and are supported by the latest releases of Lattice Propel™ and Lattice Radiant™ design software.

For more information on the new products, please read the latest blog and visit:

- Lattice Avant-G FPGAs
- Lattice Avant-X FPGAs
- Lattice sensAI solution stack
- Lattice mVision solution stack
- Lattice Sentry solution stack
- Lattice Automate solution stack
- Lattice Propel
- Lattice Radiant
- Glance by Mirametrix

Information about 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 or Weibo.

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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 it's 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.

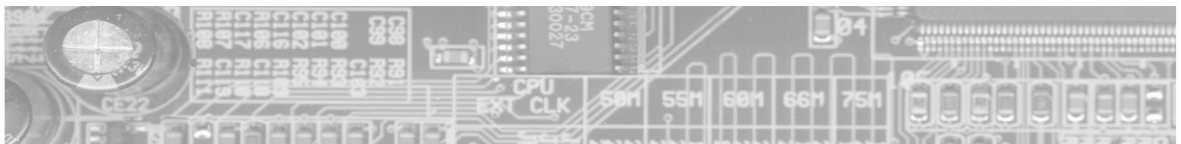
Macnica provides end to end support from design-in to production through its global service network to its customers, regardless of the final destination of the product shipment to customers' manufacturing locations.

**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 3,900 and its consolidated revenue for fiscal 2021 was approximately US$ 7.6 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.

More information about Macnica: https://www.macnica.com/global/en/home.html.