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Press Release

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From components to intelligent systems: electronics as the basis for the All Electric Society

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- **AI as an opportunity and a stress test for the electronics industry**
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Whether it's speech and object recognition, image classification, predictive maintenance, or autonomous control, Artificial Intelligence (AI) applications require powerful electronic systems. It is only modern semiconductors and sensors, scalable embedded systems, and efficient connectivity that enable AI solutions in industry, mobility, energy, and medicine in the first place. At the same time, as the use of AI grows, so do the demands on computing power, energy efficiency, and cyber resilience. The electronics industry will show which technologies are driving this development at electronica in Munich from November 10 to 13.

The electronics industry provides the technological basis for the All Electric Society and enables intelligent applications in energy supply, mobility, industrial automation, and buildings. "Artificial Intelligence places whole new demands on electronic systems. What's needed are powerful, energy-efficient, and secure solutions in which hardware, software, and connectivity work together seamlessly," says Caroline Pannier, Exhibition Director for electronica. "It's precisely these developments that are the focus of electronica."

AI as an accelerator and stress test for the economy and infrastructure

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To remain innovative and competitive, companies today must integrate AI into their products, services, and processes. According to the [German Economic Institute](#), 66.3 percent of large companies are already using AI, while about half of medium-sized companies are doing so. Small businesses have the most ground to make up: Only 35.6 percent use AI in their operations.

At the same time, AI is opening up entirely new possibilities: machines and vehicles are becoming smarter, energy grids more efficient, medical diagnoses more accurate, and devices more autonomous. However, as the use of AI grows, so do the energy needs and cybersecurity requirements.

Energy efficiency and cyber resilience as key criteria

Due to the increased use of AI, modern electronic systems must provide high computing power, use energy sparingly, and operate reliably under thermal conditions. At the same time, the attack surface for cyber risks grows as systems that exchange large amounts of data become increasingly connected, and software updates are released regularly.

As a result, energy efficiency and cyber resilience are evolving from individual, isolated requirements into core system criteria. In addition, the EU Cyber Resilience Act (CRA) increases the pressure on companies to take action. Approaches such as “security by design” must therefore be incorporated as early as the architecture phase and integrated across hardware, software, interfaces, updates, and operating concepts.

Hardware, software, and the application layer are converging

The development of modern electronics is increasingly shifting from optimizing individual components to integrated, complete systems. What matters is no longer just the performance of an individual processor, sensor, or module, but rather the interaction between hardware and software, the operating system, connectivity, security, and the application layer. Customers expect products that can be quickly integrated, easily scaled, and updated throughout their lifecycle. This places greater demands on system design, software quality, and lifecycle

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management. At the same time, that opens up opportunities for the electronics industry to tap into new markets and make itself competitive for the future.

electronica as a platform for AI, cyber resilience, and energy efficiency

As the world's leading trade fair for electronics, electronica brings together key players that cover the entire spectrum of the industry. Around 3,500 exhibitors from some 60 countries will show how individual components are transformed into integrated, intelligent, and secure complete systems. The focus will be on the key topics of [Artificial Intelligence](#), [energy efficiency](#), and [cyber resilience](#). An extensive supporting program will provide for further discussion and knowledge sharing. SEMICON Europe, taking place in parallel across two and a half halls, will offer insights into the entire semiconductor industry value chain.

You can find this press release for download including press pictures at the [electronica newsroom](#).

About electronica

electronica is the most important international meeting place for the electronics industry. As the world's leading trade fair, it presents the entire spectrum of technologies, products and solutions in electronics and brings together experts and users from all over the world. The extensive supporting program with top-class conferences and practice-oriented forums provides deep insights into the latest trends from research to application and addresses current social issues. The next electronica will take place from November 10 to 13, 2026 at the Messe München Exhibition Center.

electronica worldwide

In addition to electronica, Messe München organizes electronica China, electronica South China, electronica India North and South, the SmartCards Expo and electronicAsia. The network of electronics trade fairs also includes productronica in Munich, productronica China, productronica South China, productronica India North and South, and LOPEC.

Messe München

As one of the leading trade fair organizers, Messe München presents the world of tomorrow at around 90 trade fairs worldwide. The portfolio comprises trade fairs for capital and consumer goods, as well as for new technologies. This includes 14 world-leading trade fairs such as bauma, BAU, IFAT, and electronica, cooperation events such as IAA MOBILITY, and numerous guest events. With an international network of affiliated companies and foreign representatives, Messe München is active worldwide. Together with its 1,200 employees in the group, it organizes trade fairs in China, India, Brazil, South Africa, Turkey, Singapore, Vietnam, Hong Kong, Thailand, the USA, and Saudi Arabia. Around 150 events per year attract over 50,000 exhibitors and around three million visitors in Germany and abroad. This makes Messe München an important economic engine that generates billions in purchasing power.