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Press Release

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electronica 2026

Secure components: Focus shifts to cyber resilience in electronics development

- **Companies need to protect connected electronics against external attacks**
- **Studies show that cyberattacks are on the rise, yet investment in security is often still lacking**
- **electronica 2026 showcases technologies for resilient electronics**

Connected and digitized vehicles, machines, and energy systems place new demands on electronics. From now on, electronics must not only deliver high-performance but also detect cyberattacks, contain disruptions, and enable secure updates. Cyber resilience is therefore becoming a key factor for trust, availability, and market success. electronica 2026, taking place in Munich from November 10 to 13, will showcase the technologies that are essential for this.

Industrial systems, vehicles, and energy systems are increasingly evolving into networked electronic systems that are controlled, updated, and secured via software. Security mechanisms can therefore no longer be added as an afterthought but must instead be integrated right from the start into the system design, particularly for interfaces, updates, and software-defined functions.

At the same time, customers, regulators and operators expect solid proof of the security and updatability of electronic systems. "As the world's leading electronics trade fair, electronica 2026 in Munich brings together key players from across the entire value chain. In doing so, it creates a framework for addressing cybersecurity not in isolation, but as a shared architectural challenge

for the electronics industry", explains Caroline Pannier, Exhibition Director of electronica.

Studies show growing pressure to act

Recent studies show how important an issue this is. The *ENISA Threat Landscape 2025* report, for example, identifies attacks on public administration and the transport sector as the most common targets of cyberattacks, with phishing being the most frequently used method. In many cases, hackers target companies' operational technology (OT).

However, according to a *PwC study*, only about 15 percent of German companies have so far invested specifically in proactive security and resilience measures. The vast majority remain reactive: Investments are only made after incidents occur or as part of regular updates, without a systematic transformation concept for prevention.

Increasing regulation of cybersecurity

To encourage companies to take action and integrate security into products from the outset, the European Union has enacted the Cyber Resilience Act (CRA). It specifically regulates products that companies place on the European market. Among other things, it requires that products with digital components remain secure throughout their expected service life and address vulnerabilities throughout their lifecycle. It covers a wide range of electronic products, not just internet-enabled devices, but essentially all products with a direct or indirect logical or physical connection to a device or network.

Effectively countering cyberattacks

As a result, the CRA makes security a key development requirement. At the same time, AI-based systems give rise to new risks: data poisoning, model poisoning, and adversarial attacks can manipulate AI models and lead to incorrect decisions. Developers are responding to this with "security by design"—that is, with security mechanisms integrated from the outset into the architecture, secure firmware, and verifiable updates.

At the component level, this includes a hardware root of trust, Secure Boot, and Trusted Platform Modules (TPMs). Secure microcontrollers (MCUs) implement security functions directly within the device, ensuring, for example, that only authenticated firmware or signed code is executed during system startup.

Exhibitors showcase relevant technologies

At electronica, numerous exhibitors will present their innovations and solutions for resilient electronics. Infineon, for example, will address the issue of cyber resilience with, among other things, its "Optiga" security solutions for embedded security. In the context of secure, connected devices, Renesas primarily offers its secure "RA" microcontrollers, including isolated cryptographic operations, secure key storage, Arm TrustZone® technology, and protection measures against side-channel attacks. Texas Instruments is expanding its product portfolio with its AM263x Sitara MCUs, providing, among other things, Secure Boot, cryptographic keys, and a hardware security module.

electronica as a platform for resilient electronics

The supporting program at electronica will also focus on cyber resilience, for example in the Cyber Security Forum and in a series of presentations and workshops on the Cyber Resilience Act. Industry experts will provide insights into the latest technologies as well as practical approaches and strategies for resilient electronic products. With this framework, electronica 2026 will provide developers, technical decision-makers, and CEOs with concrete guidance on how to make their companies more resilient against cyberattacks.

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.