

PRESS RELEASE

Next generation of vehicles: Trends and developments around electrification and digitalization in the vehicle at the Rutronik Automotive Congress



3rd Rutronik Automotive Congress in Pforzheim - The two-day event in mid-October brought together around 200 decision-makers, developers, and thought leaders from the German automotive industry.

Ispringen, October 25, 2022 – At the 3rd Rutronik Automotive Congress on 11 and 12 October, around 200 decision-makers, developers and thought leaders from the German automotive industry came together in Pforzheim. In keeping with the Rutronik Automotive Business Unit's networking philosophy, the congress created an important platform for bringing together manufacturers of electronic components with vehicle manufacturers and their suppliers.

Rutronik's Automotive Business Unit, founded in 2014, specializes explicitly in the procurement and development structures of its customers in the automotive sector. Particularly in times of allocation and supply bottlenecks, this is about the highest possible planning reliability. Rutronik is not only an important partner as a reliable distributor, but also acts as an accelerator and pioneer of the latest technologies. As an innovation partner, Rutronik is concerned with accelerating the pre-development phases of its customers and thus bringing forward-looking products to the markets more quickly. "Our congress offers an important discussion platform not only for us as a distributor and supplier of system solutions. It

brings together speakers as well as participants from universities, manufacturers and customers," says Markus Krieg, Chief Marketing Officer (CMO) at Rutronik. "The discussions at the congress around alternative drive systems, sensor technologies as well as increasing connectivity and digitalization tie in with the megatrends in the automotive segment like e-mobility, autonomous driving and urban mobility in different application scenarios such as passenger and delivery traffic," Krieg continued.

Three key topics on next-generation mobility discussed at the Rutronik Automotive Congress:

New technologies around light and vision: What will change in the lighting sector?

Future solutions in the area of light and vision require a complex interaction of many electronic components. This will make it possible to achieve immense light output and thus benefit from very high and flexible illumination in road traffic. However, it must be ensured that oncoming traffic, for example, is not dazzled. In essence, this involves partial control of the light output for maximum safety for both close and distant vision.

Drive systems of the future: Which type of drive will prevail?

New drive solutions are urgently needed, especially for delivery traffic in urban areas. Against the backdrop of legal requirements (driving in inner cities), the replacement of fossil fuel-based motorization is already dated. Fuel cells and purely electric drives are currently being discussed in particular. The economic and sustainability aspects of the two drive solutions are being weighed up against each other.

Safety through driver assistance systems and intelligent onboard networks: How can driving become even safer?

High-voltage vehicle networks are becoming increasingly powerful, and driver assistance systems are making them more complex. This entails risks that must be taken into account during vehicle development. To ensure that the on-board networks can be quickly disconnected from the battery in the event of an accident or malfunction, new solutions are needed as an alternative to mechanical disconnectors. The aim is to preserve battery life and ensure occupant safety. Rutronik's experts have developed an electronic disconnecter based on semiconductor technologies in connection with the high-voltage onboard network.

Further information on the [congress agenda](#) can also be found at www.rutronik.com.

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ABOUT RUTRONIK

Rutronik Elektronische Bauelemente GmbH was founded in 1973 and is an independent family-owned company. Thanks to the positive economic development, the company is now one of the world's leading headline distributors.

In the 2021 fiscal year, its more than 1,800 employees generated a turnover of 1.13 billion Euro. Rutronik is represented worldwide with more than 80 offices and can guarantee comprehensive customer support including Europe, Asia, and the USA.

The broad product portfolio includes semiconductors, passive and electromechanical components as well as embedded boards, storage & displays, and wireless products.

The knowledge of all product areas is bundled in the RUTRONIK AUTOMOTIVE, RUTRONIK EMBEDDED, RUTRONIK POWER, and RUTRONIK SMART divisions and both specific products and services tailored to the respective applications are offered. Competent technical support for product development and design-in right up to the research area, individual logistics & supply chain management solutions as well as comprehensive services complete the range of services. Customers also have access to the Rutronik24 e-commerce platform, where all articles can be found, as well as a procurement area and product change notifications. For more information, please visit:

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