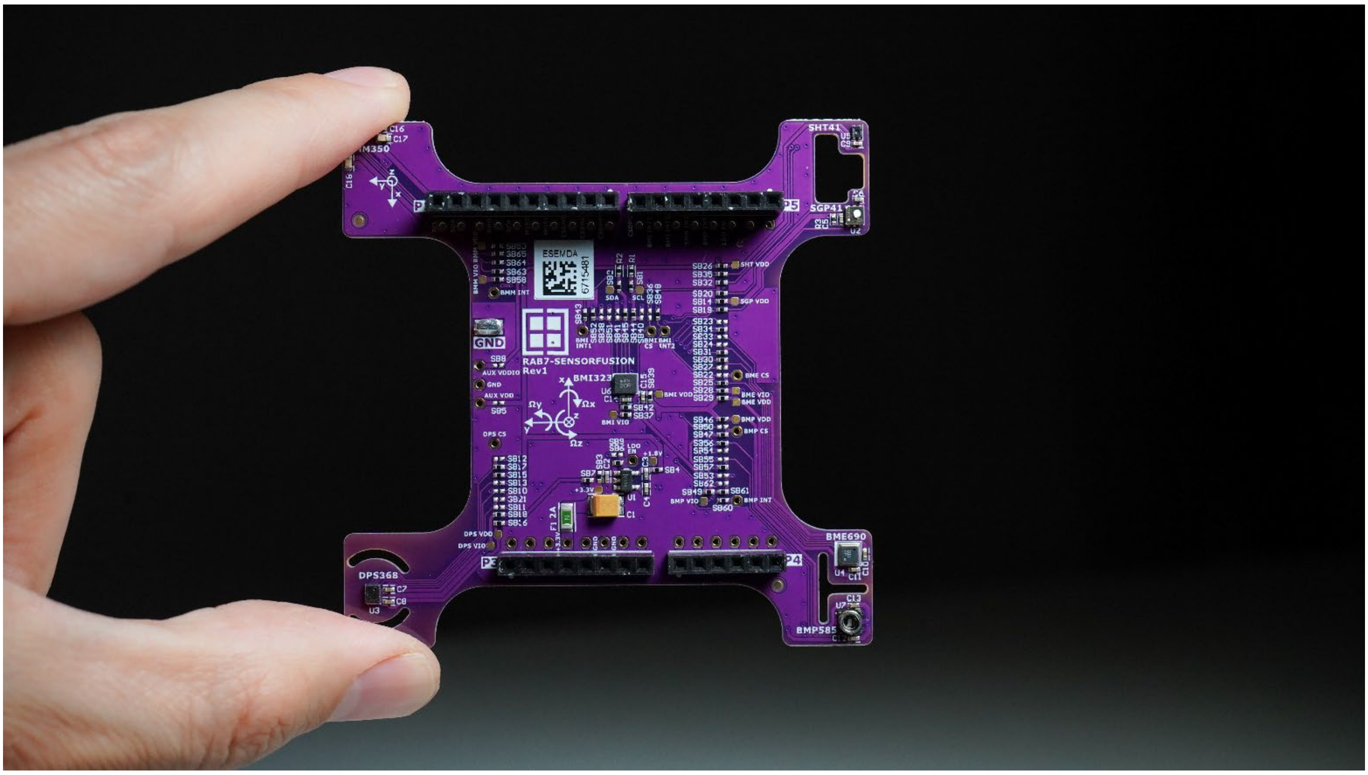
PRESS RELEASE

Rutronik System Solutions introduces the Next-Gen Adapter Board RAB7 for Sensorfusion



The new Adapter Board RAB7 – Sensorfusion from Rutronik System Solutions is the successor to the RAB1.

Ispringen, May 13, 2025 – Rutronik Elektronische Bauelemente GmbH, one of Europe's leading broadline distributor of electronical components, is adding another Adapter Board, the RAB7 – Sensorfusion, into its Rutronik System Solutions series. The new RAB7 offers state-of-the-art sensors and provides all next generation sensors from the suppliers Bosch, Infineon, and Sensirion.

The RAB7 is an Arduino shield adapter for evaluation and prototyping of environmental and inertial sensors from Infineon, Sensirion and Bosch. "With the RAB7, sensing application engineers benefit from a selection of best-in-class environmental sensors to detect and combine all important environmental parameters for state-of-the-art sensorfusion applications with or without the use of AI," said Stephan Menze, Head of Global Innovation Management at Rutronik. To get the most out of a sensorfusion application, it is important to use the best sensors. This is why the next generation sensors from leading sensor suppliers have been added, such as

- Infineon's XENSIV™ digital barometric pressure sensor DPS368XTSA1,
- Bosch's digital pressure sensor BMP585,
- Sensirion's indoor air quality sensor for VOC measurement SGP41-D-R4,
- Bosch's low-power digital gas, pressure, temperature and humidity sensor with AI BME690,
- Bosch's 6-axis intelligent low-power inertial measurement unit BMI323,

Rutronik Elektronische Bauelemente GmbH
Industriestraße 2 | 75228 Ispringen

Management Board Rutronik
Helmut Rudel | Thomas Rudel | Markus Krieg

- Sensirion's high-precision, low-power relative humidity and temperature sensor SHT41-AD1B-R2, and
- Bosch BMM350 3-axis magnetic sensor for 9-axis absolute orientation for navigation instead of just relative orientation, since the earth's magnetic field can also be detected.

The Adapter Board RAB7 is powered via Arduino headers with a single 3.3V supply. All sensors are configured to work with the I2C and SPI interface via Arduino compatible ADAM-TECH connectors. Each sensor can be disconnected from the power supply and I2C circuits by unsoldering solder bridges, allowing the use of only the sensors needed for a particular sensorfusion application.

Markets & Applications:

- Building Automation
- Professional Kitchen
- HVAC (Heating, Ventilation, Air Conditioning)
- Smart Farming

The Adapter Board RAB7 can be easily combined with other Base Boards and Adapter Boards from Rutronik System Solutions. The modular concept allows a variety of approaches to implement development projects quickly, cost-efficient, and simply, yet in a technically sophisticated way. The combination of RDK3 and RAB7 enables local use via Bluetooth® Low Energy for wireless sensing applications in the home and outdoors.

This flexibility not only simplifies the development process, but also increases the potential for innovation by allowing different combinations and configurations. Whether working on a simple project or a complex application, the stackable design provides the necessary tools for success by allowing different combinations and configurations. Find more information about the RAB7 – Sensorfusion here.

PRESS CONTACT

Agentur Lorenzoni GmbH
Melanie Nagy

+49 8122 55917-16
melanie@lorenzoni.de
www.lorenzoni.de

Rutronik Elektronische Bauelemente GmbH
Dr. Alena Kirchenbauer
Team Leader International Communication

+49 7231 801-1417
alena.kirchenbauer@rutronik.com

ABOUT RUTRONIK

Rutronik Elektronische Bauelemente GmbH was founded in 1973 and for more than five decades the independent family-owned company based in Ispringen (Germany) stands for sustainable growth with a focus on high-growth future markets. In the fiscal year 2023, its around 1,900 employees generated sales of 1.24 billion euros, serving more than 40,000 customers.

With more than 80 offices worldwide and logistics centers in Austin (Texas), Shanghai, Singapore, and Hong Kong, Rutronik ensures comprehensive customer support in Europe, Asia, and North America. The company focuses on high-growth future markets that will shape the world of electronics tomorrow. These are Advanced Materials, Advanced Measurement, Processing & Analytics, Advanced Robotics, Automation, Biotechnology, Energy & Power, Future Mobility, IIoT & Internet of Everything, Industry 4.0, Medical & Healthcare, and Transportation, Logistics & Supply Chain.

To serve customers in these future markets, the RUTRONIK AUTOMOTIVE, RUTRONIK EMBEDDED, RUTRONIK IT ELECTRONICS, RUTRONIK POWER, RUTRONIK SMART, and RUTRONIK SYSTEM SOLUTIONS initiatives bundle expertise, specific product portfolios, and consultancy support. In this regard, Rutronik relies on customized solutions that are tailored to the respective needs. The services range from competent technical support in product development and Design-Ins, through the diverse product portfolio of leading manufacturers, to the company's software and hardware solutions with partly patented Rutronik IP.

Customized logistics systems, reliable supply chain management, and logistics centers worldwide ensure on-time delivery. The Rutronik24 e-commerce platform completes Rutronik's range of services.

Further information is available at www.rutronik.com. The new corporate film also provides exclusive insights into the history and development of Rutronik.