

Bosch readies itself for rising demand for specialty semiconductors

November 14, 2022
PI 11580 BBM ak/af

The innovations Bosch is debuting at electronica 2022

- ▶ Global market for automotive semiconductors to grow by an annual average of 12 percent through 2028.
- ▶ Bosch is systematically expanding its engineering and manufacturing network for semiconductors.
- ▶ At electronica in Munich, Bosch is debuting innovative semiconductor solutions for the automotive and consumer electronics industries.

Munich, Germany – Growth in the global market for semiconductors shows no signs of stopping – and Bosch is growing right along with it. For automotive semiconductors alone, S&P Global Mobility* expects average annual growth of 12 percent through 2028. In 2021, this slice of the market was worth some 49 billion dollars. The key drivers of this development are semiconductors for electrified and automated driving. Bosch is also systematically readying itself for further growth: in July 2022, the company announced it would be making billions of euros of new investments in its own semiconductor business. At locations such as Dresden and Reutlingen, this money will enable Bosch to establish new engineering centers in the coming years. The company is also steadily expanding its manufacturing operations so that it can meet the further increase in customer demand. For example, the 300-mm wafer fab in Dresden, which went into operation in 2021, is already expanding its clean-room area after just one year. Major expansions are also underway in the existing clean-room spaces for 200-mm wafers at the Reutlingen location. In Malaysia, the new test center in Penang will be completed in 2023; the existing test center in Suzhou, China, was expanded in 2021.

“We want to continue to be a leading supplier of key products for the automotive and consumer electronics industries. That’s why, in addition to our manufacturing activities, we are also consistently expanding our development capacity in the areas of integrated circuits, systems-on-a-chip (SoCs), micromechanical sensors,

and power semiconductors. Through our active participation in numerous expert committees and publicly funded projects, we are helping to shape the markets of the future,” says Jens Fabrowsky, who as executive vice president in the Automotive Electronics division is responsible for the semiconductor business at Bosch.

At booth C3.322 at electronica 2022 in Munich, the world’s leading trade fair and conference for electronics, Bosch will be presenting the following product innovations:

CAN XL protocol controller: The “X_CAN” IP module is a new CAN XL protocol controller for integration into microcontrollers. CAN XL enables data transmission rates of up to 20 Mbit/s in CAN networks.

Compact silicon carbide (CSL) power modules: The new CSL line for electrical powertrains covers various performance classes, connection technologies, and cooling concepts.

TPMS sensor module: A new TPMS sensor module means that manufacturers of tire pressure monitoring systems (TPMS) can now offer Bluetooth transmission of tire pressure and temperature.

MEMS sensors: In consumer electronics, Bosch will present its BME688, the world’s most compact 4-in-1 air-quality sensor with integrated artificial intelligence, the BMP581 barometric pressure sensor that measures elevation changes down to the centimeter, and the new BMI323 inertial sensor for a wide range of measurement applications.

*S&P Global Mobility, Automotive Semiconductor Market Tracker – July 2022

Press photos: #11afd4f1, #5c0d7224, #71a3dd39, #6b8bb829, #2957840

Lectures by Bosch experts at electronica:

- **Wednesday, November 16, 12:30–13:00 CET in the Automotive Forum (hall B5):** “Silicon carbide boosting the path to efficient e-mobility” by Anne Bedacht, Product Management Power Semiconductors.
- **Wednesday, November 16, 16:00–16:30 CET in the Automotive Forum (hall B5):** “Inertial sensors from Bosch – Making your drive safe and comfortable” by Peter Spoden, Product Management MEMS Sensors.

- **Thursday, November 17, 12:00–12:30 CET in the Automotive Forum (hall B5):** “Semiconductors for software-defined vehicles” by Leopold Beer, Product Management Integrated Circuits.

Contact person for press inquiries:

Athanassios Kaliudis

Phone: +49 711 811-7497

Twitter: @Sakis_JD

Mobility Solutions is the largest Bosch Group business sector. It generated sales of 45.3 billion euros in 2021, and thus contributed 58 percent of total sales from operations. This makes the Bosch Group one of the leading automotive suppliers. The Mobility Solutions business sector pursues a vision of mobility that is safe, sustainable, and exciting, and combines the group's expertise in the domains of personalization, automation, electrification, and connectivity. For its customers, the outcome is integrated mobility solutions. The business sector's main areas of activity are injection technology and powertrain peripherals for internal-combustion engines, diverse solutions for powertrain electrification, vehicle safety systems, driver-assistance and automated functions, technology for user-friendly infotainment as well as vehicle-to-vehicle and vehicle-to-infrastructure communication, repair-shop concepts, and technology and services for the automotive aftermarket. Bosch is synonymous with important automotive innovations, such as electronic engine management, the ESP anti-skid system, and common-rail diesel technology.

The Bosch Group is a leading global supplier of technology and services. It employs roughly 402,600 associates worldwide (as of December 31, 2021). The company generated sales of 78.7 billion euros in 2021. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT provider, Bosch offers innovative solutions for smart homes, Industry 4.0, and connected mobility. Bosch is pursuing a vision of mobility that is sustainable, safe, and exciting. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to facilitate connected living with products and solutions that either contain artificial intelligence (AI) or have been developed or manufactured with its help. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is “Invented for life.” The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in some 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. With its more than 400 locations worldwide, the Bosch Group has been carbon neutral since the first quarter of 2020. The basis for the company's future growth is its innovative strength. At 128 locations across the globe, Bosch employs some 76,100 associates in research and development, of which more than 38,000 are software engineers.

Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-press.com, [www.twitter.com/BoschPress](https://twitter.com/BoschPress).