Take the Expressway to Go Greener
Automotive Solutions
Renesas at a glance

Company Profile
Renesas Electronics Europe with its Business Operations Centre located in Dusseldorf, Germany, is a wholly owned subsidiary of Renesas Electronics Corporation (TSE: 6723), the world’s number one supplier of microcontrollers and a premier supplier of advanced semiconductor solutions including microcontrollers, SoC solutions, secure MCU applications and a broad-range of analog and power devices.

Renesas Electronics’ European structure is comprised of four dedicated business groups serving the region’s key markets: automotive, communications & consumer, industrial, and mobile platforms.

The business groups are supported by the Engineering Group, which itself includes the Engineering Design Centre; the European Quality Centre that provides technical support to local customers in Europe; and the European Technology Centre to design leading-edge products specifically for the European market.

Automotive
To serve the specific needs of the automotive industry, Renesas’ Automotive Business Group was established with a clear European focus. Being backed-up by the worldwide potential of our parent company and production facilities all over the world, we offer the comprehensive, in-depth know-how you expect from a genuine integrated device manufacturer.

Combining leading-edge technologies and profound understanding of customer needs enables us to provide a comprehensive range of Microcontrollers, SOC products and PowerMOSFETs/Analog components. Our long-standing reputation for delivering quality products underlines our commitment to automotive.

Renesas: Largest Microcontroller Supplier worldwide and No.1 Semiconductor Supplier in Automotive
Body Electronics

Climate Control, Door Modules, Lighting Systems, BCU & Gateway
Renesas’ product portfolio is based on common design platforms to achieve optimised scalability from 8- to 32-bit.

Chassis & Safety

Chassis
Renesas offers products optimised for power steering equipped with motor control timers, achieving ASIL compliant MCU solutions including embedded FlexRay™.

Safety
There is no margin for error where safety is concerned. Renesas is committed to supplying highly reliable devices that will help to secure your future in safety.

Driver Information

Dashboard
Renesas is market leader in Europe. More than every second dashboard on the road in Europe is controlled by a Renesas device.

Car Multimedia
Whether you are looking for solutions in the car navigation, car audio or connectivity field, microcontrollers or SoC products from Renesas have what you are seeking.

Advanced Driver Assistance

ADAS
To meet the typical requirements of surround view, radar and fusion applications, we provide ASIL D capable single-chip solutions or smart SoC designs supported by leading edge image recognition engines and high-performance architecture.
Powertrain

Engine Management Systems
Renesas provides leading edge technology for demanding Powertrain and transmission control requirements – solutions targeting CO₂ emission reduction and fuel economy improvement.

Electrical & Hybrid Car

E-Car
Renesas’ MCU, mixed signal and Power devices provide solutions for emerging hybrid and electrical car technologies such as motor generator systems, battery control systems, battery charger and DC/DC control systems.

Our Commitments

Meeting Industry Requirements
Our devices are always built with your process in mind. Renesas is committed to industry standards such as AUTOSAR, because we know how important standardization is to meeting necessary requirements – especially as automotive systems become more complex.
Simplicity is at the heart of our approach to microcontrollers. You’ll see it in our commitment to modular, configurable hardware and software and resuasability of code.

Uncompromising Quality
Renesas Electronics prides itself on offering the highest-quality products possible. Our manufacturing facilities have achieved TS-16949 certification. Additionally, our own internal „zero defects“ initiative for integrated device manufacturing processes provides flawless components that perform as described – guaranteed.

Global and Green
What can a semiconductor company do to help preserve the global environment? We have given this question serious consideration at Renesas, proposing and putting into practice several initiatives as the basis for the eco-friendly policy of the Renesas Group as a whole. I.e. the Eco-Products Initiative consists of efforts to provide our customers with semiconductor products and solutions that are as environmentally friendly as possible. The Eco-Factories Initiative involves efforts to reduce emissions of greenhouse gases during the production and distribution of our products, to reduce the use of chemicals in manufacturing, and to improve the energy efficiency of our factories.

Before purchasing or using any Renesas Electronics products listed herein, please refer to the latest product manual and/or data sheet in advance.