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Renesas Electronics Group
Quality Policy

We aim to deliver customer satisfaction and enhance society by providing highly reliable and high-quality products and services.

We abide by the following principles in all stages of our business activities—including sales, design, development and manufacturing—in accordance with our corporate quality management system.

We will:
- Comply with all applicable legal and regulatory requirements
- Enhance product safety and trust
- Commit to continuously improve the quality of products and services
- Strive to continually improve our quality management system
# COMPANY PROFILE

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Renesas Electronics Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headquarters</td>
<td>TOYOSU FORESIA, 3-2-24 Toyosu, Koto-ku, Tokyo 135-0061, Japan</td>
</tr>
<tr>
<td>Capital Stock</td>
<td>22,213 million yen</td>
</tr>
<tr>
<td>Established</td>
<td>November 1, 2002 (Started Operation on April 1, 2010)</td>
</tr>
<tr>
<td>Major Operations</td>
<td>Research, development, design, manufacture, sale, and servicing of semiconductor products</td>
</tr>
<tr>
<td>Employee</td>
<td>18,958 (Consolidated, as of December 31, 2019)</td>
</tr>
<tr>
<td>Representative Director</td>
<td>Tetsuya Tsurumaru, Representative Director, Chairman Hidetoshi Shibata, Representative Director, President and CEO</td>
</tr>
<tr>
<td>Stock Code</td>
<td>Tokyo Stock Exchange, First Section (Since July 24, 2003, TSE:6723)</td>
</tr>
<tr>
<td>Website</td>
<td><a href="http://www.renesas.com">www.renesas.com</a></td>
</tr>
</tbody>
</table>
**RENESAS GROUP CORPORATE VISION AND MISSION**

**VISION**

Renesas creates leading semiconductor solutions that spark innovation for a connected world, building a trusted brand we can be proud of.

**MISSION**

1. Drive progress toward a safer, healthier, greener, and smarter world.
2. Deliver creative semiconductor solutions and support that meet and exceed customer expectations.
3. Strengthen our offering to customers in focus segments through strategic partnerships, alliances and acquisitions.
4. Develop a global culture that encourages open communication, collaboration, and respect for diversity.
5. Seek continuous improvement in everything we do.
LEADERSHIP AND ORGANIZATION STRUCTURE
AS OF MARCH 27, 2020

Tetsuya Tsurumaru
Representative Director, Chairman

Hidetoshi Shibata
Representative Director, President and CEO
In charge of Quality Assurance Div.

Outside Director: Tetsuro Toyoda, Jiro Iwasaki, Arunjai Mittal, Selena Loh LaCroix
Outside Corporate Auditor: Kazuki Fukuda, Kazuyoshi Yamazaki (part-time), Noboru Yamamoto (part-time), Takeshi Sekine (part-time)

Automotive Solution Business Unit
Shingo Yamamoto
EVP / GM
Tomomitsu Maoka
SVP *1
Deputy GM
Takeshi Kataoka
Deputy GM

IoT and Infrastructure Business Unit
Sailesh Chittipeddi
EVP *2 / GM
Hiroto Nitta
SVP
SoC Business
Chris Allexandre
SVP
Sales and Corporate Digital Marketing
Roger Wendelken
SVP
MCU Business

*1: Chairman, Renesas Electronics (China) / *2: President, Renesas Electronics America
CEO: Chief Executive Officer / EVP: Executive Vice President / GM: General Manager / SVP: Senior Vice President / CTO: Chief Technical Officer / CFO: Chief Financial Officer / CLO: Chief Legal Officer

Masahiko Nozaki
EVP
Production & Technology (GM)

Shinichi Yoshioka
SVP & CTO

Shuhei Shinkai
SVP & CFO
Corporate Strategy & Finance
Accounting & Control
HR & General Affairs
Supply Chain Management

Jason Hall
SVP & CLO
Legal, Information System, Procurement

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GLOBAL SALES NETWORK
AS OF MAY 6, 2020

- Global sales network operates in more than 20 countries
- Comprehensive R&D capabilities and support through the global network
GLOBAL MANUFACTURING NETWORK
AS OF JANUARY 1, 2020

- 14 manufacturing facilities owned in Japan, China, Southeast Asia, and the US
- Global partners' sites such as TSMC and GLOBALFOUNDRIES
ORGANIZATION OF QUALITY ASSURANCE DIVISION

Quality Assurance Division

Strategic Quality Planning Dept.

Automotive MCU & SoC Quality Assurance Dept.

Quality Control Dept.

Automotive Analog & Power Quality Assurance Dept.

Reliability & Failure Analysis Dept.

IoT and Infrastructure Quality Assurance Dept.
We build quality into the products from the development stage, through continuous improvement of the production processes, in order for more competitive quality and reliability. In addition to above, we have an established comprehensive quality assurance system with product quality monitoring and customer support on quality, serving for customer’s confidence in our products.
QUALITY ASSURANCE FLOW

Customer
- Sale and Marketing
- Design
- Quality Assurance
- Engineering

Manufacturing Plant

Planning
- Customer Requirement
  - Market Research
  - Product Planning
  - Development Requirements
  - Marketing Strategy

Development & Design
- Design and Development
  - Design Review
  - Process/Package Qualification
  - Design Manual Establishment
  - Trial Production

Trial Production
- Electrical Characteristics Approval
  - Quality Qualification
  - Release to Mass Production
  - Technical and Control Specification

Mass Production
- Production Planning
  - Quality improvement activity / quality information
  - Production
  - Inspection

Purchase Order
- Sales Planning

Shipment

Market & Customer
- Occurrence of failure
  - Failure analysis and corrective action
  - Reception / Failure Analysis / Reporting

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CUSTOMER COMPLAINT HANDLING

Customer

Sales Dept.

Quality Assurance Dept.

Production Dept.

Design Dept.

Failure Analysis

• Root Cause Analysis
• Prevention of Reoccurrence
• Countermeasures

Report

Report

Tracing and support for Countermeasure implementation

Quality Assurance Dept.

Sales Dept.

Reply

Customer
# CHANGE CONTROL SYSTEM

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Proposal of the change plan</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Review of Evaluation / Change Plan</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advance Notification</td>
<td>Approval on the Change Plan</td>
<td>Trial-run and Evaluation</td>
<td>Preparation of Samples and Data</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Confirmation of Customer Reply</td>
<td>Trial-run and Evaluation</td>
<td>Preparation of Samples and Data</td>
<td>Review on the evaluation result</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Report</td>
<td>Change Approval</td>
<td>Decision and Notification of Change</td>
<td>MP Ramp-stage Control</td>
<td>Mass Production</td>
</tr>
</tbody>
</table>

- Proposal of the change plan
- Review of Evaluation / Change Plan
- Trial-run and Evaluation
- Preparation of Samples and Data
- Review on the evaluation result
- MP Ramp-stage Control
- Mass Production
CORRECTIVE ACTION TREATMENT FLOW

Customer | Renesas Electronics
---|---

**Manufacturing Site**
- Quality Control Dept.
- Engineering Dept.
- Production/Relevant Dept.

**Occurrence of Abnormality**
- Definition of abnormality judgment criteria
- Cause Analysis Retroactive Verification, Identification & Isolation of the affected products
- Issuance of process non-conformance report

**Outflow Alert**
- Spilled Out?
  - Yes
  - No

**Decision of Treatment on Concerned Products**
- Instructions on the product and process
- Countermeasure on Products / Process

**Verification and Approval**
- Implementation of Corrective Action

**Effect Evaluation**
- Horizontal Development of Corrective Action

**Information on Cause and Corrective Action**
**Analysis, Countermeasure Plan and Determination of Corrective Action**

**Notification on Defective Product Shipping**
- For defects that are due to design issue and cannot be closed at manufacturing site

**Notification**

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## ISO, IATF CERTIFICATION

### [Japan]

<table>
<thead>
<tr>
<th>Company</th>
<th>ISO 9001</th>
<th>IATF 16949</th>
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</thead>
<tbody>
<tr>
<td><strong>Renesas Electronics Corporation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Headquarters</td>
<td>Yes</td>
<td>(*)</td>
</tr>
<tr>
<td>Musashi Site</td>
<td></td>
<td>(*)</td>
</tr>
<tr>
<td>Takasaki Site</td>
<td></td>
<td>(*)</td>
</tr>
<tr>
<td>Naka Site</td>
<td></td>
<td>(*)</td>
</tr>
<tr>
<td>Yonezawa Factory</td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>Oita Factory</td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>Nishiki Factory</td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Renesas Semiconductor Manufacturing Co., Ltd.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Naka Factory</td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>Takasaki Factory</td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>Shiga Factory</td>
<td></td>
<td>Yes</td>
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<tr>
<td>Yamaguchi Factory</td>
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<tr>
<td>Saijo Factory</td>
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<tr>
<td>Kawashiri Factory</td>
<td></td>
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<tr>
<td><strong>Renesas Engineering Services Co., Ltd.</strong></td>
<td>-</td>
<td>(*)</td>
</tr>
</tbody>
</table>

(*): Remote supporting function.
## ISO, IATF CERTIFICATION

### [Global]

<table>
<thead>
<tr>
<th>Company</th>
<th>ISO 9001</th>
<th>IATF 16949</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renesas Electronics America Inc.</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Renesas Semiconductor (Beijing) Co., Ltd.</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Renesas Semiconductor (Suzhou) Co., Ltd</td>
<td>Yes</td>
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</tr>
<tr>
<td>Renesas Semiconductor KL Sdn. Bhd.</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Renesas Semiconductor (Malaysia) Sdn. Bhd.</td>
<td>Yes</td>
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<tr>
<td>Renesas Semiconductor (Kedah) Sdn. Bhd.</td>
<td>Yes</td>
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<tr>
<td>Renesas Semiconductor Design (Malaysia) Sdn. Bhd.</td>
<td>Yes</td>
<td>-</td>
</tr>
<tr>
<td>Renesas Design Vietnam Co., Ltd.</td>
<td>Yes</td>
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</tr>
<tr>
<td>Renesas Semiconductor Design (Beijing) Co., Ltd.</td>
<td>Yes</td>
<td>(*)</td>
</tr>
<tr>
<td>Renesas Electronics Europe GmbH</td>
<td>Yes</td>
<td>(*)</td>
</tr>
<tr>
<td>Renesas Electronics (Shanghai) Co., Ltd.</td>
<td>Yes</td>
<td>(*)</td>
</tr>
<tr>
<td>Renesas Electronics Taiwan Co., Ltd.</td>
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<td>-</td>
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<tr>
<td>Renesas Electronics Singapore Pte. Ltd.</td>
<td>Yes</td>
<td>(*)</td>
</tr>
<tr>
<td>Integrated Device Technology</td>
<td>Yes</td>
<td>-</td>
</tr>
<tr>
<td>IDT Europe GmbH</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

(\(*\)): Remote supporting function.