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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
- Hiroto Nitta
  SVP
  SoC Business

IoT and Infrastructure Business Unit
- Sailesh Chittipeddi
  EVP *2 / GM
- Chris Allexandre
  SVP
  Sales and Corporate Digital Marketing
- Roger Wendelken
  SVP
  MCU Business
- Shuhei Shinkai
  SVP & CFO
  Corporate Strategy & Finance
  Accounting & Control
  HR & General Affairs
  Supply Chain Management
- Jason Hall
  SVP & CLO
  Legal, Information System, Procurement

*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

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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.
- Quality Control Dept.
- Reliability & Failure Analysis Dept.
- Automotive MCU & SoC Quality Assurance Dept.
- Automotive Analog & Power Quality Assurance Dept.
- IoT and Infrastructure Quality Assurance Dept.
QUALITY ASSURANCE SYSTEM

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.

— Customer Support —

<table>
<thead>
<tr>
<th>Customer Support</th>
<th>Provision of Quality information</th>
<th>user’s guide</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Failure Analysis</td>
<td>Qualification support</td>
</tr>
</tbody>
</table>

Customer Support ensuring customer’s confidence through provision of easy-to-understand documents and technical information, engineering support activities and quality support for customer.

— Design Quality Control —

Reliability design  Design Review
Process/Packaging structure design
Qualification system

Built-in quality and reliability with design methods optimized for micro-fabrication and large scaling and design review focusing on points of change

— Process Quality Control —

Document control  Education  Operator qual.
Management of facilities and measuring equipment  Change control  Environment management
Parts/material management  SPC  Yield improvement  Abnormality Control

Activities for built-in quality by process control using scientific and statistical methods and by 4M control. Activities for preventing defective products from leaving the manufacturing plant by detecting unusual data trends and signs of abnormalities at an early stage.

— Product Quality Control —

Verification by quality assurance test  Ongoing reliability test  Warehousing and shipping control

Product quality and reliability level monitoring with sampling inspections and reliability testing.

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CUSTOMER COMPLAINT HANDLING

Customer

Complain (Product, Information)

Sales Dept.

Quality Assurance Dept.

Failure Analysis

Production Dept.

Root Cause Analysis
Prevention of Reoccurrence
Countermeasures

Design Dept.

Tracing and support for Countermeasure implementation

Sales Dept.

Reply

Customer
CHANGE CONTROL SYSTEM


- Proposal of the change plan
- Review of Evaluation / Change Plan
- Approval on the Change Plan
- Trial-run and Evaluation
- Preparation of Samples and Data
- Review on the evaluation result
- Change Approval
- Decision and Notification of Change
- MP Ramp-stage Control
- Mass Production

Advance Notification
Confirmation of Customer Reply
Report
Confirmation of Customer Reply
CORRECTIVE ACTION TREATMENT FLOW

Customer

Renesas Electronics

Definition of abnormality judgment criteria

Manufacturing Site

Quality Control Dept.

Engineering Dept.

Production/Relevant Dept.

Occurrence of Abnormality

Cause Analysis
Retroactive Verification,
Identification & Isolation
of the affected products

Issuance of process
non-conformance report

Notification on
Defective Product
Shipping

For defects that are due
to design issue and cannot be
closed at manufacturing site

Analysis,
Countermeasure Plan
and Determination of
Corrective Action

Outflow Alert

Spilled Out?

Yes

No

Decision of Treatment on Concerned Products

Root Cause Analysis and Retroactive Verification

Instructions on the
product and process

Verification and Approval

Countermeasure on
Products / Process

Implementation of Corrective Action

Effect Evaluation

Horizontal Development of Corrective Action

Information

Information on Cause
and Corrective Action

Customer Quality Control Dept.

Engineering Dept.

Production/Relevant Dept.
**ISO, IATF CERTIFICATION**

[Japan]

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