Renesas Electronics America Inc. is a premier supplier of advanced semiconductor solutions including microcontrollers, SoC solutions, and a broad range of analog and power devices for the Americas market.

A wholly owned subsidiary of Renesas Electronics Corporation, the world’s number one supplier of microcontrollers1, Renesas Electronics America offers advanced technology solutions for a wide range of customer applications. A large team of technology experts — backed by an extensive network of sales engineers, sales representatives and distributors — delivers high levels of design service and support to customers. The company also offers the global manufacturing resources of its parent company.

A primary aim of Renesas Electronics America is to ensure that customers have easy, rapid access to the complete system solutions they need — chips, hardware/software tools, application assistance, manufacturing — so they can quickly address market opportunities. Renesas Electronics America measures its success by its customers’ success and makes customer satisfaction a number one priority.

Note: Business operations as Renesas Electronics began in April 2010 through the integration of NEC Electronics Corporation and Renesas Technology Corp. As a subsidiary of Renesas Electronics Corporation, Renesas Electronics America Inc. was formed through the integration of NEC Electronics America, Inc. and Renesas Technology America.

(1) Source: iSuppli, March 2013
Full Capabilities and a Comprehensive Ecosystem

- Customized solutions to meet customers’ cost, performance and time-to-market requirements
- Easy upgrades to more highly integrated next-generation designs
- Extensive IP core portfolio
- Leading-edge design tools and methodologies
- Wide range of packaging options

- Excellent access to application expertise in all areas of system design
- Third-party development tools and middleware
- Online forum
- Operating systems and system integrators
- Member/charter member in industry standardization groups

Customer Support

- An extensive range of programs and services to deliver design and application information and other assistance customers need to rapidly and successfully meet their requirements

Products

Renesas Electronics America offers a tremendous variety of advanced semiconductor-based solutions — more than 7,000 devices encompassing the combined offerings of NEC Electronics and Renesas Technology. The devices have lead-free, RoHS-compliant packages, and a corporate ‘Green Energy Initiative’ is driving chip design in an eco-friendly direction.

Custom Solutions

- SOC design solutions and ASIC design services including full range of ARM CPU cores, high-speed interface (PCI Express, USB3.0, Serial ATA, Ethernet), and embedded DRAM

Microcontrollers

- 8-bit and 16-bit types with on-chip flash memory and extensive peripherals (RL78, R8C/Lx, H8, H8S, M16C, 78K0, 78K0R)
- Fast 32-bit types (RX, H8SX, V850, SuperH™ [SH-2, SH-2A])

Security ICs

- Secure MCUs for embedded applications
- Board ID solutions
- Smart-card ICs/solutions

Automotive ASSPs

- 8-/16-/32-bit microcontrollers supporting CAN, LIN, FlexRay, MOST & Ethernet AVB
- Optimized peripherals and MCUs for safety, body, audio, powertrain, HEV and dashboard systems
- Multimedia and Graphics SoC for audio, connectivity and infotainment
- Vision processors for Advanced Driver Assistance Systems
- MCU/MSIG development process according ISO 26262 functional safety requirements.
- MCUs supporting advance security requirements such as SHE & EVITA

Connectivity ASSP and ASCP

- USB2.0 and USB3.0 products
- Intelligent Buffer IC with embedded DRAM for mobile display panel

Memory Devices

- TCAM
- QDR and DDR SRAM
- Asynchronous fast SRAM
- Low-power SRAM
- EEPROM
- Low-latency DRAM

Power Management Devices

- Power MOSFETs
- Super Junction MOSFETs
- IGBTs
- Fast Recovery Diodes
- SiC Schottky Barrier Diodes
- Triacs and Thyristors
- Automotive Intelligent Power Devices
- Automotive Certified Power MOSFETs
- Low-dropout voltage regulators
- Power-management ICs

System Development Tools

- Starter/evaluation kits
- Application development platforms
- Integrated development environments with software tools
- Operating systems
- Example application software
- Middleware
- Emulators (low-cost on-chip debug types and full in-circuit emulators)
- Flash programmers

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