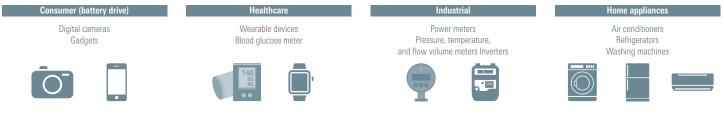




# The Best Mix of Power Consumption and Performance **RENESAS RX200 MCU SERIES**

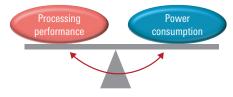


RX200 MCU series is developed based on the RX proprietary core, delivering top level security and various functions such as HMI, Bluetooth and  $\Delta \sum A/D$  needed in applications related in home appliance, industrial and IoT. This series has a good balance between high-speed processing by DSP / FPU and power consumption and is suitable for high-performance / energy-saving equipment such as battery powered equipment.



# **Benefits/ Key Features**

High processing performance and excellent power consumption



- Ideal for battery powered applications and high-performance and energy saving equipment
- DSP/FPU, enhanced by RXv2 core, provides high-speed calculation
- Operating current: 0.12mA/MHz
- RAM holding standby current: 0.8µA

# Equipped with Functions Easily Developed for Home Appliances, Industry, and IoT

Apprication	Group	Touch	Bluetooth	Security	∆∑A/D	5V
General	RX231	$\checkmark$	-	$\checkmark$	-	$\checkmark$
General	RX230	$\checkmark$	-	-	-	$\checkmark$
Home · OA	RX23W	$\checkmark$	$\checkmark$	$\checkmark$	-	-
Measuring equipment	RX23E-A	-	-	-	$\checkmark$	$\checkmark$

#### Supporting IoT with Abundant Communication Functions and Advanced Security



# **RENESAS RX200 MCU SERIES**

# **Product Information**

Product	RX Core	FPU	Frequency/ Flash	Peripheral Functions							
RX23W	RXv2	Single Precision	54MHz/ 512KB	CAN	USB	SDHI	Touch Key	SSI	Trusted secure IP Lite	Bluetooth	
RX23E-A	RXv2	Single Precision	32MHz/ 256KB	CAN	-	-	-	-	-	High Precision AFE	
RX231	RXv2	Single Precision	54MHz/ 512KB	CAN	USB	SDHI	Touch Key	SSI	Trusted secure IP Lite	-	
RX230	RXv2	Single Precision	54MHz/ 256KB	-	-	-	Touch Key	SSI	-	-	

# Solution/ Development Environment

### **Bluetooth Solution**

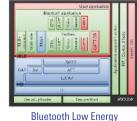
#### Facilitates the development of Bluetooth Low Energy

Jumpstart Bluetooth Low Energy development immediately with RX development boards, protocol stacks and evaluation tools.



Target board for RX23W

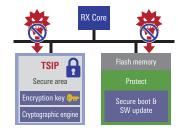




Bluetooth Low Ener Protocol stack

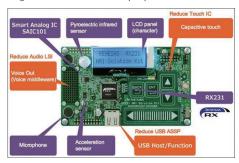
## Security Solution Peace of mind for the product

TSIP technology protects products from counterfeit, eavesdropping, spoofing, tampering by hijacking, etc.



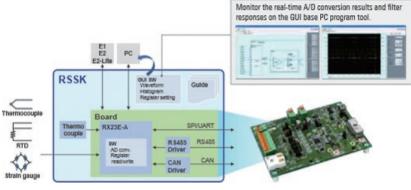
#### Touch Key Solution Lower Touch Key development barriers

HMI Kit can evaluation Touch function, segment LCD and audio playback.



# Long-term Product Supply Program

High-Precision Analog Front-end Development Support Tool Accurate and easy evaluation of analog performance



Renesas Electronics operates a long-term product supply program (commonly known as PLP: Product Longevity Program) so that customers with long equipment life cycles can select products with peace of mind. We will supply for up to 15 years.

# For more details, please visit www.renesas.com/RX

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#### Contact information

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