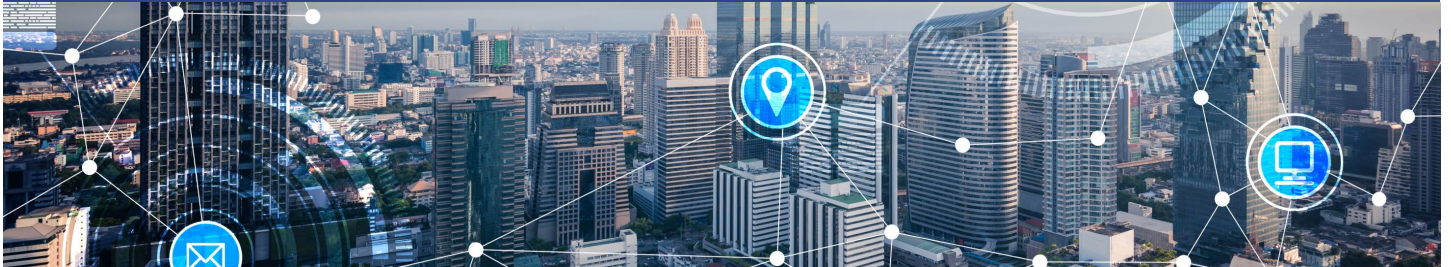


The RX Family Flagship Product with High Performance and Scalable Product Lineup

RENESAS RX700, RX600 MCU SERIES

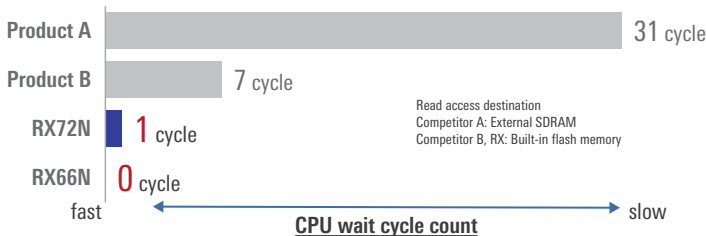


Renesas RX700 and RX600 series are ideal for real-time applications with its outstanding processing performance based on the latest RX CPU core. Abundant peripheral functions enable various device control and network control with a single chip, allowing more smaller devices developed with lesser parts needed. Also, enabling HMI control and cloud connectivity with top-level security for IoT solutions; and the RX72M supports major industrial network protocols including EtherCAT®.

Industrial							Office Automation		Consumer		
Robots, Machine tools	General-purpose inverters	PLC	Smart meter	Power conditioner	HVAC controller	Security controller	Copiers Printers	Projector	Audiovisual equipment	Camera body Lens	Air conditioner (outdoor unit, indoor unit)

Benefits/ Key Features

Overwhelming Real-Time Processing Performance

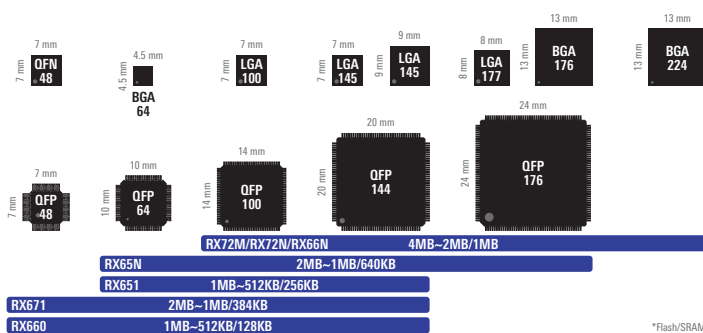


High-speed built-in Flash Capable of no-wait operation up to 120MHz

Stable CPU performance with no wait time

Ideal for real-time applications with the high-speed operation

Large-Capacity Memory and Minimal Package Lineup



Extensive line-up to suit market needs

Large-capacity memory that does not require external memory

Small package can be mounted on a small board

Equipped with Essential Functions for IoT Implementation

Connectivity	HMI	Security
<ul style="list-style-type: none"> In addition to standard functions such as Ethernet, USB and CAN/CAN-FD, products supporting industrial network protocols and home bus system are also available. 	<ul style="list-style-type: none"> LCDC I/F capable of WVGA 8-bit, WQVGA 16-bit display Large-capacity working memory that realizes display with 1 chip UI with contact/Touchless UI can be implemented with Touch Key 	<ul style="list-style-type: none"> Trusted Secure IP enables strong and high-speed security processing Protect your system from hijacking and tampering

RENESAS RX700, RX600 MCU SERIES

Product Information

Product	CPU	Supply Voltage	Flash/SRAM	HMI		Communication		Security
RX72M	RXv3 240MHz	3.3V	4MB*/1/1MB	LCD	I ² S	EtherCAT Ethernet	CAN,SDHI, USB,QSPI	Trusted Secure IP
RX72N	RXv3 240MHz	3.3V	4MB*/1/1MB	LCD	I ² S	Ethernet	CAN,SDHI, USB,QSPI	Trusted Secure IP
RX66N	RXv3 120MHz	3.3V	4MB*/1/1MB	LCD	I ² S	Ethernet	CAN,SDHI, USB,QSPI	Trusted Secure IP
RX671	RXv3 120MHz	3.3V	2MB*/1/384KB	Touch key	I ² S	Home Bus Support	CAN,SDHI, USB,QSPI	Trusted Secure IP
RX65N	RXv2 120MHz	3.3V	2MB*/1/640KB	LCD	-	Ethernet	CAN,SDHI, USB,QSPI	Trusted Secure IP
RX651	RXv2 120MHz	3.3V	2MB*/1/640KB	LCD	-	-	CAN,SDHI, USB,QSPI	Trusted Secure IP
RX660	RXv3 120MHz	2.7~5V	1MB/ 128KB	-	-	Home Bus Support	CAN-FD, Remote control reception	-

*1: Dual Bank compatible

Solution/ Development Environment

Cloud Solution

Simple Cloud connection

- Obtained FreeRTOS™ certification
- Easy connection to AWS cloud



Renesas RX65N Cloud Kit

GUI Solution

One-stop service

One-stop service for evaluation boards, middleware, and useful tools



emWin for RX

Security Solution

Product safety

- Renesas original key management function
- One-stop solution
- Life cycle management support
- Cryptographic technology with proven safety

Protect from Threats



Industrial Network Solution

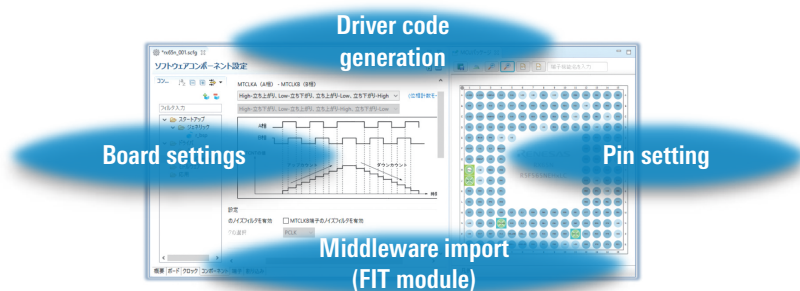
Multi-protocol support

Industries supporting major protocols
Network solutions available



Smart Configurator

Terminal setting, code generation, middleware import possible



Long-term Product Supply Program

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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www.renesas.com/contact/