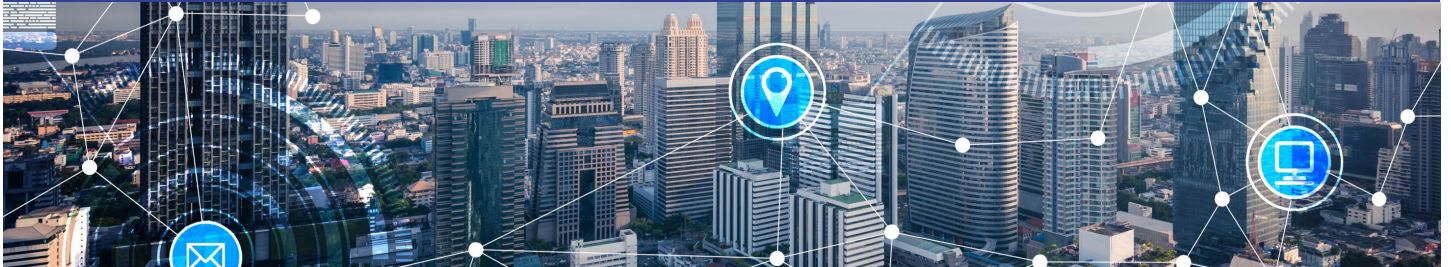
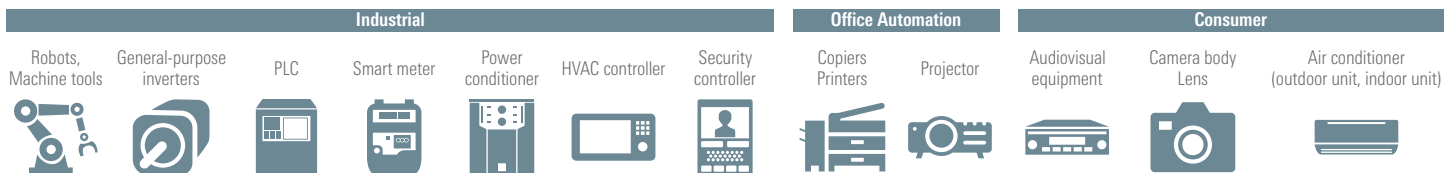


# The RX Family Flagship Product with High Performance and Scalable Product Lineup

## RENESAS RX700, RX600 MCU SERIES

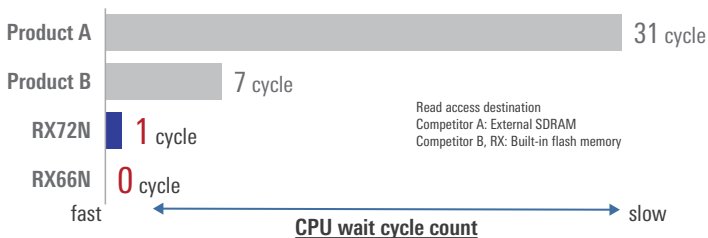


Renesas RX700 and RX600 series are ideal for real-time applications with its outstanding processing performance based on the latest RX CPU core. Abundant peripheral functions enable various device control and network control with a single chip, allowing more smaller devices developed with lesser parts 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®.



### Benefits/ Key Features

#### Overwhelming Real-Time Processing Performance

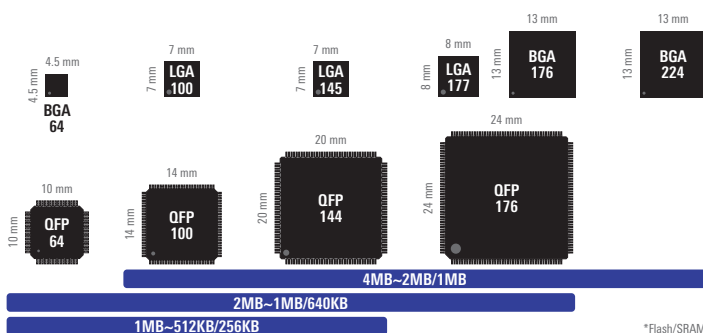


High-speed built-in Flash Capable of no-wait operation up to 120MHz

Stable CPU performance with no wait time

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

#### Large-Capacity Memory Expansion and Minimal Package Expansion



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"> <li>In addition to standard functions such as Ethernet, USB and CAN, products supporting industrial network protocols are also available.</li> </ul>	<ul style="list-style-type: none"> <li>LCDC I/F capable of WVGA 8-bit, WQVGA 16-bit display</li> <li>Large-capacity working memory that realizes display with 1 chip</li> <li>Realizes voice recognition with high-speed response and high recognition rate</li> </ul>	<ul style="list-style-type: none"> <li>Trusted Secure IP enables strong and high-speed security processing</li> <li>Protect your system from hijacking and tampering</li> </ul>

# RENESAS RX700, RX600 MCU SERIES

## Product Information

Product	RX Core	FPU	Frequency/Flash/SRAM	No. of Pins	Peripheral Functions			
RX72M	RXv3	Double/Single Precision	240MHz/4MB/1MB	176/224	Register Bank Save	Trigonometric Function Calculator	IEEE 1588	EtherCAT
RX72N	RXv3	Double/Single Precision	240MHz/4MB/1MB	100 - 224	Register Bank Save	Trigonometric Function Calculator	IEEE 1588	-
RX66N	RXv3	Double/Single Precision	120MHz/4MB/1MB	100 - 224	Register Bank Save	-	-	-
RX65N, RX651	RXv2	Single Precision	120MHz/2MB/640KB	64 - 177	-	-	-	-

## Common Functions

### Memory

Dual Bank Flash

### Connectivity

Ethernet\*

SD Host

USB

QSPI

CAN

### HMI

LCD Controller

### Security

Trusted Secure IP

\*Excluding RX651

## Solution/ Development Environment

### Cloud Solution

#### Simple Cloud connection

- Obtained FreeRTOS™ certification
- Easy connection to AWS cloud



Renesas RX65N Cloud Kit

### LCD Solution

#### One-stop service

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



### 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

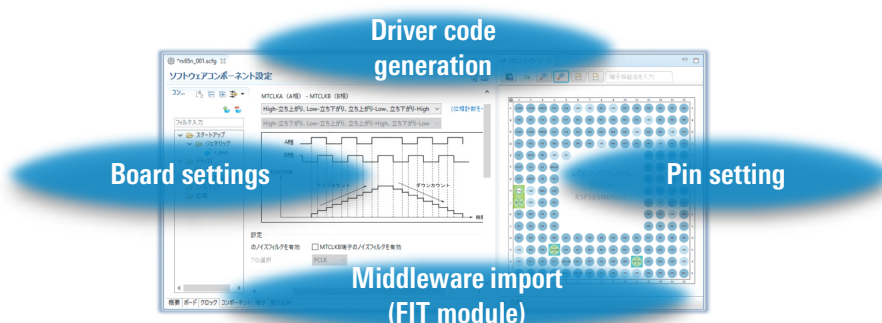
#### Multi-protocol support

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](http://www.renesas.com/RX)

### Corporate Headquarters

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### Contact information

For further information on a product, technology, the most up-to-date version of a document, or your nearest sales office, please visit:  
[www.renesas.com/contact/](http://www.renesas.com/contact/)