## RX family common info

### Product Group

<table>
<thead>
<tr>
<th>ROM Type</th>
<th>RX Family</th>
</tr>
</thead>
<tbody>
<tr>
<td>F: Flash</td>
<td>RX</td>
</tr>
<tr>
<td>S: ROM LESS</td>
<td>RX</td>
</tr>
</tbody>
</table>

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<td>RX</td>
</tr>
</tbody>
</table>

### Chip Original Info*1

<table>
<thead>
<tr>
<th>ROM/RAM/Data flash Size*1</th>
</tr>
</thead>
<tbody>
<tr>
<td>flash</td>
</tr>
<tr>
<td>size</td>
</tr>
</tbody>
</table>

### Temperature

| N | -20°C to 85°C |
| D | -40°C to 85°C |
| G | -40°C to 105°C |

### Production Identification code

#### Terminal specification(U,0,2:BGA/LGA/QFN_V,1,3:QFP/QFN)

<table>
<thead>
<tr>
<th>U,V,2,3</th>
<th>Tray</th>
</tr>
</thead>
<tbody>
<tr>
<td>0,1</td>
<td>Tray (Full carton)</td>
</tr>
<tr>
<td>4,5,W,X</td>
<td>Tape and reel</td>
</tr>
</tbody>
</table>

### Package, pin count and pin pitch

<table>
<thead>
<tr>
<th>Package</th>
<th>Pin Count</th>
<th>Pin Pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td>BD</td>
<td>LFQFP 100</td>
<td>0.5 mm</td>
</tr>
<tr>
<td>BG</td>
<td>LFQFP 176</td>
<td>0.8 mm</td>
</tr>
<tr>
<td>BL</td>
<td>TFBGA 85</td>
<td>0.65 mm</td>
</tr>
<tr>
<td>BP</td>
<td>TFBGA 64</td>
<td>0.5 mm</td>
</tr>
<tr>
<td>FA</td>
<td>LFQFP 120</td>
<td>0.5 mm</td>
</tr>
<tr>
<td>FB</td>
<td>LFQFP 144</td>
<td>0.5 mm</td>
</tr>
<tr>
<td>FC</td>
<td>LFQFP 176</td>
<td>0.5 mm</td>
</tr>
<tr>
<td>FD</td>
<td>LFQFP 52</td>
<td>0.65 mm</td>
</tr>
<tr>
<td>FF</td>
<td>LFQFP 80</td>
<td>0.65 mm</td>
</tr>
<tr>
<td>FH</td>
<td>LFQFP 112</td>
<td>0.65 mm</td>
</tr>
<tr>
<td>FJ</td>
<td>LFQFP 32</td>
<td>0.8 mm</td>
</tr>
<tr>
<td>FK</td>
<td>LFQFP 64</td>
<td>0.8 mm</td>
</tr>
<tr>
<td>FL</td>
<td>LFQFP 48</td>
<td>0.5 mm</td>
</tr>
<tr>
<td>FM</td>
<td>LFQFP 64</td>
<td>0.5 mm</td>
</tr>
<tr>
<td>FN</td>
<td>LFQFP 80</td>
<td>0.5 mm</td>
</tr>
</tbody>
</table>

---

*1: This information is different every RX group.
# RX110 Group

## Example shown here:
RX110 (64-pin), Part number R5F51105ADFM#30

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.

## Production Identification code

<table>
<thead>
<tr>
<th>Code</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>U,2,3</td>
<td>LGA/QFN</td>
<td>Tray</td>
</tr>
<tr>
<td>0,1</td>
<td>QFP</td>
<td>Tray (Full carton)</td>
</tr>
</tbody>
</table>

## Terminal specification

- **U,0,2**: LGA/QFN
- **1,3**: QFP

## Package, pin count and pin pitch

<table>
<thead>
<tr>
<th>Code</th>
<th>Package</th>
<th>Pin Count</th>
<th>Pin Pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM</td>
<td>LFQFP</td>
<td>64</td>
<td>0.50 mm</td>
</tr>
<tr>
<td>FL</td>
<td>LFQFP</td>
<td>48</td>
<td>0.50 mm</td>
</tr>
<tr>
<td>FK</td>
<td>LQFP</td>
<td>64</td>
<td>0.80 mm</td>
</tr>
<tr>
<td>LF</td>
<td>WFLGA</td>
<td>64</td>
<td>0.50 mm</td>
</tr>
<tr>
<td>LM</td>
<td>WFLGA</td>
<td>36</td>
<td>0.50 mm</td>
</tr>
<tr>
<td>NE</td>
<td>HWQFN</td>
<td>48</td>
<td>0.50 mm</td>
</tr>
<tr>
<td>NF</td>
<td>HWQFN</td>
<td>40</td>
<td>0.50 mm</td>
</tr>
</tbody>
</table>

## Temperature

- **D**: -40°C to 85°C
- **G**: -40°C to 105°C

## ROM/ROM Size

<table>
<thead>
<tr>
<th>Code</th>
<th>ROM/RAM Size</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>128KB 16KB</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>96KB 16KB</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>64KB 10KB</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>32KB 10KB</td>
<td></td>
</tr>
<tr>
<td>J</td>
<td>16KB 8KB</td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>8KB 8KB</td>
<td></td>
</tr>
</tbody>
</table>

## Product Group

- **RX110**

---

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Example shown here:
RX111 (64-pin), Part number R5F51115ADFM#30

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
**RX113 Group**

<table>
<thead>
<tr>
<th>Renesas MCU</th>
<th>ROM Type</th>
<th>RX100 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>F: Flash</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Group</th>
<th>ROM/RAM/Data flash Size</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>113 RX113</td>
<td>8 512KB 64KB 8KB</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7 384KB 64KB 8KB</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6 256KB 32KB 8KB</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5 128KB 32KB 8KB</td>
<td></td>
</tr>
</tbody>
</table>

**Example shown here:**
RX113 (64-pin), Part number R5F51138ADFM#3A

This guide shows the meanings of each figure of Product Part Number. Please refer User's Manual for the actual lineup.
RX130 Group

Example shown here:
RX130 (64-pin), Part number R5F51305ADF#30

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
RX13T Group

R5  F  5 13T  5  A  D  FL #3 0

Example shown here:
RX13T (48-pin), Part number R5F513T5ADFL#30

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
RX140 Group

Example shown here:
RX140 (64-pin), Part number R5F51406ADFM#30

This guide shows the meanings of each figure of Product Part Number.
Please refer User’s Manual for the actual lineup.
# RX210 Group

## Renesas MCU

<table>
<thead>
<tr>
<th>ROM Type</th>
<th>RX200 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>F: Flash</td>
<td></td>
</tr>
</tbody>
</table>

## ROM/RAM/Data flash Size

<table>
<thead>
<tr>
<th>ROM/RAM/Data flash Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1MB 96KB 8KB</td>
</tr>
<tr>
<td>768KB 96KB 8KB</td>
</tr>
<tr>
<td>512KB 64KB 8KB</td>
</tr>
<tr>
<td>384KB 64KB 8KB</td>
</tr>
<tr>
<td>256KB 32KB 8KB</td>
</tr>
<tr>
<td>128KB 20KB 8KB</td>
</tr>
<tr>
<td>96KB 16KB 8KB</td>
</tr>
<tr>
<td>64KB 12KB 8KB</td>
</tr>
</tbody>
</table>

## Chip version

<table>
<thead>
<tr>
<th>Chip version</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
</tr>
<tr>
<td>B</td>
</tr>
<tr>
<td>C</td>
</tr>
</tbody>
</table>

## Product Group

<table>
<thead>
<tr>
<th>Product Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>210 RX210</td>
</tr>
</tbody>
</table>

## Production Identification code

- U,V,3: Tray
- 1: Tray (Full carton)
- 5: Tape and reel

## Terminal specification (U:LGA V,1,3:QFP)

<table>
<thead>
<tr>
<th>Terminal specification</th>
<th>Package, pin count and pin pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td>U,V,3</td>
<td>F</td>
</tr>
<tr>
<td></td>
<td>FB LFQFP 144 0.50 mm</td>
</tr>
<tr>
<td></td>
<td>FK LQFP 64 0.80 mm</td>
</tr>
<tr>
<td>1</td>
<td>FP LFQFP 100 0.50 mm</td>
</tr>
<tr>
<td></td>
<td>LK TFLGA 145 0.50 mm</td>
</tr>
<tr>
<td>5</td>
<td>FN LFQFP 80 0.50 mm</td>
</tr>
<tr>
<td></td>
<td>LA TFLGA 100 0.50 mm</td>
</tr>
<tr>
<td></td>
<td>FM LFQFP 64 0.50 mm</td>
</tr>
<tr>
<td></td>
<td>LJ TFLGA 100 0.65 mm</td>
</tr>
<tr>
<td></td>
<td>FL LFQFP 48 0.50 mm</td>
</tr>
<tr>
<td></td>
<td>LH TFLGA 64 0.65 mm</td>
</tr>
<tr>
<td></td>
<td>FF LQFP 80 0.65 mm</td>
</tr>
<tr>
<td></td>
<td>FK LQFP 64 0.80 mm</td>
</tr>
</tbody>
</table>

## Temperature

- D: -40°C to 85°C
- G: -40°C to 105°C

---

Example shown here:
RX210 (100-pin), Part number R5F52108ADF#V0

This guide shows the meanings of each figure of Product Part Number. Please refer User's Manual for the actual lineup.
## RX21A Group

### Product Group

- **Renesas MCU**: F: Flash
- **ROM Type**: RX200 Series
- **Part Number**: R5F521A8BDFM#30

### ROM/RAM/Data flash Size

<table>
<thead>
<tr>
<th>ROM Type</th>
<th>Size</th>
<th>Package</th>
<th>Pin Count</th>
<th>Pin Pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>512KB</td>
<td>LFQFP</td>
<td>100</td>
<td>0.50 mm</td>
</tr>
<tr>
<td>7</td>
<td>384KB</td>
<td>LFQFP</td>
<td>80</td>
<td>0.50 mm</td>
</tr>
<tr>
<td>6</td>
<td>256KB</td>
<td>LFQFP</td>
<td>64</td>
<td>0.50 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TFLGA</td>
<td>100</td>
<td>0.65 mm</td>
</tr>
</tbody>
</table>

### Temperature

- **D**: -40°C to 85°C
- **G**: -40°C to 105°C

### Production Identification code

- **Tray**
  - U,V,3: Tray
  - 1: Tray (Full carton)

### Example shown here:
RX21A (64-pin), Part number R5F521A8BDFM#30

This guide shows the meanings of each figure of Product Part Number. Please refer User's Manual for the actual lineup.
RX220 Group

Example shown here: RX220 (100-pin), Part number R5F52206BDFP#30

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
Example shown here:
RX230 (64-pin), Part number R5F52306ADF#30

This guide shows the meanings of each figure of Product Part Number.
Please refer User’s Manual for the actual lineup.
RX231 Group

R5  F  5 231  8  A  D  FM #3 0

Example shown here:
RX231 (64-pin), Part number R5F52318ADFM#30

This guide shows the meanings of each figure of Product Part Number. Please refer User's Manual for the actual lineup.
RX23E-A Group

Example shown here:
RX23E-A (48-pin), Part number R5F523E6ADFL#30

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
Example shown here:
RX23E-B (40-pin), Part number R5F523E6BDNF#30

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
RX23T Group

Example shown here:
RX23T (64-pin), Part number R5F523T5ADFM#30

This guide shows the meanings of each figure of Product Part Number. Please refer User's Manual for the actual lineup.
Example shown here:
RX23W (85-pin), Part number R5F523W8ADBL#30

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
Example shown here:
RX24T (100-pin), Part number R5F524TAADFP#30

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
Example shown here:
RX24U (144-pin), Part number R5F524UEADFB#30

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
# RX26T Group

## Example shown here:
RX26T (100-pin), Part number R5F526TEADFP#30

## Renesas MCU
- **F**: Flash
- **RX200 Series**

## Product Group
- **26T**: RX26T

## ROM/RAM/Data Flash Size
- **F**: 512KB, 64KB, 16KB
- **B**: 256KB, 64KB, 16KB
- **A**: 256KB, 48KB, 16KB
- **9**: 128KB, 64KB, 16KB
- **8**: 128KB, 48KB, 16KB

## CAN FD, TSIP-Lite
- **A**: No, Yes
- **B**: No, Yes
- **C**: Yes, No
- **E**: Yes, Yes

## Package, Pin Count and Pin Pitch
- **FP**: LFQFP 100, 0.50 mm
- **FN**: LFQFP 80, 0.50 mm
- **FM**: LFQFP 64, 0.50 mm
- **FL**: LFQFP 48, 0.50 mm
- **ND**: HWQFN 64, 0.50 mm
- **NE**: HWQFN 48, 0.50 mm

## Production Identification Code
- **Terminal Specification (1,3: QFP)**
  - **3**: Tray
  - **1**: Tray (Full carton)

## Temperature
- **D**: -40°C to 85°C
- **G**: -40°C to 105°C

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
RX621 Group

R5 F 5 621 7 B D BG #U 0

Renesas MCU
ROM Type F: Flash
RX600 Series

Product Group
621 RX621

ROM/RAM/Data flash Size
8 512KB 96KB 32KB
7 384KB 64KB 32KB
6 256KB 64KB 32KB

CAN Support
A No
B Yes

Temperature
D -40℃ to 85℃

Production Identification code
Terminal specification (U,0:BGA/LGA V,1:QFP)

Package, pin count and pin pitch
FB LFQFP 144 0.50 mm
FP LFQFP 100 0.50 mm
LE TFLGA 145 0.65 mm
LD TFLGA 85 0.65 mm
BG LFBGA 176 0.80 mm

Example shown here:
RX621 (176-pin), Part number R5F56217BDBG#U0

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
RX62G Group

Example shown here:
RX62G (112-pin), Part number R5F562GABDFH#V3

This guide shows the meanings of each figure of Product Part Number. Please refer User's Manual for the actual lineup.
RX62N Group

Example shown here:
RX62N (176-pin), Part number R5F562N7BDBG#U0

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
### RX62T Group

**R5  F  5 62T  A  B  D  FH #V 3**

- **Renesas MCU**
  - ROM Type: F: Flash
  - RX600 Series

- **Product Group**
  - 62T: RX62T

- **ROM/RAM/Data flash Size**
  - A: 256KB 16KB 32KB
  - 7: 128KB 8KB 8KB
  - 6: 64KB 8KB 8KB

- **Operation voltage, CAN Support**
  - A: 5V Yes
  - B: 3V Yes
  - D: 5V No
  - E: 3V No

- **Temperature**
  - D: -40°C to 85°C
  - G: -40°C to 105°C

- **Production Identification code**
  - Terminal specification (V, 1: QFP)
    - V: Tray
    - 1: Tray (Full carton)
    - X: Tape and reel

- **Package, pin count and pin pitch**
  - FP: LFQFP 100 0.50 mm
  - FM: LFQFP 64 0.50 mm
  - FH: LQFP 112 0.65 mm
  - FF: LQFP 80 0.65 mm
  - FK: LQFP 64 0.80 mm

**Example shown here:**
RX62T (112-pin), Part number R5F562TABDFH#V3

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
RX630 Group

Example shown here:
RX630 (80-pin), Part number R5F56307CDFN#V0

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
RX631 Group

Example shown here:
RX631 (100-pin), Part number R5F5631ACDFP#V0

This guide shows the meanings of each figure of Product Part Number. Please refer User's Manual for the actual lineup.
RX634 Group

Example shown here:
RX634 (144-pin), Part number R5F5634EYDFB#30

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
RX63N Group

Example shown here:
RX63N (100-pin), Part number R5F563NACDFP#V0

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
RX63T Group

Example shown here:
RX63T (144-pin), Part number R5F563TEADFB#V1

This guide shows the meanings of each figure of Product Part Number. Please refer User's Manual for the actual lineup.
RX64M Group

R5  F  5  64M  L  C  D  FC #3 1

Example shown here:
RX64M (176-pin), Part number R5F564MLCDFC#31

This guide shows the meanings of each figure of Product Part Number.
**RX651 Group**

**Example shown here:**
RX651 (144-pin), Part number R5F56519ADFB#31

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
RX65N Group

Example shown here:
RX65N (144-pin), Part number R5F565N9ADFB#31

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
Example shown here:
RX65W (145-pin), Part number R5F565WEADBF#20

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
**RX660 Group**

**R5 F 5 660 9 A D FB #3 0**

**Product Group**

| 66N | RX660 |

**Rom/Ram/Data flash Size**

<table>
<thead>
<tr>
<th>9</th>
<th>1MB</th>
<th>128KB</th>
<th>32KB</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>512KB</td>
<td>128KB</td>
<td>32KB</td>
</tr>
</tbody>
</table>

**JTAG, Sub-Clock, CAN-FD**

<table>
<thead>
<tr>
<th>A</th>
<th>No</th>
<th>No</th>
<th>No*</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>C</td>
<td>No</td>
<td>Yes</td>
<td>No*</td>
</tr>
<tr>
<td>D</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>E</td>
<td>Yes</td>
<td>No</td>
<td>No*</td>
</tr>
</tbody>
</table>

**Production Identification code**

- **Terminal specification (1,3:QFP)**
  - 3: Tray
  - 1: Tray (Full carton)

**Package, pin count and pin pitch**

<table>
<thead>
<tr>
<th>FB</th>
<th>LFQFP</th>
<th>144</th>
<th>0.50 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>FP</td>
<td>LFQFP</td>
<td>100</td>
<td>0.50 mm</td>
</tr>
<tr>
<td>FN</td>
<td>LFQFP</td>
<td>80</td>
<td>0.50 mm</td>
</tr>
<tr>
<td>FM</td>
<td>LFQFP</td>
<td>64</td>
<td>0.50 mm</td>
</tr>
<tr>
<td>FL</td>
<td>LFQFP</td>
<td>48</td>
<td>0.50 mm</td>
</tr>
</tbody>
</table>

**Temperature**

- **D** -40°C to 85°C
- **G** -40°C to 105°C

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
RX66N Group

R5 F 566N N D D BD #V 0

Example shown here:
RX66N (224-pin), Part number R5F566NNDDBD#V0

This guide shows the meanings of each figure of Product Part Number. Please refer User's Manual for the actual lineup.
This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.

Example shown here:
RX66T (144-pin), Part number R5F566TEADFB#31
Example shown here:
RX671 (144-pin), Part number R5F5671EDDFB#10

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
### RX71M Group

**R5 F 5 71M L C D FC #V0**

- **Renesas MCU**: RX700 Series
- **ROM Type**: F: Flash
- **Product Group**: RX71M
- **ROM/RAM/Data flash Size**:
  - **L**: 4MB, 512KB, 64KB
  - **J**: 3MB, 512KB, 64KB
  - **G**: 2.5MB, 512KB, 64KB
  - **F**: 2KB, 512KB, 64KB
- **Encryption, SDHI Support**:
  - **D**: No, Yes
  - **H**: Yes, Yes
  - **C**: No, No
  - **G**: Yes, No
- **Temperature**:
  - **D**: -40°C to 85°C
  - **G**: -40°C to 105°C
- **Package, pin count and pin pitch**:
  - **FC**: LFQFP, 176 pins, 0.50 mm
  - **FB**: LFQFP, 144 pins, 0.50 mm
  - **FP**: LFQFP, 100 pins, 0.50 mm
  - **LC**: TFLGA, 177 pins, 0.50 mm
  - **LK**: TFLGA, 145 pins, 0.50 mm
  - **LJ**: TFLGA, 100 pins, 0.65 mm
  - **BG**: LFBGA, 176 pins, 0.80 mm

### Example shown here:
RX71M (176-pin), Part number R5F571MLCFC#V0

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
Example shown here:
RX72M (176-pin), Part number R5F572MNDDFC#31

This guide shows the meanings of each figure of Product Part Number. Please refer User's Manual for the actual lineup.
RX72N Group

Example shown here:
RX72N (224-pin), Part number R5F572NNDDBD#V0

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
RX72T Group

Example shown here:
RX72T (144-pin), Part number R5F572TEADFB#31

This guide shows the meanings of each figure of Product Part Number. Please refer User’s Manual for the actual lineup.
RX610 Group

R5 F 5 610 8 V N FP #V 0

Example shown here:
RX610 (144-pin), Part number R5F56108VNFP#V0

Red letters: RX610 is different from RX common rules.