

# RX Family Common Info



## R5 F 5 110 5 A D FM #3 0

**Renesas MCU**  
**ROM Type**  
**F: Flash**  
**S: ROM LESS**  
**RX Family**

**Product Group**

<b>71M</b>	RX71M	<b>24T</b>	RX24T
<b>64M</b>	RX64M	<b>23T</b>	RX23T
<b>651</b>	RX651	<b>231</b>	RX231
<b>65N</b>	RX65N	<b>230</b>	RX230
<b>631</b>	RX631	<b>220</b>	RX220
<b>63N</b>	RX63N	<b>210</b>	RX210
<b>621</b>	RX621	<b>21A</b>	RX21A
<b>62N</b>	RX62N	<b>130</b>	RX130
<b>634</b>	RX634	<b>113</b>	RX113
<b>630</b>	RX630	<b>111</b>	RX111
<b>63T</b>	RX63T	<b>110</b>	RX110
<b>62T</b>	RX62T		
<b>62G</b>	RX62G		

**ROM/RAM/Data flash Size\*1**

**Chip Original Info\*1**

**Temperature**

<b>N</b>	-20°C to 85°C
<b>D</b>	-40°C to 85°C
<b>G</b>	-40°C to 105°C

**Production Identification code**

**Terminal specification**

<b>u,2</b>	Tray (HWQFN,WFLGA,TFLGA,LFBGA,WFBGA)
<b>v,3</b>	Tray (LFQFP,LQFP)

**Package, pin count and pin pitch**

<b>BG</b>	LFBGA	176	0.8 mm	<b>LA</b>	TFLGA	100	0.5 mm
<b>FA</b>	LFQFP	120	0.5 mm	<b>LC</b>	TFLGA	177	0.5 mm
<b>FB</b>	LFQFP	144	0.5 mm	<b>LD</b>	TFLGA	85	0.65 mm
<b>FC</b>	LFQFP	176	0.5 mm	<b>LE</b>	TFLGA	145	0.65 mm
<b>FD</b>	LQFP	52	0.65 mm	<b>LF</b>	WFLGA	64	0.5 mm
<b>FF</b>	LQFP	80	0.65 mm	<b>LH</b>	TFLGA	64	0.65 mm
<b>FH</b>	LQFP	112	0.65 mm	<b>LJ</b>	TFLGA	100	0.65 mm
<b>FK</b>	LQFP	64	0.8 mm	<b>LK</b>	TFLGA	145	0.5 mm
<b>FL</b>	LFQFP	48	0.5 mm	<b>LM</b>	WFLGA	36	0.5 mm
<b>FM</b>	LFQFP	64	0.5 mm	<b>ND</b>	HWQFN	64	0.5 mm
<b>FN</b>	LFQFP	80	0.5 mm	<b>NE</b>	HWQFN	48	0.5 mm
<b>FP</b>	LFQFP	100	0.5 mm	<b>NF</b>	HWQFN	40	0.5 mm

\*1:This information is different every RX group.

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

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# RX110 Group



## R5 F 5 110 5 A D FM #3 0

Renesas MCU ROM Type F: Flash RX100 Series

Product Group

110	RX110
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ROM/RAM Size

5	128KB	16KB
4	96KB	16KB
3	64KB	10KB
1	32KB	10KB
J	16KB	8KB
H	8KB	8KB

Production Identification code

Terminal specification

u,2	Tray (HWQFN,WFLGA)
v,3	Tray (LFQFP,LQFP)

Package, pin count and pin pitch

FM	LFQFP	64	0.50 mm
FL	LFQFP	48	0.50 mm
FK	LQFP	64	0.80 mm
LF	WFLGA	64	0.50 mm
LM	WFLGA	36	0.50 mm
NE	HWQFN	48	0.50 mm
NF	HWQFN	40	0.50 mm

Temperature

D	-40°C to 85°C
G	-40°C to 105°C

Example :  
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.

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# RX111 Group



## R5 F 5 111 5 A D FM #3 0

Renesas MCU ROM Type F: Flash RX100 Series

Product Group

111	RX111
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ROM/RAM/Data flash Size

8	512KB	64KB	8KB
7	384KB	64KB	8KB
6	256KB	32KB	8KB
5	128KB	16KB	8KB
4	96KB	16KB	8KB
3	64KB	10KB	8KB
1	32KB	10KB	8KB
J	16KB	8KB	8KB

Production Identification code

Terminal specification

u,2	Tray (HWQFN,WFLGA)
v,3	Tray (LFQFP,LQFP)

Package, pin count and pin pitch

FM	LFQFP	64	0.50 mm
FL	LFQFP	48	0.50 mm
FK	LQFP	64	0.80 mm
LF	WFLGA	64	0.50 mm
LM	WFLGA	36	0.50 mm
NE	HWQFN	48	0.50 mm
NF	HWQFN	40	0.50 mm

Temperature

D	-40°C to 85°C
G	-40°C to 105°C

Example :  
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.

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# RX113 Group



## R5 F 5 113 8 A D FM #3 A

Renesas MCU ROM Type F: Flash RX100 Series

Product Group

113	RX113
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ROM/RAM/Data flash Size

8	512KB	64KB	8KB
7	384KB	64KB	8KB
6	256KB	32KB	8KB
5	128KB	32KB	8KB

Production Identification code

Terminal specification

u,2	Tray (TFLGA)
v,3	Tray (LFQFP)

Package, pin count and pin pitch

FP	LFQFP	100	0.50 mm
FM	LFQFP	64	0.50 mm
LJ	TFLGA	100	0.65 mm

Temperature

D	-40°C to 85°C
G	-40°C to 105°C

Example :  
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.

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# RX130 Group



## R5 F 5 130 5 A D FM #3 0

Renesas MCU ROM Type F: Flash RX100 Series

Product Group

130	RX130
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ROM/RAM/Data flash Size

8	512KB	48KB	8KB
5	384KB	48KB	8KB
5	256KB	32KB	8KB
5	128KB	16KB	8KB
3	64KB	10KB	8KB

Production Identification code

Terminal specification

u,2	Tray (HWQFN)
v,3	Tray (LFQFP,LQFP)

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
FK	LQFP	64	0.80 mm
NE	HWQFN	48	0.50 mm

Temperature

D	-40°C to 85°C
G	-40°C to 105°C

Example :  
RX113 (64-pin), Part number R5F51305ADFM#30

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

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# RX210 Group



## R5 F 5 210 8 A D F P # V 0

Renesas MCU ROM Type F: Flash RX200 Series

Product Group

210	RX210
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ROM/RAM/Data flash Size

<b>B</b>	1MB	96KB	8KB	<b>6</b>	256KB	32KB	8KB
<b>A</b>	768KB	96KB	8KB	<b>5</b>	128KB	20KB	8KB
<b>8</b>	512KB	64KB	8KB	<b>4</b>	96KB	16KB	8KB
<b>7</b>	384KB	64KB	8KB	<b>3</b>	64KB	12KB	8KB

Chip version

<b>A</b>	Chip version A
<b>B</b>	Chip version B
<b>C</b>	Chip version C

Production Identification code

Terminal specification

<b>u,2</b>	Tray (TFLGA,WFBGA)
<b>v,3</b>	Tray (LFQFP,LQFP)

Package, pin count and pin pitch

<b>FB</b>	LFQFP	144	0.50 mm	<b>FK</b>	LQFP	64	0.80 mm
<b>FP</b>	LFQFP	100	0.50 mm	<b>LK</b>	TFLGA	145	0.50 mm
<b>FN</b>	LFQFP	80	0.50 mm	<b>LA</b>	TFLGA	100	0.50 mm
<b>FM</b>	LFQFP	64	0.50 mm	<b>LJ</b>	TFLGA	100	0.65 mm
<b>FL</b>	LFQFP	48	0.50 mm	<b>LH</b>	TFLGA	64	0.65 mm
<b>FF</b>	LQFP	80	0.65 mm				

Temperature

<b>D</b>	-40°C to 85°C
<b>G</b>	-40°C to 105°C

Example :  
RX210 (100-pin), Part number R5F52108ADFP#V0

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

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# RX21A Group



## R5 F 5 21A 8 B D FM #3 0

Renesas MCU ROM Type F: Flash RX200 Series

Product Group

21A	RX21A
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ROM/RAM/Data flash Size

8	512KB	64KB	8KB
7	384KB	64KB	8KB
6	256KB	32KB	8KB

Production Identification code

Terminal specification

u,2	Tray (TFLGA)
v,3	Tray (LFQFP)

Package, pin count and pin pitch

FP	LFQFP	100	0.50 mm
FN	LFQFP	80	0.50 mm
FM	LFQFP	64	0.50 mm
LJ	TFLGA	100	0.65 mm

Temperature

D	-40°C to 85°C
G	-40°C to 105°C

Example :  
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.

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# RX220 Group



## R5 F 5 220 6 B D FP #3 0

Renesas MCU ROM Type F: Flash RX200 Series

Product Group

220	RX220
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ROM/RAM/Data flash Size

6	256KB	16KB	8KB
5	128KB	8KB	8KB
3	64KB	8KB	8KB
1	32KB	4KB	8KB

Production Identification code

Terminal specification

v,3 Tray (LFQFP,LQFP)

Package, pin count and pin pitch

FP	LFQFP	100	0.50 mm
FM	LFQFP	64	0.50 mm
FL	LFQFP	48	0.50 mm
FK	LQFP	64	0.80 mm

Temperature

D	-40°C to 85°C
G	-40°C to 105°C

Example :  
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.

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# RX231 Group



## R5 F 5 231 8 A D FM #3 0

**Renesas MCU**  
**ROM Type F: Flash**  
**RX200 Series**

**Product Group**

<b>231</b>	RX231
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**ROM/RAM/Data flash Size**

<b>8</b>	512KB	64KB	8KB
<b>7</b>	384KB	64KB	8KB
<b>6</b>	256KB	32KB	8KB
<b>5</b>	128KB	32KB	8KB

**Encryption / SDHI / CAN Support**

<b>A</b>	No	No	Yes
<b>B</b>	Yes	Yes	Yes
<b>C</b>	No	No	No

**Production Identification code**

**Terminal specification**

<b>u,2</b>	Tray (HWQFN,WFLGA,TFLGA)
<b>v,3</b>	Tray (LFQFP)

**Package, pin count and pin pitch**

<b>FP</b>	LFQFP	100	0.50 mm
<b>FM</b>	LFQFP	64	0.50 mm
<b>FL</b>	LFQFP	48	0.50 mm
<b>LA</b>	TFLGA	100	0.50 mm
<b>LF</b>	WFLGA	64	0.50 mm
<b>ND</b>	HWQFN	64	0.50 mm
<b>NE</b>	HWQFN	48	0.50 mm

**Temperature**

<b>D</b>	-40°C to 85°C
<b>G</b>	-40°C to 105°C

**Example :**  
 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.

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# RX230 Group



## R5 F 5 230 6 A D FM #3 0

Renesas MCU ROM Type F: Flash RX200 Series

Product Group

230	RX230
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ROM/RAM/Data flash Size

6	256KB	32KB	8KB
5	128KB	32KB	8KB

Production Identification code

Terminal specification

u,2	Tray (HWQFN,WFLGA,TFLGA)
v,3	Tray (LFQFP)

Package, pin count and pin pitch

FP	LFQFP	100	0.50 mm
FM	LFQFP	64	0.50 mm
FL	LFQFP	48	0.50 mm
LA	TFLGA	100	0.50 mm
LF	WFLGA	64	0.50 mm
ND	HWQFN	64	0.50 mm
NE	HWQFN	48	0.50 mm

Temperature

D	-40°C to 85°C
G	-40°C to 105°C

Example :  
RX230 (64-pin), Part number R5F52306ADFM#30

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

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# RX23T Group



## R5 F 5 23T 5 A D FM #3 0

Renesas MCU ROM Type F: Flash RX200 Series

Product Group

23T	RX23T
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ROM/RAM Size

5	128KB	12KB
3	64KB	12KB

Operation voltage

A	5V
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Production Identification code

Terminal specification

v,3	Tray (LFQFP,LQFP)
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Package, pin count and pin pitch

FM	LFQFP	64	0.50 mm
FL	LFQFP	48	0.50 mm
FD	LQFP	52	0.65 mm

Temperature

D	-40°C to 85°C
G	-40°C to 105°C

Example :  
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.

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# RX24T Group

## R5 F 5 24T A A D FP #3 0

Renesas MCU ROM Type F: Flash RX200 Series

Product Group

24T	RX24T
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ROM/RAM/Data flash Size

E	512KB	32KB	8KB
C	384KB	32KB	8KB
B	256KB	32KB	8KB
A	256KB	16KB	8KB
8	128KB	16KB	8KB

Operation voltage

A	5V
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Production Identification code

Terminal specification

v,3 Tray (LFQFP,LQFP)

Package, pin count and pin pitch

FP	LFQFP	100	0.50 mm
FF	LQFP	80	0.65 mm
FN	LFQFP	80	0.50 mm
FM	LFQFP	64	0.50 mm

Temperature

D	-40°C to 85°C
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Example :  
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.

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# RX24U Group

## R5 F 5 24U E A D FB #3 0

Renesas MCU ROM Type F: Flash RX200 Series

Product Group

24U	RX24U
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ROM/RAM/Data flash Size

E	512KB	32KB	8KB
C	384KB	32KB	8KB
B	256KB	32KB	8KB

Operation voltage

A	5V
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Production Identification code

Terminal specification

v,3	Tray (LFQFP,LQFP)
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Package, pin count and pin pitch

FB	LFQFP	144	0.50 mm
FP	LFQFP	100	0.50 mm

Temperature

D	-40°C to 85°C
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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.

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# RX62N Group



## R5 F 5 62N 7 B D BG #U 0

**Renasas MCU**  
**ROM Type F: Flash**  
**RX600 Series**

**Product Group**

<b>62N</b>	RX62N
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**ROM/RAM/Data flash Size**

<b>8</b>	512KB	96KB	32KB
<b>7</b>	384KB	64KB	32KB

**CAN Support**

<b>A</b>	No
<b>B</b>	Yes

**Production Identification code**

**Terminal specification**

<b>u,2</b>	Tray (TFLGA,LFBGA)
<b>v,3</b>	Tray (LFQFP)

**Package, pin count and pin pitch**

<b>FB</b>	LFQFP	144	0.50 mm
<b>FP</b>	LFQFP	100	0.50 mm
<b>LE</b>	TFLGA	145	0.65 mm
<b>BG</b>	LFBGA	176	0.80 mm

**Temperature**

<b>D</b>	-40°C to 85°C
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**Example :**  
 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.

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# RX621 Group



## R5 F 5 621 7 B D B G #U 0

Renesas MCU ROM Type F: Flash RX600 Series

Product Group

621	RX621
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ROM/RAM/Data flash Size

8	512KB	96KB	32KB
7	384KB	64KB	32KB
6	256KB	64KB	32KB

CAN Support

A	No
B	Yes

Production Identification code

Terminal specification

u,2	Tray (TFLGA,LFBGA)
v,3	Tray (LFQFP)

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

Temperature

D	-40°C to 85°C
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Example :  
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.

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# RX62T Group

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

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

**Product Group**

<b>62T</b>	RX62T
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**ROM/RAM/Data flash Size**

<b>A</b>	256KB	16KB	32KB
<b>7</b>	128KB	8KB	8KB
<b>6</b>	64KB	8KB	8KB

**Operation voltage, CAN Support**

<b>A</b>	5V	Yes
<b>B</b>	3V	Yes
<b>D</b>	5V	No
<b>E</b>	3V	No

**Production Identification code**

**Terminal specification**

**v,3** Tray (LFQFP,LQFP)

**Package, pin count and pin pitch**

<b>FP</b>	LFQFP	100	0.50 mm
<b>FM</b>	LFQFP	64	0.50 mm
<b>FH</b>	LQFP	112	0.65 mm
<b>FF</b>	LQFP	80	0.65 mm
<b>FK</b>	LQFP	64	0.80 mm

**Temperature**

<b>D</b>	-40°C to 85°C
<b>G</b>	-40°C to 105°C

Example :  
 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.

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# RX62G Group

## R5 F 5 62G A B D FH #V 3

Renesas MCU ROM Type F: Flash RX600 Series

Product Group

62G	RX62G
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ROM/RAM/Data flash Size

A	256KB	16KB	32KB
7	128KB	8KB	8KB

Operation voltage, CAN Support

A	5V	Yes
D	5V	No

Production Identification code

Terminal specification

v,3	Tray (LFQFP,LQFP)
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Package, pin count and pin pitch

FP	LFQFP	100	0.50 mm
FH	LQFP	112	0.65 mm

Temperature

D	-40°C to 85°C
G	-40°C to 105°C

Example :  
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.

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# RX630 Group



## R5 F 5 630 7 C D FN #V 0

Renesas MCU ROM Type F: Flash RX600 Series

Product Group

630	RX630
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ROM/RAM/Data flash Size

<b>E</b>	2MB	128KB	32KB	<b>A</b>	786KB	96KB	32KB
<b>D</b>	1.5MB	128KB	32KB	<b>8</b>	512KB	64KB	32KB
<b>B</b>	1MB	96KB	32KB	<b>7</b>	384KB	64KB	32KB

CAN Support

<b>C</b>	No
<b>D</b>	Yes

Production Identification code

Terminal specification

<b>u,2</b>	Tray (TFLGA,LFBGA)
<b>v,3</b>	Tray (LFQFP)

Package, pin count and pin pitch

<b>FC</b>	LFQFP	176	0.50 mm	<b>LC</b>	TFLGA	177	0.50 mm
<b>FB</b>	LFQFP	144	0.50 mm	<b>LK</b>	TFLGA	145	0.50 mm
<b>FP</b>	LFQFP	100	0.50 mm	<b>LA</b>	TFLGA	100	0.50 mm
<b>FN</b>	LFQFP	80	0.50 mm	<b>BG</b>	LFBGA	176	0.80 mm

Temperature

<b>D</b>	-40°C to 85°C
<b>G</b>	-40°C to 105°C

Example :  
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.

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# RX634 Group



## R5 F 5 634 E Y D FB #3 0

Renesas MCU ROM Type F: Flash RX600 Series

Product Group

634	RX634
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ROM/RAM/Data flash Size

E	2MB	128KB	32KB
D	1.5MB	128KB	32KB
B	1MB	128KB	32KB

Operation voltage

Y	5V
C	3V

Production Identification code

Terminal specification

v,3 Tray (LFQFP)

Package, pin count and pin pitch

FB	LFQFP	144	0.50 mm
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Temperature

D	-40°C to 85°C
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Example :  
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.

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# RX63N Group

## R5 F 5 63N A C D FP #V 0

Renesas MCU ROM Type F: Flash RX600 Series

Product Group

<b>63N</b>	RX63N
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ROM/RAM/Data flash Size

<b>F</b>	2MB	256KB	32KB	<b>Y</b>	1MB	256KB	32KB
<b>K</b>	2MB	192KB	32KB	<b>W</b>	1MB	192KB	32KB
<b>E</b>	2MB	128KB	32KB	<b>B</b>	1MB	128KB	32KB
<b>D</b>	1.5MB	128KB	32KB	<b>A</b>	786KB	128KB	32KB

CAN, DEU Support

<b>H</b>	Yes	Yes
<b>D</b>	Yes	No
<b>C</b>	No	No

Production Identification code

Terminal specification

<b>u,2</b>	Tray (TFLGA,LFBGA)
<b>v,3</b>	Tray (LFQFP)

Package, pin count and pin pitch

<b>FC</b>	LFQFP	176	0.50 mm	<b>BG</b>	LFBGA	176	0.80 mm
<b>FB</b>	LFQFP	144	0.50 mm	<b>LC</b>	TFLGA	177	0.50 mm
<b>FP</b>	LFQFP	100	0.50 mm	<b>LK</b>	TFLGA	145	0.50 mm
				<b>LJ</b>	TFLGA	100	0.65 mm

Temperature

<b>D</b>	-40°C to 85°C
<b>G</b>	-40°C to 105°C

Example :  
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.

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# RX631 Group



## R5 F 5 631 A C D F P #V 0

Renesas MCU ROM Type  
 F: Flash S:Rom Less RX600 Series

Product Group

631	RX631
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ROM/RAM/Data flash Size

<b>F</b>	2MB	256KB	32KB	<b>6</b>	256KB	128KB	32KB
<b>K</b>	2MB	192KB	32KB	<b>P</b>	512KB	64KB	32KB
<b>E</b>	2MB	128KB	32KB	<b>N</b>	384KB	64KB	32KB
<b>J</b>	1.5MB	256KB	32KB	<b>M</b>	256KB	64KB	32KB
<b>G</b>	1.5MB	192KB	32KB	<b>0</b>	0KB	128KB	0KB
<b>D</b>	1.5MB	128KB	32KB				
<b>Y</b>	1MB	256KB	32KB				
<b>W</b>	1MB	192KB	32KB				
<b>B</b>	1MB	128KB	32KB				
<b>A</b>	786KB	128KB	32KB				
<b>8</b>	512KB	128KB	32KB				
<b>7</b>	384KB	128KB	32KB				

CAN, DEU, PDC Support

<b>H</b>	Yes	Yes	No
<b>D</b>	Yes	No	No
<b>C</b>	No	No	No
<b>S</b>	Yes	No	Yes
<b>F*</b>	Yes	No	No

\*64pin TFLGA only

Production Identification code

Terminal specification

<b>u,2</b>	Tray (TFLGA,LFBGA)
<b>v,3</b>	Tray (LFQFP)

Package, pin count and pin pitch

<b>FC</b>	LFQFP	176	0.50 mm	<b>BG</b>	LFBGA	176	0.80 mm
<b>FB</b>	LFQFP	144	0.50 mm	<b>LC</b>	TFLGA	177	0.50 mm
<b>FP</b>	LFQFP	100	0.50 mm	<b>LK</b>	TFLGA	145	0.50 mm
<b>FM</b>	LFQFP	64	0.50 mm	<b>LJ</b>	TFLGA	100	0.65 mm
<b>FL</b>	LFQFP	48	0.50 mm	<b>LH</b>	TFLGA	64	0.65 mm

Temperature

<b>D</b>	-40°C to 85°C
<b>G</b>	-40°C to 105°C

Example :  
 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.

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# RX63T Group

## R5 F 5 63T E A D FB #V 1

Renesas MCU ROM Type F: Flash RX600 Series

Product Group

63T	RX63T
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ROM/RAM/Data flash Size

<b>E</b>	512KB	48KB	32KB	<b>6</b>	64KB	8KB	8KB
<b>C</b>	384KB	32KB	32KB	<b>5</b>	48KB	8KB	8KB
<b>B</b>	256KB	24KB	32KB	<b>4</b>	32KB	8KB	8KB

Operation voltage, CAN Support

<b>A</b>	5V	Yes
<b>B</b>	3V	Yes
<b>D</b>	5V	No
<b>E</b>	3V	No

Production Identification code

Terminal specification

v,3 Tray (LFQFP,LQFP)

Package, pin count and pin pitch

<b>FB</b>	LFQFP	144	0.50 mm
<b>FA</b>	LFQFP	120	0.50 mm
<b>FP</b>	LFQFP	100	0.50 mm
<b>FM</b>	LFQFP	64	0.50 mm
<b>FL</b>	LFQFP	48	0.50 mm
<b>FH</b>	LQFP	112	0.65 mm

Temperature

<b>D</b>	-40°C to 85°C
<b>G</b>	-40°C to 105°C

Example :  
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.

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# RX65N Group



## R5 F 5 65N 9 A D FB #3 1

Renesas MCU ROM Type F: Flash RX600 Series

**Product Group**

64M	RX65N
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**ROM/RAM/Data flash Size**

E	2MB	640KB	32KB
C	1.5MB	640KB	32KB
9	1MB	256KB	-
7	768KB	256KB	-
4	512KB	256KB	-

**Encryption, SDHI/SDSI, Dual Bank Support**

A	No	No	No
B	No	Yes	No
D	Yes	No	No
E	Yes	No	Yes
F	Yes	Yes	No
H	Yes	Yes	Yes

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

**Production Identification code**

**Terminal specification**

u,2	Tray (TFLGA,LFBGA)
v,3	Tray (LFQFP)

**Package, pin count and pin pitch**

FC	LFQFP	176	0.50 mm
BG	LFBGA	176	0.80 mm
LC	TFLGA	177	0.50 mm
FB	LFQFP	144	0.50 mm
LK	TFLGA	145	0.50 mm
FP	LFQFP	100	0.50 mm
LJ	TFLGA	100	0.65 mm

**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.

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# RX651 Group



## R5 F 5 651 9 A D FB #3 1

Renesas MCU ROM Type F: Flash RX600 Series

Product Group

64M	RX651
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ROM/RAM/Data flash Size

E	2MB	640KB	32KB
C	1.5MB	640KB	32KB
9	1MB	256KB	-
7	768KB	256KB	-
4	512KB	256KB	-

Encryption, SDHI/SDSI, Dual Bank Support

A	No	No	No
B	No	Yes	No
D	Yes	No	No
E	Yes	No	Yes
F	Yes	Yes	No
H	Yes	Yes	Yes

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

Production Identification code

Terminal specification

u,2	Tray (TFLGA,LFBGA)
v,3	Tray (LFQFP)

Package, pin count and pin pitch

FC	LFQFP	176	0.50 mm
BG	LFBGA	176	0.80 mm
LC	TFLGA	177	0.50 mm
FB	LFQFP	144	0.50 mm
LK	TFLGA	145	0.50 mm
FP	LFQFP	100	0.50 mm
LJ	TFLGA	100	0.65 mm

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.

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# RX64M Group



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

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

**Product Group**

<b>64M</b>	RX64M
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**ROM/RAM/Data flash Size**

<b>L</b>	4MB	512KB	64KB
<b>J</b>	3MB	512KB	64KB
<b>G</b>	2.5MB	512KB	64KB
<b>F</b>	2KB	512KB	64KB

**Encryption, SDHI Support**

<b>D</b>	No	Yes
<b>H</b>	Yes	Yes
<b>C</b>	No	No
<b>G</b>	Yes	No

**Production Identification code**

**Terminal specification**

<b>u,2</b>	Tray (TFLGA,LFBGA)
<b>v,3</b>	Tray (LFQFP)

**Package, pin count and pin pitch**

<b>FC</b>	LFQFP	176	0.50 mm
<b>FB</b>	LFQFP	144	0.50 mm
<b>FP</b>	LFQFP	100	0.50 mm
<b>LC</b>	TFLGA	177	0.50 mm
<b>LK</b>	TFLGA	145	0.50 mm
<b>LJ</b>	TFLGA	100	0.65 mm
<b>BG</b>	LFBGA	176	0.80 mm

**Temperature**

<b>D</b>	-40°C to 85°C
<b>G</b>	-40°C to 105°C

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

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

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# RX71M Group



## R5 F 5 71M L C D FC #V 0

Renesas MCU ROM Type F: Flash RX700 Series

Product Group

71M	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

Production Identification code

Terminal specification

u,2	Tray (TFLGA,LFBGA)
v,3	Tray (LFQFP)

Package, pin count and pin pitch

FC	LFQFP	176	0.50 mm
FB	LFQFP	144	0.50 mm
FP	LFQFP	100	0.50 mm
LC	TFLGA	177	0.50 mm
LK	TFLGA	145	0.50 mm
LJ	TFLGA	100	0.65 mm
BG	LFBGA	176	0.80 mm

Temperature

D	-40°C to 85°C
G	-40°C to 105°C

Example :  
RX71M (176-pin), Part number R5F571MLCDFC#V0

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

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# RX66T Group



## R5 F 5 66T E A D F B #3 1

Renesas MCU ROM Type F: Flash RX600 Series

Product Group

64M	RX66T
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ROM/RAM/Data flash Size

K	1MB	128KB	32KB
F	512KB	128KB	32KB
E	512KB	64KB	32KB
A	256KB	64KB	32KB

PGA, TSIP-Lite, USB

A	Yes	No	No
B	No	No	No
C	Yes	No	Yes
E	Yes	Yes	No
F	No	Yes	No
G	Yes	Yes	Yes

Example shown here:  
RX66T (144-pin), Part number R5F56rTEADFB#31

Production Identification code

Terminal specification

3	Tray (LFQFP)
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Package, pin count and pin pitch

FB	LFQFP	144	0.50 mm
FH	LQFP	112	0.65 mm
FP	LFQFP	100	0.50 mm
FF	LQFP	80	0.65 mm
FN	LFQFP	80	0.50 mm
FM	LFQFP	64	0.50 mm

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.

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# RX610 Group



**R5 F 5 610 8 V N FP #V 0**

Renesas MCU ROM Type F: Flash RX600 Series

Product Group

610	RX610
-----	-------

ROM/RAM/Data flash Size

8	2MB	128KB	32KB
7	1.5MB	128KB	32KB
6	1MB	128KB	32KB
4	768KB	128KB	32KB

Pin Count

V	144
W	176

Production Identification code

Terminal specification

u,2	Tray (LFBGA)
v,3	Tray (LFQFP)

Package, pin count and pin pitch

FP	LFQFP	144	0.50 mm
BG	LFBGA	176	0.80 mm

Temperature

N	-20°C to 85°C
D	-40°C to 85°C

**Red fonts: rules only applied for RX610, different from RX Family common info**

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

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

2018/12/13 rev 7.0

# Revision History

Revision	Target Group	Before Page	After Page	Description
November 2012 rev3.0a	-	-	-	The 3 <sup>rd</sup> edition
January 2016 rev4.0	-	P1-P10	All	Added #2 and #3 to terminal specifications
	RX210/RX21A/RX62T/RX62G/RX630/RX63N/RX631/RX63T	P1,P5~P10	P7~P8,P15~P17,P19~P21	Added G products to temperature
	RX210/RX21A	P1	P7,P8	Separated RX210 and RX21A
	RX210	P1	P7	<ul style="list-style-type: none"> <li>Added ROM/RAM/DATA FLASH(A,B)</li> <li>Added package, pin count and pin pitch(FB,FL,LK,LA,LH,BM)</li> </ul>
	RX21A	P1	P8	<ul style="list-style-type: none"> <li>Deleted ROM/RAM/DATA FLASH(3,4,5)</li> <li>Deleted package, pin count and pin pitch(FF,FK)</li> </ul>
	RX220	P2	P9	<ul style="list-style-type: none"> <li>Added package, pin count and pin pitch(FK)</li> <li>Deleted #U terminal specification</li> </ul>
	RX62N/RX621	P4	P13,P14	Separated RX62N and RX621
	RX62N	P4	P13	<ul style="list-style-type: none"> <li>Deleted ROM/RAM/DATA FLASH (6)</li> <li>Deleted package, pin count and pin pitch (LD)</li> </ul>
	RX62T	P5	P15	<ul style="list-style-type: none"> <li>Deleted #U terminal specification</li> </ul>
	RX63N/RX631	P8	P19,P20	Separated RX63N and RX631
	RX63N	P8	P19	<ul style="list-style-type: none"> <li>Added ROM/RAM/DATA FLASH(F,K,Y,W)</li> <li>Deleted ROM/RAM/DATA FLASH(P,N,M,8,7,6,0)</li> <li>Changed "CAN Bus Function" into "CAN,DEU,PDC Support" and added items (H)</li> </ul>
	RX631	P8	P20	<ul style="list-style-type: none"> <li>Added ROM/RAM/DATA FLASH(F,K,J,G,Y,W)</li> <li>Changed "CAN Bus Function" into "CAN,DEU,PDC Support" and added items(H,S,F)</li> <li>Added package, pin count and pin pitch(FL,FM,LH)</li> </ul>
	RX63T	P9,P10	P21	Integrated RX63T,RX63T-H into RX63T
	-	-	P1,P25	Added cover and revision history
	-	-	P2	Added information on common rule for RX family product codes(RX Family Common Info)
-	-	P3~P5 P10~P12 P18,P22 P23	Added RX100 series(RX110,RX111,RX113,RX130) Added RX200 series(RX230,RX231,RX23T) Added RX600 series(RX634,RX64M) Added RX700 series(RX71M)	

# Revision History

Revision	Target Group	Before Page	After Page	Description
February 2017 rev5.0	RX24T,RX65N,RX651	2	2	Added RX24T,RX65N,RX651
	RX24T	-	13	Added a page for RX24T
	RX65N,RX651	-	23,24	Added pages for RX65N,RX651
Jun 2018 rev6.0	RX130,RX24T,RX24U,RX65N,RX651	6,13,23,24	6,13,14,24,25	RX24U : Added a pages for RX24U RX130,RX24T,RX651,RX65N : Fixed by extension of product line
Dec 2018 rev7.0	RX66T	-	26	RX66T:Added a pages for RX66T