

# RX family common info



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

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

Production Identification code

Terminal specification

u,2	Tray (HWQFN,WFLGA,TFLGA,LFBGA,WFBGA,etc)
v,3	Tray (LFQFP,LQFP,HVQFN,etc)
5	Tape and reel

72M	RX72M
72N	RX72N
71M	RX71M
66N	RX66N
65N	RX65N
651	RX651
64M	RX64M
63N	RX63N
631	RX631
62N	RX62N
621	RX621
634	RX634
630	RX630
610	RX610
72T	RX72T
66T	RX66T
63T	RX63T
62T	RX62T

Product Group

62G	RX62G
24T	RX24T
24U	RX24U
23T	RX23T
23W	RX23W
231	RX231
230	RX230
23E	RX23E-A
220	RX220
210	RX210
21A	RX21A
13T	RX13T
130	RX130
113	RX113
111	RX111
110	RX110

ROM/RAM/Data flash Size\*1

Chip Original Info\*1

Temperature

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

Package, pin count and pin pitch

BD	LFBGA	224	0.8 mm	FP	LFQFP	100	0.5 mm
BG	LFBGA	176	0.8 mm	LA	TFLGA	100	0.5 mm
BL	TFBGA	85	0.65 mm	LC	TFLGA	177	0.5 mm
BP	TFBGA	64	0.5 mm	LD	TFLGA	85	0.65 mm
FA	LFQFP	120	0.5 mm	LE	TFLGA	145	0.65 mm
FB	LFQFP	144	0.5 mm	LF	WFLGA	64	0.5 mm
FC	LFQFP	176	0.5 mm	LH	TFLGA	64	0.65 mm
FD	LQFP	52	0.65 mm	LJ	TFLGA	100	0.65 mm
FF	LQFP	80	0.65 mm	LK	TFLGA	145	0.5 mm
FH	LQFP	112	0.65 mm	LM	WFLGA	36	0.5 mm
FJ	LFQFP	32	0.8 mm	ND	HWQFN	64	0.5 mm
FK	LQFP	64	0.8 mm	NE	HWQFN	48	0.5 mm
FL	LFQFP	48	0.5 mm	NF	HWQFN	40	0.5 mm
FM	LFQFP	64	0.5 mm	NG	HVQFN	56	0.4 mm
FN	LFQFP	80	0.5 mm				

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

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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	Tray (HWQFN,WFLGA)
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 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.

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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**

<b>111</b>	RX111
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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	16KB	8KB
<b>4</b>	96KB	16KB	8KB
<b>3</b>	64KB	10KB	8KB
<b>1</b>	32KB	10KB	8KB
<b>J</b>	16KB	8KB	8KB

**Production Identification code**

**Terminal specification**

<b>u</b>	Tray (HWQFN,WFLGA)
<b>3</b>	Tray (LFQFP,LQFP)

**Package, pin count and pin pitch**

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

**Temperature**

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

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.

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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

2	Tray (TFLGA)
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 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.

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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	Tray (HWQFN)
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 shown here:  
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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# RX13T Group



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

Renesas MCU ROM Type F: Flash RX100 Series

Product Group

13T	RX13T
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ROM/RAM/ Data flash Size

5	128KB	12KB	4KB
3	64KB	12KB	4KB

Production Identification code

Terminal specification

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

Package, pin count and pin pitch

FJ	LQFP	32	0.80 mm
FL	LFBGA	48	0.50 mm

Temperature

D	-40°C to 85°C
G	-40°C to 105°C

Example shown here:  
RX13T (48-pin), Part number R5F513T5ADFL#V0

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

2020/10/5 rev10.0

# RX210 Group



## R5 F 5 210 8 A D FP #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)
<b>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 shown here:

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	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 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.

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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 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.

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# RX23W Group



## R5 F 5 23W 8 A D B L #3 0

Renesas MCU ROM Type F: Flash RX200 Series

Product Group

23W	RX23W
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ROM/RAM/Data flash Size

8	512KB	64KB	8KB
7	384KB	64KB	8KB

Encryption Support

A	No
B	Yes

Production Identification code

Terminal specification

2	Tray (TFBGA)
3	Tray (HVQFN)

Package, pin count and pin pitch

BG	TFBGA	85	0.50 mm
NG	HVQFN	56	0.40 mm

Temperature

D	-40°C to 85°C
G	-40°C to 105°C

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.

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# RX23E-A Group



## R5 F 5 23E 6 A D FL #3 0

Renesas MCU ROM Type F: Flash RX200 Series

Product Group

23E	RX23E-A
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ROM/RAM/Data flash Size

6	256KB	32KB	8KB
5	128KB	16KB	8KB

Sensor

A	Temperature
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Production Identification code

Terminal specification

u	Tray (HWQFN)
3	Tray (LFQFP)

Package, pin count and pin pitch

FL	LFQFP	48	0.50 mm
NF	HWQFN	40	0.50 mm

Temperature

D	-40°C to 85°C
G	-40°C to 105°C

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.

2020/10/5 rev10.0

# RX231 Group



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

Renesas MCU ROM Type F: Flash RX200 Series

Product Group

231	RX231
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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

Encryption / SDHI / CAN Support

A	No	No	Yes
B	Yes	Yes	Yes
C	No	No	No

Production Identification code

Terminal specification

u,2	Tray (HWQFN,WFLGA,TFLGA)
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 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.

2020/10/5 rev10.0

# 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)
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 shown here:  
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.

2020/10/5 rev10.0

# RX23T Group



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

Renesas MCU ROM Type F: Flash RX200 Series

Product Group  
**23T** RX23T

ROM/RAM Size

<b>5</b>	128KB	12KB
<b>3</b>	64KB	12KB

Operation voltage  
**A** 5V

Production Identification code

Terminal specification

**3** Tray (LFQFP,LQFP)

Package, pin count and pin pitch

<b>FM</b>	LFQFP	64	0.50 mm
<b>FL</b>	LFQFP	48	0.50 mm
<b>FD</b>	LQFP	52	0.65 mm

Temperature

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

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.

2020/10/5 rev10.0

# 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

3	Tray (LFQFP,LQFP)
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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
FK	LQFP	64	0.8 mm

Temperature

D	-40°C to 85°C
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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.

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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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**Terminal specification**  

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 B G #U 0

Renesas MCU ROM Type F: Flash RX600 Series

Product Group

62N	RX62N
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ROM/RAM/Data flash Size

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

CAN Support

A	No
B	Yes

Production Identification code

Terminal specification

u,2	Tray (TFLGA,LFBGA)
v	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
BG	LFBGA	176	0.80 mm

Temperature

D	-40°C to 85°C
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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.

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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	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 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.

2020/10/5 rev10.0

# RX62T Group

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

**Renasas 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** 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 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.

2020/10/5 rev10.0

# 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	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 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.

2020/10/5 rev10.0

# 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</b>	Tray (TFLGA, LFBGA)
<b>v</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 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.

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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

3	Tray (LFQFP)
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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 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.

2020/10/5 rev10.0

# RX63N Group



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

Renesas MCU ROM Type F: Flash RX600 Series

Product Group

63N	RX63N
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ROM/RAM/Data flash Size

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

CAN, DEU Support

H	Yes	Yes
D	Yes	No
C	No	No

Production Identification code

Terminal specification

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

Package, pin count and pin pitch

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

Temperature

D	-40°C to 85°C
G	-40°C to 105°C

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.

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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
-----	-------

ROM/RAM/Data flash Size

	ROM	RAM	Data flash		ROM	RAM	Data flash
F	2MB	256KB	32KB	6	256KB	128KB	32KB
K	2MB	192KB	32KB	P	512KB	64KB	32KB
E	2MB	128KB	32KB	N	384KB	64KB	32KB
J	1.5MB	256KB	32KB	M	256KB	64KB	32KB
G	1.5MB	192KB	32KB	0	0KB	128KB	0KB
D	1.5MB	128KB	32KB				
Y	1MB	256KB	32KB				
W	1MB	192KB	32KB				
B	1MB	128KB	32KB				
A	786KB	128KB	32KB				
8	512KB	128KB	32KB				
7	384KB	128KB	32KB				

CAN, DEU, PDC Support

	Yes	Yes	No
H	Yes	Yes	No
D	Yes	No	No
C	No	No	No
S	Yes	No	Yes
F*	Yes	No	No

\*64pin TFLGA only

Production Identification code

Terminal specification

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

Package, pin count and pin pitch

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

Temperature

D	-40°C to 85°C
G	-40°C to 105°C

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.

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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

E	512KB	48KB	32KB	6	64KB	8KB	8KB
C	384KB	32KB	32KB	5	48KB	8KB	8KB
B	256KB	24KB	32KB	4	32KB	8KB	8KB

Operation voltage, CAN Support

A	5V	Yes
B	3V	Yes
D	5V	No
E	3V	No

Production Identification code

Terminal specification

v	Tray (LFQFP,LQFP)
---	-------------------

Package, pin count and pin pitch

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

Temperature

D	-40°C to 85°C
G	-40°C to 105°C

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.

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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
-----	-------

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

2	Tray (TFLGA,LFBGA)
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
-----	-------

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

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

Package, pin count and pin pitch

FC	LFQFP	176	0.50 mm	FM	LFQFP	64	0.50 mm
BG	LFBGA	176	0.80 mm	BP	TFBGA	64	0.50 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>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 shown here:

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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# RX66N Group



## R5 F 5 66N N D D BD #V 0

Renesas MCU ROM Type F: Flash RX600 Series

Product Group

66N	RX66N
-----	-------

ROM/RAM/Data flash Size

N	4MB	1MB	32KB
D	2MB	1MB	32KB

Encryption

D	No
H	Yes

Production Identification code

Terminal specification

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

Package, pin count and pin pitch

BD	LFBGA	224	0.80 mm
BG	LFBGA	176	0.80 mm
FB	LFQFP	144	0.50 mm
FC	LFQFP	176	0.50 mm
FP	LFQFP	100	0.50 mm
LK	TFLGA	145	0.50 mm

Temperature

D	-40°C to 85°C
G	-40°C to 105°C

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.

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# RX66T Group



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

Renesas MCU ROM Type F: Flash RX600 Series

Product Group

66T	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 R5F566TEADFB#31

Production Identification code

Terminal specification

3 Tray (LFQFP,LQFP)

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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# RX71M Group



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

**Renesas MCU**  
**ROM Type F: Flash**  
**RX700 Series**

**Product Group**

<b>71M</b>	RX71M
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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>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 shown here:

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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# RX72M Group



## R5 F 5 72M N D D FC #3 1

Renesas MCU ROM Type F: Flash RX700 Series

Product Group

<b>72M</b>	RX72M
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ROM/RAM/Data flash Size

<b>N</b>	4MB	1MB	32KB
<b>D</b>	2MB	1MB	32KB

PGA, TSIP, USB

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

Production Identification code

Terminal specification

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

Package, pin count and pin pitch

<b>BD</b>	LFBGA	224	0.85 mm
<b>BG</b>	LFBGA	176	0.80 mm
<b>FC</b>	LFQFP	176	0.50 mm

Temperature

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

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.

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# RX72N Group



## R5 F 5 72N N D D BD #V 0

Renesas MCU ROM Type F: Flash RX700 Series

Product Group

72N	RX72N
-----	-------

ROM/RAM/Data flash Size

N	4MB	1MB	32KB
D	2MB	1MB	32KB

Encryption

D	No
H	Yes

Production Identification code

Terminal specification

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

Package, pin count and pin pitch

BD	LFBGA	224	0.80 mm
BG	LFBGA	176	0.80 mm
FB	LFQFP	144	0.50 mm
FC	LFQFP	176	0.50 mm
FP	LFQFP	100	0.50 mm
LK	TFLGA	145	0.50 mm

Temperature

D	-40°C to 85°C
G	-40°C to 105°C

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.

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# RX72T Group



## R5 F 5 72T E A D FB #3 1

Renesas MCU ROM Type F: Flash RX700 Series

Product Group

72T	RX72T
-----	-------

ROM/RAM/Data flash Size

K	1MB	128KB	32KB
F	512KB	128KB	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:  
RX72T (144-pin), Part number R5F572TEADFB#31

Production Identification code

Terminal specification

3	Tray (LFQFP,LQFP)
---	-------------------

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
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
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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	Tray (LFBGA)
v	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 letters: RX610 is different from RX common rules.**

Example shown here:

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.

2020/10/5 rev10.0