RENESAS RZ FAMILY

PRODUCT PART NUMBER GUIDE

MARCH 2026 (REV 2.5)

EMBEDDED PROCESSING MARKETING DIVISION
RENESAS ELECTRONICS CORPORATION

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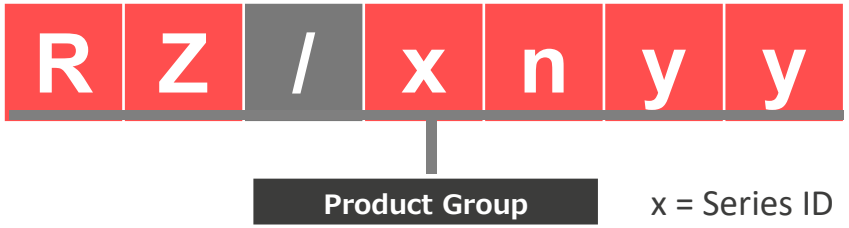
NOMENCLATURE OVERVIEW

- **Family Name:** RZ - Renesas Zenith
  - 32-bit & 64-bit high-performance MPUs

- **Series Name:** (RZ + “/” + 1 digit)
  - RZ/V : Vision-AI MPU
  - RZ/N : industrial Network MPU
  - RZ/T : real-Time control MPU
  - RZ/G : Graphics MPU for HMI*
  - RZ/A : general Application MPU

- **Group Name:** (RZ + “/” + 3 or 4 digits)
  - Examples:
    - RZ/G2L Group
    - RZ/A3UL Group



x = Series ID
n = Variation
yy = Group identifier

Series	Group identifier	Meaning
RZ/V	H	High-end
	M	Mid-range-1
	MA	Mid for Accelerator app
	N	Mid-Range-2 (Narrow)
	L	Low-end
RZ/N	D	Dual main core
	S	Single main core
	L	Low-end
RZ/T	M	Mid-range
	L	Low-end
RZ/G	H	High-end
	M	Mid-Range-1
	N	Mid-Range-2 (Narrow)
	E	Mid-Range-3 (Entry)
	L	Low-end
	LC	Low-end Compact
	UL	Ultra Low-end
	Five*	RISC-V (*exception)
	S	IoT Line (Secure, w/o GPU)
RZ/A	H	High-end
	M	Mid-range
	LU	Low upper
	L	Low-end
	LC	Low-end Compact
	UL	Ultra Low-end

*RZ/G is originally for graphics application but now expands to IoT Edge application w/o graphics.

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RZ/V SERIES

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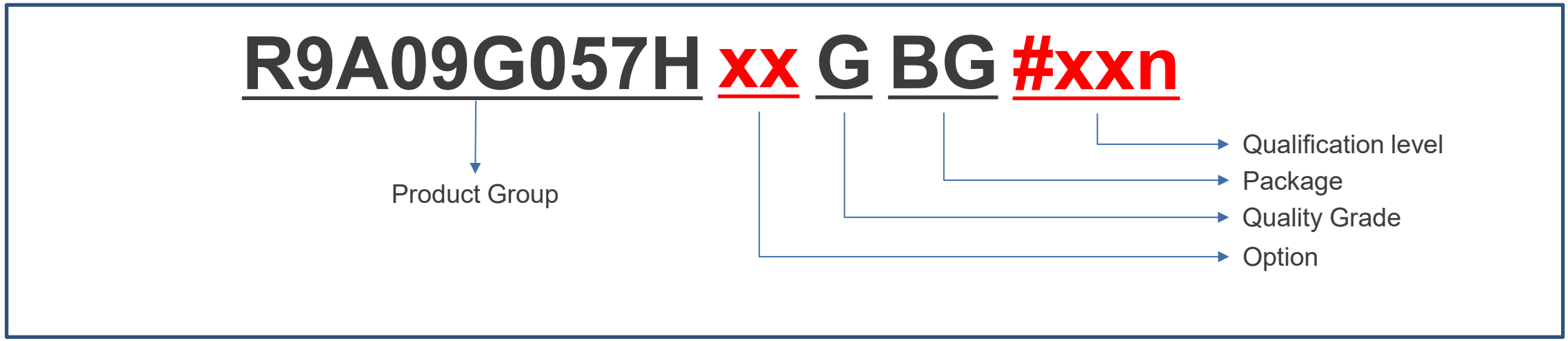
RZ/V2H GROUP



Product Group	
R9A09G057H	RZ/V2H Group

Option			
Quad Core + Realtime CPU		(RFU)	
48	ISP and GPU, Secure		
47	(RFU)		
46	GPU only, Secure		
45	no ISP/GPU, Secure		
44	ISP and GPU, non-secure		
43	(RFU)		
42	GPU only, non-secure		
41	no ISP/GPU, non-secure		

Quality Grade	
G	Standard

Package	
BG	BGA

Qualification level	
#ACn	Bulk (Tray)
#BCn	Full Carton (Tray)

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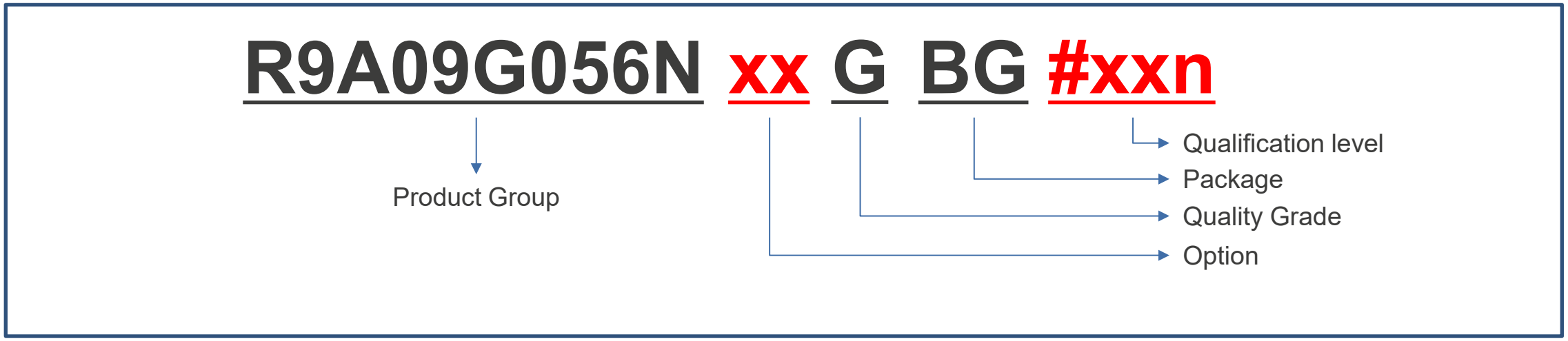
RZ/V2N GROUP



Product Group	
R9A09G056N	RZ/V2N Group

Option			
Quad Core + Realtime CPU		(RFU)	
48	Secure, ISP, GPU		
47	Secure, ISP		
46	Secure, GPU		
45	Secure		
44	non-Secure, ISP, GPU		
43	non-Secure, ISP		
42	non-Secure, GPU		
41	no ISP/GPU, non-secure		

Quality Grade	
G	Standard

Package	
BG	BGA

Qualification level	
#ACn	Bulk (Tray)
#BCn	Full Carton (Tray)

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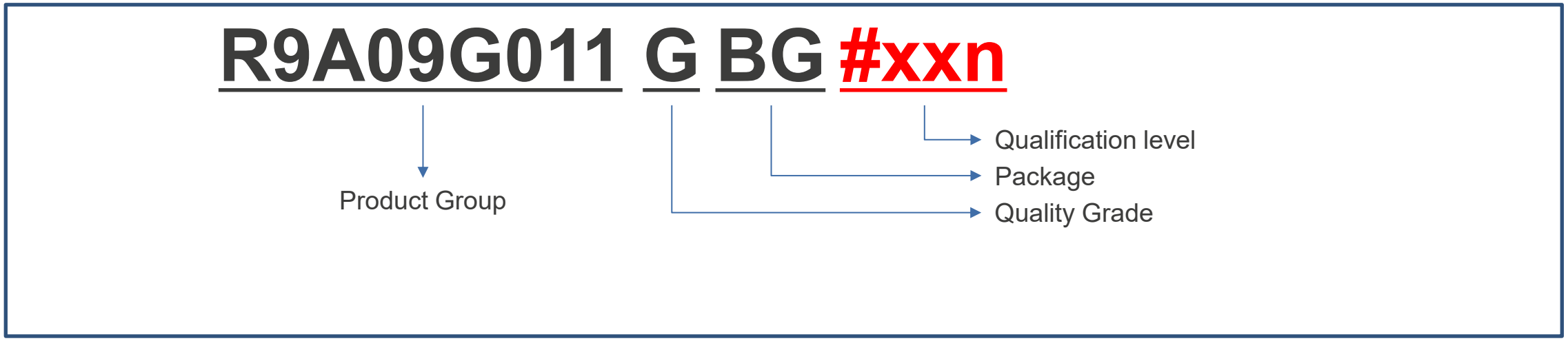
RZ/V2M GROUP



Product Group	
R9A09G011	RZ/V2M Group

Quality Grade	
G	Standard

Package	
BG	BGA

Qualification level	
#ACn	Bulk (Tray)
#BCn	Full Carton (Tray)

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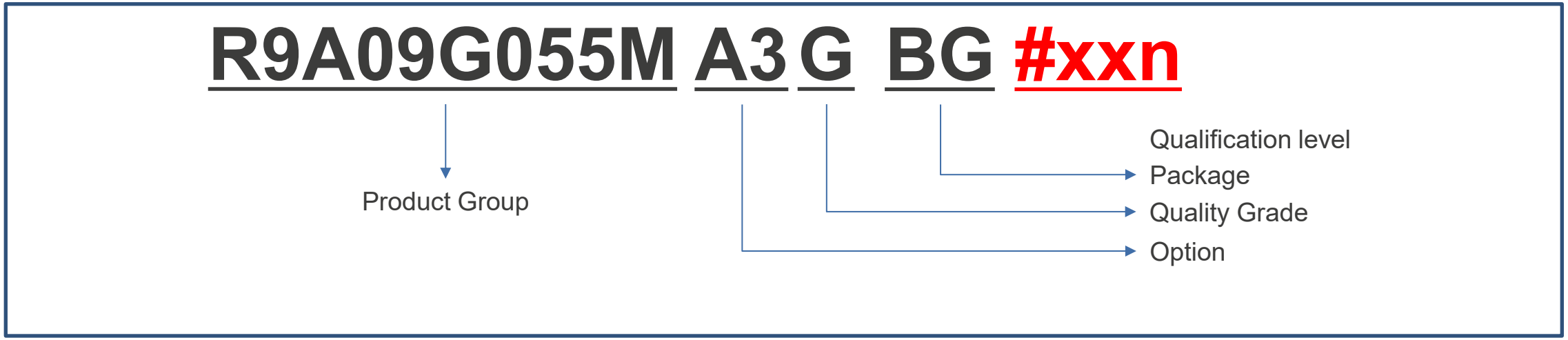
RZ/V2MA GROUP



Product Group	
R9A09G055M	RZ/V2MA Group

Option			
Dual Core			
A3	full-spec, non-secure		

Quality Grade	
G	Standard

Package	
BG	BGA

Qualification level	
#ACn	Bulk (Tray)
#BCn	Full Carton (Tray)

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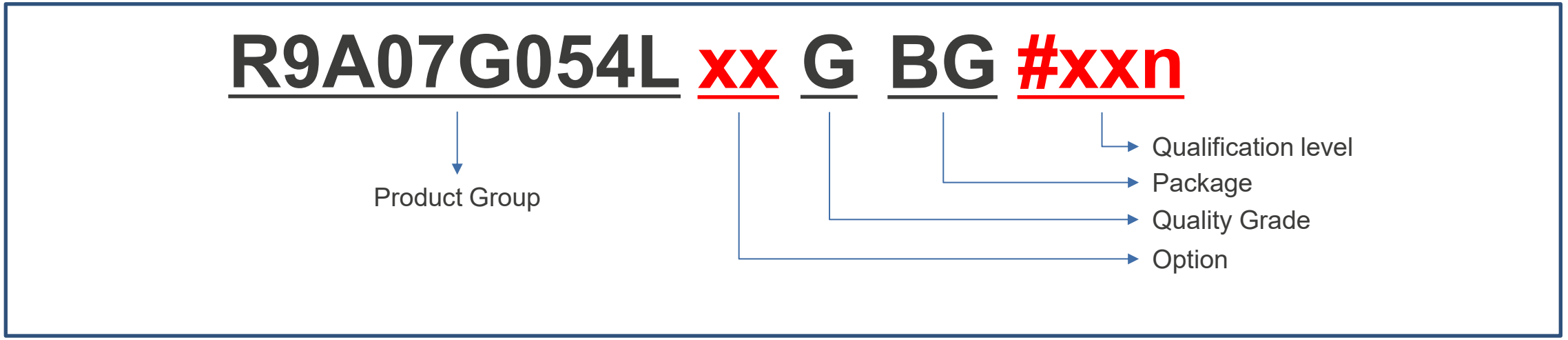
RZ/V2L GROUP



Product Group	
R9A07G054L	RZ/V2L Group

Option			
Dual Core + sub-CPU		Single Core + sub-CPU	
28	Full-pin pkg, Secure	18	Full-pin pkg, Secure
27	Reduced-pin, Secure	17	Reduced-pin, Secure
26	(RFU)	16	(RFU)
25	(RFU)	15	(RFU)
24	Full-pin pkg, non-Secure	14	Full-pin pkg, non-Secure
23	Reduced-pin, non-Secure	13	Reduced-pin, non-Secure
22	(RFU)	12	(RFU)
21	(RFU)	11	(RFU)

Quality Grade	
G	Standard

Package	
BG	BGA

Qualification level	
#ACn	Bulk (Tray)
#BCn	Full Carton (Tray)

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RZ/N SERIES

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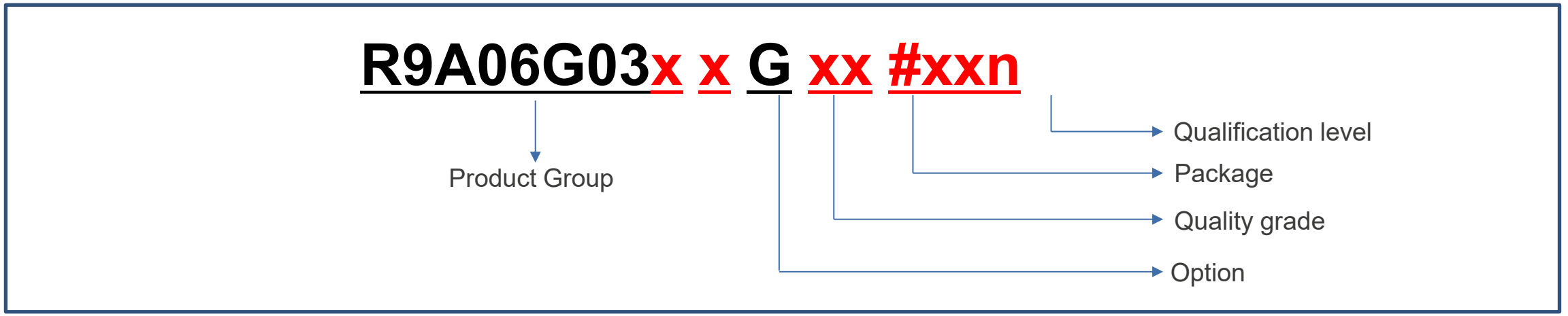
RZ/N1 GROUP

R9A06G03x x G xx #xxn



Product Group	
R9A06G032	RZ/N1D Group
R9A06G033	RZ/N1S Group
R9A06G034	RZ/N1L Group

Option	
P	Secure, HRP/PRP
E	Secure
N	non-Secure, HPR/PRP
V	non-Secure

Quality Grade	
G	Standard

Qualification level	
#ACn	Bulk (Tray)
#BCn	Full Carton (Tray)

Package			
	RZ/N1D	RZ/N1S	RZ/N1L
BG	400 LFBGA	324 LFBGA	196 LFBGA
BA	324 LFBGA	196 LFBGA	196 LFBGA
BB	400 LFBGA	324 LFBGA	(RFU)
BC	324 LFBGA	196 LFBGA	(RFU)

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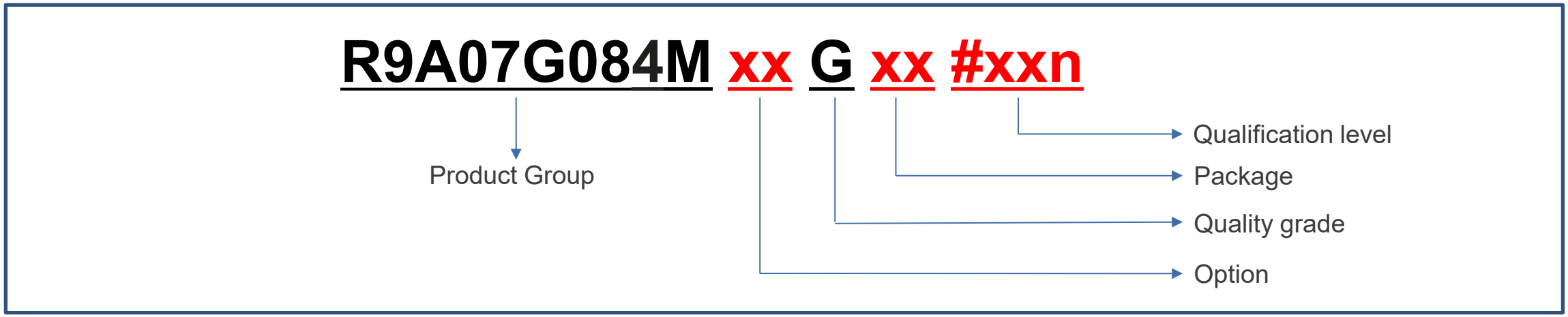
RZ/N2L GROUP



Product Group	
R9A07G084M	RZ/N2L Group

Option	
09	(RFU)
08	Secure
07	(RFU)
06	(RFU)
05	(RFU)
04	non-Secure
03	(RFU)
02	(RFU)
01	(RFU)
00	(RFU)

Quality Grade	
G	Standard

Package	
BG	225 BGA
BA	121 BGA

Qualification level	
#ACn	Bulk (Tray)
#BCn	Full Carton (Tray)

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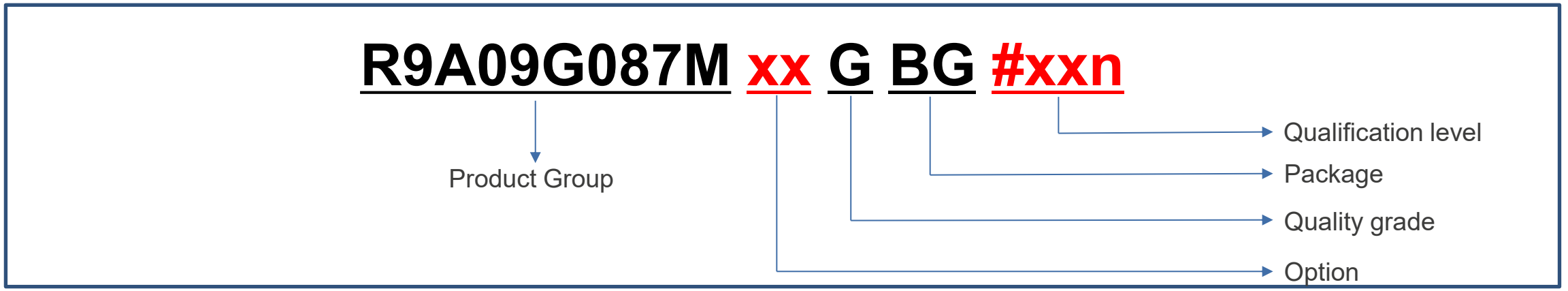
RZ/N2H GROUP



Product Group	
R9A09G087M	RZ/N2H Group

Option					
Cortex-A55 quad cores		Cortex-A55 dual cores		Cortex-A55 single core	
49	(RFU)	29	(RFU)	09	(RFU)
48	Secure	28	Secure	08	Secure
47	(RFU)	27	(RFU)	07	(RFU)
46	(RFU)	26	(RFU)	06	(RFU)
45	(RFU)	25	(RFU)	05	(RFU)
44	non-Secure	24	non-Secure	04	non-Secure
43	(RFU)	23	(RFU)	03	(RFU)
42	(RFU)	22	(RFU)	02	(RFU)
41	(RFU)	21	(RFU)	01	(RFU)
40	(RFU)	20	(RFU)	00	(RFU)

Quality Grade	
G	Standard

Package	
BG	576 FCBGA

Qualification level	
#ACn	Bulk (Tray)
#BCn	Full Carton (Tray)

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RZ/T SERIES

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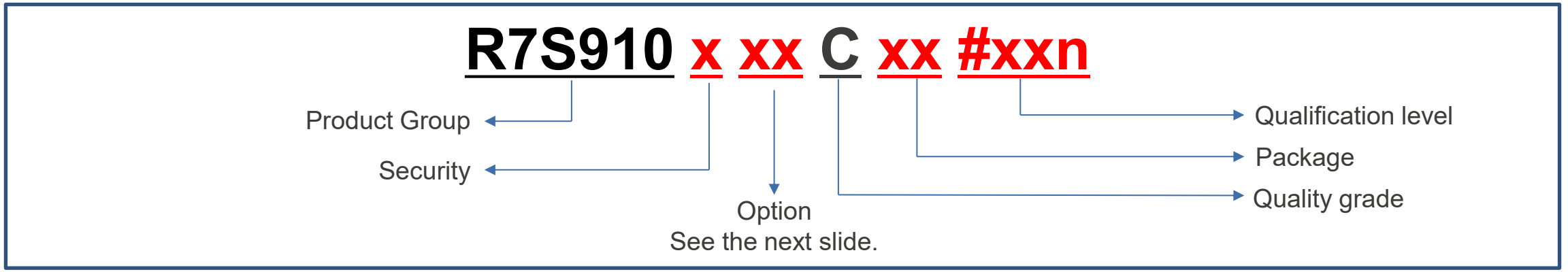
RZ/T1 GROUP

Security

0	Non-secure
1	Secure



Product Group	
R7S910	RZ/T1 Group

Security	
0	Non-secure
1	Secure

Quality Grade	
C	Standard

Qualification level	
#AAn	Bulk (Tray), Sn (Tin) only
#ACn	Bulk (Tray), SnCu and others
#BCn	Full Carton (Tray), SnCu and others

Package	
FP	176 HLFQFP (0.4 mm pitch)
BG	320 FBGA (0.8 mm pitch)
BA	320 LFBGA (0.8 mm pitch)
BC	320 LFBGA (0.8 mm pitch)

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RZ/T1 GROUP (CONT'D)
OPTION CODE

CPU		TCM	Extended SRAM							
w/R-IN Engine	600 MHz + R-IN engine (150MHz)	512KB +32KB	- (1MB for R-IN)						17	18
	450 MHz + R-IN engine (150MHz)	512KB +32KB	- (1MB for R-IN)						15	16
Single core	600 MHz	512KB +32KB	1MB		07	13	27	28		
	450 MHz	512KB +32KB	1MB		06		25	26		
			0KB	01	02	11				
	300 MHz	512KB +32KB	0KB				35	36		
Package				176 QFP	320 BGA	320 BGA	320 BGA	320 BGA	320 BGA	320 BGA
Encoder Interface				-		Yes	-	Yes	-	Yes
Industrial Ethernet				- (Standard Ethernet)			EtherCAT		Multi protocol	

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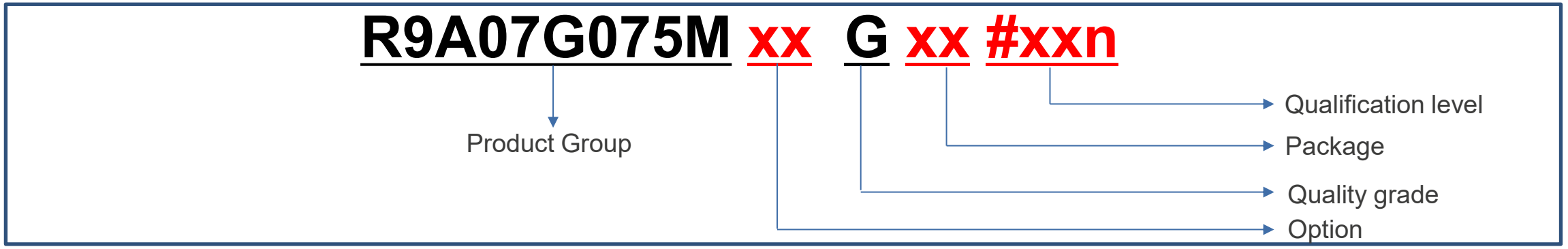
RZ/T2M, T2ME GROUP



Product Group	
R9A07G075M	RZ/T2M, RZ/T2ME Group *

Option			
Dual core		Single core	
29	CAN-FD, Secure, OTFD	09	(RFU)
28	CAN-FD, Secure	08	CAN-FD, Secure
27	CAN-FD, non-Ether, Secure	07	(RFU)
26	Classical CAN, Secure	06	Classical CAN, Secure
25	(RFU)	05	Classical CAN, non-Ether, Secure
24	CAN-FD, non-Secure	04	CAN-FD, non-Secure
23	(RFU)	03	(RFU)
22	Classical CAN, non-Secure	02	Classical CAN, non-secure
21	Classical CAN, non-Ether, non-Secure	01	Classical CAN, non-Ether, non-Secure
20	(RFU)	00	(RFU)

Quality Grade	
G	Standard

Package	
BG	320 BGA
BA	225 BGA
FP	176 QFP
FA	128 QFP

Qualification level	
#AAn, #ACn	Bulk (Tray)
#BAn, #BCn	Full Carton (Tray)

*: If the option (RZ/T2M, RZ/T2ME group) is 29, the group name will be RZ/T2ME.
Otherwise, it will be RZ/T2M.

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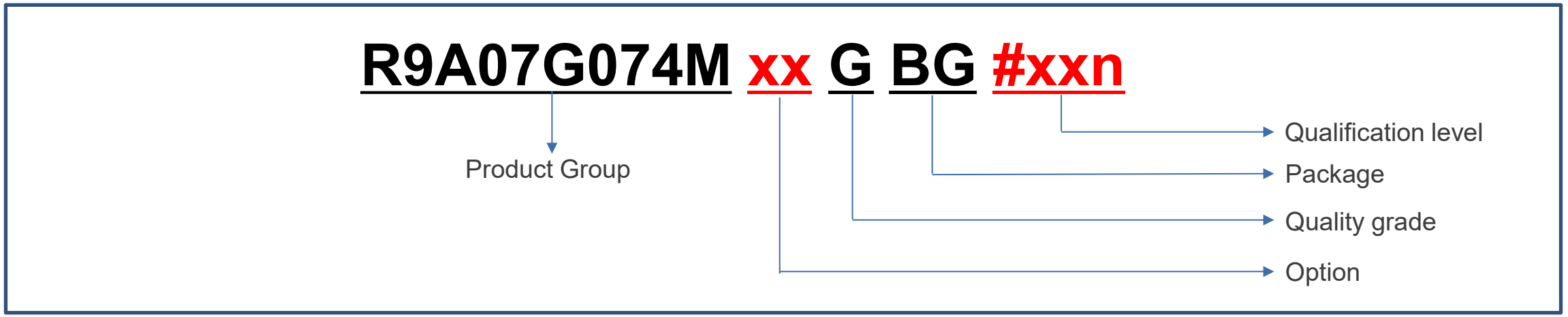
RZ/T2L GROUP



Product Group	
R9A07G074M	RZ/T2L Group

Option	
09	(RFU)
08	CAN-FD, EtherCAT, Secure
07	(RFU)
06	(RFU)
05	Classical CAN, non-EtherCAT, Secure
04	CAN-FD, EtherCAT, non-Secure
03	(RFU)
02	(RFU)
01	Classical CAN, non-EtherCAT, non-Secure
00	(RFU)

Quality Grade	
G	Standard

Package	
BG	196 BGA

Qualification level	
#ACn	Bulk (Tray)
#BCn	Full Carton (Tray)

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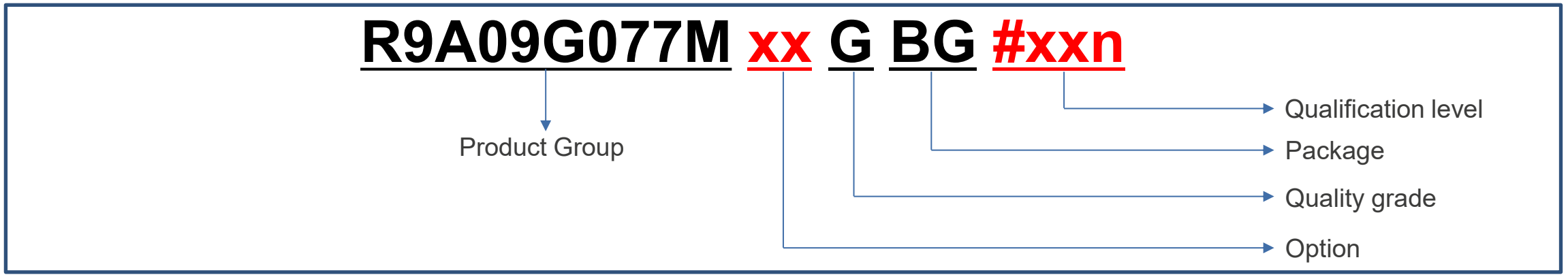
RZ/T2H GROUP



Product Group	
R9A09G077M	RZ/T2H Group

Option					
Cortex-A55 quad cores		Cortex-A55 dual cores		Cortex-A55 single core	
49	(RFU)	29	(RFU)	09	(RFU)
48	Secure	28	Secure	08	Secure
47	(RFU)	27	(RFU)	07	(RFU)
46	(RFU)	26	(RFU)	06	(RFU)
45	(RFU)	25	(RFU)	05	(RFU)
44	non-Secure	24	non-Secure	04	non-Secure
43	(RFU)	23	(RFU)	03	(RFU)
42	(RFU)	22	(RFU)	02	(RFU)
41	(RFU)	21	(RFU)	01	(RFU)
40	(RFU)	20	(RFU)	00	(RFU)

Quality Grade	
G	Standard

Package	
BG	729 FCBGA

Qualification level	
#ACn	Bulk (Tray)
#BCn	Full Carton (Tray)

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RZ/G SERIES

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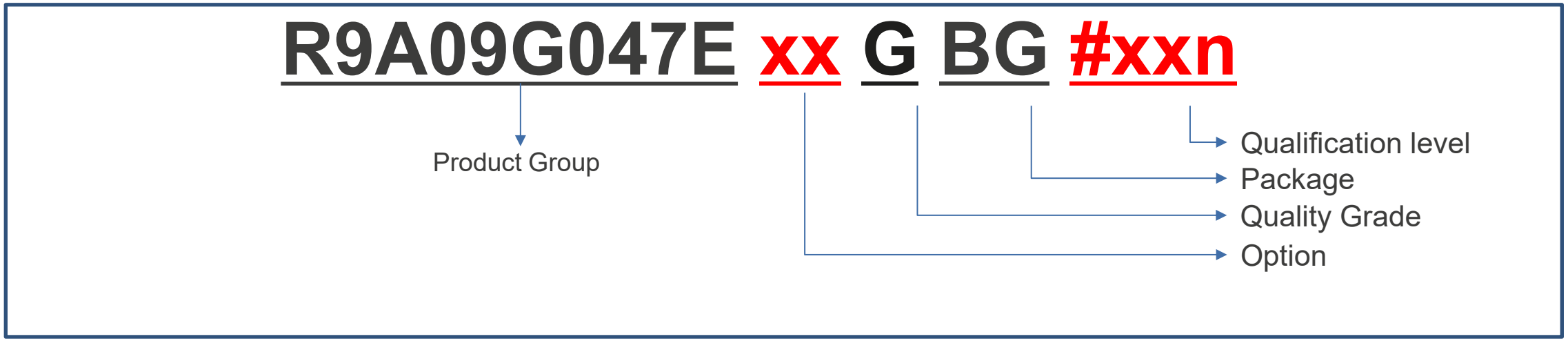
RZ/G3E GROUP



Product Group	
R9A09G047E	RZ/G3E Group

Option			
Quad Core +subCPU		Dual Core +subCPU	
57	15x15mm package, NPU, Secure	37	15x15mm package, NPU, Secure
47	15x15mm package, Secure	27	15x15mm package, Secure
58	21x21mm package, NPU, Secure	38	21x21mm package, NPU, Secure
48	21x21mm package, Secure	28	21x21mm package, Secure

Quality Grade	
G	Standard

Package	
BG	FCBGA

Qualification level	
#ACn	Bulk (Tray)
#BCn	Full Carton (Tray)

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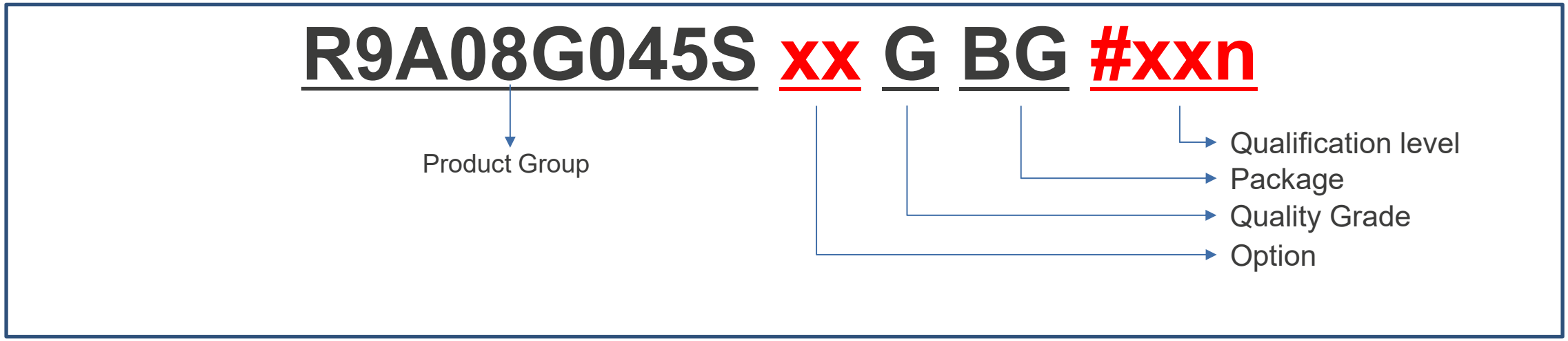
RZ/G3S GROUP



Product Group	
R9A08G045S	RZ/G3S Group

Option			
37	Secure, PCIe,2x Cortex-M33,14mmBGA	17	Secure,PCIe,1x Cortex-M33,14mmBGA
36	(RFU)	16	(RFU)
35	Secure,2x Cortex-M33,13mmBGA	15	Secure,1x Cortex-M33,13mmBGA
34	(RFU)	14	(RFU)
33	Non-Secure,PCIe,2x Cortex-M33,14mmBGA	13	Non-Secure,PCIe,1x Cortex-M33,14mmBGA
32	(RFU)	12	(RFU)
31	Non-Secure,2x Cortex-M33,13mmBGA	11	Non-Secure,1x Cortex-M33,13mmBGA
30	(RFU)	10	(RFU)

Quality Grade	
G	Standard

Package	
BG	LFBGA

Qualification level	
#ACn	Bulk (Tray)
#BCn	Full Carton (Tray)

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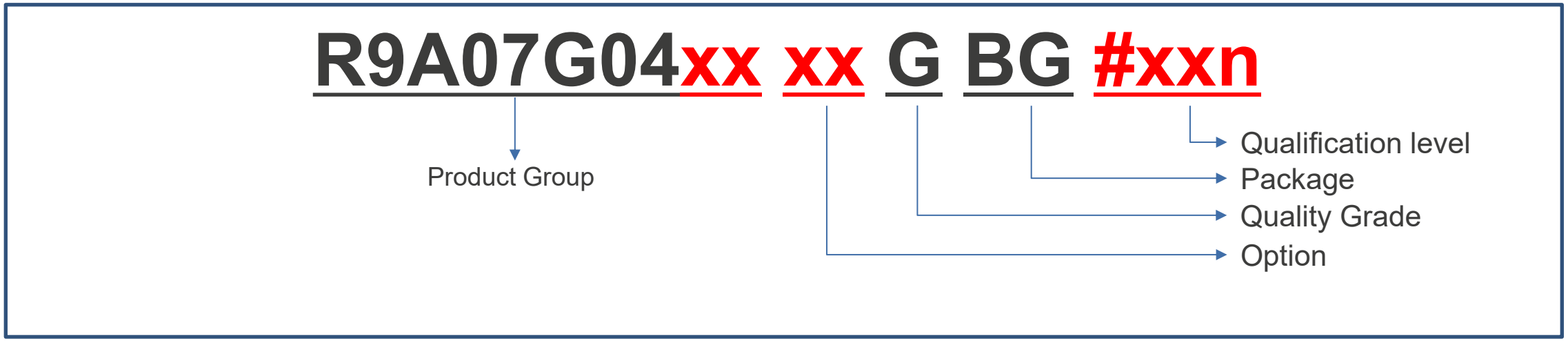
RZ/G2L GROUP



Product Group	
R9A07G044L	RZ/G2L Group
R9A07G044C	RZ/G2LC Group
R9A07G043U	RZ/G2UL Group
R9A07G043F	RZ/Five Group

Option					
Dual Core +subCPU		Single Core +subCPU		Single Core	
28	Full-pin pkg, Secure	18	(RFU)	08	(RFU)
27	Reduced-pin, Secure	17	(RFU)	07	(RFU)
26	Small pkg, Secure	16	(RFU)	06	(RFU)
25	(RFU)	15	Smaller pkg, Secure	05	Smaller pkg, Secure
24	Full-pin pkg, non-Secure	14	(RFU)	04	(RFU)
23	Reduced-pin, non-Secure	13	(RFU)	03	(RFU)
22	Small pkg, non-Secure	12	(RFU)	02	(RFU)
21	(RFU)	11	Smaller pkg, non-Secure	01	Smaller pkg, non-Secure

Quality Grade	
G	Standard

Package	
BG	LFBGA

Qualification level	
#ACn	Bulk (Tray)
#BCn	Full Carton (Tray)

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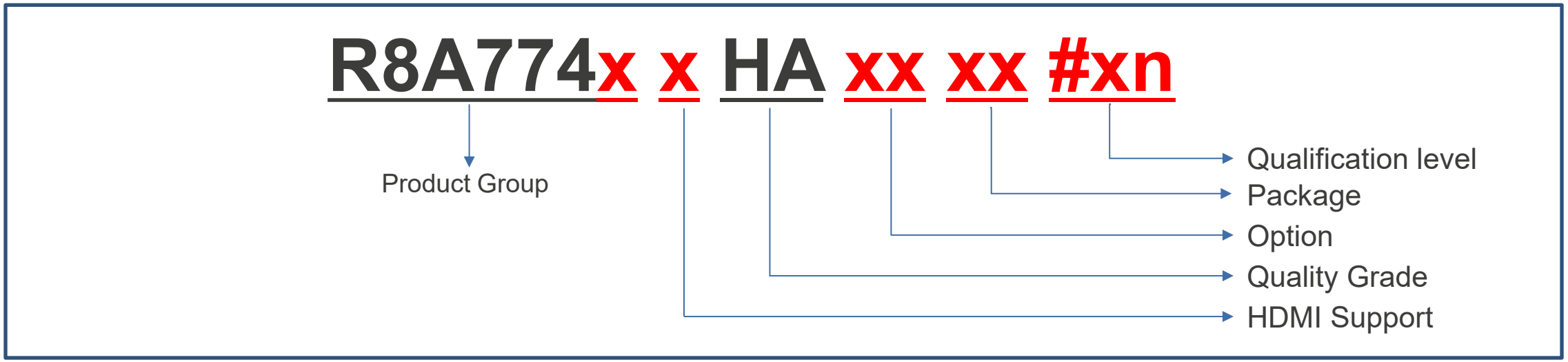
RZ/G2 GROUP



Product Group	
R8A774E	RZ/G2H Group
R8A774A	RZ/G2M Group
R8A774B	RZ/G2N Group
R8A774C	RZ/G2E Group

HDMI Support	
0	HDMI OFF
1	HDMI ON
2	HDMI OFF
3	HDMI ON

Quality Grade	
HA	Standard

Option	
01	Standard
02	Option1

Package	
BG	FCBGA
BN	FCBGA w/ LID

Qualification level	
#Un	Bulk (Tray)
#Gn	Full Carton (Tray)

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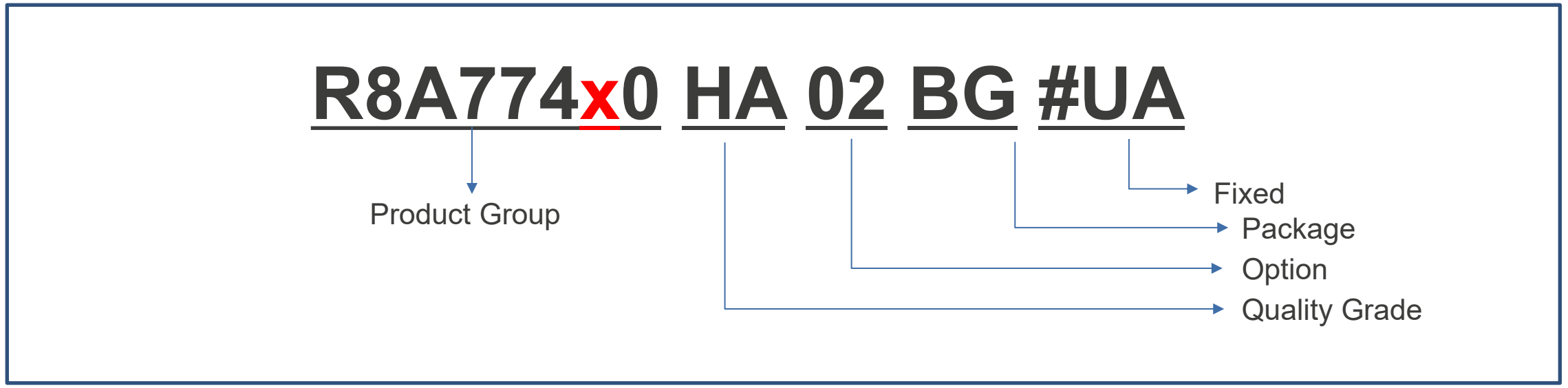
RZ/G1 GROUP



Product Group	
R8A77420	RZ/G1H Group
R8A77430	RZ/G1M Group
R8A77440	RZ/G1N Group
R8A77450	RZ/G1E Group
R8A77470	RZ/G1C Group

Quality Grade	
HA	Standard

Option	
02	Platform Support

Package	
BG	FCBGA

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RZ/A SERIES

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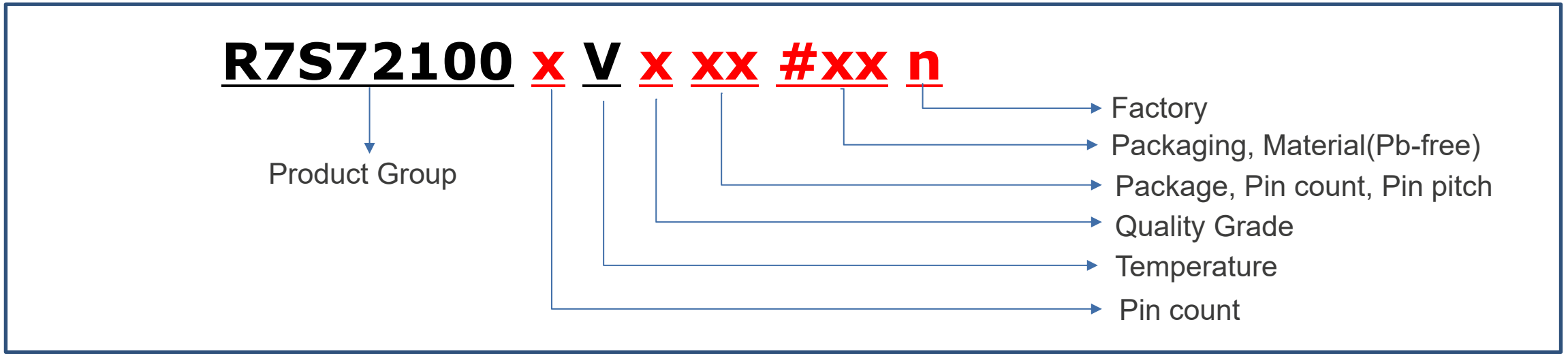
RZ/A1H GROUP



Product Group	
R7S72100	RZ/A1H (10MB) Group

Pin count	
0	256 pin
1	324 pin

Temperature	
V	-40℃ to 85℃

Quality Grade	
L	High quality
C	Standard

Package, Pin count, Pin pitch	
FP	LFQFP, 256 pin, 0.4 mm
BG	FBGA, 324 pin, 0.8 mm
BG	LFBGA, 256 pin. 0.5 mm

Packaging, Material(Pb-free)	
AA	Bulk (Tray), Sn (Tin) only
AC	Bulk (Tray), SnCu and others
BA	Full Carton (Tray), Sn (Tin) only
BC	Full Carton (Tray), SnCu and others

Factory	
0	RENESAS Naka Factory
1	TSMC

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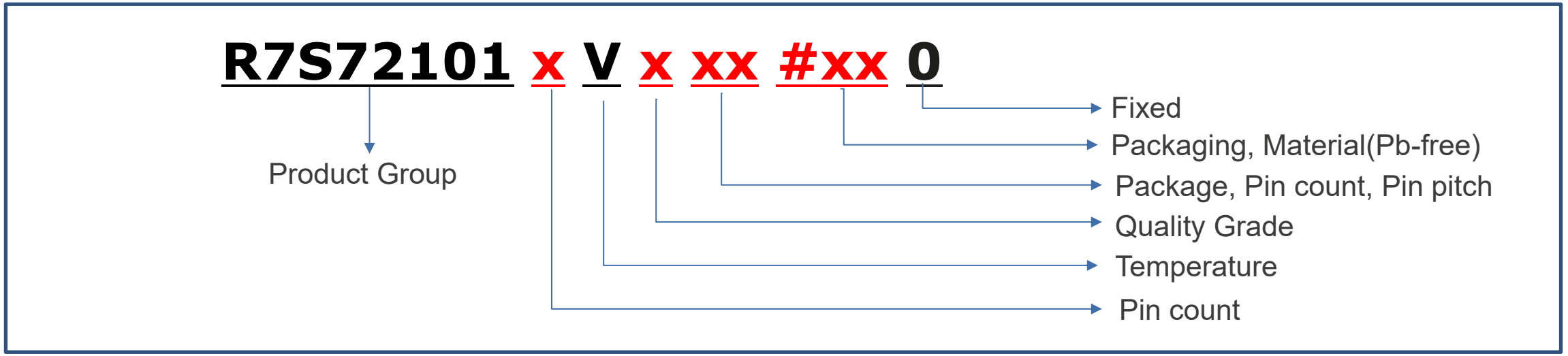
RZ/A1M GROUP



Product Group	
R7S72101	RZ/A1M (5MB) Group

Pin count	
0	256 pin
1	324 pin

Temperature	
V	-40℃ to 85℃

Quality Grade	
L	High quality
C	Standard

Package, Pin count, Pin pitch	
FP	LFQFP, 256 pin, 0.4 mm
BG	FBGA, 324 pin, 0.8 mm
BG	LFBGA, 256 pin. 0.5 mm

Packaging, Material(Pb-free)	
AA	Bulk (Tray), Sn (Tin) only
AC	Bulk (Tray), SnCu and others

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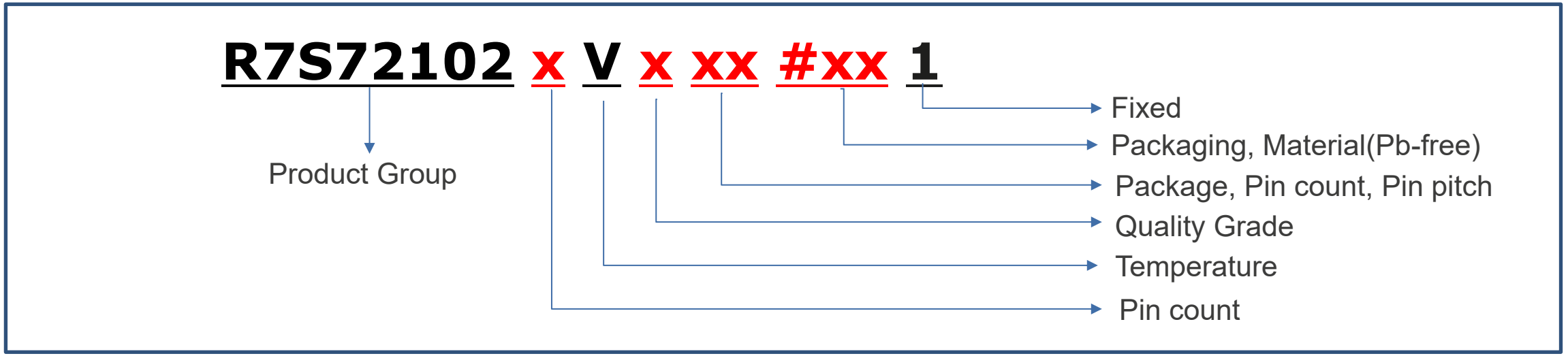
RZ/A1L GROUP



Product Group	
R7S72102	RZ/A1L (3MB) Group

Pin count	
0	176 pin
1	208 pin

Temperature	
V	-40℃ to 85℃

Quality Grade	
L	High quality
C	Standard

Package, Pin count, Pin pitch	
FP	LFQFP, 176 pin, 0.5 mm
FP	LFQFP, 208 pin, 0.5 mm
BG	LFBGA, 176 pin. 0.5 mm

Packaging, Material(Pb-free)	
AA	Bulk (Tray), Sn (Tin) only
AC	Bulk (Tray), SnCu and others
BA	Full Carton (Tray), Sn (Tin) only
BC	Full Carton (Tray), SnCu and others

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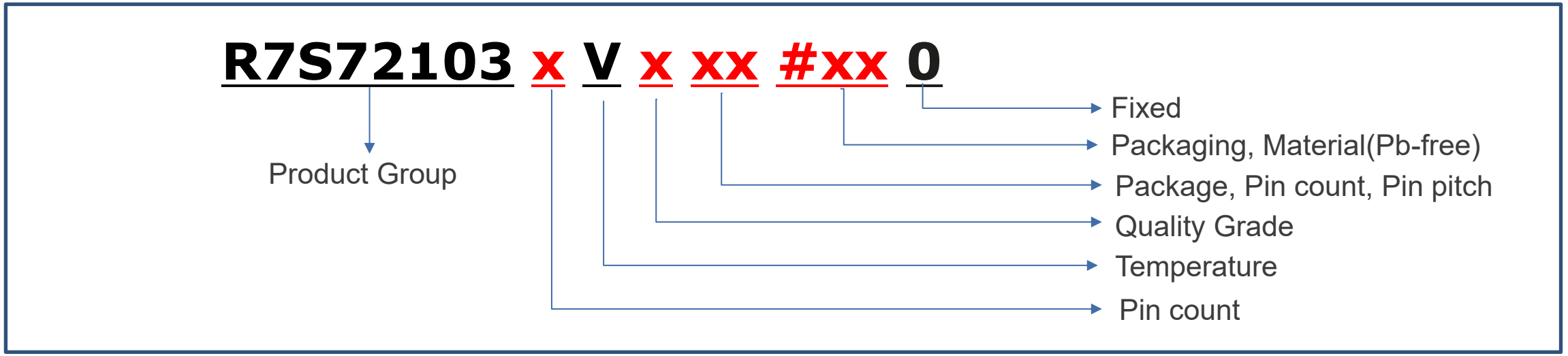
RZ/A1LU GROUP, RZ/A1LC GROUP



Product Group	
R7S72103	RZ/A1LU (3MB) Group, RZ/A1LC (2MB) Group

Temperature	
V	-40℃ to 85℃

Quality Grade	
L	High quality
C	Standard

Package, Pin count, Pin pitch	
FP	LFQFP, 176 pin, 0.5 mm
FP	LFQFP, 208 pin, 0.5 mm
BG	LFBGA, 176 pin. 0.5 mm
BG	FBGA, 233 pin, 0.8 mm

Packaging, Material(Pb-free)	
AA	Bulk (Tray), Sn (Tin) only
AC	Bulk (Tray), SnCu and others

Pin count	
0	RZ/A1LU (3MB), 176 pin
1	RZ/A1LU (3MB), 208 pin (QFP) / 233 pin (BGA)
4	RZ/A1LC (2MB), 176 pin

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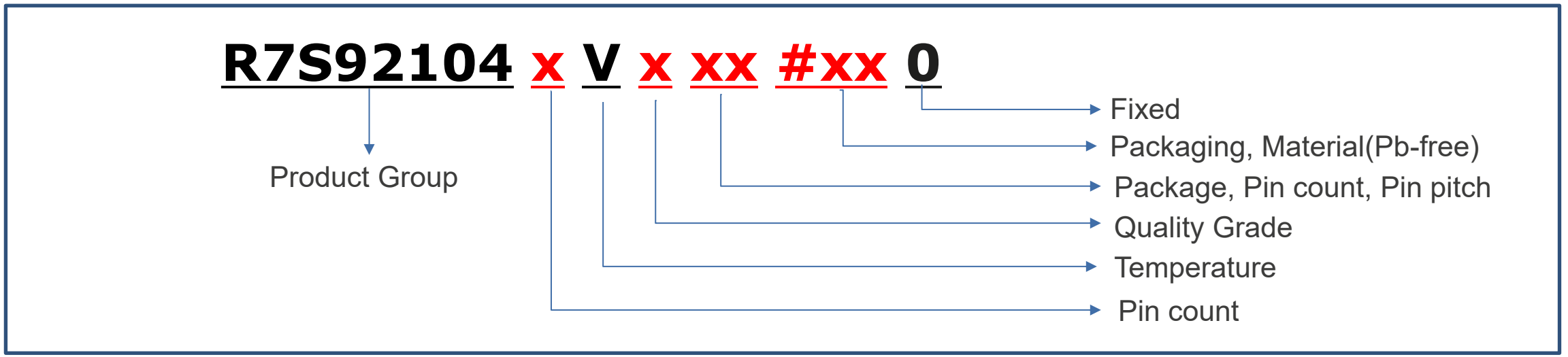
RZ/A2M GROUP



Product Group	
R7S92104	RZ/A2M (4MB) w/o DRP
R7S92105	RZ/A2M (4MB) w/ DRP

w/o DRP only

Pin count		
0	176 pin	General product (Non secure)
1	256 pin	
2	272 pin	
3	324 pin	
5	176 pin	Secure product
6	256 pin	
7	272 pin	
8	324 pin	

Temperature	
V	-40℃ to 85℃

Quality Grade	
L	High quality
C	Standard

Package, Pin count, Pin pitch	
FP	LFQFP, 176 pin, 0.5 mm
FP	LFQFP, 208 pin, 0.5 mm
BG	LFBGA, 176 pin. 0.5 mm
BG	FBGA, 233 pin, 0.8 mm

Packaging, Material(Pb-free)	
AA	Bulk (Tray), Sn (Tin) only
AC	Bulk (Tray), SnCu and others

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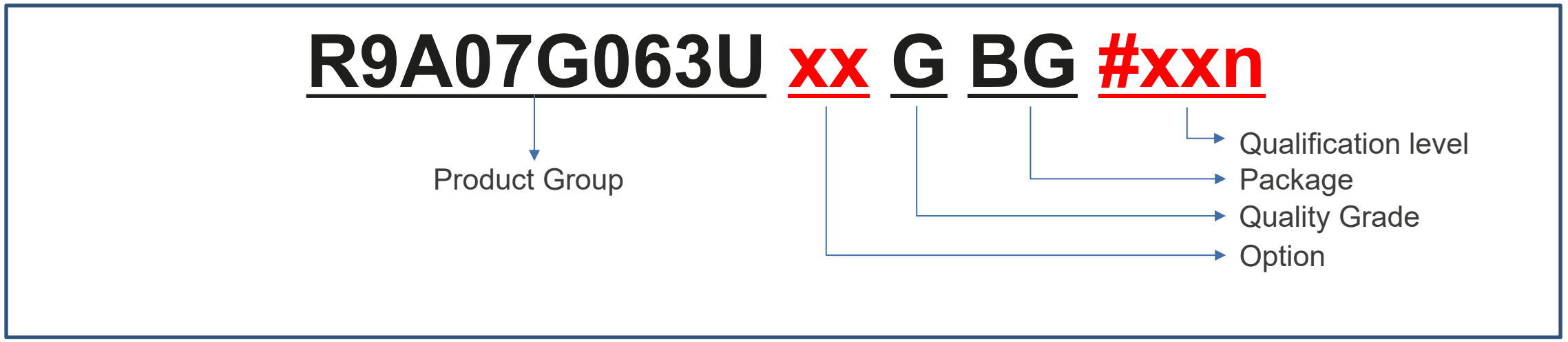
RZ/A3UL GROUP



Product Group	
R9A07G063U	RZ/A3UL Group

Option	
02	DDR I/F

Quality Grade	
HA	Standard

Package	
BG	BGA

Qualification level	
#ACn	MP (Tray)
#BCn	MP (full-carton)

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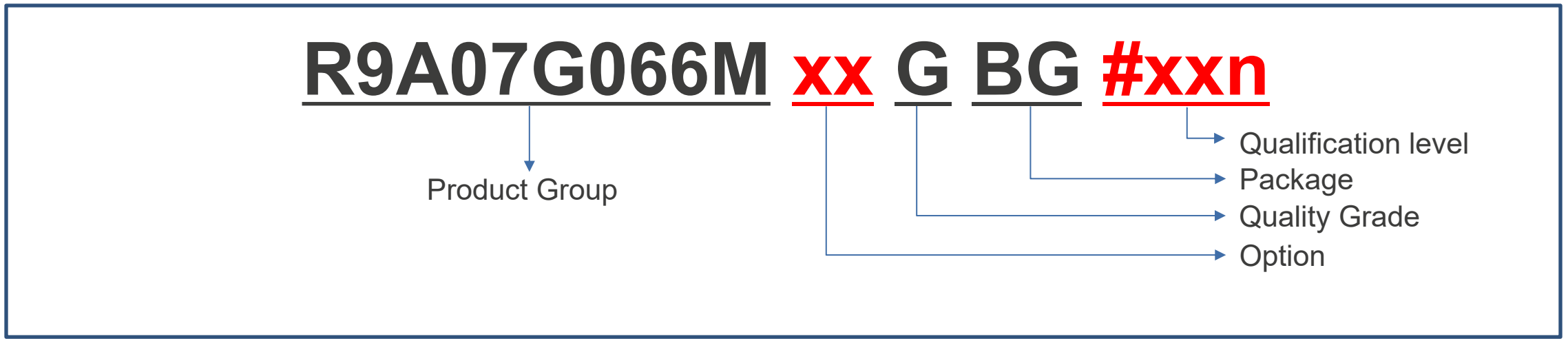
RZ/A3M GROUP



Product Group	
R9A07G066M	RZ/A3M Group

Option	
04	Built-in DDR 128MB

Quality Grade	
G	Standard

Package	
BG	BGA

Qualification level	
#ACn	MP (Tray)
#BCn	MP (full-carton)

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