

# RENESAS TECHNICAL UPDATE

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Renesas Electronics Corporation

Product Category	MPU/MCU		Document No.	TN-H8*-A433A/E	Rev.	1.00
Title	H8S Family / H8S/Tiny Series Notice of change of a list of products		Information Category	Technical Notification		
Applicable Product	H8S/20103R, H8S/20203R, H8S/20223R, H8S/20323R, H8S/20115R, H8S/20215R, H8S/20235R, H8S/20335R Groups	Lot No.  All lots	Reference Document	H8S/20103R, H8S/20203R, H8S/20223R, H8S/20323R, H8S/20115R, H8S/20215R, H8S/20235R, H8S/20335R Groups User's Manual: Hardware (R01UH0185EJ0300 Rev. 3.00)		

Thank you for your consistent patronage of Renesas semiconductor products.

We would like to inform you of the descriptions to be deleted from List of Products, and of an amendment of how to read the part number.

[Before amendment]

Table 1.2 List of Products

Group	Part No.	ROM Capacity	RAM Capacity	Package	Remarks	
H8S/20103R	R4F20103RNFA	128Kbytes	8Kbytes	PLQP0064KB-A (LQFP1010-64)	Version N	
	R4F20102RNFA	96Kbytes	8Kbytes			
	R4F20103RNFb	128Kbytes	8Kbytes	PLQP0064GA-A (LQFP1414-64)		
	R4F20102RNFb	96Kbytes	8Kbytes			
	R4F20103RDFA	128Kbytes	8Kbytes	PLQP0064KB-A (LQFP1010-64)	Version D	
	R4F20102RDFA	96Kbytes	8Kbytes			
	R4F20103RDfB	128Kbytes	8Kbytes	PLQP0064GA-A (LQFP1414-64)		
	R4F20102RDfB	96Kbytes	8Kbytes			
	R4F20103RNXXXFA	128Kbytes	8Kbytes	PLQP0064KB-A (LQFP1010-64)	Version N	Shipped after programming of the user ROM*
	R4F20102RNXXXFA	96Kbytes	8Kbytes			
	R4F20103RNXXXFB	128Kbytes	8Kbytes	PLQP0064GA-A (LQFP1414-64)		
	R4F20102RNXXXFB	96Kbytes	8Kbytes			
	R4F20103RDXXXFA	128Kbytes	8Kbytes	PLQP0064KB-A (LQFP1010-64)	Version D	
	R4F20102RDXXXFA	96Kbytes	8Kbytes			
	R4F20103RDXXXFB	128Kbytes	8Kbytes	PLQP0064GA-A (LQFP1414-64)		
	R4F20102RDXXXFB	96Kbytes	8Kbytes			
H8S/20203R	R4F20203RNFD	128Kbytes	8Kbytes	PLQP0080JA-A (LQFP1414-80)	Version N	
	R4F20202RNFD	96Kbytes	8Kbytes			
	R4F20203RDfD	128Kbytes	8Kbytes	PLQP0080JA-A (LQFP1414-80)	Version D	
	R4F20202RDfD	96Kbytes	8Kbytes			

Group	Part No.	ROM Capacity	RAM Capacity	Package	Remarks	
	<a href="#">R4F20203RNXXXFD</a>	<a href="#">128Kbytes</a>	<a href="#">8Kbytes</a>	<a href="#">PLQP0080JA-A</a>	<a href="#">Version N</a>	<a href="#">Shipped after programming of the user</a>
	<a href="#">R4F20202RNXXXFD</a>	<a href="#">96Kbytes</a>	<a href="#">8Kbytes</a>	<a href="#">(LQFP1414-80)</a>		
	<a href="#">R4F20203RDXXXFD</a>	<a href="#">128Kbytes</a>	<a href="#">8Kbytes</a>	<a href="#">PLQP0080JA-A</a>	<a href="#">Version D</a>	<a href="#">ROM*</a>
	<a href="#">R4F20202RDXXXFD</a>	<a href="#">96Kbytes</a>	<a href="#">8Kbytes</a>	<a href="#">(LQFP1414-80)</a>		
H8S/20223R	<a href="#">R4F20223RNFD</a>	<a href="#">128Kbytes</a>	<a href="#">8Kbytes</a>	<a href="#">PLQP0080JA-A</a>	<a href="#">Version N</a>	
	<a href="#">R4F20222RNFD</a>	<a href="#">96Kbytes</a>	<a href="#">8Kbytes</a>	<a href="#">(LQFP1414-80)</a>		
	<a href="#">R4F20223RDFFD</a>	<a href="#">128Kbytes</a>	<a href="#">8Kbytes</a>	<a href="#">PLQP0080JA-A</a>	<a href="#">Version D</a>	
	<a href="#">R4F20222RDFFD</a>	<a href="#">96Kbytes</a>	<a href="#">8Kbytes</a>	<a href="#">(LQFP1414-80)</a>		
	<a href="#">R4F20223RNXXXFD</a>	<a href="#">128Kbytes</a>	<a href="#">8Kbytes</a>	<a href="#">PLQP0080JA-A</a>	<a href="#">Version N</a>	<a href="#">Shipped after programming of the user</a>
	<a href="#">R4F20222RNXXXFD</a>	<a href="#">96Kbytes</a>	<a href="#">8Kbytes</a>	<a href="#">(LQFP1414-80)</a>		
	<a href="#">R4F20223RDXXXFD</a>	<a href="#">128Kbytes</a>	<a href="#">8Kbytes</a>	<a href="#">PLQP0080JA-A</a>	<a href="#">Version D</a>	<a href="#">ROM*</a>
	<a href="#">R4F20222RDXXXFD</a>	<a href="#">96Kbytes</a>	<a href="#">8Kbytes</a>	<a href="#">(LQFP1414-80)</a>		
H8S/20323R	<a href="#">R4F20323RNFE</a>	<a href="#">128Kbytes</a>	<a href="#">8Kbytes</a>	<a href="#">PLQP0100KB-A</a>	<a href="#">Version N</a>	
	<a href="#">R4F20322RNFE</a>	<a href="#">96Kbytes</a>	<a href="#">8Kbytes</a>	<a href="#">(LQFP1414-100)</a>		
	<a href="#">R4F20323RDFFE</a>	<a href="#">128Kbytes</a>	<a href="#">8Kbytes</a>	<a href="#">PLQP0100KB-A</a>	<a href="#">Version D</a>	
	<a href="#">R4F20322RDFFE</a>	<a href="#">96Kbytes</a>	<a href="#">8Kbytes</a>	<a href="#">(LQFP1414-100)</a>		
	<a href="#">R4F20323RNXXXFE</a>	<a href="#">128Kbytes</a>	<a href="#">8Kbytes</a>	<a href="#">PLQP0100KB-A</a>	<a href="#">Version N</a>	<a href="#">Shipped after programming of the user</a>
	<a href="#">R4F20322RNXXXFE</a>	<a href="#">96Kbytes</a>	<a href="#">8Kbytes</a>	<a href="#">(LQFP1414-100)</a>		
	<a href="#">R4F20323RDXXXFE</a>	<a href="#">128Kbytes</a>	<a href="#">8Kbytes</a>	<a href="#">PLQP0100KB-A</a>	<a href="#">Version D</a>	<a href="#">ROM*</a>
	<a href="#">R4F20322RDXXXFE</a>	<a href="#">96Kbytes</a>	<a href="#">8Kbytes</a>	<a href="#">(LQFP1414-100)</a>		
H8S/20115R	<a href="#">R4F20115RNFA</a>	<a href="#">256Kbytes</a>	<a href="#">12Kbytes</a>	<a href="#">PLQP0064KB-A</a>	<a href="#">Version N</a>	
	<a href="#">R4F20114RNFA</a>	<a href="#">192Kbytes</a>	<a href="#">12Kbytes</a>	<a href="#">(LQFP1010-64)</a>		
	<a href="#">R4F20115RNFB</a>	<a href="#">256Kbytes</a>	<a href="#">12Kbytes</a>	<a href="#">PLQP0064GA-A</a>		
	<a href="#">R4F20114RNFB</a>	<a href="#">192Kbytes</a>	<a href="#">12Kbytes</a>	<a href="#">(LQFP1414-64)</a>		
	<a href="#">R4F20115RDFA</a>	<a href="#">256Kbytes</a>	<a href="#">12Kbytes</a>	<a href="#">PLQP0064KB-A</a>	<a href="#">Version D</a>	
	<a href="#">R4F20114RDFA</a>	<a href="#">192Kbytes</a>	<a href="#">12Kbytes</a>	<a href="#">(LQFP1010-64)</a>		
	<a href="#">R4F20115RDFFB</a>	<a href="#">256Kbytes</a>	<a href="#">12Kbytes</a>	<a href="#">PLQP0064GA-A</a>		
	<a href="#">R4F20114RDFFB</a>	<a href="#">192Kbytes</a>	<a href="#">12Kbytes</a>	<a href="#">(LQFP1414-64)</a>		
	<a href="#">R4F20115RNXXXFA</a>	<a href="#">256Kbytes</a>	<a href="#">12Kbytes</a>	<a href="#">PLQP0064KB-A</a>	<a href="#">Version N</a>	<a href="#">Shipped after programming of the user</a>
	<a href="#">R4F20114RNXXXFA</a>	<a href="#">192Kbytes</a>	<a href="#">12Kbytes</a>	<a href="#">(LQFP1010-64)</a>		
	<a href="#">R4F20115RNXXXFB</a>	<a href="#">256Kbytes</a>	<a href="#">12Kbytes</a>	<a href="#">PLQP0064GA-A</a>		
	<a href="#">R4F20114RNXXXFB</a>	<a href="#">192Kbytes</a>	<a href="#">12Kbytes</a>	<a href="#">(LQFP1414-64)</a>		
	<a href="#">R4F20115RDXXXFA</a>	<a href="#">256Kbytes</a>	<a href="#">12Kbytes</a>	<a href="#">PLQP0064KB-A</a>	<a href="#">Version D</a>	
	<a href="#">R4F20114RDXXXFA</a>	<a href="#">192Kbytes</a>	<a href="#">12Kbytes</a>	<a href="#">(LQFP1010-64)</a>		
	<a href="#">R4F20115RDXXXFB</a>	<a href="#">256Kbytes</a>	<a href="#">12Kbytes</a>	<a href="#">PLQP0064GA-A</a>		
	<a href="#">R4F20114RDXXXFB</a>	<a href="#">192Kbytes</a>	<a href="#">12Kbytes</a>	<a href="#">(LQFP1414-64)</a>		

Group	Part No.	ROM Capacity	RAM Capacity	Package	Remarks	
H8S/20215R	R4F20215RNFD	256Kbytes	12Kbytes	PLQP0080JA-A (LQFP1414-80)	Version N	
	R4F20214RNFD	192Kbytes	12Kbytes			
	R4F20215RDFFD	256Kbytes	12Kbytes	PLQP0080JA-A (LQFP1414-80)	Version D	
	R4F20214RDFFD	192Kbytes	12Kbytes			
	R4F20215RNXXXFD	256Kbytes	12Kbytes	PLQP0080JA-A (LQFP1414-80)	Version N	Shipped after programming of the user ROM*
	R4F20214RNXXXFD	192Kbytes	12Kbytes			
	R4F20215RDXXXFD	256Kbytes	12Kbytes	PLQP0080JA-A (LQFP1414-80)	Version D	ROM*
	R4F20214RDXXXFD	192Kbytes	12Kbytes			
H8S/20235R	R4F20235RNFD	256Kbytes	12Kbytes	PLQP0080JA-A (LQFP1414-80)	Version N	
	R4F20234RNFD	192Kbytes	12Kbytes			
	R4F20235RDFFD	256Kbytes	12Kbytes	PLQP0080JA-A (LQFP1414-80)	Version D	
	R4F20234RDFFD	192Kbytes	12Kbytes			
	R4F20235RNXXXFD	256Kbytes	12Kbytes	PLQP0080JA-A (LQFP1414-80)	Version N	Shipped after programming of the user ROM*
	R4F20234RNXXXFD	192Kbytes	12Kbytes			
	R4F20235RDXXXFD	256Kbytes	12Kbytes	PLQP0080JA-A (LQFP1414-80)	Version D	ROM*
	R4F20234RDXXXFD	192Kbytes	12Kbytes			
H8S/20335R	R4F20335RNFE	256Kbytes	12Kbytes	PLQP0100KB-A (LQFP1414-100)	Version N	
	R4F20334RNFE	192Kbytes	12Kbytes			
	R4F20335RDFFE	256Kbytes	12Kbytes	PLQP0100KB-A (LQFP1414-100)	Version D	
	R4F20334RDFFE	192Kbytes	12Kbytes			
	R4F20335RNXXXFE	256Kbytes	12Kbytes	PLQP0100KB-A (LQFP1414-100)	Version N	Shipped after programming of the user ROM*
	R4F20334RNXXXFE	192Kbytes	12Kbytes			
	R4F20335RDXXXFE	256Kbytes	12Kbytes	PLQP0100KB-A (LQFP1414-100)	Version D	ROM*
	R4F20334RDXXXFE	192Kbytes	12Kbytes			

Note: \* These are shipped after programming of the user ROM number.

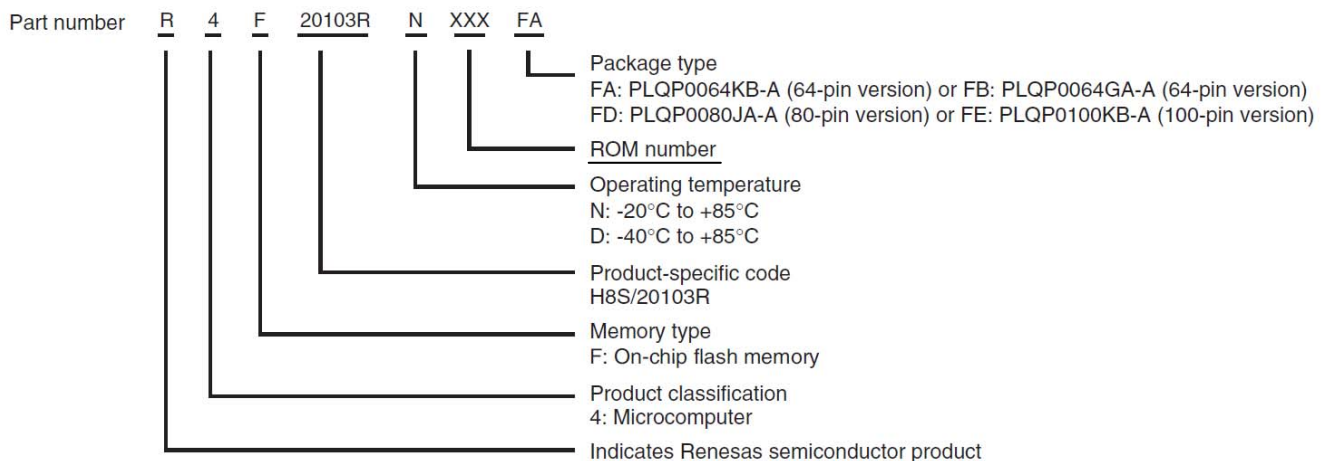


Figure 1.1 How to Read the Part Number

[After amendment]

Table 1.2 List of Products

Group	Part No.	ROM Capacity	RAM Capacity	Package	Remarks
H8S/20103R	R4F20103RNFA	128Kbytes	8Kbytes	PLQP0064KB-A (LQFP1010-64)	Version N
	R4F20102RNFA	96Kbytes	8Kbytes		
	R4F20103RNFB	128Kbytes	8Kbytes	PLQP0064GA-A (LQFP1414-64)	
	R4F20102RNFB	96Kbytes	8Kbytes		
	R4F20103RDFA	128Kbytes	8Kbytes	PLQP0064KB-A (LQFP1010-64)	Version D
	R4F20102RDFA	96Kbytes	8Kbytes		
	R4F20103RDFB	128Kbytes	8Kbytes	PLQP0064GA-A (LQFP1414-64)	
	R4F20102RDFB	96Kbytes	8Kbytes		
H8S/20203R	R4F20203RNFD	128Kbytes	8Kbytes	PLQP0080JA-A (LQFP1414-80)	Version N
	R4F20202RNFD	96Kbytes	8Kbytes		
	R4F20203RDFD	128Kbytes	8Kbytes	PLQP0080JA-A (LQFP1414-80)	Version D
	R4F20202RDFD	96Kbytes	8Kbytes		
H8S/20223R	R4F20223RNFD	128Kbytes	8Kbytes	PLQP0080JA-A (LQFP1414-80)	Version N
	R4F20222RNFD	96Kbytes	8Kbytes		
	R4F20223RDFD	128Kbytes	8Kbytes	PLQP0080JA-A (LQFP1414-80)	Version D
	R4F20222RDFD	96Kbytes	8Kbytes		
H8S/20323R	R4F20323RNFE	128Kbytes	8Kbytes	PLQP0100KB-A (LQFP1414-100)	Version N
	R4F20322RNFE	96Kbytes	8Kbytes		
	R4F20323RDFE	128Kbytes	8Kbytes	PLQP0100KB-A (LQFP1414-100)	Version D
	R4F20322RDFE	96Kbytes	8Kbytes		
H8S/20115R	R4F20115RNFA	256Kbytes	12Kbytes	PLQP0064KB-A (LQFP1010-64)	Version N
	R4F20114RNFA	192Kbytes	12Kbytes		
	R4F20115RNFB	256Kbytes	12Kbytes	PLQP0064GA-A (LQFP1414-64)	
	R4F20114RNFB	192Kbytes	12Kbytes		
	R4F20115RDFA	256Kbytes	12Kbytes	PLQP0064KB-A (LQFP1010-64)	Version D
	R4F20114RDFA	192Kbytes	12Kbytes		
	R4F20115RDFB	256Kbytes	12Kbytes	PLQP0064GA-A (LQFP1414-64)	
	R4F20114RDFB	192Kbytes	12Kbytes		
H8S/20215R	R4F20215RNFD	256Kbytes	12Kbytes	PLQP0080JA-A (LQFP1414-80)	Version N
	R4F20214RNFD	192Kbytes	12Kbytes		
	R4F20215RDFD	256Kbytes	12Kbytes	PLQP0080JA-A (LQFP1414-80)	Version D
	R4F20214RDFD	192Kbytes	12Kbytes		
H8S/20235R	R4F20235RNFD	256Kbytes	12Kbytes	PLQP0080JA-A (LQFP1414-80)	Version N
	R4F20234RNFD	192Kbytes	12Kbytes		
	R4F20235RDFD	256Kbytes	12Kbytes	PLQP0080JA-A (LQFP1414-80)	Version D
	R4F20234RDFD	192Kbytes	12Kbytes		

Group	Part No.	ROM Capacity	RAM Capacity	Package	Remarks
H8S/20335R	R4F20335RNFE	256Kbytes	12Kbytes	PLQP0100KB-A	Version N
	R4F20334RNFE	192Kbytes	12Kbytes	(LQFP1414-100)	
	R4F20335RDFE	256Kbytes	12Kbytes	PLQP0100KB-A	Version D
	R4F20334RDFE	192Kbytes	12Kbytes	(LQFP1414-100)	

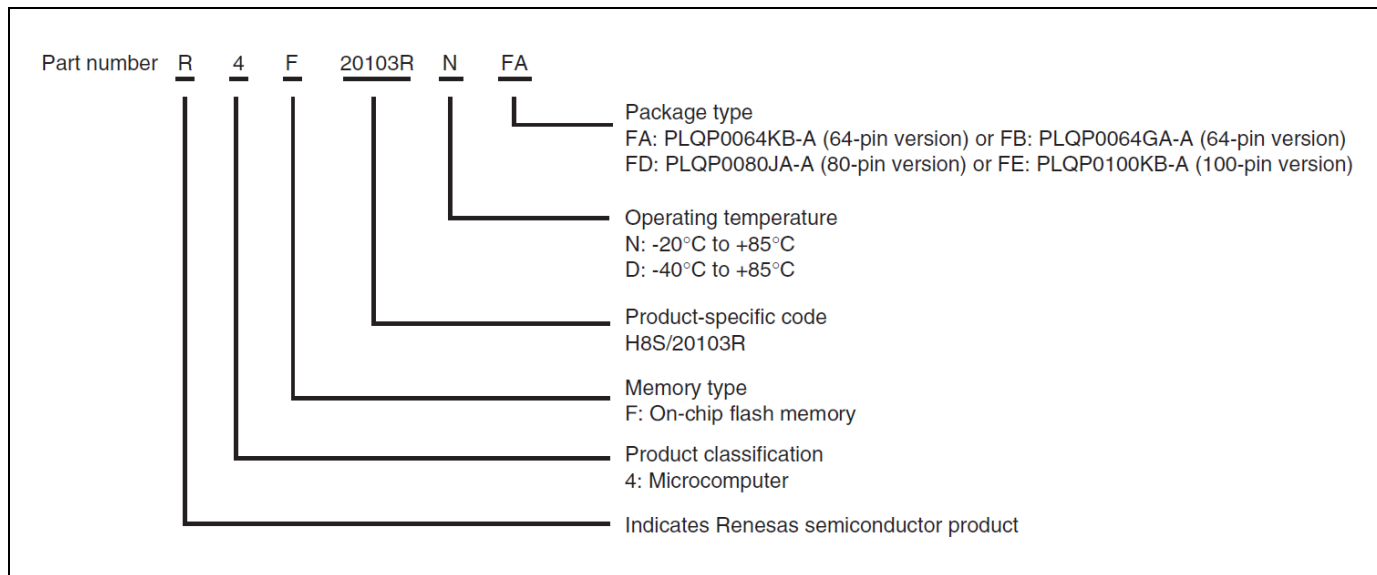


Figure 1.1 How to Read the Part Number