

RENESAS TECHNICAL UPDATE

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Product Category	MPU/MCU		Document No.	TN-RX*-A0206A/E	Rev.	1.00
Title	Addition of G version (Topr = -40°C to +105°C) Products to RX24T Group and RX24U Group		Information Category	Technical Notification		
Applicable Product	RX24T Group, RX24U Group	Lot No.	Reference Document	RX24T Group User's Manual: Hardware Rev.2.00 (R01UH0576EJ0200) RX24U Group User's Manual: Hardware Rev.1.00 (R01UH0658EJ0100)		
		All				

The G-version products (Topr = -40°C to +105°C) are added to the RX24T group and RX24U group MCU lineup.

This document contains the lists and electrical characteristics of products to be added.

1. List of G-version Products

11 products listed in Table 1 are added to RX24T group and six products listed in Table 2 are added to RX24U group.

To use these products, please contact our sales office.

Table 1. List of RX24T Group G-version Products

Part No.	Part No. (for Orders)	Package	ROM Capacity	RAM Capacity	E2 DataFlash	Operating Frequency (max.)	Operating Temperature
R5F524TEAGFP	R5F524TEAGFP#31	PLQP0100KB-B	512 Kbytes	32 Kbytes	8 Kbytes	80 MHz	-40 to +105°C
R5F524TCAGFP	R5F524TCAGFP#31	PLQP0100KB-B	384 Kbytes				
R5F524TBAGFP	R5F524TBAGFP#31	PLQP0100KB-B	256 Kbytes				
R5F524TAAGFP	R5F524TAAGFP#31	PLQP0100KB-B	256 Kbytes	16 Kbytes	8 Kbytes	80 MHz	
R5F524TAAGFF	R5F524TAAGFF#31	PLQP0080JA-A					
R5F524TAAGFN	R5F524TAAGFN#31	PLQP0080KB-B					
R5F524TAAGFM	R5F524TAAGFM#31	PLQP0064KB-C					
R5F524T8AGFP	R5F524T8AGFP#31	PLQP0100KB-B					
R5F524T8AGFF	R5F524T8AGFF#31	PLQP0080JA-A					
R5F524T8AGFN	R5F524T8AGFN#31	PLQP0080KB-B	128 Kbytes				
R5F524T8AGFM	R5F524T8AGFM#31	PLQP0064KB-C					

Table 2. List of RX24U Group G-version Products

Part No.	Part No. (for Orders)	Package	ROM Capacity	RAM Capacity	E2 DataFlash	Operating Frequency (max.)	Operating Temperature
R5F524UEAGFB	R5F524UEAGFB#30	PLQP0144KA-B	512 Kbytes	32 Kbytes	8 Kbytes	80 MHz	-40 to +105°C
R5F524UEAGFP	R5F524UEAGFP#30	PLQP0100KB-B					
R5F524UCAGFB	R5F524UCAGFB#30	PLQP0144KA-B	384 Kbytes				
R5F524UCAGFP	R5F524UCAGFP#30	PLQP0100KB-B					
R5F524UBAGFB	R5F524UBAGFB#30	PLQP0144KA-B	256 Kbytes				
R5F524UBAGFP	R5F524UBAGFP#30	PLQP0100KB-B					

2. Electrical Characteristics

The electrical characteristics for the G-version products are listed below. Specifications not listed here are the same as D-version products.

2.1 Absolute Maximum Ratings (for RX24T Group and RX24U Group)

Table 3. Absolute Maximun Ratings

Item	Symbol	Value	Unit
Operating temperature	G version T_{opr}	-40 to +105	°C

2.2 DC Characteristics (4) (for RX24T Group)

Table 4. DC Characteristics (4)

Conditions: VCC = 2.7 V to 5.5 V, AVCC0 = AVCC1 = AVCC2 = VREF = VCC to 5.5 V, VSS = AVSS0 = AVSS1 = AVSS2 = 0 V

Item	Symbol	Chip Version A		Chip Version B		Unit	Test Conditions
		Typ.*3	Max.	Typ.*3	Max.		
Supply current*1 Software standby mode*2	$T_a = 105^\circ\text{C}$ I_{cc}	15.0	500.0	35.0	400.0	μA	

Note 1. Supply current values are with all output pins unloaded and all input pull-up MOSs in the off state.

Note 2. The IWDT and LVD are stopped.

Note 3. VCC = 5 V.

2.3 DC Characteristics (4) (for RX24U Group)

Table 5. DC Characteristics (4)

Conditions: VCC = 2.7 V to 5.5 V, AVCC0 = AVCC1 = AVCC2 = VREFH0 = VREFH1 = VREFH2 = VCC to 5.5 V,
VSS = AVSS0 = AVSS1 = AVSS2 = VREFL0 = VREFL1 = VREFL2 = 0 V

Item	Symbol	Typ.*3	Max.	Unit	Test Conditions
Supply current*1 Software standby mode*2	$T_a = 105^\circ\text{C}$ I_{cc}	35.0	400.0	μA	

Note 1. Supply current values are with all output pins unloaded and all input pull-up MOSs in the off state.

Note 2. The IWDT and LVD are stopped.

Note 3. VCC = 5 V.