

# RENESAS TECHNICAL UPDATE

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Product Category	MPU/MCU		Document No.	TN-RX*-A008A/E	Rev.	1.00
Title	Permanent Countermeasure for the General PWM Timer (GPT)		Information Category	Technical Notification		
Applicable Product	RX62T Group	Lot No.	Reference Document	Points for Caution Regarding the General PWM Timer (GPT) (TN-RX*-A006A/E)		
		—		RX62T Group User's Manual: Hardware (R01UH0040EJ0110 Rev.1.10)		

Thank you for your valued patronage and best wishes for your continued success in business.

In a previous Renesas Technical Update (TN-RX\*-A006A/E), we informed you of some limitations on the general PWM timer (GPT) of the above applicable product and that corrections to eliminate those limitations were under discussion.

We have now completed the permanent countermeasure for the limitations.

■ Limitations on the Specification after the Permanent Countermeasure

The limitations described in TN-RX\*-A006A/E have been eliminated as shown in the following table.

Item	Target Register	Limitations	Limitations after the Permanent Countermeasure
1, 2, 3, 4	GTST	Limitation at the time of writing Limitation when using compare-match Limitation when using interrupts Limitation in use of the input capture flags	None
5	LCST	Limitation when using interrupts	None
6	GTETINT	Limitation when using the external trigger input interrupt	None
7	GTSTR	Limitation at the time of writing to (i.e. the need to read, modify, then write) specific bits	No limitation when the added register, GTSWP, is also used

The limitation at the time of writing to the GTSTR bit, shown as item No. 7 above, is prevented by using the write protection register (GTSWP), which has been added as a permanent countermeasure. As a result, the limitations on the specification have been eliminated. For details on the added register, refer to the RX62T Group User's Manual: Hardware Rev. 1.30.

Except for the electrical characteristics and the functions described above, there are no differences between products before and after the permanent countermeasure. In addition, software that was developed for the product before the permanent countermeasure can be used without any changes in the product after the permanent countermeasure.

- Identifying Products Incorporating the Permanent Countermeasure  
See the label on the inner packaging.
1. Label on the inner packaging: "V1" is added as the tail end of the SPN part number.
  2. This countermeasure is to be applied to mass-produced products manufactured in and after March, 2012. However, the timing of the start of production may change according to stock levels and the state of work in hand. For details, contact a Renesas Electronics Sales office.