

# RENESAS TECHNICAL UPDATE

1753, Shimonumabe, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8668 Japan  
Renesas Electronics Corporation

Product Category	MPU & MCU		Document No.	TN-RX*-061 A/E	Rev.	1.00
Title	Supplementary Information on the Interrupt Controller in the RX Family		Information Category	Technical Notification		
Applicable Product	RX610 Group, RX62N Group, RX621 Group, RX62G Group, RX62T Group, RX630 Group, RX63N Group, RX631 Group, RX63T Group, RX210 Group, RX220 Group, RX21A Group, RX111 Group	Lot No.	Reference Document	User's Manual: Hardware for applicable products (see the table at the bottom)		
		All				

This document describes supplementary information for the "Interrupt Controller" chapter in User's Manual: Hardware for the applicable products.

As with other families, the RX Family can accept another interrupt while processing an interrupt (multiple interrupt). To enable the multiple interrupt, set the PSW.I bit to 1 (interrupt enabled) in the interrupt handler of an accepted interrupt. The PSW.I bit can be rewritten only in supervisor mode. Since the PSW.PM bit becomes 0 (supervisor mode is selected) when an interrupt is accepted, the PSW.I bit can be rewritten in the interrupt handler.

The PSW.IPL[3:0] bits \*1 are the same value as the priority level of the accepted interrupt request.

In this case, when an interrupt request with the higher priority level than the PSW.IPL[3:0] bit \*1 value is generated, the interrupt request is accepted.

Note 1. PSW.IPL[2:0] bits in the RX610 Group

## Reference Documents

Applicable Product	Manual Title (Document Number)
RX610 Group	RX610 Group User's Manual: Hardware Rev.1.20 (R01UH0032EJ0120)
RX62N Group, RX621 Group	RX62N Group, RX621 Group User's Manual: Hardware Rev.1.30 (R01UH0033EJ0130)
RX62G Group	RX62G Group User's Manual: Hardware Rev.1.00 (R01UH0321EJ0100)
RX62T Group	RX62T Group User's Manual: Hardware Rev.1.30 (R01UH0034EJ0130)
RX630 Group	RX630 Group User's Manual: Hardware Rev.1.50 (R01UH0040EJ0150)
RX63N Group, RX631 Group	RX63N Group, RX631 Group User's Manual: Hardware Rev.1.60 (R01UH0041EJ0160)
RX63T Group	RX63T Group User's Manual: Hardware Rev.2.00 (R01UH0238EJ0200)
RX210 Group	RX210 Group User's Manual: Hardware Rev.1.40 (R01UH0037EJ0140)
RX220 Group	RX220 Group User's Manual: Hardware Rev.1.00 (R01UH0292EJ0100)
RX21A Group	RX21A Group User's Manual: Hardware Rev.1.00 (R01UH0251EJ0100)
RX111 Group	RX111 Group User's Manual: Hardware Rev.1.00 (R01UH0365EJ0100)