RENESAS TECHNICAL UPDATE

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Product Category	MPU/MCU			Document No.	TN-RX*-A0210A/E	Rev.	1.00
Title	Note on Message Transmission by the PTP Module for the Ethernet Controller (EPTPC) of RX64M and RX71M Group Products			Information Category	Technical Notification		
Applicable Product	RX64M Group RX71M Group	Lot No.		Reference Document	RX64M Group User's Manual: Hardware Rev.1.10 (R01UH0377EJ0110) RX71M Group User's Manual: Hardware Rev.1.10 (R01UH0493EJ0110)		
		All					

This document is a cautionary note regarding the message transmission by using the PTP module for the Ethernet controller (EPTPC) in products of the RX64M and RX71M Groups.

1. Note

When a message is transmitted by using the PTPEDMAC after a PTP event message (Sync, Delay_Resp, Pdelay_Req, Pdelay_Resp) has been relayed by the EPTPC and before a non-PTP message or PTP general message is relayed, the residence time is erroneously added to the section of the message transmitted. The section corresponds to the location of the correctionField of the message relayed immediately before the message is transmitted.

2. Measures

When any PTP event message is set to be relayed (when at least one of the SYNC[1], DRP[1], PDRQ[1], and PDRP[1] bits in the SYRFL1R register is set to 1), use EDMAC0 or EDMAC1 instead of the PTPEDMAC to transmit messages.

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