

[Notes]

R20TS0308EJ0100

Rev.1.00

RX family

May. 16, 2018

PTP Get Synchronous Time Using Firmware Integration Technology Modules,
 PTP Synchronous Pulse Output Using Firmware Integration Technology Modules,
 PTP Timer Synchronous Start Using Firmware Integration Technology Modules,
 Ethernet Simple Switch Function Using Firmware Integration Technology Modules,
 Ethernet Multicast Frame Filter Function Using Firmware Integration Technology Modules,
 Ethernet Controller: Retrieve Recommend Operation in case of Illegal Frame Detection,
 Sample Program for Multi-Function Timer Fault Diagnosis

Outline

When using the products in the title, note the following points.

1. Link-up processing by the “R_ETHER_LinkProcess” function when auto-negotiation is not completed
2. Calling the “R_ETHER_Read_ZC2” function or the “R_ETHER_Read” function from the interrupt function

1. Link-Up Processing by the “R_ETHER_LinkProcess” Function When Auto-Negotiation is Not Completed

1.1 Applicable Products

- Sample programs including the Ethernet FIT modules

The product name and revision of the relevant sample programs and the revision of the included Ethernet FIT modules are as shown in "Table 1.1, Products Which Include the Ethernet FIT Modules".

Table 1.1 Products Which Include the Ethernet FIT Modules

Product name of the sample programs	Document number
RX Family PTP Get Synchronous Time Using Firmware Integration Technology Modules All revisions up to Rev.1.12	R01AN1983EJxxxx *1
RX Family PTP Synchronous Pulse Output Using Firmware Integration Technology Modules All revisions up to Rev.1.12	R01AN2846EJxxxx *1
RX Family PTP Timer Synchronous Start Using Firmware Integration Technology Modules All revisions up to Rev.1.12	R01AN1984EJxxxx *1
RX Family Ethernet Simple Switch Function Using Firmware Integration Technology Modules All revisions up to Rev.1.11	R01AN3036EJxxxx *2
RX Family Ethernet Multicast Frame Filter Function Using Firmware Integration Technology Modules All revisions up to Rev.1.11	R01AN3037EJxxxx *2
RX Family Ethernet Controller: Retrieve Recommend Operation in case of Illegal Frame Detection All revisions up to Rev.1.11	R01AN2604EJxxxx *2
RX Family Sample Program for Multi-Function Timer Fault Diagnosis Rev.1.00	R01AN3475EJ0100

*1: xxxx indicates 0112 or smaller.

*2: xxxx indicates 0111 or smaller.

1.2 Applicable MCUs

RX63N, RX65N, RX64M, and RX71M groups

1.3 Details, Conditions, and Workaround

A problem occurs in the RX family Ethernet Module Using Firmware Integration Technology (r_ether_rx) which is included in the above sample programs.

For details, refer to RENESAS TOOL NEWS, document number R20TS0307EJ0100, sections 1.3 to 1.5.

<https://www.renesas.com/search/keyword-search.html#genre=document&documenttype=531&q=r20ts0307>

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RX Family Ethernet Module Using Firmware Integration Technology, RX Driver Package

1.4 Schedule for Fixing the Problem

This problem will be fixed in a later version.

2. Calling the “R_ETHER_Read_ZC2” Function or the “R_ETHER_Read” Function from the Interrupt Function

2.1 Applicable Products

- Sample programs including the Ethernet FIT modules

The product name and revision of the relevant sample programs and the revision of the included Ethernet FIT modules are as shown in "Table 2.1, Products Which Include the Ethernet FIT Modules".

Table 2.1 Products Which Include the Ethernet FIT Modules

Product name of the sample programs	Document number
RX Family PTP Get Synchronous Time Using Firmware Integration Technology Modules All revisions up to Rev.1.12	R01AN1983EJxxxx * ¹
RX Family Ethernet Controller: Retrieve Recommend Operation in case of Illegal Frame Detection All revisions up to Rev.1.11	R01AN2604EJxxxx * ²

*1: xxxx indicates 0112 or smaller.

* 2: xxxx indicates 0111 or smaller.

2.2 Applicable MCUs

RX63N, RX65N, RX64M, and RX71M groups

2.3 Details, Conditions, and Workaround

A problem occurs in the RX family Ethernet Module Using Firmware Integration Technology (r_ether_rx) which is included in the above sample programs.

For details, refer to RENESAS TOOL NEWS, document number R20TS0307EJ0100, sections 2.3 to 2.5.

<https://www.renesas.com/search/keyword-search.html#genre=document&documenttype=531&q=r20ts0307>

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RX Family Ethernet Module Using Firmware Integration Technology, RX Driver Package

2.4 Schedule for Fixing the Problem

This problem will be fixed in a later version.

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	May. 16, 2018	-	First edition issued.

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