[Notes]

RX Family

Sample code that uses TCP/IP for Embedded system M3S-T4-Tiny Firmware Integration Technology,

Application example using the embedded TCP/IP M3S-T4-Tiny (DHCP/DNS/FTP/HTTP) Firmware Integration Technology

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

3. Receiving an error frame when executing the "R_ETHER_Read_ZC2" 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 Sample code that uses TCP/IP for Embedded system M3S-T4-Tiny Firmware Integration Technology All revisions up to Rev.1.06	R20AN0312EJxxxx *1
RX Family Application example using the embedded TCP/IP M3S-T4-Tiny (DHCP/DNS/FTP/HTTP) Firmware Integration Technology All revisions up to Rev.1.02	R20AN0314EJxxxx *2

*1: xxxx indicates 0106 or smaller.

*2: xxxx indicates 0102 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
   [Notes]
   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 Sample code that uses TCP/IP for Embedded system M3S-T4-Tiny Firmware Integration Technology All revisions up to Rev.1.06	R20AN0312EJxxxx *1
RX Family Application example using the embedded TCP/IP M3S-T4-Tiny (DHCP/DNS/FTP/HTTP) Firmware Integration Technology All revisions up to Rev.1.02	R20AN0314EJxxxx *2

*1: xxxx indicates 0106 or smaller.

*2: xxxx indicates 0102 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
[Notes]
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.

3. Receiving an Error Frame When Executing the "R_ETHER_Read_ZC2" Function

3.1 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 3.1, Products Which Include the Ethernet FIT Modules".

Table 3.1 Products Which Include the Ethernet FIT Modules

Product name of the sample programs	Document number
RX Family Sample code that uses TCP/IP for Embedded system M3S-T4-Tiny Firmware Integration Technology All revisions up to Rev.1.06	R20AN0312EJxxxx *1
RX Family Application example using the embedded TCP/IP M3S-T4-Tiny (DHCP/DNS/FTP/HTTP) Firmware Integration Technology All revisions up to Rev.1.02	R20AN0314EJxxxx *2

*1: xxxx indicates 0106 or smaller.

*2: xxxx indicates 0102 or smaller.

3.2 Applicable MCUs

RX63N, RX65N, RX64M, and RX71M groups

3.3 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 3.3 to 3.5.

https://www.renesas.com/search/keyword-search.html#genre=document&documenttype=531&q=r20ts0307
[Notes]
RX Family Ethernet Module Using Firmware Integration Technology, RX Driver Package

3.4 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.

TOYOSU FORESIA, 3-2-24 Toyosu, Koto-ku, Tokyo 135-0061 Japan

Renesas Electronics Corporation

■Inquiry

https://www.renesas.com/contact/

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