

RENESAS TOOL NEWS on May 16, 2009: 090516/tn3

## The Real-Time OS--M3T-MR100/4-- for the R32C/100 MCU Series Revised to V.1.01 Release 00

We have revised the real-time OS--M3T-MR100/4--for the R32C/100 series of MCUs from V.1.00 Release 00 to V.1.01 Release 00.

### **NOTICE:**

Two types of license contract are applicable to M3T-MR100/4: evaluation license and mass-production license. For details of the conditions of these contracts, see:  
<http://www.renesas.com/itron/agreement>

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## **1. Descriptions of Revision**

### **1.1 Functions Introduced**

(1) Mutex and message buffer

Service calls concerning mutex and message buffer can be issued.

(2) Checking parameters

As return values of service calls, E\_ID, E\_PAR, and E\_CTX have been supported. So the kernel's error detection capability has been enhanced.

(3) Calling the system-down routine

The system-down routine can be called if inevitable errors arise in the user program.

(4) Debugging OS

When M3T-MR100/4 is used with E30A Emulator Debugger V.1.01 Release 00, which is going to be published on June 1, 2009, the following OS debugging functions can be used:

- MR tracing
- MR analyzing
- Issuing service calls

### **1.2 Problems Fixed**

The following known problems have been fixed. For details of these, see the respective RENESAS TOOL NEWS items.

(1) With issuing the pol\_sem and ipol\_sem service calls  
RENESAS TOOL NEWS Document No. 080901/tn4  
<http://tool-support.renesas.com/eng/toolnews/080901/tn4.htm>

(2) With using the cyclic and alarm handlers  
RENESAS TOOL NEWS Document No. 080901/tn4  
<http://tool-support.renesas.com/eng/toolnews/080901/tn4.htm>

(3) Correction to stack usage calculation methods  
RENESAS TOOL NEWS Document No. 081116/tn1  
<http://tool-support.renesas.com/eng/toolnews/081116/tn1.htm>

(4) With using the timeout function  
RENESAS TOOL NEWS Document No. 090516/tn2  
<http://tool-support.renesas.com/eng/toolnews/090516/tn2.htm>

(to be opened on and after June 5, 2009)

(5) With placing a fixed-length memory pool in a memory area  
RENESAS TOOL NEWS Document No. 090516/tn2  
<http://tool-support.renesas.com/eng/toolnews/090516/tn2.htm>  
(to be opened on and after June 5, 2009)

## 2. How to Update Your product and Purchase the Revised One

### 2.1 Updating

Online update is available free of charge.

To update yours, download the installer of the V.1.01 Release 00 product from the Web site at:

[http://www.renesas.com/mr100\\_4\\_download](http://www.renesas.com/mr100_4_download)

This site will be opened from June 5, 2009, on.

### 2.2 First Ordering

When you place an order for the product, supply the following items of information to your local Renesas Technology sales office or distributor:

Product Type:	M3T-MR100/4 (evaluation license), or M3T-MR100/4 (mass-production license)

Type Name:	R0R56400TRW01wE
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**NOTE:**

Letter w denotes a type of license. It shall be replaced with any one of the following numerals or letters:

1:	Evaluation license: The real-time OS can be installed only to one host computer.
5:	Evaluation license: The real-time OS can be installed up to 5 host computers.
A:	Evaluation license: The real-time OS can be installed up to 10 host computers.
K:	Mass-production license: The real-time OS can be embedded up to a total of 1,000 productions of product model(s) with the source code not disclosed.
U:	Mass-production license: The real-time OS can be embedded up to unlimited productions of product model(s) with the source code not disclosed.
Z:	Mass-production license: The real-time OS can be embedded up to unlimited productions of product model(s) with the source code disclosed.

**Example:**

For mass-production license up to a total of 1,000 productions for any MCU of the R32C/100 series with the source code not disclosed, the type name is R0R56400TRW01KE.

**[Disclaimer]**

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