

RENESAS TOOL NEWS on October 1, 2005: RSO-R0C30800DBW00-051001D

## The Emulator Debuggers for the M32C/80, and M16C/80 Series Published

The following four emulator debuggers, which are used for the M32C/80, and M16C/80 series of MCUs, have newly been published:

- M32C PC7501 emulator debugger V.1.00 Release 00
  - M32C PC4701 emulator debugger V.1.00 Release 00
  - M32C compact emulator debugger V.1.00 Release 00
  - M32C FoUSB/UART debugger V.1.00 Release 00
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### 1. Outline

The four brand-new emulator debuggers can run on the High-performance Embedded Workshop (an integrated development environment) V.4.00.03.\*

- \* The High-performance Embedded Workshop V.4.00.03, which has incorporated plenty of features of the TM (another integrated development environment) and the PD debuggers (such as the M3T-PDxx and KDxx emulator debuggers), provides you with Renesas's integrated user interface.

For details of V.4.00.03, see RENESAS TOOL NEWS "The High-performance Embedded Workshop (an Integrated Development Environment) Revised to V.4.00.03" (No. RSO-HEW-051001D), issued on Oct. 1, 2005.

For detailed information on the new emulator debuggers, see their datasheets.

### 2. Functionality

#### 2.1 Substitutions

The new debuggers substitute for their preceding PD debuggers as follows:

- M32C PC7501 emulator debugger for M3T-PD308F debugger (used for the M32C/80 series in combination with the PC7501 emulator)

- M32C PC4701 emulator debugger  
for M3T-PD308 debugger (used for the M32C/80 and M16C/80 series in combination with the PC4701 emulator)  
NOTICE:  
The M32C PC4701 supports the PC4701U, PC4701M, PC4701HS, and PC4700H emulators only. Note that it does not support the PC4701L and PC4700L.
- M32C compact emulator debugger  
for M3T-PD308MF debugger (used for the M32C/80 series in combination with their compact emulator)
- M32C FoUSB/UART debugger  
for KD3083 debugger (used for the M32C/80 and M16C/80 series in combination with the M3A-0665 (FoUSB/UART) emulator)

## 2.2 Improvement Made in the New Debuggers

The new debuggers enable you to debug programs using the High- performance Embedded Workshop V.4.00.03.\* Accordingly you are able to accomplish seamless operations of coding, building, simulating, and debugging under the single integrated development environment.

- \* In the debuggers running on the High- performance Embedded Workshop V.4.00.03, such windows for basic debugging operations as the Register and Memory windows can be manipulated in a unified manner regardless of the types of target MCUs. On the other hand, the windows whose functions depend on each emulator (for example, those providing trace functions and hardware breaks) can be handled as in the PD debuggers.

## 3. Host System Requirements

<b>Computer</b>	IBM PC/AT or compatible
<b>OS</b>	Windows XP, Windows 2000, Windows Me, or Windows 98SE

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## 4. Notices

- (1) There are several differences between the new debuggers and their predecessors in debugging application programs created with the aid of the PDSDK COM kit. For those differences, consult our technical support contact: [csc@renesas.com](mailto:csc@renesas.com)
- (2) None of the new debuggers can be used in combination with the ZIPC CASE tool, manufactured by CATS Co., Ltd. If you want to utilize ZIPC's debugging functions, use the PD debugger specific to your emulator.
- (3) On these debuggers, the commands and windows created by the CB (Custom Builder) do not operate.

## 5. Problems Known in the PD Debuggers Fixed

In the new debuggers, the following known problems, which arise in the PD debuggers, have been fixed:

- (1) On using the MR Trace and MR Analyze windows  
For details, see RENESAS TOOL NEWS "A Note on Using Emulator Debuggers M3T-PD308F and M3T-PD30F" (No. RSO-M3T-PD308F-040501D), issued on May 1, 2004.
- (2) On using the LAN interface  
For details, see RENESAS TOOL NEWS "A Note on Using Emulator Debuggers M3T-PD32R, M3T-PD308F, M3T-PD308, M3T-PD30F, M3T-PD30, M3T-PD79, M3T-PD77, and M3T-PD38" (No. RSO-M3T-PD308F-040601D), issued on June 1, 2004.
- (3) On using the C Watch window  
For details, see RENESAS TOOL NEWS "A Note on Using Emulator Debuggers M3T-PD32RM, M3T-PD32R, M3T-PD308F, M3T-PD308, M3T-PD30F, and M3T-PD30" (No. RSO-M3T-PD32RM\_1-040801D), issued on August 1, 2004.
- (4) On expanding a global variable in the C Watch window  
For details, see RENESAS TOOL NEWS "A Note on Using Emulator Debuggers M3T-PD32RM, M3T-PD32R, M3T-

PD308F, M3T-PD308, M3T-PD30F and M3T-PD30" (No. RSO-M3T-PD32RM-040901D), issued on September 1, 2004.

- (5) On using the C Watch window  
For details, see RENESAS TOOL NEWS "A Note on Using Emulator Debuggers M3T-PD308F, M3T-PD30F, and M3T-PD30MF" (No. RSO-M3T- PD308F-041201D), issued on December 1, 2004.
- (6) On making a change to the settings of the RAM monitoring area  
For details, see RENESAS TOOL NEWS "A Note on Using Emulator Debuggers M3T-PD308MF, M3T-PD308F, M3T-PD30MF, and M3T-PD30F; and the M16C R8C Debugger Package" (No. RSO-M3T-PD308MF-050216D), issued on February 16, 2005.

## 6. How to Get the Products

If you are using the emulator involved, you are able to use this brand-new emulator debugger free of charge. So download the product from the software download sites listed below.

- o M32C PC7501 emulator debugger
- o M32C PC4701 emulator debugger
- o M32C compact emulator debugger
- o M32C FoUSB/UART debugger

**Note:**

The M3A-0665 FoUSB is used with this debugger, has been discontinued in December 2007.

Please use E8a emulator which is the successor product to M3A-0665 FoUSB if needed.

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