

## C Compiler M3T-NC308WA V.5.10 Release 1 Upgraded

We have upgraded the M3T-NC308WA C compiler (with an assembler and integrated development environment) for the M32C/80 and M16C/80 series MCUs from V.5.00 Release 1 to V.5.10 Release 1.

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### 1. Descriptions of Upgrade

#### 1.1 Improvements Introduced

Providing the following three compile options:

- (1) The "-fdouble\_32(-fD32)" option for treating data of type double as of 32 bits in length.
- (2) The "-Wno\_used\_static\_function(-WNUSF)" option for detecting unused static functions.
- (3) The "-ferase\_static\_function(-fESF)" option for preventing codes being generated for static functions.

#### 1.2 Problems Fixed

The following known problems have been fixed:

- (1) On bit fields in a structure declared using the volatile qualifier
- (2) On defining arrays with a list of about 6200 or more initializers
- (3) On interrupt handling functions
- (4) On using bit fields and \_Bool type variables  
For details of (1) through (4), see MAEC TOOL NEWS "Notes on C compiler M3T-NC308WA V.5.00 Release 1" issued on September 1, 2002.
- (5) On using command option "-O" in the load-module converter
- (6) On an "IF-ELIF-ENDIF" construct in structured description  
For details of (5) and (6), see MAEC TOOL NEWS "Notes on C Compilers M3T-NC308WA, M3T-NC30WA, and M3T-NC79WA; and Assemblers AS308, AS30, and AS79" issued on September 16, 2002.

- (7) On describing an if or switch statement  
For details, see MAEC TOOL NEWS "A Note on C Compilers M3T-NC308WA V.5.00 Release 1 and M3T-NC30WA V.5.00 Release 1" issued on September 16, 2002.
- (8) On a union declared to be an auto variable
- (9) On a switch statement (A)
- (10) On a switch statement (B)
- (11) On successively referencing the same variable in more than one if statement
- (12) On warning option -Wno\_used\_argument
- (13) On directive commands #pragma JSRA and #pragma JSRW  
For details of (8) through (13), see MAEC TOOL NEWS "Notes on C Compilers M3T-NC308WA, M3T-NC30WA, M3T-NC79WA, and M3T-NC77WA" issued on October 1, 2002.
- (14) On placing a #pragma ASM--ENDASM block immediately after the definition of an inline function  
For details, see MAEC TOOL NEWS "Notes on C compilers M3T-NC308WA and M3T-NC30WA" issued on December 1, 2002.
- (15) On locating variables qualified by the type qualifiers "near" and "far"
- (16) On renaming a rom or data section by the #pragma SECTION directive command  
For details of (15) and (16), see MAEC TOOL NEWS "Notes on C Compiler M3T-NC308WA V.5.00 Release 1" issued on December 16, 2002.
- (17) On hexadecimal escape sequences of string literals
- (18) On subtract operations of addresses
- (19) On conditional jumps in iteration control structures  
For details of (17) through (19), see MAEC TOOL NEWS "Notes on Using C Compilers M3T-NC308WA and M3T-NC30WA" issued on February 1, 2003.
- (20) On placing auto variables  
For details, see MAEC TOOL NEWS "A Note on Using C Compilers M3T-NC308WA and M3T-NC30WA" issued on March 1, 2003.
- (21) On defining bit fields as of type unsigned long  
For details, see MAEC TOOL NEWS "A Note on Using C Compiler M3T-NC308WA" issued on March 16, 2003.
- (22) On using the #pragma ADDRESS declaration
- (23) On using the #pragma ADDRESS declaration or the volatile qualifier for a variable to be assigned to another

For details of (22) and (23), see MAEC TOOL NEWS "Notes on Using C Compilers M3T-NC308WA and M3T-NC30WA" issued on March 16, 2003.

(24) On the standard library function "sprintf"

For details, see MAEC TOOL NEWS "A Note on Using C Compilers M3T-NC308WA, M3T-NC30WA, M3T-NC79WA and M3T-NC77WA" issued on March 16, 2003.

(25) On calling a function in an if-else construct

For details, see MAEC TOOL NEWS "A Note on Using C Compiler M3T-NC308WA" issued on April 1, 2003.

## 2. How to Upgrade the Current Product and Order the Upgraded One

### 2.1 Online Upgrade (without Charge)

Please download the upgraded product from [HERE](#).

### 2.2 First ordering or upgrading by CD-ROM (with Additional Charge)

Upgrade service in CD-ROM is also available. When you place an order please furnish the following information to your local Renesas Technology sales office or distributor:

[First Ordering]

Product Type : M3T-NC308WA

Version No. : V.5.10

Release No. : Release 1

Host OS : Windows XP, Windows Me, Windows 98, Windows 95, Windows 2000, or Windows NT 4.0

[Upgrading by CD-ROM]

Please let us know your product's license ID or Serial No. besides the above information.

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