

## A Note on Using the C Compiler package for the M16C MCU Series --With Using the R8C/Tiny MCU Series Coming with Large ROM Such As 128 KB or More--

Please take note of the following problem in using the C compiler package for the M16C MCU series:

- With using the R8C/Tiny MCU series coming with large ROM such as 128 KB or more

### 1. Product and Versions Concerned

The C compiler package for the M16C MCU series (M3T-NC30WA)  
V.5.40 Release 00\* through V.5.43 Release 00

This problem arises when the -R8CE option is selected, which is used to create code for the R8C/Tiny series of MCUs with 64-KB or larger ROM. Note that the products earlier than V.5.40 Release 00 are not involved in this problem because they do not support the -R8CE option.

### 2. Description

The -R8CE option is valid for address space specified by an address range of 0H to 1FFFFH. So any of the following warning messages may be dispatched if members of the R8C/Tiny series with 128-KB or larger ROM are used:

- Warning message in assembler  
Location counter exceed 1FFFFH
- Warning message in linker  
'section' data exceed 1FFFFH
- Warning message in load module converter  
Address exceed 1FFFFH

### 3. Condition

This problem occurs if the program extends to or far address 1FFFFH.

#### **4. Workaround**

Even if any of the above warning messages only is dispatched at build, correct code will be generated. So neglect the message in such a case.

#### **5. Schedule of Fixing the Problem**

We plan to fix this problem in the next release of the product (the -R8CE option is made valid for an extended address range of 0H to FFFFFH).

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