RENESAS Tool News

A Note on Using Emulator MCUs M38K09RFS and M38K29RFS

Please take note of the problem stated below in using the M38K09RFS and the M38K29RFS emulator MCU in emulator systems for the 740 family.
(The above emulator MCUs emulate the 38K0 and the 38K2 group, the 740 family respectively.)

1. **Emulator MCUs and Emulator Systems Concerned**
   Emulator MCUs:
   M38K09RFS (used for emulating the 38K0 group)
   M38K29RFS (used for emulating the 38K2 group)

   Emulator systems for the 740 family:
   Emulators: PC4701U, PC4701M, PC4701HS, PC4701L, PC4700H, and PC4700L
   Emulation pods: M38000TL2-FPD, M38000TL-FPD, and M38000T-FPD

2. **Description**
   When "L Version" programs for the 38K0 and 38K2 group of MCUs are debugged using their respective emulator MCUs concerned, all the combinations of the above emulators and emulation pods cannot operate under the following conditions of operating clock frequencies and supply voltages to the target:

   (1) At 8 MHz/Through mode (Phi = 8 MHz) at 4.00--5.25 V
       (Note, however, that the system can operate if the voltage range is narrowed to 4.60--5.25 V.)

   (2) At 6 MHz/Through mode (Phi = 6 MHz) at 3.00--4.00 V

   Note:
   The system is capable of operating under the following conditions:

   (1) At 12 MHz/2 divide mode (Phi = 6 MHz) at 4.00--5.25 V

   (2) At 6 MHz/Through mode (Phi = 6 MHz) at 4.00--5.25 V

3. **Workaround**

   If you use either of the emulator MCUs concerned under the conditions where the above-mentioned emulator systems cannot operate, use it in the M38000T2-CPE compact emulator.