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M3062PT2-EPB Supplementary Document

Read This Before Using the M3062PT2-EPB

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Thank you for purchasing the M3062PT2-EPB emulation probe for the M16C/62P Group. Before using this product, please read the following precautions.

1. Using the M3T-PD30F

This document describes the required firmware file and MCU file setting for using this product with the M3T-PD30F. Required firmware and MCU files are as follows.

- Firmware file: M30620F.S (V1.06.00 or later)
- MCU file: M16C62P_512.mcu

These firmware and MCU files are not included with the M3T-PD30F V.2.20 Release 1. (Because these files are included with the latest version of M16C R8C PC7501 Emulator Debugger, followings steps are not necessary.)
This document describes how to store the firmware file and MCU file when using the M3T-PD30F. Please use the M3062PT2-EPB after storing these files.

1. Copying Firmware and MCU Files

Before you start storing files, install the emulator debugger M3T-PD30F.
After installing the M3T-PD30F, store the firmware and MCU files as follows.

(1) Download the latest firmware file “M30620F.S” and MCU file “M16C62P_512.mcu” from the following URL.
http://tool-support.renesas.com/eng/toolnews/download/m16c62p.htm
(2) Store the firmware file “M30620F.S” to the directory where the pd30f.exe is installed (If you have installed the M3T-PD30F by default, store the firmware file to “c:\mtool\pd30f”).
(3) Store the MCU file “M16C62P_512.mcu” to “mcufiles” folder where the MCU file is stored (If you have installed the M3T-PD30F by default, store the firmware to “c:\mtool\pd30f\mcufiles”).

2. Downloading Firmware

It is necessary to download the firmware in the cases listed below. Normally, the following are automatically detected when the M3T-PD30F is started up, and the firmware is downloaded.
- When you use this product for the first time
- When the firmware has been upgraded
- When you use this product with a PC7501 which was used with another emulation probe before

If downloading firmware is not completed in the cases below, redownload the firmware after starting the emulator in maintenance mode following the procedures (1) to (4).
- When the power is unexpectedly shut down during a download from the emulator debugger
- When a communications interface cable is unexpectedly pulled out
The user system must not be connected when you download the firmware.

(1) Set the interface select switch on the rear panel of the PC7501 to the LPT side and connect the LPT parallel interface cable to the PC7501 and the host machine.
(2) Within 2 seconds of activating power to the emulator, press the system reset switch on the PC7501 front panel to start maintenance mode.

(3) When the emulator is switched to maintenance mode, the System Status SAFE LED begins to flash.
(4) Start up the M3T-PD30F. When settings in the Init dialog box are complete, the dialog which urges to download the firmware will appear. Download firmware following messages. Required time for downloading the firmware is about 60 seconds.

For details, see “2.7 Downloading Firmware” on page 28 of the M3062PT2-EPB User’s Manual.

3. Self-check

To confirm the emulation probe operate properly, after downloading the firmware file, execute the self-check.

(1) If the user system is connected, disconnect it.
(2) Within 2 seconds of activating power to the emulator, press the system reset switch on the emulator front panel to switch the emulator to maintenance mode.
(3) Check the "SAFE" LED starts flashing and then press the system reset switch again.
(4) The self-check will start. If the normal result is displayed in about 30 seconds, the self-check terminated normally.

For details, see “2.8 Self-check” on page 29 of the M3062PT2-EPB User’s Manual.

2. Note on Input Level for KI0# to KI3#

With this product, the KI0# to KI3# are TTL input level using the port emulation FPGA although these are the CMOS Schmidt input level with the actual MCU. Therefore, the wrong interrupt may occur near the threshold of the TTL level (2.0V to 0.8V) when the input signal is slow changing.

3. ALE signal

When the internal RAM, ROM or SFR area of the MCU is accessed during user program execution, with the actual MCU, ALE output is fixed to Low, while this product outputs ALE signal.

4. Inquiries

For technical information on this product and the emulator debugger, contact us from the following URL.
http://www.renesas.com/inquiry