

Updating the PCR-MA Firmware

Download the latest PCR-MA firmware from the Kikusui Electronics Corporation website, and update the firmware. To update the firmware, you will use the dedicated application KIKUSUI DFU GUI and the latest firmware (.dfu file).

KIKUSUI DFU GUI uses an STMicroelectronics library.

Firmware update workflow

“Downloading and installing the update tool”



“Switching the PCR-MA to update mode”



“Connecting the PCR-MA to the PC”



“Running Kikusui DFU GUI and updating the firmware”



“Clearing the PCR-MA update mode”



“Checking the firmware version”

Firmware update is complete.

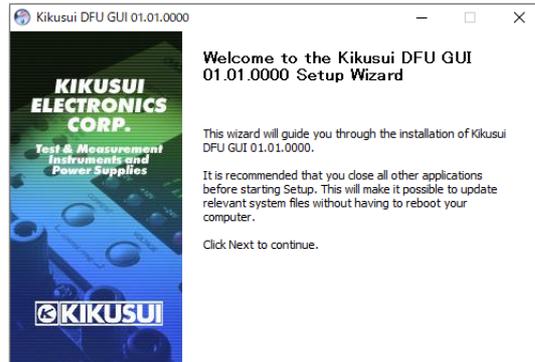
Downloading and installing the update tool

1 Download Kikusui DFU GUI and the latest firmware (.dfu file) from the Kikusui Electronics Corporation website (<http://www.kikusui.co.jp/en/download/>).

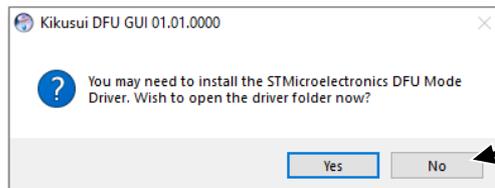
If you already have Kikusui DFU GUI, download only the latest firmware.

2 Install Kikusui DFU GUI in the PC

Double-click the installer to start the installation wizard. Follow the instructions on the screen to install the application.

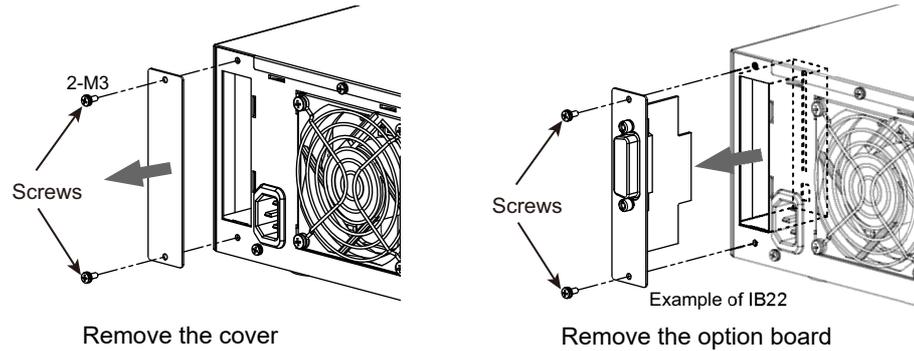


When you click Close on the Kikusui DFU GUI installation complete screen, the following window will appear. Since there is no need to install the DFU Mode Driver, click No.



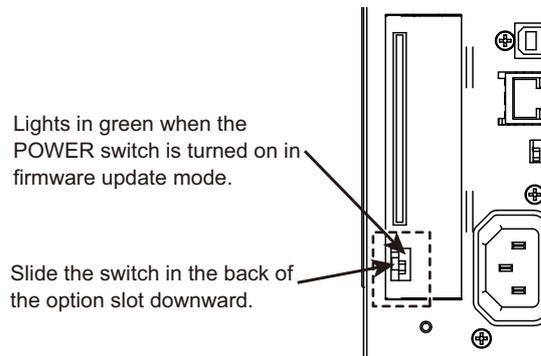
Switching the PCR-MA to update mode

- 1** Check that the **POWER** switch is turned off, and remove the power cord.
- 2** Touch a grounded metal object (for example, the metal parts of the rear panel) to discharge any static electricity from your body.
- 3** Remove the screws shown in the following figure from the rear panel, and remove the cover or the option board



- 4** Slide the switch in the back of the option slot downward.

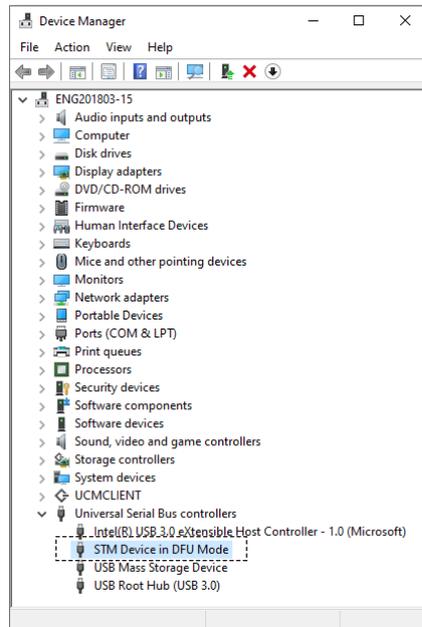
The PCR-MA switches to firmware update mode.



Connecting the PCR-MA to the PC

- 1** Connect the PCR-MA to the PC with a USB cable (standard TypeB plug)
- 2** Connect the power cord, and turn on the PCR-MA's POWER switch.
Nothing is displayed in the front-panel display area. Only the LED in the option slot lights.
- 3** In Windows Device Manager, check that STM Device in DFU Mode is shown under Universal Serial Bus controllers.

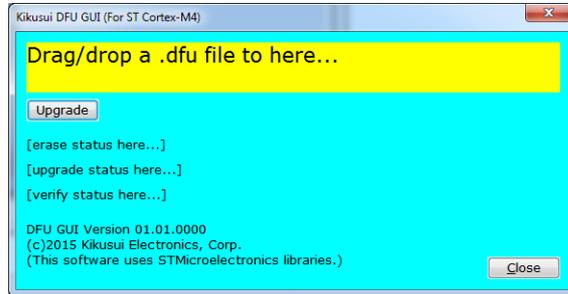
If it is not, the PCR-MA is not connected.



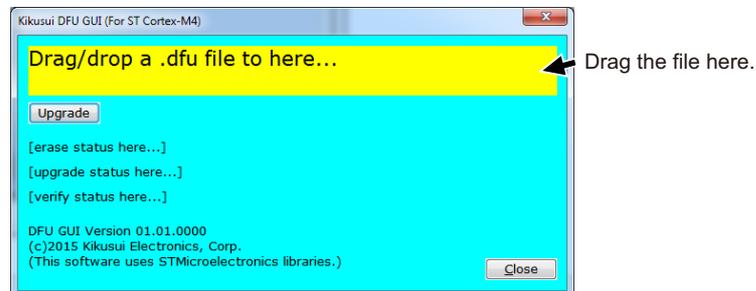
Running Kikusui DFU GUI and updating the firmware

1 On the taskbar, click Start, Kikusui DFU GUI, and KiDfuGui.

Kikusui DFU GUI starts.

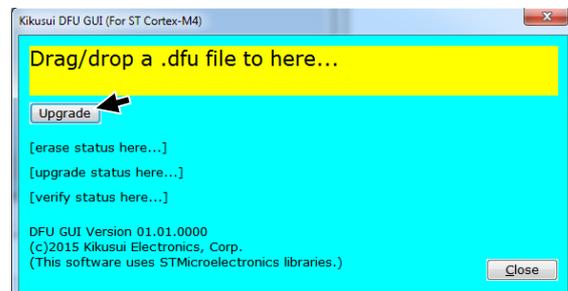


2 Drag and drop the firmware (.dfu file) onto “Drag/drop a .dfu file to here...”



3 Click Upgrade.

The firmware updating starts.



4 When “Verify successful !” is displayed, click Close.

Clearing the PCR-MA update mode

- 1 Turn off the PCR-MA's POWER switch, and remove the power cord. Slide the switch in the option slot upward.

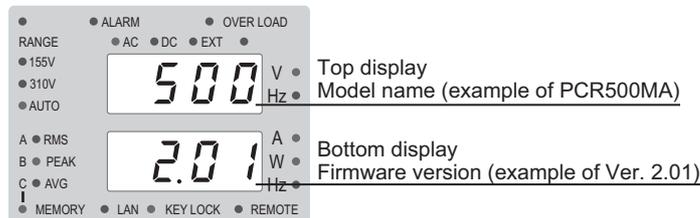
The PCR-MA switches to normal mode.

- 2 Using the screws removed earlier, install the slot cover or option board in the panel.

Checking the firmware version

- 1 Connect the power cord, and turn on the PCR-MA's POWER switch. To start the PCR-MA's with the factory default settings, hold down RECALL, and turn the POWER switch on.

On the front panel, check the model and firmware version.



Firmware update is complete.

If your PCR-MA doesn't start even though you followed the procedure written here or if there are any items that are not clear, contact your Kikusui agent or distributor.