



MTP200AB Firmware Upgrade Guide

Application Note

R20190207

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1. Firmware Upgrade Guide

Users can easily upgrade MTP200B through the PC. In particular, the user can easily upgrade the program by running the execution file provided for each version.

Download the upgrade program from the TESCOM website; the program is also provided for free through e-mail.

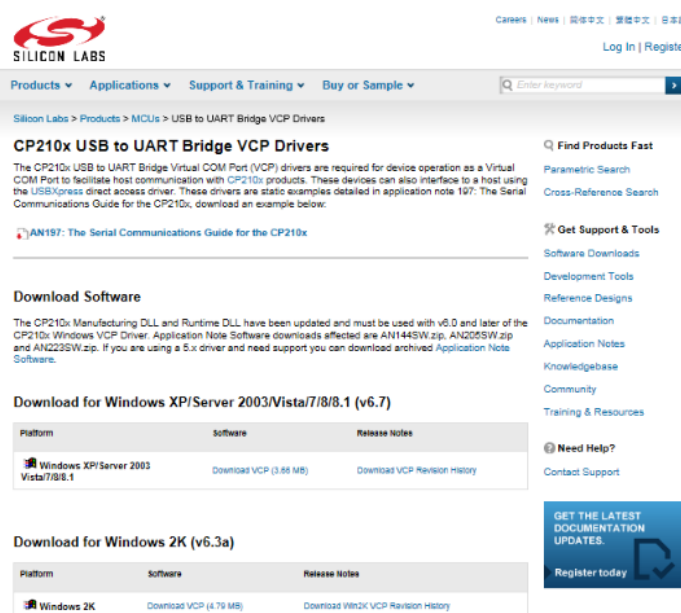
CAUTION

To start downloading the program, .NET Framework 2.0 must be installed on the PC. (usually exists on Windows XP or upper-version OS PC as a default).
Otherwise, download from the Microsoft homepage.

1.1 USB Driver Installation

MTP200B communicates with the PC through the USB cable. Actually, USB-to-serial converter with is already built in the tester is used for communication. Therefore, upon the installation of the driver, a COM port will be configured on the PC. A USB driver needs to be downloaded by accessing the MTP200B product CD or Silicon Labs website. (<http://www.silabs.com>)

You can find the most up-to-date drivers for your system [here](#), from Silicon Labs.



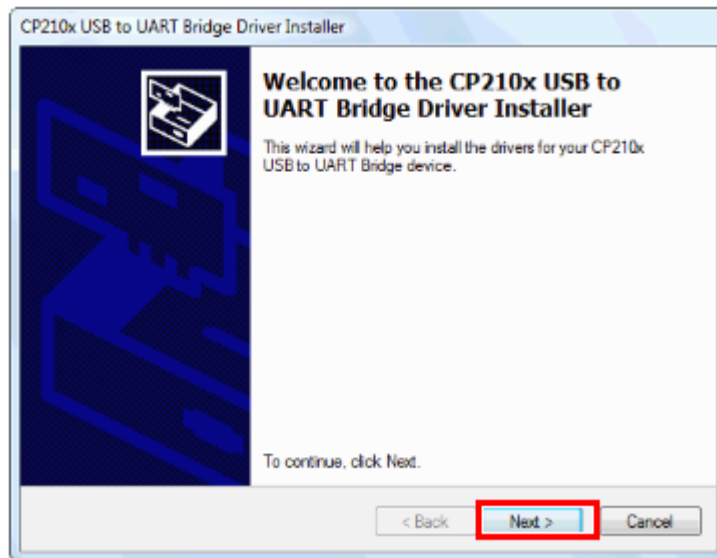
The screenshot shows the Silicon Labs website page for CP210x USB to UART Bridge VCP Drivers. The page includes a navigation menu with options like Products, Applications, Support & Training, and Buy or Sample. A search bar is present. The main content area features a section titled "CP210x USB to UART Bridge VCP Drivers" with a description and a link to "AN197: The Serial Communications Guide for the CP210x". Below this, there are two sections for downloading software: "Download Software" and "Download for Windows XP/Server 2003/Vista/7/8.1 (v6.7)". The "Download for Windows XP/Server 2003/Vista/7/8.1 (v6.7)" section contains a table with columns for Platform, Software, and Release Notes.

Platform	Software	Release Notes
Windows XP/Server 2003 Vista/7/8.1	Download VCP (3.66 MB)	Download VCP Revision History

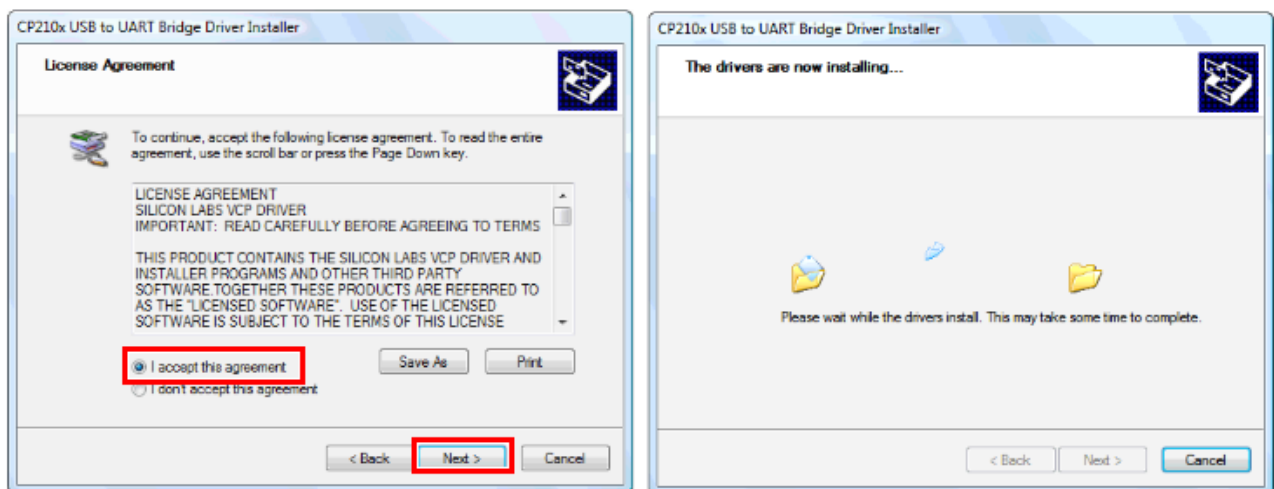
Below this table, there is another section for "Download for Windows 2K (v6.3a)" with a similar table structure.

For detailed installation instructions of the USB driver, please refer to the following.

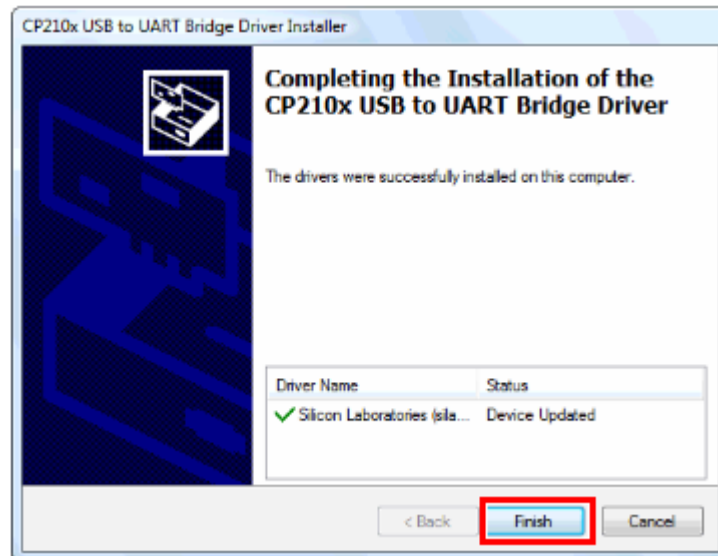
1. Extract the downloaded file "CP210x_VCP_Windows.zip" into a designated folder. In the designated folder, a folder labeled "CP210x_VCP_Windows" will be created. In the folder labeled "CP210x_VCP_Windows", double click the "Cp210xVCPInstaller_x86.exe" with 32-bit OS, or the "Cp210xVCPInstaller_x64.exe" with 64-bit OS. After a few moments, the following window is displayed.



2. The following "License Agreement" window is displayed; please confirm its contents.

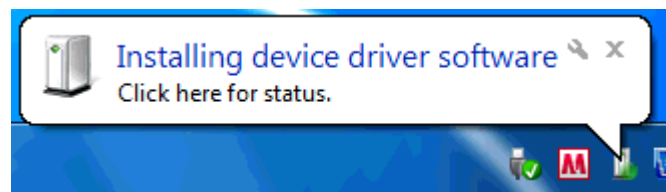


3. Wait until the installation is completed. After a few moments, the following window is displayed. Click [Finish] to complete installation and exit.



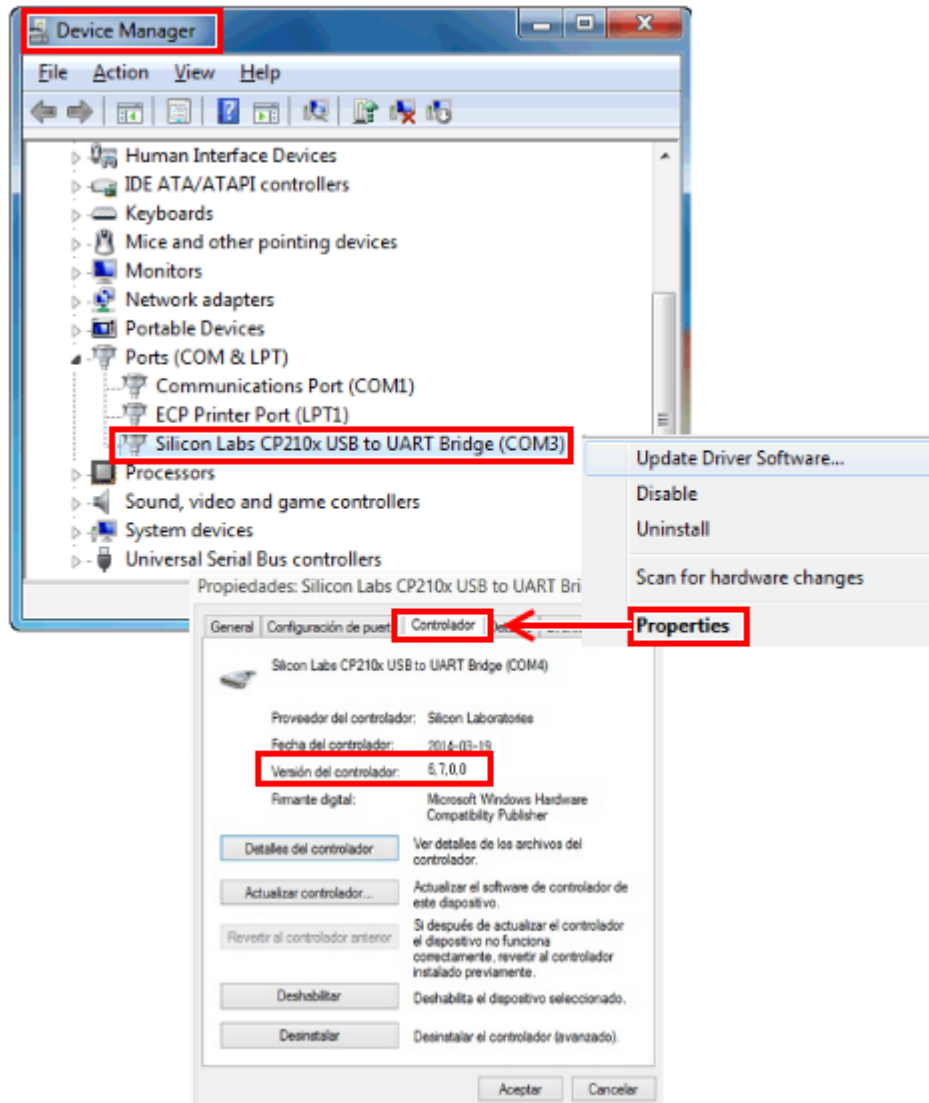
4. Connecting the MTP200B to a PC

- A. USB cable between the USB port on the rear side of MTP200B using the provided USB cable to the USB port of the PC. Then, turn on MTP200B.
- B. Turn the MTP200B power ON, then connect it to a PC via a connection cable for the transceiver. The PC will detect new hardware, and the following message is displayed. (The message may vary depending upon the operating system.) The installation of the device driver software will start automatically.



5. Confirming the COM port number

- A. Open the "Device Manager" to confirm which COM port number is assigned for connection with the device.
- B. Click the Windows [Start] button
- C. Right-click [Computer], then click [Properties].
- D. Click [Device Manager] in the displayed window.
- E. Click "Ports (COM & LPT)" to extend it, then you can find "Silicon Labs CP210x USB to UART Bridge (COMxx)". The "COMxx" number is different depending on your PC.
- F. Right-click [Silicon Labs CP210x USB to UART Bridge], then [Properties].
- G. Click "Controlador" then check the version.



NOTICE

The latest version of driver is 6.7.0.0, if the lower version of the driver has been installed, please update to the latest version.

1.2 Emergency Mode Upgrade Sequence

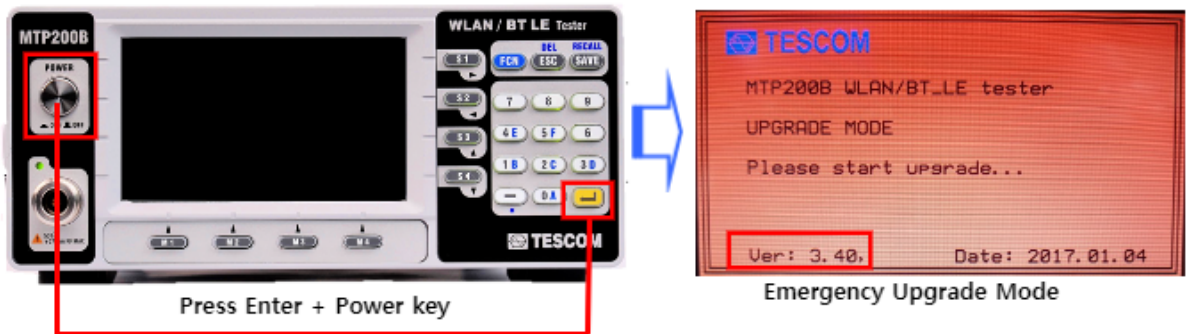
Users can easily upgrade MTP200B through the PC. In particular, the user can easily upgrade the program by running the execution file provided for each version.

CAUTION

Before upgrading the firmware, execute the Emergency Mode Upgrade first.

① Emergency Mode Version checking

1. MTP200B will be booted under Emergency upgrade mode when power button is pushed while the Enter key is pushed.



CAUTION

Depending on the Emergency Mode Version, you may need to upgrade the Emergency Mode Firmware several times.

*** Emergency Mode Ver: Before v3.20**

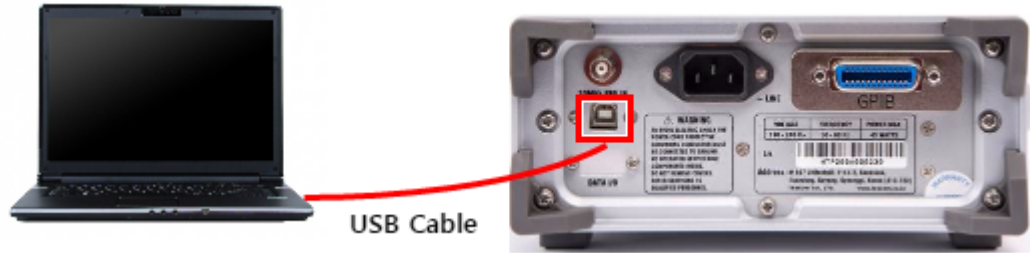
- Step 1) V3.20 Emergency mode upgrade
- Step 2) V3.40 Emergency mode upgrade

*** Emergency Mode Ver: v3.20 or later**

- Step 1) V3.40 Emergency mode upgrade


② H/W Setting

1. USB cable between the USB port on the rear side of MTP200B using the provided USB cable to the USB port of the PC.



2. MTP200B will be booted under Emergency upgrade mode
3. Check for the COM Port (Refer to the [USB Driver Installation](#))

③ Emergency firmware execution

1. Run " MTP200AB_Emergency_Downloader_V3.40.exe" as the Emergency mode upgrade program of MTP200B. The following screen will appear upon automatic upgrade:
2. During the upgrade, the progress shall be displayed.



3. Once downloading is completed, turn off MTP200B.
4. After booting in Emergency mode, check the version.

1.3 MTP200B Firmware Upgrade Sequence

① Firmware Version checking

Confirmation of MTP200B's firmware is available at INFO menu.



- * SERIAL_NO: Product serial number
- * SW_VERSION: Firmware version
- * DATE: The date of firmware updated
- * OPTION: Information of options

NOTICE

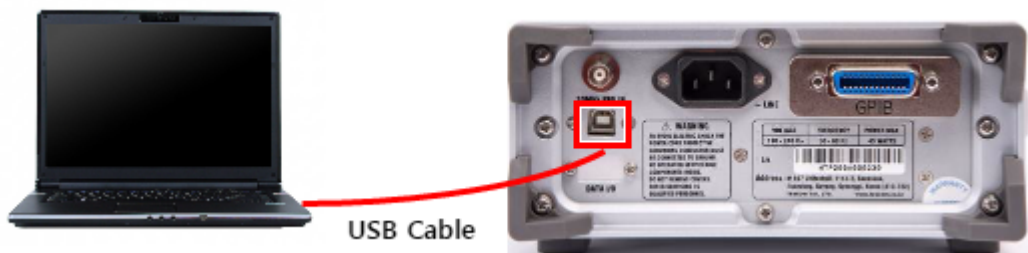
Before upgrading the firmware, please make sure that Emergency mode version is the final version. (Refer to the [Emergency Mode Upgrade Sequence](#))

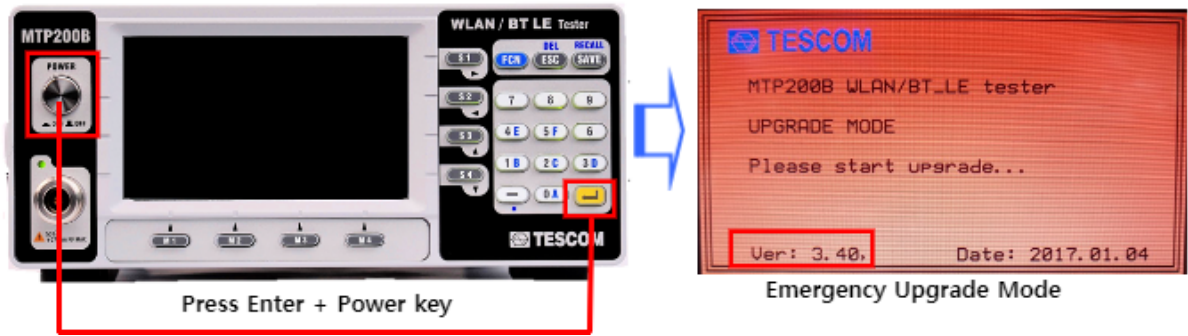
② H/W Setting

1. USB cable between the USB port on the rear side of MTP200B using the provided USB cable to the USB port of the PC.
2. MTP200B will be booted under Emergency upgrade mode when power button is pushed while the Enter key is pushed.

CAUTION

Execute firmware upgrade in emergency upgrade Mode

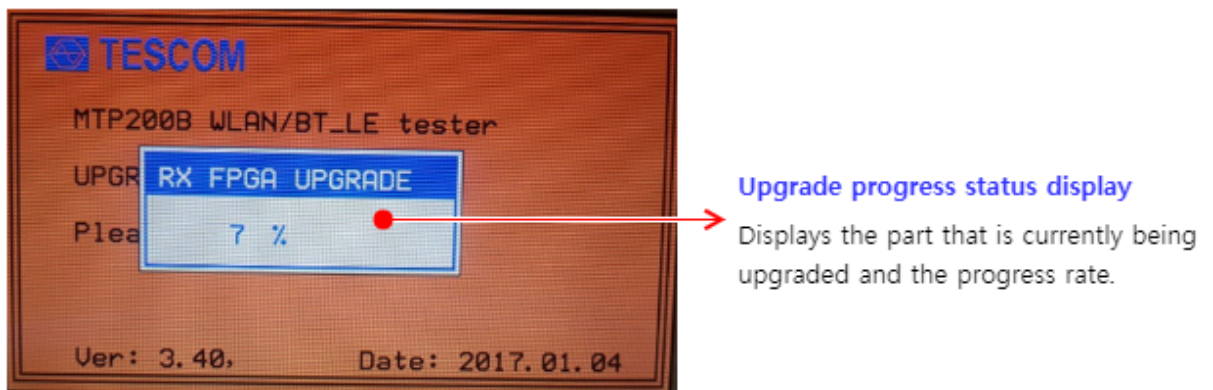




3. Check for the COM Port (Refer to the [USB Driver Installation](#))

3 Firmware upgrade execution

1. Run " MTP200AB_Downloader_v3.42.exe " as the firmware upgrade program of MTP200B. The following screen will appear upon automatic upgrade:
2. During the upgrade, the progress shall be displayed on the MTP200B GUI screen.



3. Once downloading is completed, turn off MTP200B and disconnect the cable. Afterward, turn on MTP200B. The new firmware version and date will be displayed on the start screen.

NOTICE

Confirmation of MTP200B's firmware is available at INFO menu.

[INFO](#) → [VIEW](#)

- * SERIAL_NO: Product serial number
- * SW_VERSION: Firmware version
- * DATE: The date of firmware updated
- * OPTION: Information of options



In case downloading fails, try again by referring to [Emergency Upgrade](#)

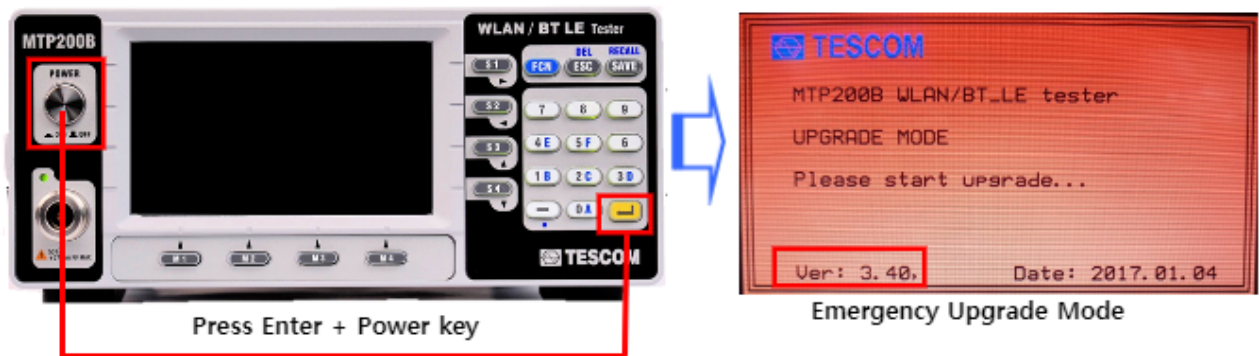
부록 A.

Emergency Upgrade

A.1 Emergency Upgrade

In case an error occurs during firmware upgrade, try again as shown below.

1. MTP200B will be booted under Emergency upgrade mode when power button is pushed while the Enter key is pushed.



2. Perform upgrade in sequence same as [MTP200B Firmware Upgrade Sequence](#)
3. After upgrade is completed, reboot MTP200B.