CDC-ACM Driver for Windows Installation Guide

Version 1.00

For use with CDC-ACM Class Driver Versions 1.0 and above
# Table of Contents

System Overview .................................................. 3
Introduction ......................................................... 3
Disclaimer .............................................................. 3
About HCC Embedded ............................................. 3
Getting Help .......................................................... 3
Procedures ............................................................ 4
Windows XP .......................................................... 4
Windows 7 ............................................................ 9
Windows 8 ........................................................... 15
Windows 8 Alternative Method ................................ 20
1 System Overview

1.1 Introduction

This guide describes how to install the HCC Communications Device Class - Abstract Control Model subclass (CDC-ACM) driver.

It is for those who want to install the CDC-ACM driver on a Windows system. It covers the following Windows releases:

- Windows XP.
- Windows 7.
- Windows 8. Two methods of installing on Windows 8 are described.

1.2 Disclaimer

Although every attempt has been made to make the system as simple to use as possible, developers must understand fully the requirements of the systems they are designing in order to get the best practical benefit from the system. HCC Embedded has made strenuous efforts to test and verify the correctness of its products, but it remains the sole responsibility of the user to ensure that these products meet the developer’s requirements.

1.3 About HCC Embedded

HCC Embedded has been supplying professional middleware to the embedded industry for more than a decade. Our software is ‘white labeled’ by many of the industry’s leading RTOS companies and is deployed in thousands of successful and innovative applications.

HCC Embedded is focused entirely on embedded communications and storage. In order to effectively deploy our software, we have created an advanced embedded framework that enables our software to easily drop into any environment, regardless of processor, tools or RTOS.

1.4 Getting Help

HCC Embedded has a dedicated development team with vast experience of developing embedded systems. HCC Embedded is always interested in porting or developing its systems for new environments.

Technical questions can be directed to support@hcc-embedded.com.

For custom development work or porting, please contact sales@hcc-embedded.com.
2 Procedures

This section describes how to install the driver for each Windows release.

2.1 Windows XP

This section describes how to install the CDC-ACM driver on a Windows XP system. Do the following:

1. Plug in the device.
2. The Found New Hardware Wizard shown below appears.

![Found New Hardware Wizard]

Welcome to the Found New Hardware Wizard

Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).

Read our privacy policy

Can Windows connect to Windows Update to search for software?

- Yes, this time only
- Yes, now and every time I connect a device
- No, not this time

Click Next to continue.
3. Select *No, not this time* and click *Next*. The wizard prompts you as shown below.

![Found New Hardware Wizard](image)

This wizard helps you install software for:

**CDC Device**

† If your hardware came with an installation CD or floppy disk, insert it now.

What do you want the wizard to do?

- [ ] Install the software automatically (Recommended)
- [x] Install from a list or specific location (Advanced)

Click Next to continue.

4. Select *Install from a list or specific location* and click *Next*. The options shown below are displayed.

![Found New Hardware Wizard](image)

**Please choose your search and installation options.**

- [ ] Search for the best driver in these locations
  - Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.

  - [ ] Search removable media (floppy, CD-ROM...)
  - [ ] Include this location in the search: 
    - Location: 
    - [ ] Browse

- [ ] Don’t search. I will choose the device to install
  - Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.

5. To use the Search facility, select *Search for the driver in these locations* and click *Browse*. If you find the driver, click *Next*. You can now skip to Step 10; otherwise, proceed with steps 6 to 9.
6. Select *Don't search. I will choose the driver to install* and click **Next**. The dialog shown below is displayed.

![Found New Hardware Wizard](image1)

7. Click **Have Disk** and browse for the driver on the disk. The **Locate File** dialog shown below appears.

![Locate File](image2)

8. Select the file **usb_cdc_ser.inf** and click **Open**.
9. The dialog shown below is displayed for a second time. Select *CDC Device* and click **Next**.

![Found New Hardware Wizard dialog](image)

10. The warning dialog shown below appears:

![Hardware Installation dialog](image)

The software you are installing for this hardware:

**CDC Device**

has not passed Windows Logo testing to verify its compatibility with Windows XP. ([Tell me why this testing is important](#))

Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.

---

Choose either **Continue Anyway** or **STOP Installation**.
11. Click **Continue Anyway**. If everything is OK, the following window appears. Click **Finish**.

12. Check the **Device Manager**. The device should now appear without any warning against it, as shown here:
2.2 Windows 7

This section describes how to install the CDC-ACM driver on a Windows 7 system. Do the following:

1. Plug in the device. The icon shown below appears in the bottom right-hand corner of the screen:

   ![Installing device driver software](image)

   Windows tries to install the driver for the device, but will fail to do this.

2. Open the **Device Manager** and find the CDC device under *Other devices*. It should have a yellow warning icon against it, as shown below:
3. Right-click on **CDC-Echo demo device** and select *Update driver software*. This displays the following dialog:

![Update Driver Software Dialog](image1)

4. Select *Browse my computer for driver software*. This displays the following dialog:

![Browse for Driver Software Dialog](image2)

5. Browse for the driver folder. If you find the driver folder successfully, click **Next**. You can now skip to Step 10; otherwise, proceed with steps 6 to 9.
6. Select *Let me pick from a list of device drivers*... and click **Next**. This displays the following list:

![Device list dialog](image)

7. Select *Show all devices* and click **Next**. This displays the **Update Driver Software** dialog:

![Driver update dialog](image)
8. Click **Have disk**. This opens the **Locate File** dialog shown below. Browse for the INF file (\`\`usb_cdc_ser.inf\`) and click **Open**, then **OK**.

9. The **Update Driver Software** dialog is displayed again. Select **CDC Device** and click **Next**.
10. If the following window appears, click *Install this driver software anyway*.

![Image of security warning]

11. If the installation succeeds, the following dialog appears. Click *Close*.

![Image of successful installation dialog]
12. Check the **Device Manager**. The device should now appear without any warning against it, as shown below:
2.3 Windows 8

This section describes how to install the CDC-ACM driver on a Windows 8 system. Do the following:

1. Plug in the device.
2. Open the **Device Manager** and find the CDC device under *Other devices*. It should have a yellow warning icon against it, as shown below:

![Device Manager Screenshot](image)

3. Right-click **CDC-Echo demo device** and select *Update driver software*. This displays the following dialog:

![Update Driver Software Dialog](image)
4. Select *Browse my computer for driver software*. This displays the following dialog:

![Driver Software Dialog]

5. Browse for the driver folder. If you find the driver folder successfully, click **Next**. You can now skip to step 10; otherwise, proceed with steps 6 to 9.

6. Select *Let me pick from a list of device drivers...* and click **Next**. This displays the following list:
7. Select *Show All Devices* and click **Next**. This displays the **Update Driver Software** dialog:

![Update Driver Software dialog](image)

8. Click **Have Disk**. This opens the **Locate File** dialog shown below. Browse for the INF file (`usb_cdc_ser.inf`) and click **Open**, then **OK**.

![Locate File dialog](image)
9. The **Update Driver Software** dialog is displayed again. Select *CDC Device* and click **Next**.

![Update Driver Software](image)

10. If the following window appears, click *Install this driver software anyway*.

![Windows Security](image)
11. If the installation succeeds, the following dialog should appear. Click Close.

Note: If something went wrong, or Windows could not install the driver because of a missing verified digital sign, please try the alternative method.

12. Check the Device Manager. The device should now appear without any warning against it, as shown below:
2.4 Windows 8 Alternative Method

This section describes what to do on a Windows 8 system if the standard method described in the previous section fails. Do the following:

1. Move the cursor to the bottom right-hand corner of the screen until the sidebar appears, as shown below.

2. Click **Settings**. This displays the **Settings** options shown below.
3. Click **Change PC settings**. This displays the settings menu as shown below:

![Change PC settings](image1)

4. Click **General** and in the options scroll down to **Advanced startup**. Click **Restart Now** to display this dialog:

![Restart Now](image2)

5. Click **Troubleshoot** to display the following dialog:

![Troubleshoot](image3)

6. Click **Advanced options** to display the following dialog:

![Advanced options](image4)
7. Click **Startup Settings**. The settings appear as shown below:

![Windows Startup Settings](image)

8. Click **Restart**. The PC will reboot.

9. In the **Startup Settings** window shown below, select **7) Disable driver signature enforcement**. (Press key 7 on the keyboard.)

![Startup Settings](image)

10. After Windows restarts, follow the standard method described in the **Windows 8** section.