

## Scope

This document describes how to test USB composite device MSD\_CDC example.

## Preparation

### Host

Personal computer running Windows Xp or Windows 7.

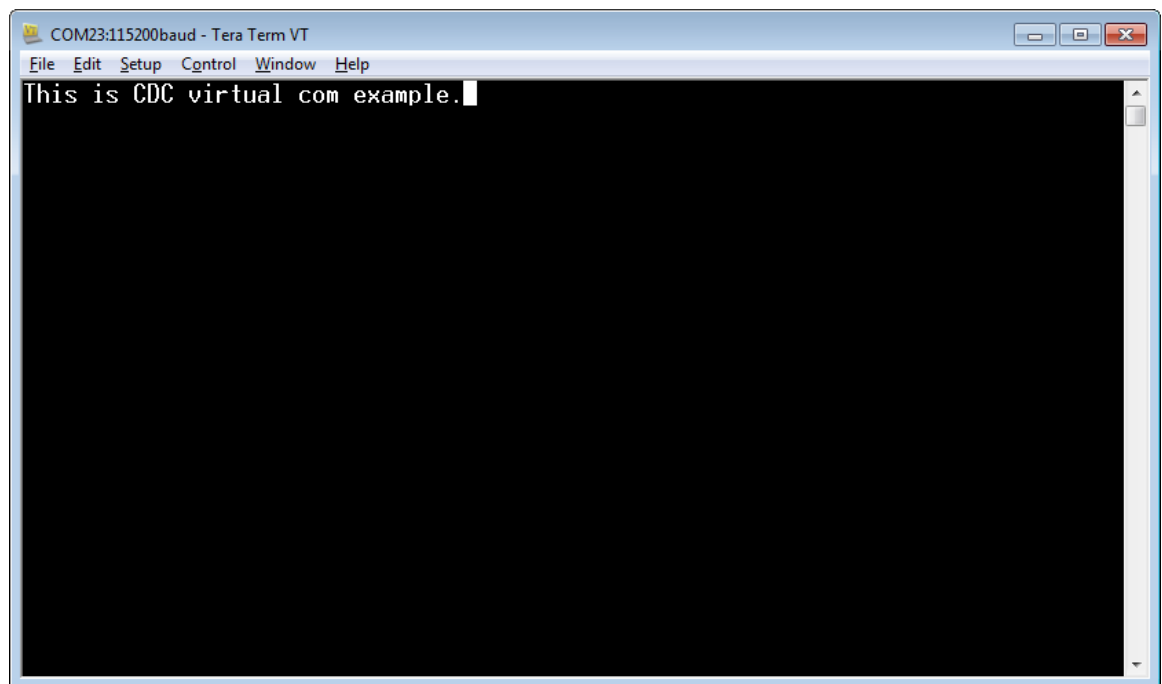
### Device

A board, i.e. twrk70f120m, which is running dev\_msd\_cdc example.

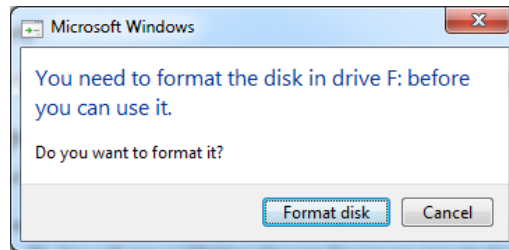
## Steps

Follow the steps to run the MSD\_CDC demo.

1. Plug-in the CDC device which is running dev\_msd\_cdc example into PC. You will see a COM port and see a USB Mass Storage Device enumerated in Device Manager. If it prompts for CDC driver installation. Refer to the next section to see how to install CDC driver.
2. Open the COM port in a terminal tool, i.e. Tera Term.
3. Type some characters and you can see them echoed back from the COM port.



4. The Windows will prompt you to format the u disk



When the format is completed, the computer will display the capacity of 10k removable disk.



5. Then you can do any operation, just like as a u-disk.

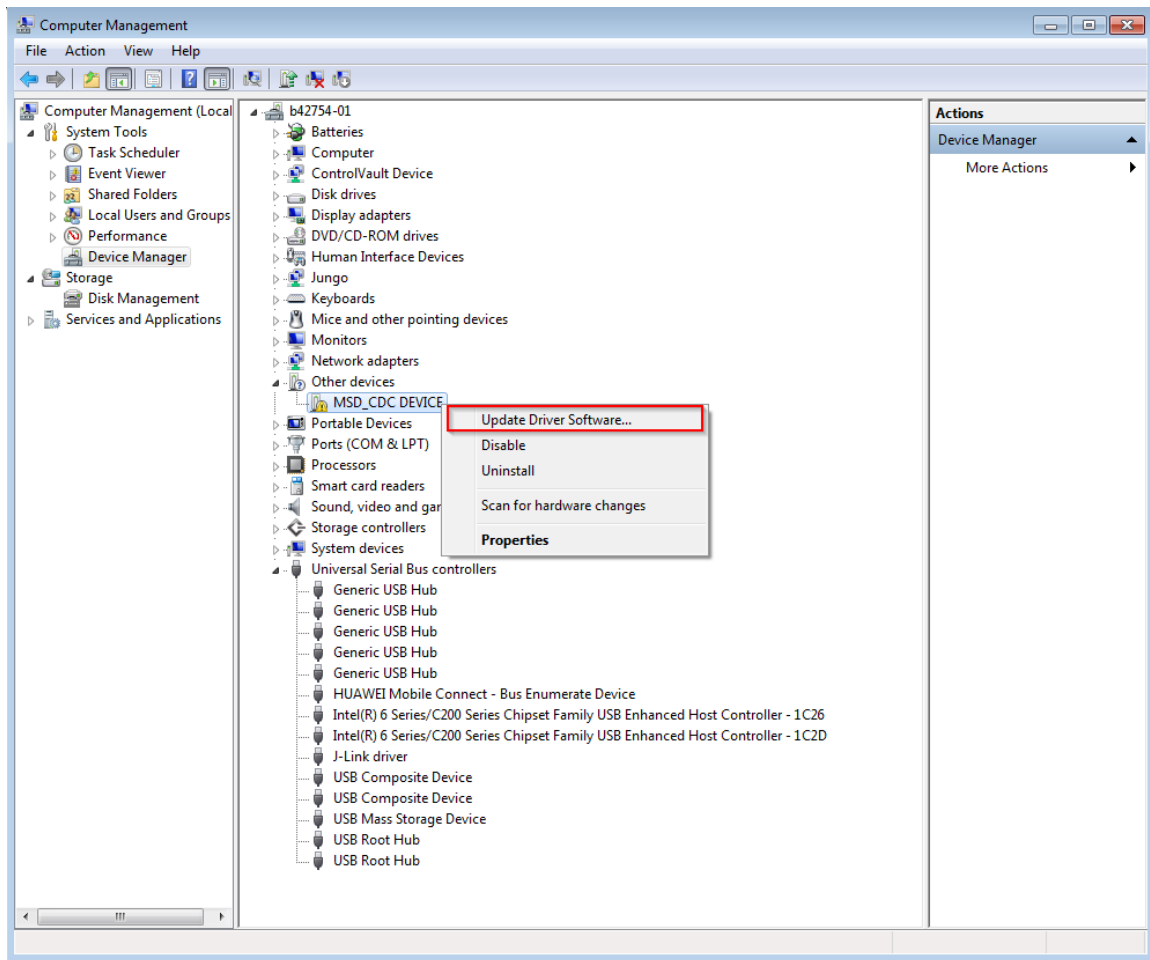
Note:

1. Since there is no dynamic detection between host and device, the COM port must be closed from the terminal tool prior to plug-out the CDC device. Or the CDC device won't get recognized next time you plug-in with the COM port still opened.
2. The ram disk and SD disk function can't be enabled in the same time.
3. Mac system default will create .fsevents ,.Trashes folder and some other files if we format the disk on MAC. The total files size is about 8K. We need increase the RAM size at least to 32K if USB mass storage example running on MAC. Please change the MACRO TOTAL\_LOGICAL\_ADDRESS\_BLOCKS\_NORMAL in disk.h from 48 to 64.

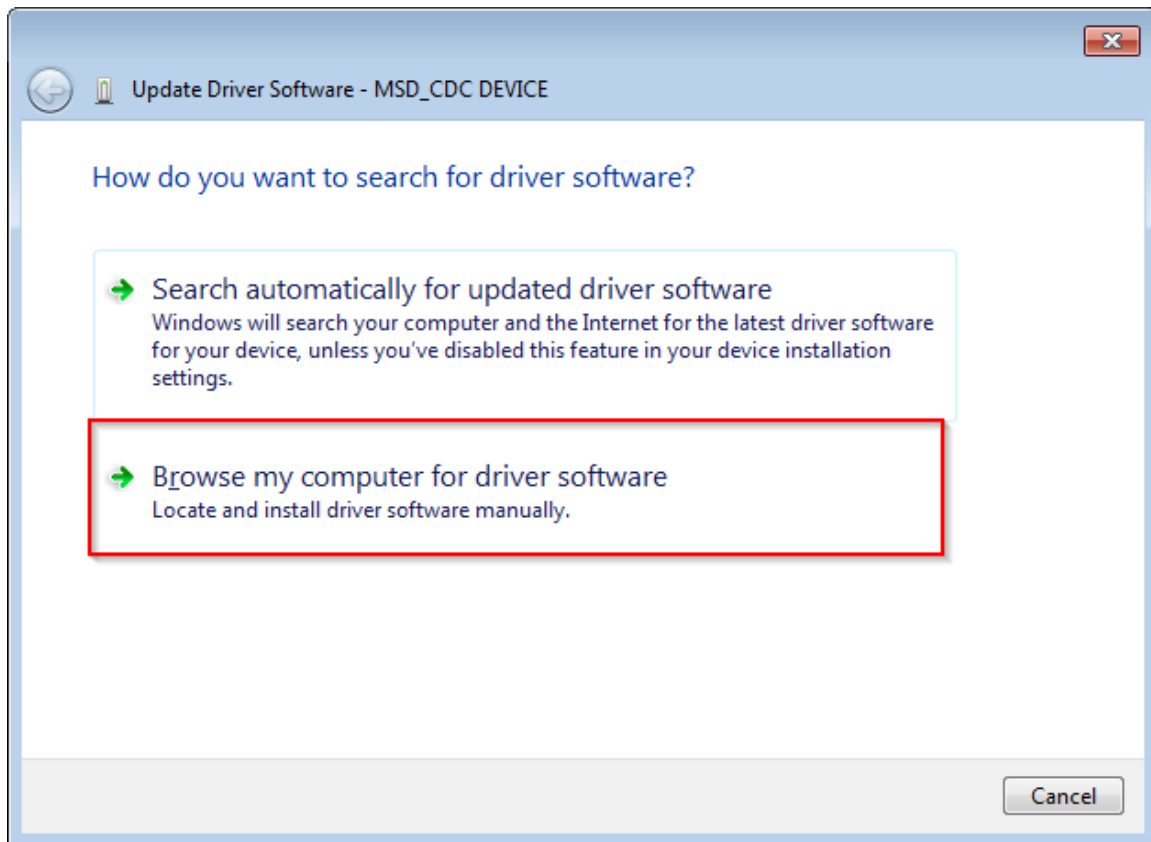
# How to install CDC driver for virtual\_com and msd\_cdc composite example

Below are the steps to install CDC driver on Windows 7, while on Windows XP the similar way apply.

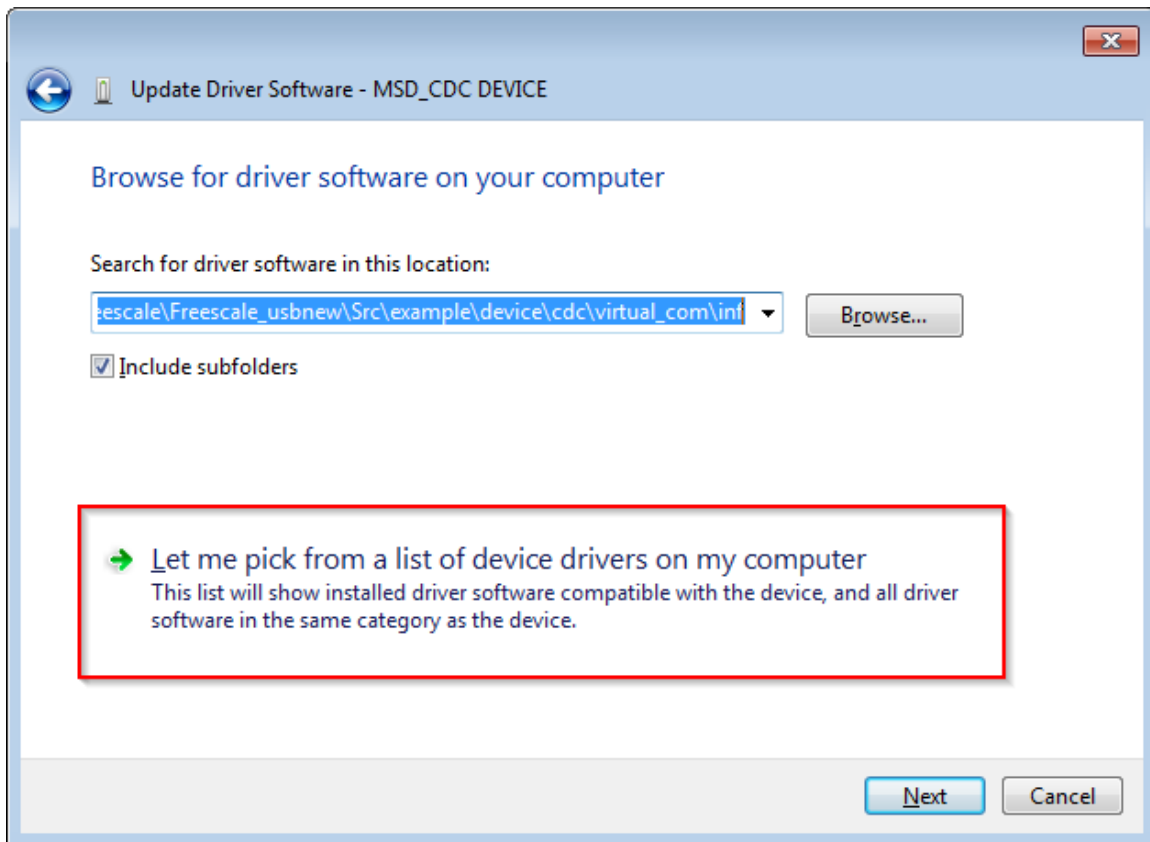
## Step 1. Click “Update Driver Software...”



## Step 2. Choose “Browse...”

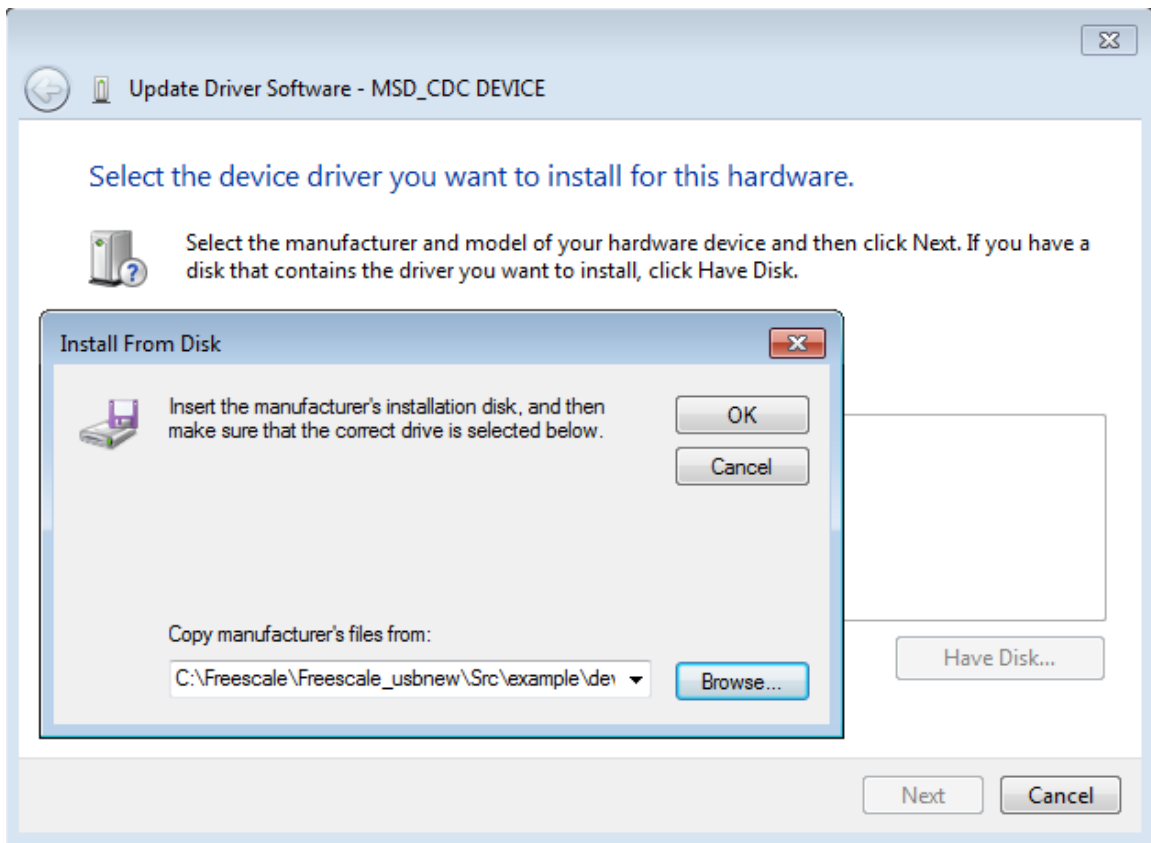


### Step 3. Select “Let me pick...”

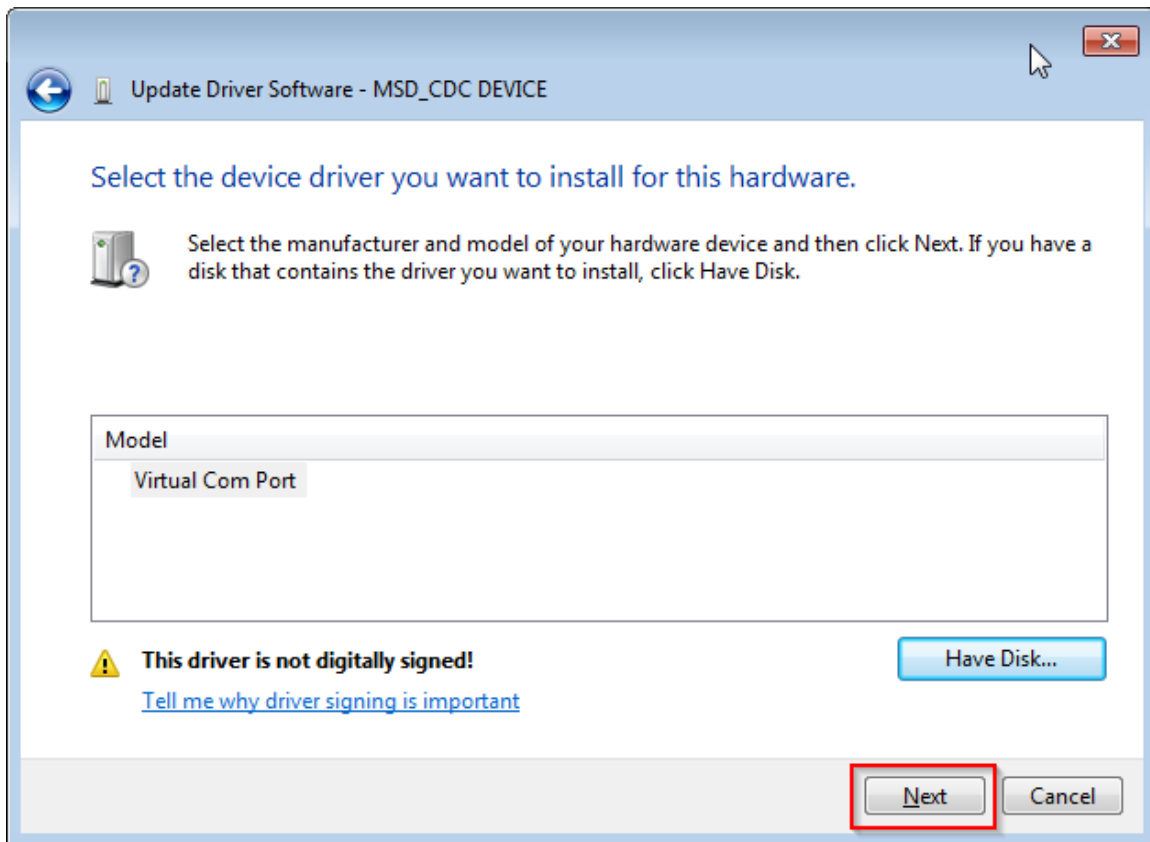


### Step 4. Navigate to your CDC driver location.

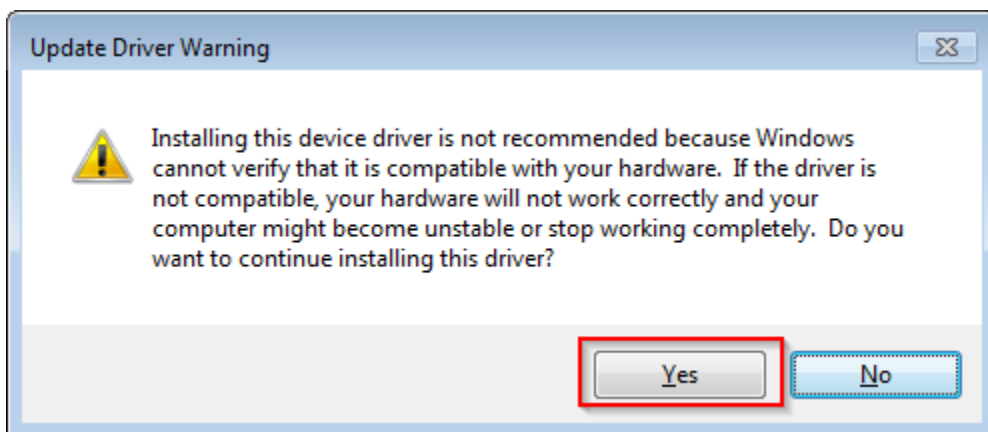
<install\_dir>\<usb\_root\_dir>\example\device\cdc\virtual\_com\inf



### Step 5. Press “Next”.



### Step 6. Ignore the warning and press “Yes”.



Step 7. Now the CDC driver should have been installed successfully.

