

**JTAGjet**

series

SIGNUM SYSTEMS CORPORATION

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USB 2.0 Driver for JTAGjet and ADM51

# Installation Instructions

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## Introduction

*This booklet describes the process of installing the Signum Systems JTAGjet and ADM51 emulators with a USB 2.0 High Speed port.*

**T**hank you for using the Signum Systems emulators. With a communication port fully compatible with the high-throughput USB 2.0 specification, Signum in-circuit emulators enable you to develop embedded microprocessor based systems faster and more reliably. Please follow the guidelines in this manual to get the JTAGjet or ADM51 emulator up and working in no time, and enjoy the speed, dependability and convenience of Signum embedded development tools.

**Note:** Whenever the remainder of this booklet refers to the JTAGjet emulator, the text is fully applicable to the ADM51 emulator as well.

The emulator installation process should begin with determining the version of the Windows OS running on your computer. This manual details installation procedures for

- Windows XP (32-bit and 64-bit)
- Windows 2000
- Windows 98SE and Windows ME

For technical assistance and for more information about Signum's USB-based products, visit us at [www.signum.com](http://www.signum.com).

## System Requirements

- PC-compatible computer with a USB host controller. (The USB 2.0 controller is recommended due to its efficiency.)
- Windows XP, 2000, ME or 98SE operating system.

**Note 1:** USB drivers for the JTAGjet emulator, SigUSB.sys, sigUSB64.sys and SigUSB98.sys, as well as the driver information files SigUSB.inf and SigUSB64.inf are found on the installation CD in the CD root and \Drivers\USB folders. During the installation process, these files are copied over to the \Drivers subfolder of your installation folder. When prompted by the “Found New Hardware Wizard” to specify the location of the USB driver, select any of these locations.

**Note 2:** To get the best performance from your JTAGjet with USB 2.0 interface, make sure that your PC has at least one USB 2.0 port.

Working with USB 1.10 will be 40 times slower than with USB 2.0 and may feel uncomfortable during debugging.

If your computer does not have a USB 2.0 port—many older PCs came with USB 1.10—please make sure to upgrade it by buying either a USB 2.0 PCI card (for desktops) or USB 2.0 PCMCIA card (for notebooks). These cards are available at any PC retailer for less than \$50.

## Installation Procedure for Windows XP (32-bit and 64-bit versions)

- ▶ To install the JTAGjet emulator on an MS Windows XP system:
  1. Plug the USB cable connected to your host computer into the USB connector of the JTAGjet emulator.
  2. Windows XP recognizes the emulator as “JTAGjet” and the “Found New Hardware Wizard” dialog box appears. Select the “Install from a list or specific location” option and click “Next,” as shown in Figure 1.




FIGURE 1 The “Found New Hardware Wizard” opening dialog box.

3. Select the “Search for the best driver in these locations” and “Include this location in the search” options. Uncheck all other check boxes. Use the “Browse” button to navigate to the folder with the USB drivers, and then click “Next.”.
4. The “Found New Hardware Wizard” informs you that it is about to install the “Signum Systems JTAGjet Emulator.” If the operating system warns you that the driver for the device failed the Windows Logo test, please press the “Continue Anyway” button and proceed with the installation.

5. The “Found New Hardware Wizard” starts copying the driver files to the appropriate system folders.
6. When Windows XP notifies you that it has completed installing the drivers for the “Signum Systems JTAGjet Emulator”, click “Finish.”

## Verifying Proper Installation for Windows XP (32-bit and 64-bit)

- ▶ To verify that the JTAGjet emulator has been correctly installed on an MS Windows XP system:
  1. Right click on the “My Computer” desktop icon. (“My Computer” is also available from the Start Menu.) Select “Properties.”
  2. The “System Properties” window appears. Select the “Hardware” tab.
  3. Click the “Device Manager” button. The “Device Manager” dialog box opens.
  4. Click on the  symbol next to “Signum Systems USB Emulators” to expand the Device Manager list. Verify that the list contains “Signum Systems JTAGjet Emulator” or “Signum Systems ADM51 Emulator” (Figure 2).

**Note:** Older versions of the USB driver install Signum emulators in the “Universal Serial Bus controllers” device category. If you cannot see “Signum Systems JTAGjet Emulator,” then verify installation by expanding “Universal Serial Bus controllers.”



FIGURE 2 Properly installed JTAGjet emulator listed in Device Manager.

## Installation Procedure for Windows 2000


- ▶ To install the JTAGjet emulator on an MS Windows 2000 system:
  1. Plug the USB cable connected to your host computer into the USB connector of the JTAGjet emulator.
  2. Windows 2000 recognizes the device as “JTAGjet” and opens the “Found New Hardware Wizard” dialog box. Click “Next.”
  3. Select the “Search for a suitable driver for my device” option and click “Next,” as shown in Figure 3.



FIGURE 3 Installing the JTAGjet emulator under Windows 2000.

4. Select “Specify a location” and uncheck all other check boxes. Click “Next.”
5. The “Found New Hardware Wizard” dialog box appears. Use the “Browse” button to navigate to the folder with the USB drivers. The selected folder name appears in the “Copy manufacturer’s files from” text box. Click “OK” to close the “Found New Hardware Wizard” dialog box.
6. When the “Found New Hardware Wizard” reports finding a driver for the “JTAGjet” device, click “Next.”
7. Windows XP notifies you that it has completed installing the drivers for the “Signum Systems JTAGjet Emulator”. Click “Finish.”

## Verifying Proper Installation for Windows 2000

- ▶ To verify that the JTAGjet emulator has been correctly installed on your MS Windows 2000 system:
  1. Right-click on the “My Computer” desktop icon and select “Properties.”
  2. The “System Properties” window appears. Select the “Hardware” tab.
  3. Click the “Device Manager” button.
  4. Click on the  symbol next to “Signum Systems USB Emulators” to expand the Device Manager list. Verify that the list contains “Signum Systems JTAGjet Emulator” or “Signum Systems ADM51 Emulator” (Figure 4).

**Note:** Older versions of the USB driver install Signum emulators in the “Universal Serial Bus controllers” device category. If you cannot see “Signum Systems JTAGjet Emulator,” then verify installation by expanding “Universal Serial Bus controllers.”



FIGURE 4 Properly installed JTAGjet and emulator listed in Device Manager.

# Installation Procedure for Windows 98SE and ME

- ▶ To install the JTAGjet emulator on a Windows 98SE or Windows ME system:
  1. Plug the USB cable connected to your host computer into the USB connector of the JTAGjet emulator.
  2. Windows 98 recognizes the device as “JTAGjet” or “USB 2.0 Device” and displays the “Add New Hardware Wizard” dialog box. Click “Next.”
  3. Select the “Search for the best driver for your device” option and click “Next,” as shown in Figure 5.




FIGURE 5 Beginning a search for the USB driver.

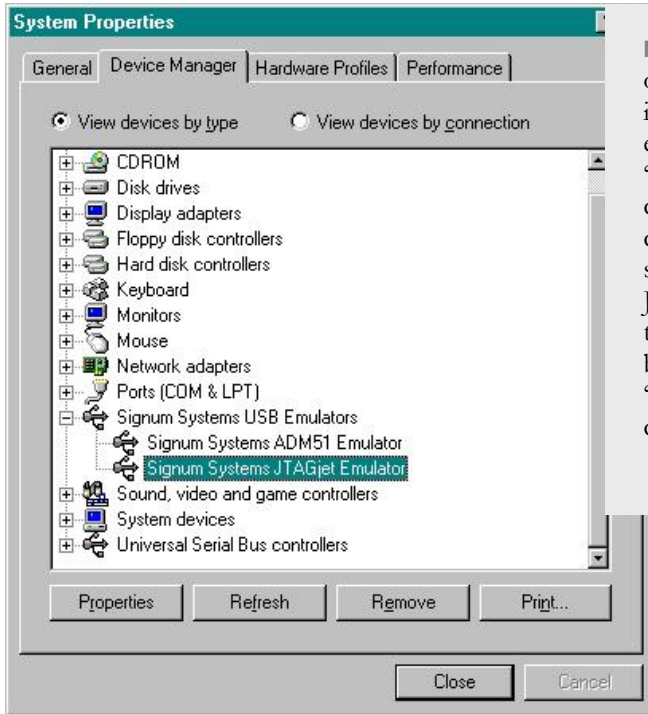
4. Select “Specify a location” and uncheck all other check boxes. Use the “Browse” button to navigate to the folder with the driver files, and then click “Next.”

5. The “Add New Hardware Wizard” informs you that it is about to install the “Signum Systems JTAGjet Emulator.” Click “Next.”
6. When Windows 98 notifies you that it has completed installing the drivers for the “Signum Systems JTAGjet Emulator,” click “Finish.”

## Verifying Proper Installation for Windows 98 and ME

- ▶ To verify that the JTAGjet emulator has been correctly installed on an MS Windows 98 or ME system:
  1. Right-click on the “My Computer” desktop icon and select “Properties.”
  2. The “System Properties” window appears. Select the “Device Manager” tab.
  3. Click on the  symbol next to “Signum Systems USB Emulators” to expand the Device Manager list. Verify that the list contains “Signum Systems JTAGjet Emulator” or “Signum Systems ADM51 Emulator” (Figure 6).

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**Note:** Older versions of the USB driver install Signum emulators in the “Universal Serial Bus controllers” device category. If you cannot see “Signum Systems JTAGjet Emulator,” then verify installation by expanding “Universal Serial Bus controllers.”

FIGURE 6 Properly installed JTAGjet emulator listed in Device Manager.

