# **TUSB926x SpeedBoost Monitor User's Guide**

# **User's Guide**



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### Introduction

This document will serve as a user's manual for the TUSB9260 SpeedBoost Monitor GUI. It provides details on using the SpeedBoost Monitor software used with TUSB9260 based devices. The software is a Windows-based tool that provides a fast and friendly way for installing the SpeedBoost Driver to TUSB9260 based device. User can select between different types of settings for performing the installation depending on user's needs.

The term 'SB' is equivalent to 'SpeedBoost'.

#### 1 Definitions

The following are useful definitions for your reference:

- GUI Graphical user interface
- SW Software
- VID Vendor ID
- PID Product ID

#### 2 Required Equipment

The following is required in order to use the SB Monitor software:

- TUSB9260/TUSB9261 based device with the latest firmware
- Hard drive attached to the TUSB9260/TUSB9261 based device
- USB interface cable (Type A connector to Type B connector)
- PC running Windows XP<sup>™</sup>, Windows Vista<sup>™</sup> or Windows 7<sup>™</sup> (32-bit or 64-bit OS)
- USB 3.0 host already present in your system

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## Installing the SB Monitor Software

#### 1 Running the Setup Program

Extract the setup program on a directory of your choice. Run the "9260\_SpeedBoost-Monitor\_Setup.exe" file and let the "Installshield Wizard" guide you through the installation process.

The SB Monitor GUI needs MS .NET Framework 3.5 as a pre-requisite in order to work properly. The installer will guide you through this process in case such .NET framework version is not installed on your machine. Ensure that you have a proper internet connection since the installation will be performed through a web download directly from the MS site (see Figure 1).

0289200	SpeedBoost Monitor - InstallShield Wizard
3	TUSB9260 SpeedBoost Monitor requires the following items to be installed on your computer. Click Install to begin installing these requirements.
Status	Requirement
Pending	g Microsoft .NET Framework 3.5 (Web Download)
1	

Figure 1. .NET Framework 3.5 Installation

After the .NET validation has finished, the installer will copy the necessary files to your local disk into the 'Program Files' directory.

Once necessary files have been copied into your system, the installer will give you the option to "Restart" the system in order to properly update the files.

It is highly recommended to choose "Yes, I want to restart my computer now." and Click "Finish" when the installer wizard indicates that the SB Monitor software installation has been completed (see Figure 2).





Figure 2. Software Installation Completed



### Using the SB Monitor software

#### 1 Opening the SpeedBoost Monitor Software

**NOTE:** For Windows Vista/Windows 7 64-bit OS, you must press F8 during the machine's initial boot process and disable the "Driver Signature Enforcement" option from the advanced boot menu. This will allow you to install an unsigned driver and this way you won't face any installation troubles when installing the 'SpeedBoost Driver' to your device.

You can access the SB Monitor application by clicking on the "SpeedBoost Monitor" shortcut added on your desktop or by going to "Start  $\rightarrow$  Texas Instruments Inc  $\rightarrow$  TUSB9260 SpeedBoost Monitor  $\rightarrow$  SpeedBoost Monitor" (see Figure 3).



Figure 3. SpeedBoost Monitor Software Locations

**NOTE:** If you are running SB Monitor under a Windows Vista/Windows 7 platform and depending on your 'User Account Control Settings' you may be prompted with a window asking that if you want to allow the program to make changes to your computer. Please click Yes/Allow.

After executing the TUSB9260 SpeedBoost Monitor application, the following icon will appear on your 'Task Bar's notification area' (see Figure 4):



Figure 4. SpeedBoost Monitor Task Bar Icon



#### 2 SB Monitor List Menu

If you click on the SB Monitor Icon located at the 'notification area' of your 'task bar', a menu will pop up. This is the SB Monitor Item Menu.

There are two menu items that will appear always in the menu regardless of the SB Monitor compatible devices in your system: 'Close' and 'Settings' (see the blue square in Figure 5). By clicking at the 'Close' item, the application will be terminated. The 'SB Monitor Settings Window' will be displayed by clicking at the 'Settings' menu item.

For every SB Monitor compatible device on your system, a menu item displaying your hard-drive's friendly name will appear. Below each disk menu item, users can also check the name of the volumes present on that disk (see the red square in Figure 5).



Figure 5. Item Menu of the SpeedBoost Monitor

### 3 SB Monitor Settings

The following section contains a brief description of the setting available through the 'SB Monitor Settings Window'.



Figure 6. SpeedBoost Monitor Settings Window



Installing the SB Driver

There are four options available through the SB Monitor Settings window:

- Run Speed Boost Monitor at startup (default setting: unchecked) If checked, SB Monitor will run always at Windows startup without the need to manually open the application.
- Automatically install the driver for all monitoring devices (default setting: checked) If checked, every time that the SB Monitor detects a compatible device, the SB Driver will be installed automatically without the need from the user to click at device on the menu item. Otherwise, users will need to manually check/un-check every SB compatible device in order to Install/Un-install the SB driver.
- Automatically install the driver on hard drive change (default setting: checked) If checked, if you had previously installed the SB Driver on a specific hard drive and you change the hard drive from your TUSB9260 device where the SB driver is not installedr, SB Monitor will automatically install the SB driver on your new hard drive.
- Ask for user confirmation (default setting: unchecked) If checked, before SB Monitor installs/un-installs the SB Driver to a device, a message box will appear asking for user's confirmation.

#### 4 Installing the SB Driver

**NOTE:** Only TUSB9260 based devices are recognized by SB Monitor; therefore, SB Driver can only be installed on them.

SB Driver can be installed into a compatible device either manually or automatically by SB Monitor depending on your settings.

If the driver is installed in your device, the background color of your hard-drive's name on the device's list will be green and you will also see a checkmark next to your hard-drive's name (see Figure 7). Otherwise, it means the SB driver is not yet installed on that device.

~	ATA SSDSA25H032G1GN USB Device	
-		
1	Settings	
	Close	

Figure 7. SpeedBoost Driver Installed on Your Hard Drive



#### 4.1 Installing/Uninstalling the Driver Manually

To be able to install/uninstall the SB Driver manually the 'Automatically install the driver for all monitoring devices' checkbox in the settings window needs to be unchecked.

To install/uninstall the driver manually you need to click on your hard-drive's name at the device's list. This will start the SB Driver Installation (see Figure 8).

and the second	
ATA SSDSA2SH032G1GN USB Device	2
- 22D [L:]	8.
Settings	1
Close	14
	ATA SSDSA2SH032G1GN USB Device - SSD (P) Settings Close

Figure 8. Click on Your Device Name on the Device's List

A pop-up balloon will appear indicating that the SB Driver installation is in progress. Please wait while a second pop-up balloon appears confirming that the SB Driver has been successfully installed before starting to use your device (see Figure 9).



Figure 9. Pop-Up Balloons

**NOTE:** If checkbox 'Ask for user confirmation' from the settings window is checked, a message box will appear asking confirmation before proceeding. Click 'Yes' to install/uninstall the driver.

### 4.2 Automatically Install the SB Driver

SB Monitor provides an option to automatically install the SB Driver on every compatible device on your system; this is without the need from the user to click on the hard-drive's name at the device's list (as we detailed above). This functionality is enabled by default.

To disable this functionality you have to go to the settings window and uncheck the 'Automatically install the driver on hard drive change' checkbox.

If you have this functionality enabled, a popup balloon will appear indicating that the SB Driver installation is in progress upon compatible device detection. Please wait for a second pop up balloon to appear confirming that the SB Driver has been successfully installed before starting to use your device.

**NOTE:** If checkbox 'Ask for user confirmation' from the settings window is checked, a message box will appear asking for your confirmation before proceeding. Click 'Yes' to install the driver.



Installing the SB Driver

#### www.ti.com

#### 4.3 Automatically Install the Driver on Hard Drive Change

When changing the hard-drive attached to your TUSB9260 based device, it's normal that the SB driver installation on your device gets lost. In order to fix this, you can enable the "Automatically install the driver on hard drive change" option.

By enabling this option, the SB Monitor will automatically install the SB driver on your hard drive if it determines that the SB driver was previously installed on that TUSB9260 based device.

To disable this functionality you have to go to the settings window and uncheck the 'Automatically install the driver on hard drive change' checkbox.

**NOTE:** If checkbox 'Ask for user confirmation' from the settings window is checked, a message box will appear asking for your confirmation before proceeding. Click 'Yes' to install the driver.



## Troubleshooting

### 1 TUSB9260/TUSB9261 Not Detected After Installing SB Driver

If you're running the SB Monitor under Windows Vista/Windows 7 (64 bits), remember to always disable the 'Driver Signature Enforcement' each time you start Windows. This issue is occurring because the SB Driver is not digitally signed by Windows.

In order to disable the 'Driver Signature Enforcement', you must press F8 during the machine's initial boot process and disable the "Driver Signature Enforcement" option from the advanced boot menu. This will allow you to install an unsigned driver.

### 2 Transfer Performance is Not Improved After Installing the SB Driver

Transfer performance depends on many factors like:

- Your USB host performance
- Internal bus performance (i.e. PCI/PCI Express)
- Your hard drive's performance

Regardless of these facts, there is some times where during the SB Driver installation your hard-drive was being used by another application, and so, the SB Monitor couldn't disable your device to properly instantiate the driver. If that is the case, please restart your system so the SB driver can work properly.

**NOTE:** If you're running the SB Monitor under Windows Vista/Windows 7 (64 bits), remember to always disable the 'Driver Signature Enforcement' each time you start Windows.

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