






README_1ST - SPIGen Software Instructions

Please take the time to read through these simple steps before trying to install and run either the SPIGen software or the USB/SPI boards.

Determine if you have SPIGen Software Installed and the version -

- Is the  icon on the desktop?
- ▶ **Yes ?**
 - ▶ If so, double-click on it to launch SPIGen.
 - ▶ When SPIGen window appears, look in upper left hand corner for version number. (5.0.x)
 - ▶ **No ?**
 - ▶ If there is no SPIGen icon on the desktop, click 
 - ▶ Click  Programs and look for SPIGen in the menu.
 - ▶ If it is there, click  SPIGen  Uninstall SPIGen
 - ▶ Otherwise, SPIGen is probably not installed.

If the installed version of SPIGen is not the latest version; which can be found at the SPIGen web page http://www.freescale.com/files/soft_dev_tools/software/device_drivers/SPIGen.html it should be removed (use uninstall SPIGen).

If SPIGen is not installed then we will proceed to install it.

To Install the most current SPIGen Software -

- 1) Download the SPIGen software .zip file contained on the SPIGen web page at http://www.freescale.com/files/soft_dev_tools/software/device_drivers/SPIGen.html
- 2) Inside the "SPIGen-XP-X.X.X.zip" file you will see three files:
 - a) README_1ST.pdf - The file you are reading now
 - b) README_Revision_History.pdf - The revision history
 - c) setupSPIGenXXX.exe - The latest SPIGen install file, version "XXX" on the web
- 3) Before connecting a USB/SPI Dongle or other USB/SPI board to the computer's USB port do the following:
 - a) Double click on the "setupSPIGenXXX.exe" file icon in this zip file to launch it.
 - b) Follow the on-screen directions to install the SPIGen program. There are five components of the installation that will be performed. They are:
 - 1) The SPIGen User Interface program, SPIGen.exe, a Visual Basic GUI.
This will be installed in the "C:\Program Files\SPIGen\" folder.

- 2) The Parallel Port driver library consisting of:
 - i) zntport.sys - parallel port device driver
 - ii) ntport.dll - dynamic link library interface to driver
 - iii) A parallel port driver install program
 - 3) The USB to SPI driver library consisting of:
 - i) spi_usbio.sys - spi to usb device driver
 - ii) spi_usbio.inf - install information file for driver
 - iii) usbiocom.dll - dynamic link library interface to driver
 - iv) installdll.bat - batch file to install usbiocom.dll
 - 4) A series of In-Circuit Programming files and utilities to allow reprogramming the USB/SPI boards via the USB port. These files are located in the "C:\Program Files\SPIGen\ICP Programming Application" folder. There is an instruction file in that directory.
 - 5) Miscellaneous support and help files required by Windows and Visual Basic. (.dll, .OCX, .hlp, .cnt, etc.)
- 4) If the installation is successful, the README_Revision_History.pdf file will be displayed. Once you have finished reading this document, close the window and the SPIGen program should launch. The main SPIGen window should appear.
- 5) Minimize this program and proceed with the hardware installation.

Troubleshooting Section

Problems Installing SPIGen -

If SPIGen does not install, it could be for a number of reasons.

- 1) You must be logged on to Windows as an administrator or have administrator privileges. Contact your IT specialist to obtain this security level or have the IT Specialist install it.
- 2) You may be trying to install over an older version of SPIGen. Use the Control Panel "Add or Remove Software" menu item to locate and remove any older versions of SPIGen that may be installed on your computer.
- 3) You may be running an older version of Windows. SPIGen X.X.X (latest web version) only supports Windows XP. It does NOT support Windows Vista or Windows 7.
- 4) If SPIGen installs but you get an error message "Run-time error '429' ActiveX component can't create object" when clicking on the "Use USB instead of Parallel Port" checkbox, then the usbiocom.dll has not been installed. Try running the installdll.bat file on the Install CD. If running the batch succeeds then try SPIGen again, if it doesn't succeed. make sure the usbiocom.dll file has been copied into the WINDOWS\system32 folder and the spi_usbio.sys driver has been installed by the

Hardware Wizard.

- 5) If SPIGen installs but when you click on the "Use USB instead of Parallel Port" checkbox the check symbol appears but then goes out, this indicates that the program cannot find the USB/SPI Hardware or the spi_usbio.sys driver has not been installed by the Hardware Wizard. Make sure the board is connected to an active USB port and that LED2 is illuminated. Try running the "Add new Hardware" menu item in the Windows Control panel, to reinstall the spi_usbio.sys driver. The spi_usbio.inf file contains the instructions for the Hardware Wizard and should be located in the \WINDOWS\Inf folder. (Please note: The \Inf folder may be hidden, you must select "Show hidden files and folders" in the My Computer..Tools..Folder Options...View file options menu to see it.

If you still have problems with the Software or Hardware please contact Freescale Technical Support via email. Please see the Freescale web site www.freescale.com for details.

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