



Keyboard & Mouse Driver for Windows95/98

1. Overview

This document provides installation instructions for a replacement driver which has been introduced to compensate for known bugs in the Keyboard and Mouse Controller. This ST Microelectronics Windows95/98 compatible Standard Keyboard driver is designed for use in the STPC Industrial and the STPC Atlas.

2. Keyboard Controller

The internal Keyboard Controller used on the Industrial EMB Evaluation Board and the Atlas Evaluation Board includes keyboard and mouse software routines that do not implement a feature that generally appears in other controllers. This then can cause a problem when used with software that assumes this feature to be implemented.

The feature in question is related to commands sent to the keyboard or to the mouse that are followed by data, using the following protocol: A command sent to the keyboard or to the mouse is acknowledged, after which data can then be sent to the device (which is also acknowledged).

In many controllers however, the data can be sent immediately after sending the command, without waiting for a command acknowledge. Because some keyboard or mouse software assumes this feature is implemented, it fails to send to the STPC controller the appropriate commands with the keyboard or mouse data.

The replacement driver will also correctly select Num Lock, Scroll Lock and Caps Lock (and illuminate the associated LED indicators) for the Windows 9x operating system.

3. Installing the STM Keyboard Driver

3.1 Windows95

- 1) From the Windows Control Panel, double-click on the System icon.
- 2) Choose the Device Manager and select the Keyboard device.
- 3) Click on Properties, select Driver and then select Change Driver.
- 4) Select Have Disk and enter the drive details.
- 5) Select the directory where the drivers are located (use Browse if required).
- 6) Select STKB9x.inf to install the STM Keyboard driver.
- 7) Windows will install the VKXD.386 driver into the system directory and will then update the system.ini file.
- 8) Restart the STPC when the installation is completed.

3.2 Windows98

- 1) From the Windows Control Panel, double-click on the System icon.
- 2) Choose the Device Manager, then Keyboard and select the Keyboard device.
- 3) Click on Properties, select Driver and then select Update Driver.
- 4) Select Next and then select Search for a better driver (recommended).
- 5) Select Next and then enter the drive details.
- 6) Select STKB9x.inf to install the STM Keyboard driver.
- 7) Windows will install the VKXD.386 driver into the system directory and will then update the system.ini file.
- 8) Restart the STPC when the installation is completed.

4. Technical Support

STMicroelectronics is on the Internet with a worldwide web (WWW) site on which product presentation, technical literature and product support information can be found.

A dedicated STPC section is available providing up-to-date hardware documentation and software tools. The Web address is:

WWW: <http://www.st.com/stpc>

5. Update History

This is the first issue.

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