



WINDOWS DRIVER INSTALLATION INSTRUCTIONS FOR ATG 122-KEY KEYBOARDS

April 11, 2017

INTRODUCTION

The Affirmative 122-key keyboards provide the standard keys of a 101/102-key PC keyboard, along with built-in terminal functions provided by the extra keys, making it easier for you to work with your IBM host applications. To use the extra keys with your IBM host, you will need to install one of the driver software modules provided in this package.

ATG supports both the 5250 and the 3270 terminal layouts, with both the USB and PS/2 connections. Different drivers are required for each type of connection, and they are also dependent upon your PC Windows operating system. This driver software package contains three (dependent on your operating system) drivers for PS/2 connections and three for HID (USB) connections. These instructions will guide you to the proper software modules and the required installation procedures for your operating system.

Three driver packages for each connection type support the Windows Embedded Standard (XP 32-bit lite used on thin clients), Windows XP 32-bit, Windows Embedded Standard 7 (W7 32-bit lite used on thin clients) Windows 7 32-bit, and Windows 7 64-bit operating systems.

NOTE: The USB drivers can only be used with the Affirmative Technology Group family of 122-key 1229U keyboards intended for use with 3270 emulators and 122-key 1225U keyboards intended for use with 5250 emulators. They may appear to install with other USB keyboards, but will not function properly with them.

FILE EXTRACTION

Before installing the driver software, the files must be extracted from the provided **zip** file.

1. Many Email servers reject attached files with **.exe** extensions, so we no longer use self-extracting files. Therefore, to extract the driver files from the provided **.zip** file, you will need a zip utility such as WinZip or PKZip.
2. Using your zip utility, extract the driver files to the folder of your choice. Since you will not need these files after installation, you can conveniently use a Temp folder if you have one. After extraction, you should have four subfolders: **USB, PS/2, 3270 Maps, and 5250 Maps**. Within the **USB** and **PS/2** folders, you should have three subfolders: **Install_XP32, Install_W732, and Install_W764**.
3. Follow the installation steps described in one of the following pages.
4. After installation is completed, the extracted files may be deleted if desired

INSTALLATION

These drivers are not presented in installation packages which guide you through the installation process using a step-by-step wizard. You will have to use the basic installation procedures available via the OS Device Manager. But we will guide you through each step with these instructions; the steps differ slightly for each OS.

WINDOWS EMBEDDED STANDARD & XP 32-BIT

1. Plug in the Affirmative keyboard. If the keyboard is PS/2, you will have to restart your computer before advancing to step 2.
2. Left click on **Control Panel -> Device Manager -> Keyboards**.
3. Right click on the HID device (for USB keyboards) or the PS/2 device. If you are installing the ATG driver for the first time, the device titles will be the standard Windows titles. If you are upgrading an already-installed ATG driver, the titles will have an ATGI descriptor. If you do not see the expected driver title, reboot your computer and repeat from step 1.

4. Select **Update Driver Software...**
 - a. In Embedded Standard, select the radio button **No, not this time** and then click on **Next**.
5. Select the radio button **Install from a list...**
6. Click on **Next**.
7. Select the **Don't search...** radio button
8. Click on **Next**.
9. Click on **Have disk**.
10. Click on **Open** (Embedded Standard) or **Browse** (XP 32).
11. For XP 32, skip to step 15.
12. Left click on **Browse my computer for driver software**.
13. Then Left click on **Let me pick from a list...**
14. Left Click on **Have Disk...**
15. Browse to the **HID** or **PS/2** file folder pertinent to your keyboard type, and then to the **Install_XP32** subfolder.
16. Click on **Open**.
17. Click on **Next** or **OK**.
18. In the resulting **Model** field, you should see an entry for the ATGI keyboard.
Highlight this entry and click on **Next**.
19. In a few seconds, you should see a message about a successful installation. You will be told you need to reboot. Click on **Finish**. Make your reboot choice, but **YOU AREN'T DONE YET**.

This driver converts the scan code outputs of the 22 extra keyboard keys, unrecognizable to the Windows OS, to a set of rarely-used keystroke combinations that are recognized by the Windows OS. Therefore, your emulator must have a map file which maps the keystroke combinations to standard operations that interact with your iSeries or zSeries computer. At this time, we don't know where map files are stored in your emulator software, so you will have to do a manual installation of the appropriate map file. Affirmative has prepared maps for many of the popular emulators.

20. Open the **5250 Maps** (for the iSeries computer) or **3270 Maps** (for the zSeries computer) folder, as appropriate for your emulator, in your Step 1 installation folder. You must install the appropriate map file into the map file folder for your emulator. You can determine the path for that folder, after the emulator has been installed, by doing a Windows Explorer search for the appropriate file extension. The available maps and their associated emulators are listed here.

For 5250 emulators, you will find maps for the following emulators:

- Attachmate Rally! for AS/400--**acp122rl.ekm**
- BOS BOSaNOVA TCP/IP--**acp122bosUS.kbm**
- Connectronix WinTronix--**kb122ac.us**

- IBM AS/400 iAccess, Client Access, and Client Access Express--**5250us.kmp**
- IBM Personal Communications--**5250us.kmp**
- NetSoft/Elite midrange bundle--**acp122ns.5km**
- Synapse WinAPPC--**kb122ac.us**
- Wall Rumba Office--**acp122rm.map**
- WRQ Reflection for the AS/400--**acp122rf.map**

For 3270 emulators, you will find maps for the following emulators:

- Attachmate Extra! for Windows--**ac3270xt.ekm.**
- IBM Personal Communications for Windows--**3270us.kmp**
- Wall Data Rumba Mainframe Edition for Windows—**ac3270rm.map**
- WRQ Reflection for IBM--**ac3270rf.map**

If you wish to use the Affirmative keyboard with other emulators, you must develop your own keyboard map or contract with Affirmative Technology Group to develop a map for you. If you wish to develop your own map, contact Affirmative Technology Group to obtain mapping assignments for the 22 additional keys.

21. After moving the map file to the emulator subfolder, be sure to select that file in your emulator keyboard configuration.

WINDOWS 7 (ALL VERSIONS)

1. Plug in the Affirmative keyboard. If the keyboard is PS/2, you will have to restart your computer before advancing to step 2.
2. Left click on **Control Panel -> Device Manager -> Keyboards.**
3. Right click on the HID device (for USB keyboards) or the PS/2 device. If you are installing the ATG driver for the first time, the device titles will be the standard Windows titles. If you are upgrading an already-installed ATG driver, the titles will have an ATGI descriptor. If you do not see the expected driver title, reboot your computer and repeat from step 1.
4. Select **Update Driver Software...**
5. Select **Browse my computer...**
6. Browse to the **USB** or **PS/2** file folder pertinent to your keyboard type, and then to the **Install_W732** or **Install_W764** subfolder, depending upon your Windows version.
7. Click on **OK.**

8. Click on **Next**.
9. Click on **Install**.
10. Answer the Security question affirmatively.
11. In a few seconds, you should see a message about a successful installation. Click on **Close** but **YOU AREN'T DONE YET**.

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