

**HomeSeer Z-Wave
USB Installation Guide**
(ZU0100-001)



HomeSeer Technologies LLC

109 Powder Hill Rd

Bedford NH, 03110

www.homeseer.com



Description

Thank for your purchase of the HomeSeer Z-Wave USB interface! You are moments away from enjoying powerful PC control of your Z-Wave automation system!

The **ZU0100-001** is a Z-Wave compatible interface that allows HomeSeer to send and receive Z-Wave commands from Z-Wave compatible devices. A Z-Wave handheld remote is **required**. The remote must be used to learn all your Z-Wave devices first. This learned information is then transferred to HomeSeer using the USB interface and the HomeSeer application.

Important

Please read this document thoroughly before installing the interface. It contains important information that is needed to install the device properly.

Please read the FAQ section for answers to common questions about the Z-wave automation system. Reading this section will give you a good understanding on how the system operates.

Included with your package

The following is included with the ZU0100-001 package:

- 1 ZU0100-001 Z-Wave USB interface unit with attached USB cable
- 1 Users guide

Features

- Enables 2-way control of all Z-Wave compatible devices installed
- Connects via USB for easy installation
- Uses USB power, so no power adapter is required
- Learns Z-Wave device information from any Z-Wave handheld remote control
- 100 ft max range between interface and device. (range will vary depending on obstacles)
- Install drivers by selecting *Updates* from your HomeSeer *Help* menu.

Requirements

Before installing the interface, make sure you have the following:

- 1) HomeSeer version 1.6.177 or later.
- 2) A Z-Wave handheld remote is required in order to learn the locations of your Z-Wave devices.
- 3) A PC compatible computer with a free USB 1.1 or 2.0 port.
- 4) Supported operating systems are Windows XP, 2000, ME, 98SE
- 5) Your HomeSeer computer must be connected to the Internet to install the USB drivers.

Installation (Windows XP and 2000)

To install the ZU0100-001 USB interface, follow the procedure below:

- 1) Start HomeSeer
- 2) Select **Updates** from the HomeSeer **Help** menu
- 3) Select **HomeSeer Zwave USB Drivers**, then click the **Install** button. This will download and install the drivers to the folder **ZU0100_DRIVERS** in your HomeSeer folder
- 4) Now plug the Zwave USB interface into a free USB port
- 5) The **Found new hardware wizard** will start



- 6) Make sure Install **the software automatically** is selected, then click **Next >**
- 7) A dialog may display that indicates that the driver has not passed Windows logo testing. Click the **Continue Anyway** button.
- 8) The drivers will now install.
- 9) After the install has completed, it is recommended that you reboot your computer.

Installation (Windows 98SE)

To install the ZU0100-001 USB interface on Windows 98SE, follow the procedure below:

- 1) Start HomeSeer
- 2) Select **Updates** from the HomeSeer **Help** menu
- 3) Select **HomeSeer Zwave USB Drivers**, then click the **Install** button. This will download and install the drivers to the folder **ZU0100_DRIVERS** in your HomeSeer folder
- 4) Plug the USB cable from the interface into a free USB port on your PC
- 5) The **Add new hardware wizard** will start



6) Click **Next >**

7) The following dialog will display. Select **Search for the best driver for your device** Then click **Next >**



8) The following dialog will display asking you where to search for the driver. Select the **Specify a location** checkbox, then click the **Browse** button. Browse for the folder **ZU0100_DRIVERS**. This folder will be located in your HomeSeer folder, by default, this will be c:\program files\homeseer\ZU0100_DRIVERS. Then click **Next >**.

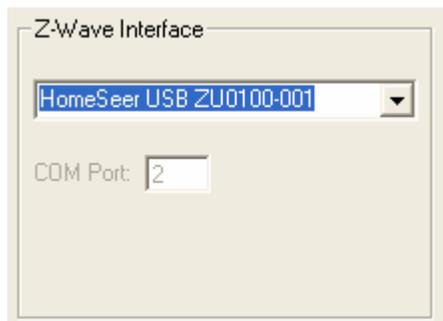


9) The drivers will then be installed. It is recommended that you reboot your system after installing the drivers.

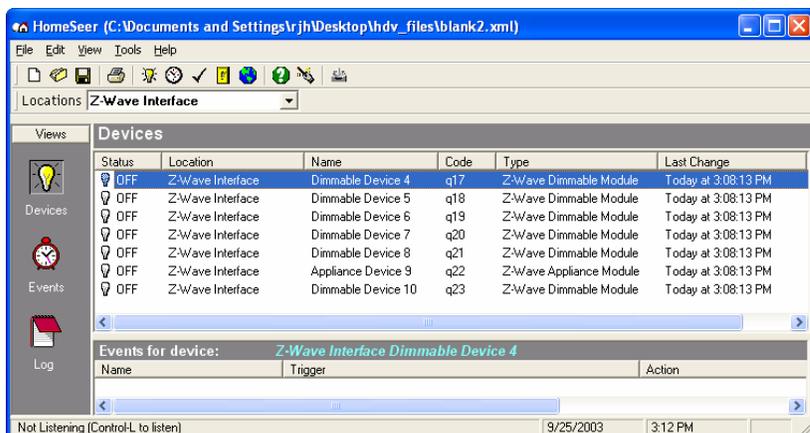
Operation

HomeSeer must be set up to use the USB interface. Follow these steps:

- 1) Start the HomeSeer application and select **Options** from the **View** menu.
- 2) Click on the **Interfaces** tab.
- 3) Under Z-Wave Interface select **HomeSeer USB ZU0100-001**



- 4) Click **OK** to close the options dialog and then restart HomeSeer.
- 5) When HomeSeer restarts it will initialize the interface and you will be ready to add your devices. If it cannot find the interface, it will display an error message.
- 6) To add devices to HomeSeer, you must first add the devices to the handheld remote control. Follow the instructions supplied with the remote to add all your Z-Wave devices. Make note of each device you add. For example, after adding a module that controls a lamp in your living room, write down the name and location of this module. Keep a record like:
 - 1) Living room -> lamp
 - 2) Den -> lights
 - 3) Kitchen -> lights
- 7) After adding all your devices to the remote, you can now transfer the devices into HomeSeer. Run HomeSeer and select **Z-Wave Config...** from the **View** menu.
- 8) Click the **Learn Devices** button. HomeSeer will now be waiting for device information.
- 9) On your handheld remote, select the **Menu** button then the **Right Arrow** button until the display shows **Setup**. Select **OK**. Press the **Right Arrow** button until the display shows **Copy Remote Control**, select **OK**, the display shows **Send Information**, click **OK** again, the display shows **Identical Copy**. Click the **Right Arrow** until the display shows **Only System Information**, then select **OK**.
- 10) The remote will send all device information to HomeSeer. Watch the display on the remote and make sure no error message is displayed. If you get an error, try sending the information again. You must be within about 6 feet of the USB interface before the information will be transferred properly. If you still get a transfer error, click the **Reset Controller** button then try and learn your devices.
- 11) Once the information is transferred, HomeSeer will now display the new devices in its device list. You will see a display like the following:



- 12) The devices will be listed in the order you added them. If you added the living room lamp first, it will show up in the list with the lowest device number. The device numbers may not start at device number 1, but they will be in order and increment sequentially in the same order as you added them to the remote control. To label your devices, use the list you created when you added the devices. If you did not create a list, you can right click on any device and turn it on and off. This will assist you in locating the device.
- 13) To name your devices, simply right click on the device in the HomeSeer device list, select **Properties**, and give the device a name and location.

Tips for adding devices

- The above method is one way to add devices to your system. Another way is to simply add one device to your remote control. Then copy the remote to HomeSeer. Only one new device will appear in the HomeSeer device list. You can easily find this device and give it a name and location. Repeat this process for each new device you add. Re-learning devices will not modify any devices you already have configured.
- Turning a device on and off will help you locate the device so you can name it.
- Make sure you are within 6 feet of the USB interface when transferring devices to HomeSeer.
- If a device status is displayed as **Unknown**, the device is either unplugged, or is too far away from the USB interface or another module. The Z-Wave system will use other modules to relay commands. It may help to simply install another module between the USB interface and the module that is not working.
- To update the status of all your devices, click the **Check mark** icon on the toolbar. This will request status from all your Z-Wave devices that are in the currently displayed location and update their status. This is a good test of your installation and insures that HomeSeer can communicate with all your devices. To poll every device in your home, select **All Locations** from the HomeSeer **Devices** view, then click on the checkmark button on the toolbar.

Zwave FAQ

Q: Why do I need to learn my devices to the remote control? Why can't I just learn them to the USB interface?

A: There are 2 types of Z-wave controllers, primary and secondary. There can only be one primary controller in your home. This controller is used to learn the locations of all your Z-wave devices. The USB controller is a secondary controller and is essentially a copy of the primary controller but it cannot learn new devices. When you learn devices to a primary controller, the RF power is reduced. This reduces the possibility of learning a device from your neighbor's home. If the USB interface were your primary controller, you would need to move your PC to each module location to add it to the interface. So a portable handheld primary controller is best for this purpose. The idea of learning a device to the primary controller is simply for security. It makes it impossible for anyone else to control your devices.

Q: Once I learn a module to the remote control, can I unplug it and move it to a new location?

A: No. Do not move a module unless you remove it from the remote control first. To remove a module, select Setup, then Reset Unit. Then press the button on the unit. The module will be removed. You can then move the module to a new location and re-add it to the remote. You will also need to remove the device from HomeSeer and re-learn your devices to get it back. If you are moving the module to a new location in the same room, you probably do not need to remove and re-add the device as the distance is not far enough to cause an issue.

Q: How does the module know how to route information to other modules?

A: The Zwave system uses other modules to route information. If a controller (such as the USB interface or remote control) cannot communicate with a particular device, it will attempt to route the command through other modules that are in its path. When a module is added to the system, it discovers who its neighbors are and relays this information back to the controller. The controller then knows the location of each module. It's important to not move modules around after they are installed. Remove them from the system using the remote control if they are going to be moved.

Q: What happens if I unplug a module without removing it using the remote?

A: This will cause your system to slow down and lights will respond slowly. When you control a device, it acknowledges the request back to the controller. This way, the controller can be sure that the command was executed. If you remove a module by simply unplugging it, the controller will try its best to route the request through other modules. This can cause a delay of up to a minute while it tries to complete the command. The remote control will display an error if this happens, and in HomeSeer, a device's status will go to *Unknown*. You can then remove the device from HomeSeer so that it doesn't try to control it, or simply remove it from any events that reference it.

Q: Is this system secure? Can my neighbor control my devices if they purchase a system?

A: The system is very secure. Your remote control contains a *HomeID*. This ID is unique and is assigned to the modules when you learn them to the remote. No other controller can control these devices unless you copy your remote to another one. No one can add new devices to your home unless they use *your* remote control.

Q: What happens if I lose my remote control, the batteries go dead, or it breaks?

A: Information about your devices is stored in such a way so the batteries are not required. If the batteries go dead, you will not lose any information. If you lose the remote, you will not be able to add any more devices to your system. In this case, you need to get a new remote, reset each device from the setup menu, then re-add it to the system. We are working on a way for the USB interface to re-create a primary controller so this process will not be necessary. It is recommended that you keep your primary controller in a safe place, and use other remotes for daily use. You can easily copy all your information to another remote using the setup menu. Keep in mind that the copies will be secondary controllers, and they will not have the ability to add new devices to your system. Only your one primary controller can do this, so guard this unit carefully!

Q: Can the handheld remote control trigger events in HomeSeer just like an X10 table top controller can?

A: Not at this time. The remote can only control actual devices. Since the USB interface is actually a controller, it cannot be controlled itself. However, under the device properties in HomeSeer you can enable polling for a Zwave device. This tells HomeSeer to check the status of the device. If the device changes status (like from ON to OFF), HomeSeer will be notified. You can then create a trigger on this device changing status. This allows you to have a wall switch trigger actions in HomeSeer. In the future we should have some remote controls that will be able to control HomeSeer directly.

Warranty

HomeSeer Technologies has a 30 day no questions asked return policy. If you are not completely satisfied with our products, you may return them for a full refund.

Beyond 30 days, the ZU0100-001 hardware is warranted by the manufacturer for 1 year.

Regulatory Approvals

The ZU0100-001 is ETL and FCC approved.

Support

For support:

Help Desk: www.homeseer.com (select **HelpDesk** from the **Contact Us** menu)

Phone: 603-471-2816

Support is also available on our message board at:

<http://ubb.homeseer.com>

Look for the Z-Wave USB forum.