

Z-NET Installation Guide



Congratulations on your purchase of our Z-NET IP-enabled Z-Wave interface. Z-NET incorporates the latest “Z-Wave Plus” technology and it may be installed anywhere a network connection is available using Ethernet or (Optionally) WiFi. Please follow the steps below to install and configure your unit.

Note: if you are upgrading from a Z-Troller or Z-Stick to Z-NET, **complete all steps**.

If you are not upgrading and are building a Z-Wave network from scratch, **skip STEP #2**.

STEP #1 – Update HS3 Z-Wave Plug-in

1. **Z-NET requires HS3 Z-Wave plug-in v3.0.0.194 (or higher)**. Download and install the new plug-in from your HS3 updater. Note: check the “beta” section of the updater (at the bottom of the list) to find the latest Z-Wave plug-in.

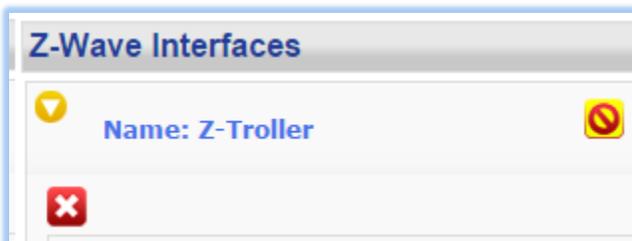
STEP #2 – Backup Current Z-Wave Network (Only if upgrading from Z-Troller or Z-Stick)

1. Open your HS3 web interface, navigate to [Plug-ins>Z-Wave>Controller Management](#), expand the listing for your Z-Troller or Z-Stick, then select “Back Up this interface” from the Actions menu.
2. Rename the backup file (if desired) and click the START button (as shown below). The operation should only

Actions:
Back Up this interface
ZNet_Office Z-Wave_003D46CA_2015-0 Enter a filename to save the network information into, or use the default name provided.
START
Operational messages will appear here...

take a few seconds and the word “Done” will appear when complete.

3. Navigate to [Plug-ins>Z-Wave>Controller Management](#), and disable the interface by clicking the green checkmark to the right of the interface name. A yellow and red crossed out circle will appear, once the interface is disabled (as shown below).



4. Delete the interface from the software by clicking the delete button underneath the interface name. **DO NOT ERASE YOUR Z-TROLLER OR Z-STICK INTERFACE!**
5. **Physically disconnect your existing Z-Troller or Z-Stick from your system.**
 - a. **Z-Troller:** Disconnect the AC power supply and serial cable. REMOVE batteries.
 - b. **Z-Stick:** Unplug the stick from its USB port. If the blue status light is blinking, press its control button once.
6. Store your Z-Troller or Z-Stick in a safe place. This may be used as a backup should your Z-NET ever fail.

STEP #3 – Network Configuration

1. **Physical Installation:** Attach Z-NET to your local network (LAN) with the supplied Ethernet cable and power the unit with the included power adapter. The LED indicator will blink red for about 20 seconds, then glow solid red.
2. **Accessing Z-NET:** Using a PC, tablet or phone, open a browser and enter find.homeseeer.com in the URL line. Then click the “search” button. In most cases, you’ll see two entries; one for your HomeTroller (or HS3 software

system) and one for your Z-NET. If you've installed the optional Z-NET WiFi adapter, you'll see a third entry (as shown below). Click the IP address hyperlink in the System column to access your Z-NET settings.

| System Name | System | Maintenance | Last Seen |
|-------------|-----------------------------------|-------------|-----------------------|
| hometroller | 192.168.0.75:9998 | N/A | 2/12/2015 10:12:25 AM |
| Z-NET-MARK | 192.168.0.10 | N/A | 2/12/2015 10:34:29 AM |
| Z-NET-MARK | 192.168.0.154 | N/A | 2/12/2015 10:34:29 AM |

- Updating Z-NET:** If a Z-NET update is available, click the "Update" button in the upper right hand corner (as shown below). The update should only take a moment to install. You can also rename the unit, if you like. If you're using more than 1 Z-NET, consider including the unit location in the name (**First Floor Z-NET**, for example). Be sure to submit your changes when done.

Z-NET Configuration - Version 1.2.6

Please use the options below to configure your Z-NET Z-Wave interface

Device Name

- Setting a Persistent IP Address:** As shipped, Z-NET will accept a temporary router-assigned IP address using "DHCP". You'll need convert this to a persistent IP address to allow your HS3 system to reliably communicate with Z-NET. Use **either** of the following methods to accomplish this for your wired and/or wireless connections..

- Use Z-NET settings:** Click the radio button for "Static-IP" and enter the static IP address of your choice. You should pick an address that is within your router's subnet but outside of the DHCP range. This will avoid conflicts with DHCP devices on the network. Save your settings and Z-NET will reboot.
- Use Router Address Reservation:** Many routers include an IP address reservation feature that allows the router to assign specific IP addresses based on the MAC address of a device. To use this feature, leave the Z-NET network settings on DHCP use enter the "MAC Address" and the IP address (as shown below) into the router address reservation settings. Reboot your router. From this point on, your router will always assign the same IP address to Z-NET.

Wired

Network DHCP Static-IP

IP Address

Gateway

Subnet Mask

MAC Address: b8:27:eb:b9:26:74

Wireless

SSID

Password

Show password

Security

Encryption

Network DHCP Static-IP

IP Address

Gateway

Subnet Mask

MAC Address: 80:1f:02:df:0d:da

STEP #4 – HS3 / Z-NET Configuration

- Using a PC, tablet or phone, open a browser and enter find.homeseer.com in the URL line. Then click the "search" button. When the results appear, click the IP address hyperlink in the System column to access your HomeTroller or HS3 software system.
- Navigate to [Plug-ins>Z-Wave>Controller Management](#), and click the "Add Interface" button. Then enter the Z-NET Name, Interface Model, IP Address (from **STEP #3** above) and "2001" for the Port Number. Then click the Add button to save the entry (as shown below).

Add a Z-Wave Interface

Name: **New Interface**

Name: Z-NET-MARK Interface Model: Z-NET Ethernet IP Address: 192.168.0.154 Port Number: 2001

Discovered Interfaces:

Add Cancel

ID: NEWINTERFACE

3. Finally, click the yellow and red “disabled” button to enable your new Z-NET. A green “enabled” button should now appear (as shown below)



4. The LED indicator on Z-NET is designed to glow **GREEN** when HS3 connects successfully to it. Visually inspect the unit to ensure your Z-NET is connected.
5. If you’re building a Z-Wave network from scratch, refer to your HomeTroller or HS3 documentation for information on setting up your Z-Wave network and **skip STEP #5**.
If you’re upgrading from a Z-Troller or Z-Stick, **proceed to STEP #5**.

STEP #5 – Restore Z-Wave Network to Z-NET (Only if upgrading from Z-Troller or Z-Stick)

1. Open your HS3 web interface, navigate to [Plug-ins>Z-Wave>Controller Management](#), expand the listing for your new Z-NET, then select “Restore a Network to this Interface” from the Actions menu.
2. Choose the file you created back in **STEP #2**, confirm and start the restore. Your Z-Troller or Z-Stick network information will be written to your Z-NET. Click the “Close” button when this operation is done.
3. **Power cycle your Z-NET** and wait for it to fully reboot (with green light glowing).
4. At this point, Z-NET should be able to control only devices that are within direct range, since the routing table was not included in the backup/restore function. To confirm this, open the Actions menu again and select [Test Node Connectivity on a Network](#), then click Start. You should see a mixture of “successfully contacted” and “**did not respond**” messages, unless all nodes are within direct range of your Z-NET.
5. **Rebuilding the Routing Table:** Open the Actions menu and select [Optimize a Network, No Return Route Changes](#) and then click start. This will begin the process of rebuilding your routing table, one node at a time. This may take some time to complete, depending on the size of your network. We recommend running this function at least twice to build a reliable network.
6. **Adding Return Routes:** Open the Actions menu and select [Fully Optimize a Network](#). This will finalize the process of building your routing table by adding return routes from your devices back to Z-NET.

Troubleshooting Z-NET

All customers receive unlimited helpdesk support (helpdesk.homeseer.com) with **Priority Phone Support** (603-471-2816) for the first 30 days. FREE community based **Message Board** (board.homeseer.com) support is available 24/7.

| Symptom | Cause | Solution |
|---|--|--|
| LED indicator won't light | AC power adapter not Installed or plugged in. | Make sure AC power adapter is installed and plugged in. |
| | AC Power Adapter Failed | Contact HomeSeer support |
| LED indicator blinks red indefinitely | Z-NET cannot boot | Power cycle Z-NET by disconnecting / reconnecting AC power adapter |
| | | Contact HomeSeer support |
| LED indicator glows solidly red but won't change to green | Z-NET cannot communicate with HomeTroller or HS3 software system | Ensure that Z-Wave plug-in v3.0.0.195 or later is installed |
| | | Ensure that Z-NET is enabled and that IP address settings and port number 2001 are properly entered on HS3 controller mgmt. page |
| | | Contact HomeSeer support |
| All Other Problems | | Contact HomeSeer support |

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