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# ICON Appliance Adapter

Appliance Module with INSTEON™ Technology

For model:  
#2856S3/2856S3B Icon Appliance Adapter



**SMARTHOMe™**  
MAKING LIFE MORE CONVENIENT, SAFE AND FUN

# Icon Appliance Adapter User's Guide



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### ABOUT ICON APPLIANCE ADAPTER

Congratulations on purchasing the Icon Appliance Adapter. Your new Icon Appliance Adapter allows you to remotely control any non-dimmable devices or lamps in your home at the touch of a button.



### What is INSTEON?

INSTEON is a simple, reliable, and affordable breakthrough in home control. Simple, because Plug-n-Tap™ setup is a breeze, and there are no wires to add – INSTEON uses existing powerline wiring as well as radio-frequency for communication. Reliable, because every INSTEON device is a two-way repeater. And affordable, not just because of low cost, but because INSTEON also works with legacy X10 devices. An INSTEON home grows in value with every INSTEON device you add, making life more convenient, safe and fun.

### Key Icon Appliance Adapter Features

- Setup is easy – Icon Appliance Adapter installs in minutes
- Controls all standard appliances up to 10 Amps and incandescent lights, up to 400 watts
- Responds to commands from X10 controllers
- Shows INSTEON and X10 activity with a green status LED
- Stores setup state in memory, even while unplugged
- Quiet Relay
- Local load sensing easily disabled
- Set button also functions as On/Off toggle switch
- Warranted for one year

## HOW TO INSTALL ICON APPLIANCE ADAPTER

### Caution

Read and understand these instructions before installing, and retain them for future reference.

Icon Appliance Adapter is intended for installation in accordance with the National Electric Code and local regulations in the United States, or the Canadian Electrical Code and local regulations in Canada. Use indoors only. Icon Appliance Adapter is not designed nor approved for use on power lines other than 120V 60Hz, single phase. Attempting to use Icon Appliance Adapter on non-approved powerlines may have hazardous consequences.



**Proper installation of at least two Icon RF Signal Extenders is required prior to installing and using other INSTEON devices.**

### Icon Appliance Adapter Installation Tips

- Don't plug Icon Appliance Adapter into an outlet controlled by a switch, because if the switch is inadvertently turned off, Icon Appliance Adapter won't have power.
- Don't plug Icon Appliance Adapter into a filtered power strip or AC line filter.
- Be sure the non-dimmable device or lamp you want to control is working and that the manual switch on it is in the ON position.
- Do not use outdoors
- Do not use to control devices that preserve, maintain, or contribute to human or animal safety or life support.

### Installing Icon Appliance Adapter

1. For best INSTEON Network performance, be sure you have properly installed at least two Icon RF Signal Extenders.
2. Plug Icon Appliance Adapter into an unswitched wall receptacle. The green Status LED on the side will illuminate steadily.



3. Plug the non-dimmable device/lamp you want to control into the **controlled outlet on the bottom** of Icon Appliance Adapter.
4. The non-dimmable device/lamp you plugged in will turn on. If the non-dimmable device/lamp does not turn on, turn it on manually.



## HOW TO SET UP ICON APPLIANCE ADAPTER

### Linking Icon Appliance Adapter to an INSTEON Controller

1. Select your INSTEON Controller from the list below and follow the method shown to put it into **Linking Mode**.



- A. **Icon Dimmer Switch** – Press and hold Icon Dimmer Switch's **Paddle Top** for 10 seconds, then release. To confirm that it is in Linking Mode, Icon Dimmer Switch will flash the light that it is wired to once and begin its LED.



- B. **Icon Tabletop Controller** – Choose the ON/OFF Button Pair you want to use for controlling Icon Appliance Adapter. Press and hold the **ON Button** of the pair for 10 seconds. To confirm that it is in Linking Mode, Icon Tabletop Controller's Status LED will begin blinking.



- C. **Icon Keypad Dimmer** – Choose the ON Button you want to use for controlling Icon Appliance Adapter. Press and hold the **ON Button** for 10 seconds. To confirm that it is in Linking Mode, Icon Keypad Dimmer will flash the light that it is wired to once and begin blinking the ON Button that you pushed.



- D. **Other INSTEON Controllers** – See the INSTEON Controller's User's Guide.

2. Press and hold the black **SET Button** on Icon Appliance Adapter for 3 seconds. The Icon Appliance Adapter's Status LED will blink to confirm linking. Depending on the INSTEON controller, you have about 4 minutes to perform this step before the unit automatically exits from linking mode.



### Unlinking Icon Appliance Adapter from an INSTEON Controller

If you are no longer going to use an Icon Appliance Adapter that has previously been linked to an INSTEON Controller, it is very important that you unlink it, otherwise the controller will retry any commands intended for the unused module, thus slowing down your system.

1. Select your INSTEON controller from the list below and follow the method shown to put it into **Unlinking Mode**.



- A. **Icon Dinner Switch**– Press and hold Icon Dimmer Switch's **Paddle Top** for 10 seconds **TWICE**. To confirm that it is in Unlinking Mode, Icon Dimmer Switch will flash the light that it is wired to once for each paddle press and begin blinking its LED.



- B. **Icon Tabletop Controller** – Press and hold the **OFF Button** of the ON/OFF Button Pair you used for controlling Icon Appliance Adapter for 10 seconds. To confirm that it is in Unlinking Mode, Icon Tabletop Adapters Status LED will begin blinking.



- C. **Icon Keypad Dimmer** – Press and hold for 10 seconds the **ON Button** you used for controlling Icon Appliance Adapter, then press and hold the same **ON Button** for 10 seconds **again**. To confirm that it is in Unlinking Mode, Icon Keypad Dimmer will flash the light that it is wired to once and begin blinking the ON Button that you pushed.



- D. **Other INSTEON Controllers** – See the INSTEON Controller's User's Guide.

2. Press and hold the black **SET Button** on Icon Appliance Adapter for 3 seconds. The Icon Appliance Adapter's Status LED will blink to confirm unlinking. Depending on the INSTEON Controller, you have about 4 minutes to perform this step before Unlinking Mode times out automatically



### Creating an INSTEON Scene

INSTEON Scenes let you activate dramatic lighting moods with the press of just one button. INSTEON Scenes are very easy to set up – just link more than one INSTEON module to an ON/OFF Button Pair on an INSTEON Controller. Then, when you press either the ON or the OFF Button on the INSTEON Controller, all of the INSTEON modules linked in the scene will respond as a group. You can link multiple Icon Appliance Adapters or other INSTEON modules to multiple INSTEON Controllers.

To add an additional Icon Appliance Adapter to a scene controlled by an ON/OFF Button Pair on an INSTEON Controller, simply follow the same procedure that you used for linking the first Icon Appliance Adapter. See *Linking Icon Appliance Adapter to an INSTEON Controller*, above. To remove an Icon Appliance Adapter from a scene, see *Unlinking Icon Appliance Adapter from an INSTEON Controller*.

#### TIP

With some INSTEON Controllers, you can avoid having to hold a button down for 10 seconds for each setup step by placing the Controller in **Scene Setup Mode**, also called **Multilink Mode**. Refer to your INSTEON Controller's User's Guide for detailed instructions on how to set it to Scene Setup Mode. The following will work for a Icon™ Tabletop Controller.

1. Set the Icon Tabletop Controller to Scene Setup Mode for the ON/OFF Button Pair you want to use for controlling the scene by pressing and holding the **ON Button** of the pair for 10 seconds, *then tapping the same ON Button again*. Icon Tabletop Controller's Status LED will blink slowly.
2. Press and hold the black **SET Button** on Icon Appliance Adapter for 3 seconds. The module's Status LED will blink to confirm linking. Icon Tabletop Controller will beep to confirm linking, and its Status LED will continue to blink slowly.
3. Continue Steps 2 and 3 for any additional INSTEON modules you want to link to the scene.
4. When you are finished linking INSTEON modules to the desired ON/OFF Button, complete Scene Setup by pressing the **ON Button**. Icon Tabletop Controller's Status LED will stop blinking and remain steadily on. You have about 4 minutes of inactivity before Scene Setup Mode times out automatically.

### ADVANCED FEATURES OF ICON APPLIANCE ADAPTER

#### Restoring Power to Icon Appliance Adapter

Icon Appliance Adapter stores all of its settings in non-volatile memory, even when unplugged. In the event of a power loss, Icon Appliance Adapter will automatically return the non-dimmable device/lamp being controlled to the on/off position it had before the power was interrupted. Similarly, if Icon Appliance Adapter is plugged into an outlet controlled by a wall switch and you turn the switch off, Icon Appliance Adapter will turn the non-dimmable device/lamp back on to its prior on/off position when you turn the wall switch back on.

#### Resetting Icon Appliance Adapter to Its Factory Default Settings

The factory-reset procedure can be used to clear Icon Appliance Adapter's memory and restore its factory default settings. This procedure will clear the unit of all INSTEON Links, and any programmed X10 Primary Address.

1. Before resetting an Icon Appliance Adapter that has been linked to an INSTEON Controller, be sure to unlink it from the Controller first. See *Unlinking Icon Appliance Adapter from an INSTEON Controller*, above.
2. Unplug Icon Appliance Adapter for about 10 seconds.
3. While holding down the black **SET Button** on Icon Appliance Adapter, plug Icon Appliance Adapter back in.
4. After plugging Icon Appliance Adapter back in, continue to hold down the black SET Button for 3 seconds.
5. Release the black SET Button.
6. After several seconds, Icon Appliance Adapter's Status LED will turn on and the lamp you plugged in will come on, indicating that the factory reset is complete. Icon Appliance Adapter is now reset to all the default settings and ready for fresh programming and use.

### **X10 PROGRAMMING OPTIONS**

Icon Appliance Adapter is X10 ready, meaning that it can respond to X10 commands from an X10 controller. However, **to operate Icon Appliance Adapter in X10 mode, you must first set up an X10 Primary Address**. As it ships from the factory, or after a factory reset procedure, Icon Appliance Adapter will have no X10 Primary Address assigned.

#### **Setting the X10 Primary Address**

**You must do this before Icon Appliance Adapter will respond to X10 commands.** You can use any of the 256 possible X10 addresses for the X10 Primary Address.

1. Press and hold the black **SET Button** on Icon Appliance Adapter for 3 seconds. The green Status LED will begin flashing and the lamp you are controlling will blink to confirm that you are setting up an X10 Primary Address.
2. Use an X10 Controller to send an **X10 address and an ON command THREE TIMES**. You have about 30 seconds to perform this step before setup mode expires. (NOTE: If you send an **X10 OFF** command during this step, Local Control will be disabled. See the next section for an explanation.)
3. Once Icon Appliance Adapter has received the X10 Address and an ON or OFF command, the Status LED on Icon Appliance Adapter will stop flashing and the X10 Primary Address will be set.

#### **Removing the X10 Primary Address**

1. Press and hold the black **SET Button** on Icon Appliance Adapter for 3 seconds. The green Status LED will begin flashing to confirm that you are setting up an X10 Primary Address.
2. Press and hold the black **SET Button** on Icon Appliance Adapter for 3 seconds **again**.
3. Use an X10 Controller to send any **X10 ON Address THREE TIMES**. You have about 30 seconds to perform this step before setup mode expires. The green Status LED will stop flashing to confirm that you have removed the X10 Primary Address.

#### **Enabling or Disabling Local Control**

Local Control allows you to manually turn on the non-dimmable device or lamp you plugged into Icon Appliance Adapter by using the switch on the device itself, without sending a command from an X10 or INSTEON Controller. By default, Local Control is enabled. You can disable Local Control by setting the X10 Primary Address using an X10 OFF command in Step 2 above. Remember that if the switch on the device itself is turned off, Icon Appliance Adapter will not be able to control the device.

## ABOUT INSTEON

### Understanding Why an INSTEON Network Is Reliable

INSTEON messages travel throughout the home via Powerline Carrier (PLC) signals on the existing house wiring, and also via wireless Radio Frequency (RF). As the messages make their way to INSTEON devices being controlled, they are picked up and retransmitted by all other INSTEON devices along the way. This method of communicating, called a *mesh network*, is very reliable because each additional INSTEON device helps to support the overall network.

To further ensure reliability, every INSTEON device confirms that it has received a command. If an INSTEON Controller does not receive this confirmation, it will automatically retransmit the command up to five times.

### Further Enhancing Reliability

As signals travel via the powerline or RF throughout the home, they naturally become weaker the farther they travel. The best way to overcome signals getting weaker is to increase the coverage of the mesh network by introducing more INSTEON devices.

It is possible that some audio-video products, computers, power strips or other electrical equipment may attenuate INSTEON signals on the powerline. You can temporarily unplug suspected devices to test whether the INSTEON signal improves. If it does, then you can plug in filters available from Smarthome that will permanently fix the problem.



### Using Icon RF Signal Extenders to Upgrade Your INSTEON Network

Icon RF Signal Extenders are ideal for improving signal strength and network coverage throughout your home. A Signal Extender acts like another member of the dual-band mesh network, tying it together by simultaneously retransmitting INSTEON signals across both radio-frequency and the powerline. It also provides an access point for RF-only INSTEON devices, such as handheld controllers.

In addition, using two Icon RF Signal Extenders provides a wireless path for INSTEON signals to travel between the two separate electrical circuits, called *powerline phases*, found in most homes. Without a reliable method for coupling opposite powerline phases, some parts of your home may receive INSTEON signals intermittently. With at least one RF Signal Extender plugged into one of the powerline phases, and at least one more plugged into the opposite powerline phase, INSTEON powerline signals will be strong everywhere in your home.



## About INSTEON and X10

### Possible BoosterLinc™ Interference with INSTEON

If you have installed older Smarthome Plug-In BoosterLinc™ X10 Signal Boosters (#4827) or certain other BoosterLinc-enabled products, the older BoosterLinc technology may interfere with INSTEON communications.

Plug-In BoosterLinc X10 Signal Boosters, Smarthome #4827, shipped after February 1, 2005, with V3.0 or later firmware, are fully compatible with INSTEON.

The following Plug-In BoosterLinc X10 Signal Boosters use older firmware that may cause interference with INSTEON:

- White BoosterLinc X10 Signal Boosters, #4827, shipped before February 1, 2005, with V2.5 or earlier firmware
- All Gray BoosterLinc X10 Signal Boosters, #4827

Try unplugging the older BoosterLinc X10 Signal Boosters to see if this helps with INSTEON interference. If it does, please call 800-SMARTHOME (800-762-7846) for help with replacing your older BoosterLinc X10 Signal Boosters with newer INSTEON-compatible ones.

The following pre-INSTEON Smarthome products have BoosterLinc technology that you can turn on or turn off when you set the X10 Address for the product. If turned on, the BoosterLinc technology may interfere with INSTEON.



- KeypadLinc™ 6 with Integrated , #12073W, #12073WB and #12073WW



- SwitchLinc™ Relay 2-Way, #23883 and #23883T



- ToggleLinc™ 2-Way , #23890, and Switch, #23893

#### NOTE

To disable BoosterLinc X10 Signal Amplification on these products:

1. Press and hold the SET Button.
2. Send the X10 Primary Address.
3. Send an X10 OFF command.

You can send an X10 ON command in Step 3 to re-enable the BoosterLinc feature.

If you have any of these products and the BoosterLinc feature is turned on, please consult your User's Guide or call 800-SMARTHOME (800-762-7846) for help with turning it off. You may then wish to install newer INSTEON BoosterLinc X10 Signal Boosters, which Smarthome can help you with.

### INSTEON's Effect on X10

If your existing X10 devices seem to be working less reliably after installing INSTEON devices, remember that INSTEON devices can absorb X10 signals just as X10 devices do, and that INSTEON devices do not repeat X10 signals. Installing INSTEON-compatible BoosterLinc X10 Signal Boosters, Smarthome #4827, or a SignalLinc Plug-In Coupler-Repeater, #4826, can increase X10 signal levels.

Please call 800-SMARTHOME (800-762-7846) if you have any questions or would like more help.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
The Status LED on my Icon Appliance Adapter is not turning on at all.	Icon Appliance Adapter is not getting power.	Make sure Icon Appliance Adapter is not plugged into a switched outlet that is turned off.
My device is not being controlled after I've linked Icon Appliance Adapter to a Controller.	Your device is not getting power.	Make sure your device is plugged into the outlet labeled <i>Controlled</i> at the bottom of Icon Appliance Adapter.
		Make sure the device's switch is in the ON position.
My Icon Appliance Adapter is not receiving signals from INSTEON or X10 Controllers.	The Icon Appliance Adapter and the Controller are on opposite powerline phases.	Make sure two Icon RF Signal Extenders are properly installed to bridge the two powerline phases.
	Icon Appliance Adapter is plugged into a power strip.	Powerline signals can't travel through power filters. Plugging Icon Appliance Adapter directly into a wall outlet works best.
	Other modules are loading down the signal.	Move Icon Appliance Adapter, the other modules, or the Controller to another outlet.
My Icon Appliance Adapter is not linking or responding to an INSTEON Controller.	The INSTEON signal may be too weak.	Add new INSTEON devices or move around existing INSTEON devices. All INSTEON devices act as INSTEON Network repeaters.
		Make sure you are not experiencing interference with older X10 BoosterLinc technology. Upgrade to INSTEON BoosterLincs.
		Try linking your Icon Appliance Adapter to your INSTEON Controller with both of them plugged into the same outlet. Once linked, move them to the desired locations.
The device turned on by itself.	Another Controller, a timer, or stray X10 signals triggered Icon Appliance Adapter.	Remove any unwanted links from Icon Appliance Adapter, or perform a Factory Reset to clear it.
	The local control circuit may have been triggered	Install a powerline signal blocker in your home to keep X10 signals from neighboring homes from interfering. Consider not using Icon Appliance Adapter in X10 mode.
		Disable the local control sense feature
		If the above doesn't work, perform a Factory Reset.
My device doesn't always respond to my INSTEON Controller.	The INSTEON Controller may have been reset without first unlinking Icon Appliance Adapter from it.	Re-link Icon Appliance Adapter to the INSTEON Controller.
When I press a button on my INSTEON Controller, it takes a long time for my Icon Appliance Adapter to respond.	You may have removed an INSTEON Device that your INSTEON Controller is trying to operate. The INSTEON Controller is re-trying the missing INSTEON Device.	Unlink the missing INSTEON Device(s) by following the directions in your INSTEON Controller's User's Guide.
My Icon Appliance Adapter doesn't respond to X10 address A1 when I first set it up.	Icon Appliance Adapter does not have an X10 Primary Address set up at the factory.	Set up an X10 Primary Address by following the instructions in the section <i>X10 PROGRAMMING OPTIONS</i> .
Icon Appliance Adapter is locked up.	A surge or excessive noise on the powerline may have glitched it.	Unplug Icon Appliance Adapter for 10 seconds and reinstall.
		If the above doesn't work, perform a Factory Reset.

## **Icon Appliance Adapter User's Guide**



If you have tried these solutions, reviewed this User's Guide, and still cannot resolve an issue you're having with Icon Appliance Adapter, please:

- Search our online knowledge base at <http://smarthome.custhelp.com>.
- Call our Support Department at 800-SMARTHOME (800-762-7846).
- Email us at [tech@smarthome.com](mailto:tech@smarthome.com)T.



## SPECIFICATIONS

### Icon Appliance Adapter Specifications

General	
Icon Product Number	2856S3/2856S3B, Icon Appliance Adapter
Warranty	1 year
Operation	
Status LED	Green
Local Control	Load sensing (can be disabled)
Setup Memory	Non-volatile EEPROM
INSTEON Features	
INSTEON Addresses	1 hard-coded out of 16,777,216 possible
INSTEON Links	30
INSTEON Powerline Frequency	131.65 KHz
INSTEON Minimum Transmit Level	3.2 V <sub>pp</sub> into 5 Ohms
INSTEON Minimum Receive Level	10 mV <sub>pp</sub> nominal
INSTEON Messages Repeated	Yes
X10 Features	
X10 Primary Address	1 optional (comes unassigned)
X10 Scene Addresses	N/A
X10 Status Request	Supported
X10 Powerline Frequency	121 KHz
X10 Minimum Transmit Level	3.2 V <sub>pp</sub> into 5 Ohms
X10 Minimum Receive Level	20 mV <sub>pp</sub> nominal
X10 Messages Repeated	No
Mechanical	
Operating Conditions	Indoors, 32 to 122°F, up to 85% relative humidity
Dimensions	4.0" H x 2.5" W x 1.5" D
Weight	5 oz
Electrical	
Supply Voltage	120 Volts AC +/- 10%, 60 Hertz, single phase
Surge Protection	MOV rated for 150 Volts
Power Plug	3-pin grounded
Controlled Outlet	3-pin grounded
Maximum Load	400 Watts
Maximum Amps	10 Amps (for resistive loads)
Certification	Safety tested for use in USA and Canada (ETL #3017581)

### Certification

Icon Appliance Adapter has been thoroughly tested by ITS ETL SEMKO, a nationally recognized independent third-party testing laboratory. The North American ETL Listed mark signifies that the product has been tested to and has met the requirements of a widely recognized consensus of U.S and Canadian product safety standards, that the manufacturing site has been audited, and that the manufacturer has agreed to a program of quarterly factory follow-up inspections to verify continued conformance.



### Limited Warranty

Seller warrants to the original consumer purchaser of this product that, for a period of one year from the date of purchase, this product will be free from defects in material and workmanship and will perform in substantial conformity to the description of the product in this User's Guide. This warranty shall not apply to defects or errors caused by misuse or neglect. If the product is found to be defective in material or workmanship, or if the product does not perform as warranted above during the warranty period, Seller will either repair it, replace it or refund the purchase price, at its option, upon receipt of the product at the address below, postage prepaid, with proof of the date of purchase and an explanation of the defect or error. The repair, replacement, or refund that is provided for above shall be the full extent of Seller's liability with respect to this product. For repair or replacement during the warranty period, call Smarthome customer service to receive an RA# (return authorization number), properly package the product (with the RA# clearly printed on the outside of the package) and send the product, along with all other required materials, to:

**Smarthome, Inc.**  
**ATTN: Receiving Dept.**  
**16542 Millikan Ave.**  
**Irvine, CA 92606-5027**

**SMARTHOME™**  
MAKING LIFE MORE CONVENIENT, SAFE AND FUN

### Limitations

The above warranty is in lieu of and seller disclaims all other warranties, whether oral or written, express or implied, including and warranty or merchantability or fitness for a particular purpose. Any implied warranty, including any warranty of merchantability or fitness for a particular purpose, which may not be disclaimed or supplanted as provided above shall be limited to the one-year period of the express warranty above. No other representation or claim of any nature by any person shall be binding upon seller or modify the terms of the above warranty and disclaimer. In no event shall seller be liable for special, incidental, consequential, or other damages resulting from the possession or use of this product, including without limitation damage to property and, to the extent permitted by law, personal injury, even if seller knew or should have known of the possibility of such damages. Some states do not allow limitations on how long an implied warranty lasts and/or the exclusion or limitation of damages, in which case the above limitations and/or exclusions may not apply to you. You may also have other legal rights that may vary from state to state.

INSTEON, Plug-n-Tap, ControLinc, TesterLinc, Signalinc, ToggleLinc, BoosterLinc, KeypadLinc, FilterLinc, Probelinc, SwitchLinc, TempLinc, IR Linc and SmarhomeLive are trademarks of Smarthome, Inc. INSTEON networking technology is covered by pending U.S. and foreign patents.

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