



ApplianceLinc™

2-Way Plug-in Appliance Module

For models:
#2001STW
#2002STW

ApplianceLinc 2-Way
ApplianceLinc 2-Way with ground pin

SMARTHOME™
MAKING LIFE MORE CONVENIENT, SAFE AND FUN

Congratulations

Congratulations on purchasing ApplianceLinc™, the most powerful X10/PLC (Powerline Carrier) appliance module available. ApplianceLinc is based on our popular LampLinc plug-in modules and has many of the same features.

Appliance modules are the easiest way to add control of simple plug-in devices that don't require dimming. No tools required or electrical knowledge needed. Just plug ApplianceLinc into a standard wall receptacle and you're ready to automate a device!

ApplianceLinc was designed for you, the home automation enthusiast. This manual will explain how to install the ApplianceLinc module and program it to suit your needs.

Key Features

- True 2-Way communications for command confirmation
- Contact relay 80% quieter than competing models
- Responds to 64 different scene addresses
- Signal detection and collision avoidance when transmitting
- Pass through receptacle on the front for other un-controlled electrical devices
- Green Status LED indicator shows powerline activity
- Codes are electronically set (no code wheels) and remembered even if unplugged!
- Two-year warranty

Other ApplianceLinc Models

ApplianceLinc PLC (2-prong) #2001SHL

ApplianceLinc PLC (with ground pin) #2002SHL

Other Smarthome Products

Your ApplianceLinc is compatible with many of our other home automation products. If you need a traditional-looking wall switch, check out the ToggleLinc™ series of



wall switches. For compatibility in any home, the SwitchLinc™ RX is ideal for retrofit applications where there isn't a neutral wire at the switch's wall box. The KeypadLinc™ Wall Mounted Transmitter allows you to control multiple devices from one location at the press of a single button. And for plug-in devices, the ApplianceLinc and LampLinc modules will automate just about anything that plugs in. Please visit the Smarthome web site or contact your distributor for more information.

Quick Start Instructions

Setting the Primary Address

1. Press and hold the Set Button for five seconds (the load will come on)
2. Send the X10/PLC signal from any transmitter within 30 seconds
3. Send an "ON" to enable local control
OR
4. Send an "OFF" to disable local control
(see page 4 for more detailed instructions)

Factory Reset

1. Unplug the ApplianceLinc for 10 seconds
2. Holding down the Set Button, plug in the ApplianceLinc
3. Continue holding the Set Button for three seconds then release
4. After 30 seconds, when the load comes on, the ApplianceLinc is reset
(see page 7 for more detailed instructions)

Installation

1. Turn off the appliance or light to be controlled by the ApplianceLinc and unplug it from the wall
2. Plug the ApplianceLinc module into the receptacle; the Green Status LED indicator will come on
3. Insert the appliance's or light's AC plug into the bottom outlet of the ApplianceLinc
4. Turn on the power switch for the appliance or lamp; the device will come on

Installation Tips

Due to the size of ApplianceLinc, it will block the bottom outlet of a duplex wall receptacle if plugged into the top outlet. If possible, use the bottom outlet for the module so that the top outlet is accessible for other use. For convenience, a pass through receptacle has been supplied on the module so you don't lose a receptacle.

If the ApplianceLinc is plugged into a receptacle controlled by a wall switch, consider leaving the switch on at all times. This will ensure that the module never loses power and is always functioning. If the outlet is switched off, the ApplianceLinc will turn the light back on if it was on when the power was switched off.

A new ApplianceLinc 2-Way or one that has been Factory Reset will be set to address A-1. If other modules are set to A-1, they may come on when the load's on/off switch is turned on.

Setting the Primary Address

Each ApplianceLinc requires a primary address to operate. It ships from the factory with "A1" as the default address; it will also have this address after performing a factory reset. Any of the 256 addresses can be programmed.

The ApplianceLinc does not use flimsy code wheels or dials to set its primary address. Instead, it will accept the first address it finds on the powerline once the programming mode is started. Any X10/PLC compatible transmitter can be used to set the primary address.

IMPORTANT: If you plan on sending status requests to multiple ApplianceLinc 2-Ways, make sure each one is programmed with a different primary address. Otherwise, their simultaneous responses to a status request will collide with one another.

1. Press and hold the Set Button above the green indicator on the right side of the module for 5 seconds until the LED begins blinking and the load being controlled by the ApplianceLinc comes on (you'll also hear a click from within the ApplianceLinc Module).
2. Within 30 seconds, transmit the desired primary address (housecode and unit code) from any transmitter.
3. Next, set the Local Control Feature by sending an ON or OFF Command (see page 9 for more details).
 - a) Sending an "ON" command immediately after the house and unit code will activate the load control feature. (Recommended)
 - b) Sending an "OFF" command immediately after the house and unit code will disable the load detect feature. (Recommended if the ApplianceLinc is controlling a fluorescent lamp.)
4. Once the ApplianceLinc has received a valid address and either an "ON" or "OFF", the Green Status LED will stop blinking and the load controlled by the ApplianceLinc will remain turned on.

Tip:
If you have trouble communicating to the ApplianceLinc, there may be a lot of PLC activity on the powerline. Unplug transmitters that send signals that might be intercepted by the module during the programming sequences. RF transceivers, computer controllers, and PLC thermostats should be unplugged to avoid interference.

Controlling the ApplianceLinc Remotely

The ApplianceLinc responds to any of the 256 X10/PLC addresses. It will respond to ON, OFF, and ALL UNITS OFF commands. It ignores ALL LIGHTS ON, DIM, BRIGHT, AND PREDIM commands. Status Request commands are understood if the ApplianceLinc's transmitter is enabled (see Other Features section). The ApplianceLinc can be controlled remotely from any compatible transmitter by sending its base address (e.g., M6) and the command.

Scene Address Programming

The ApplianceLinc 2-Way can be a member of up to 64 scenes. A scene address is a single address (just like a primary address), and is set at the time scene membership is programmed. Using a single command to trigger a scene is much less complicated than using an intelligent computer controller to initiate a macro that in turn sends dozens of commands over the next few minutes to turn on multiple receivers and set brightness levels (for dimming-enabled modules).

When an ON signal is transmitted to scene-enabled modules, all members programmed to that address will turn on to their independent ON-levels *and* at their independent fade-on rates for that scene. Transmitting an OFF for a scene address will turn off all modules that are members of that scene. Modules will react to dim and bright commands after the scene address is sent, however, they will ignore All Light On and All Units Off commands for the scene address' house code.

ApplianceLinc is compatible with these other scene-enabled Smarthome products:

- SwitchLinc™ 2-Way and Plus Dimmers
- SwitchLinc RX Plus Dimmers
- LampLinc™ 2-Way & Plus Modules
- SwitchLinc 2-Way Switches
- SwitchLinc Relay 2-Way
- SwitchLinc 2-Way Relay Timer
- ToggleLinc™ 2-Way & Plus Modules
- KeypadLinc™ Wall Mounted Controllers with Integrated Dimmer

Transmitters that can set up scenes

Scenes can be programmed with a ControlLinc™, a Maxi-Controller or any transmitter capable of sending Housecode and Unit Code address without an ON or OFF command. Transmitters in which one button is pressed to turn a load on or off WILL NOT WORK. When using one of these equivalent transmitters, be careful when pressing the buttons. Programming will be ignored if some commands are not sent in the proper sequence. "Fat-Fingering" or accidentally pressing the same button twice may prevent the programming from being accepted.

If KeypadLinc controllers are installed in the house and one of their buttons is programmed to transmit to Smarthome scene-enabled receivers, it can be used to quickly set up scenes (see the KeypadLinc manual for more information).

Smarthome TouchLinc™ Touchscreens have a built-in wizard to help automate the scene setting process.

Many computer programs like Smarthome Manager (pictured), Indigo for Macintosh, HCA, and HomeSeer have tools to aid in setting up scenes and many other features. Please check with your automation software supplier for availability.

Programming Scene Membership and On-Levels:

1. Transmit the "clear" sequence:

O16	N16	M16	P16	M16
-----	-----	-----	-----	-----

2. Activate the module by turning it on or off depending. (Hint: a module can be set to turn off when a scene's ON command is sent.)
3. Send the following command sequence:

M16	N16	O16	P16
-----	-----	-----	-----

4. Transmit the desired scene address (house and unit code) to lock-in new scene. The scene is now ready for use.

Tip:
Be careful not to "fat-finger" the buttons as you send these sequences.

Removing a module from a Scene:

1. Transmit the "clear" sequence:

O16	N16	M16	P16	M16
-----	-----	-----	-----	-----

2. Using a controller, send the module's primary address plus an ON or OFF.
3. Send the following command sequence:

O16	P16	M16	N16
-----	-----	-----	-----

4. Transmit the scene address (house and unit code) that is to be removed.

The scene is now removed from the module.

Tip:
Whenever the CLEAR sequence is sent, you will have 4 minutes to make your adjustments.

Other Options

Disable PLC Transmissions

The ApplianceLinc's ability to transmit may be disabled if the feature is not needed, interferes with other home automation tasks, or just to cut down on the amount of PLC traffic on the lines. It can be re-enabled later if necessary. Please note that the electronics that connect the ApplianceLinc's transmitter circuitry to the AC line are still in place and, like all transmitters, will absorb some of the PLC signals from other transmitters.

1. Send a signal to turn off the ApplianceLinc.
2. Transmit the "clear" sequence: O16, N16, M16, P16, M16.
3. Send an "ON" signal to the ApplianceLinc's primary address (or if local control is enabled, turn on the load's ON/OFF switch to on).
4. Send the following command sequence to disable the transmitter:

M16	N16	P16	O16	P16
-----	-----	-----	-----	-----

The transmitter is now disabled.

Enable PLC Transmissions (default is enabled)

1. Send a signal to turn off the ApplianceLinc.
2. Transmit the "clear" sequence: O16, N16, M16, P16, M16.
3. Send an "ON" signal to the ApplianceLinc's primary address (or if local control is enabled, turn on the load's ON/OFF switch to on).
4. Send the following command sequence to enable the transmitter:

O16	M16	N16	P16	P16
-----	-----	-----	-----	-----

The transmitter is now re-enabled.

Disable Programming

Once the ApplianceLinc is set up, it can be programmed to lockout any changes. Any changes made at the module (by pressing the Set Button) or remotely will be ignored. Please note that all Smarthome-brand modules, switches, or transmitters that are plugged in or electrically active will be locked out.

1. Send the following command sequence to disable the programming:

M16	O16	P16	N16	M16
-----	-----	-----	-----	-----

Re-Enable Programming (default is enabled)

1. Send the following command sequence to enable programming:

N16	M16	O16	P16	P16
-----	-----	-----	-----	-----

Other Features

Power Restore

In the event of a power loss, ApplianceLinc will automatically return the load being controlled to its last power state when the power was interrupted. If the it is plugged into an outlet that is controlled by a wall switch, turning on the wall switch will restore power to the module and it will come back on to its last state.

Status Request

It is possible with some home automation interfaces and products to query the status of an Appliance 2-Way. It will respond to Status Request signals that are received for its base address. The sample session on the right is from a PowerLinc™ Controller.

Example: SwitchLinc is ON	Example: SwitchLinc is OFF
Sent by Interface A Unit(1) House A, Unit(1), Status Request	Sent by Interface HC: A Unit(1) House A, Unit(1), Status Request
Received from SwitchLinc House A, Unit(1), Status is ON HC: A Unit(1) House A, Unit(1), On	Received from SwitchLinc House A, Unit(1), Status is OFF HC: A Unit(1) House A, Unit(1), Off

Factory Reset (to default settings)

The factory reset procedure can be used to clear the ApplianceLinc's memory and restore its factory default settings. This procedure will clear the unit of all addresses.

1. Unplug the ApplianceLinc from the receptacle for about 10 seconds.
2. While holding down the set button on the lower right-hand side, plug it back in.
3. After plugging the module back in, continue to hold down the set button for about 2 or 3 more seconds.
4. Release the set button; the Green Status LED will remain on.
5. After 30 seconds, the load will turn on and the module will be reset to primary address A-1 and ready for programming or use.

Understanding the Local Control

The local control feature allows a user to turn on a lamp or appliance without having to send a signal to the ApplianceLinc module. The controlled load can be turned on and off manually by the switch on the device (i.e. a switch on a lamp). The local control feature can be successfully used with most loads including heaters and incandescent lamps.

However, some loads may cause the circuit to malfunction. In particular, we have found that fluorescent lights, devices with motors, and other electric/electronic controls may

result in false triggering. This may happen when an OFF command is sent to the module and it turns back on a few seconds later. For these loads, it is recommended that the load detect feature be turned off, (by sending an OFF during the setting of the primary address).



ApplianceLinc 2-Way Modules will transmit an ON command for the primary address when the controlled load is switched from OFF to ON. It will not send an OFF command when the load is manually switched off.

Controlling Devices that have a "Soft-Switch"

Some AC powered devices may not turn on when controlled by an ApplianceLinc module. These devices may have a "soft-switch", which is a set of electronics that controls the ON/OFF status of the device. Simply applying power to the device may not cause it to turn on.

A soft-switch controlled device will require either a manual pressing of a power button on the device or a remote control signal. The most common example of a soft-switch operated device is a television. Often plugging in a to an outlet television does not cause it turn on. Instead, when it is plugged in, power is applied to some circuits, like the remote control receiver in the set. To turn it on, one must press the physical POWER button on the set or on the remote control. Most home entertainment gear and computers operate by way of a soft switch.

You can test your device for compatibility with ApplianceLinc by turning on the device while still plugged into the outlet. Then, remove the AC cord from the wall and wait a few seconds. After a few moments, plug the AC cord back into the wall and observe if the device turns back on. If it does, then ApplianceLinc will be able to turn it on. Otherwise, ApplianceLinc can only turn off a device like this.

If the device fails the test above and has an infrared remote control, you can still use PLC commands to control it. Smarthome's IRLinc™ #1623 is an intelligent controller that can accept regular PLC commands and send out infrared remote control signals to the device. Up to 31 IR commands can be taught to the unit and associated to PLC signals. Please visit the Smarthome web site or your distributor for more information.



How Powerline Signals Travel Around A Home and How To Improve Reliability

Most homes in North America have two lines of 120 volts coming into the home from the utility company. This split-single phase electricity is divided out at the home's breaker box into the circuits that feed light switches, plug-in outlets, and appliances. Half of the electricity outlets and wall switches are fed by one of the 120-volt lines and the second 120-volt line feeds the other half. The intermittent operation of PLC/X10 modules usually happens when the transmitter is sending signals on one line and the receiver module is plugged into an outlet on the other line. For the signals to get to the receiver, it must leave the home, travel to the utility company transformer then come back in on the other AC line. By the time the signal gets back to the home, travels through the electrical meter and circuit breaker box, there may not be enough signal left to trigger the module.



The first order of business will be to install a coupler-repeater, also known as amplifier. A coupler-repeater will 'see' the incoming signal, re-generate it, and blast it out over both lines of the 120 volts. We recommend that any home larger than 3000 square feet install a coupler-repeater. In smaller homes, a passive phase coupler also known as a signal bridge may give satisfactory results.

Once the signal has been amplified, it's time to preserve it. Since PLC signals go everywhere in the home, some electrical devices will have more of an effect on the signal strength than other devices. PLC signals are like water pressure in pipes, it actually goes everywhere it can, not just to the receiving module. In the last 20 years, an explosion of electrical devices has invaded our homes. Computers, video gear, and fancy high-end electronics are more present than in years past. The more complicated the electrical power supply is in a device, the more likely it is to absorb PLC signals. Engineers who design power supplies build in traps to filter out and kill electrical noise. Unfortunately, the PLC signals looks like electrical noise to these devices. The result is that a large percent of the transmitted signal is lost to these devices leaving less for the receivers. The most common sources of signal loss are:

- Televisions
- Audio/Video gear
- Power supplies for laptops and cell phones
- Computer systems
- Computer UPS's and power strips

Testing for the problem is simple. If a device is suspected of causing signal absorption, unplug the device and then re-transmit the signal. It is very important that the device is unplugged and not just turned off! If the controlled product begins working after the appliance is unplugged, then a filter will be needed on that device to keep PLC signals from being absorbed and raise the signal strength of the entire home. Smarthome has many filters that will fix the problem. An average home will need between three and five filters. If you are in the business of installing automation systems and not in the 'call-back' business, include some of these in your bid as part of the standard package.



Smarthome's BoosterLinc™ can solve localized problems



SignalLinc Repeater is ideal for improving the home automation signal strength throughout all the outlets in a home. But, as the PLC signals travel down a circuit and away from the repeater, it will weaken by the same factors listed above. Additionally, the signal will get weaker as it passes installed PLC transmitters. Each PLC transmitter contains a tuned circuit that when it's not sending signals it's absorbing them! In addition to plug-in transmitters, LampLinc™ 2-Way, SwitchLincs™ 2-Ways, ToggleLinc™ 2-Ways, ApplianceLinc™ 2-Ways, KeypadLincs™, or any mod-

ule with 2-way abilities will load down the available signal. With so many transmitters installed, the signal is loaded down to a point where some modules will be unable to receive a signal. Installing a multiple 2-way devices on one branch circuit may necessitate the use of local amplifier like Smarthome's BoosterLinc.

Troubleshooting & Technical Support

Problem	Possible Cause	Solution
The load turned on by itself.	ApplianceLinc was triggered by a scene or a legitimate PLC signal.	Check scene membership and remove any unwanted scenes from ApplianceLinc or perform a Factory Reset to clear it.
		Install an PLC Signal Blocker in the home to keep stray signals from neighboring homes from interfering.
The load does not come on when the switch is manually activated.	The Local Control feature may be set to off (set during primary address setting).	Re-set the primary address by sending the house and unit code followed by an "ON" command.
ApplianceLinc is not taking programming.	Program Disable mode is on.	Re-enable Program Mode or perform a Reset.
	May not have been "activated" during the four-minute window.	During scene programming, the ApplianceLinc must be activated within four minutes of receiving the Clear sequence.
Difficulty setting scenes with a maxi-controller.	The CLEAR, SET, or another command was sent in the wrong order.	Don't hold down the buttons too long, it may send duplicate codes.
ApplianceLinc is not transmitting to other modules or receiving signals from transmitters.	PLC transmission are disabled.	Re-enable transmit mode or reform a Reset.
	Other modules are loading down the signal.	Install a coupler-repeater, a BoosterLinc, or a phase coupler like SignalLinc.
	The module is plugged into a power strip.	PLC signals can't travel through power filters. Plugging the ApplianceLinc directly into the wall works best.
	Move the transmitter to another outlet.	ApplianceLinc needs 50mV of signal strength for consistently reliable operation. Also, the Green Status LED will blink when there is any activity on the powerline
The module is locked up.	A surge or excessive noise on the power line may have glitched it.	Unplug the module for a 10 seconds and re-install.
		If the above doesn't work, perform a Reset.
The ApplianceLinc does not fit in my North American wall outlet.	The polarized prongs are not compatible with older AC outlets.	The ApplianceLinc 's AC prongs are polarized so that it may only be inserted one way into a receptacle. If the home's outlets are over 40 years old, replacing the outlet with a modern one will allow the ApplianceLinc and many other modern devices to be used safely. DO NOT defeat this safety feature.
ApplianceLinc doesn't transmit a signal when the load has been switched off.	ApplianceLinc 2-Way can't "tell" when the load has been manually turned off like it can when the load is turned on.	LampLinc 2-Way can do this, but it is limited to controlling up to 450-watts of a dimmable load.
The light does not come on when manually switched on or when an "ON" signal is sent.	Some type of bulbs, especially compact fluorescent lamps can confuse the ApplianceLinc.	Set the Local Control feature to OFF. Go into the Set Primary Address mode (press and hold the Set Button), send the address, (e.g., M8) and an "OFF" command.
When setting the Primary Address, the indicator LED continues to flash after sending the address.	The user is not pressing "ON" or "OFF" to set the Local Control Mode	After sending the PLC signal for the Primary Address, an "ON" command needs to be sent to enable local control. An "OFF" may be sent if local control is not preferred.
When the light is off, occasionally the bulb flashes.	A fluorescent bulb is installed in the lamp controlled by the ApplianceLinc.	The local control sense voltage is charging up components inside the compact fluorescent bulb. When enough electricity is stored, it produces a flash. Setting the Local Control option to OFF will fix this. Also, some brands of CFL's don't do this.

If these solutions have been tried, the manual has been reviewed and you still cannot resolve an issue you're having with the ApplianceLinc;

- Search our on-line knowledge base at: <http://smarthome.custhelp.com>
- E-mail tech@smarthome.com
- Call our Technical Support Dept. at 949-221-9200

Specifications

Load Types:	All plug-in loads up to the rated maximums below
Maximum Load:	15 Amp Resistive, 480 Watts for Inductive and incandescent loads
Addresses:	1 PLC (X10) Base (Primary) Address of 256 possible.
Scene Addresses:	Up to 64 PLC (X10) Scene Addresses of 255 possible
Maximum number of ApplianceLincs per circuit:	10 (with more than 6, a PLC amplified coupler-repeater is highly recommended)
Minimum load:	None
Minimum PLC transmit level:	3.16 Vp-p across 5 Ohms
Minimum PLC receive level:	10 mV
Surge Protection:	MOV rated for 150 Volts
Feed through outlet:	Max 15 amps less the load controlled by the ApplianceLinc module
Input Power:	120 Volts AC +/- 10%, 60 Hertz, 100mA (Idle)
Operating Temperature:	32 to 122 degrees Fahrenheit
Dimensions:	4"(h) x 2.5"(w) x 1.5"(d)
Weight:	4.37 oz

SMARTHOME
design

Invest in better Home Automation Products

Unlike most electric items, many PLC-based products haven't changed much over the years.



*KeypadLinc 6
with 450W inte-
grated dimmer*

Our Marketing and Customer Service teams surveyed our customers, like you, and our engineers have invented new and better wall switches and plug-in modules. We include more features, higher load handling, and better signal sensitivity for a superior user experience. While in some cases, they cost more; we hope you'll agree that not having to replace a dead module every couple years is worth the added expense and reduced aggravation. Please visit a retailer or distributor for the complete line of automation products from Smarthome Design. Check out our web site at:

<http://www.smarthome.com/smarthomedesignstore.html>

About ApplianceLinc's Certification

ApplianceLinc has been thoroughly tested by ITS ETL SEMKO, a nationally recognized independent third-party testing laboratory. Products bearing 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.



Smarthome Limited Warranty

Smarthome warrants to the original consumer purchaser of this product that, for a period of two years 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 Owner's Manual. 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, Smarthome 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 Smarthome'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

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

SMARTHOME™
MAKING LIFE MORE CONVENIENT, SAFE AND FUN

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SwitchLinc, KeypadLinc, SignalLinc, Lamplinc, PowerLinc, ToggleLinc, BoosterLinc, ApplianceLinc, ControLinc, TesterLinc, FilterLinc, Probelinc, TempLinc, TouchLinc, IR Linc & SmarthomeLive are trademarked by Smarthome, Inc.

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