

Wireless Smart Plug User Guide

Production Note: Please use images from the Dove Project throughout this document.

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Introduction

Our wireless Smart Plug allows you to easily control your appliances and other Jennet-IP compliant devices from anywhere. The Smart Plug is a smart outlet adapter that connects your device to an electrical outlet and your home network.

You can manage your connected device using our mobile application or remote control. Our mobile application allows you to create a Smart Control schedule that automates your devices to your personal routine. You can program the smart schedule to turn devices on or off at any time and reduce the power of a device.



Our solution consists of two types of Smart Plugs:

- **Standard**

Our standard Smart Plug allows you to power on or off your connected device. For instance, you can plug your oven into a Smart Plug, then use the mobile application to preheat your oven while standing in line at the grocery store. If you're not quite ready to start cooking once at home, you can use the remote control to turn your oven off; all without leaving the living room sofa.

- **Dimmable**

With our dimmable Smart Plug, you can dim your connected device as well as turn the power on and off. Simply, slide the dimmer on the mobile application or remote control or press the dimmer on the Smart Plug. For instance, you can dim the lighting in your home or reduce the oven temperature remotely.

Smart Plugs automatically connect to your Wireless Gateway and link to your home's existing Wi-Fi network to provide high-quality reliable communication. The Wireless Gateway passes controls between your devices and our mobile application, allowing you to control your devices from any location.



Production Note – this image needs updating

Greenwave Systems Smart Home Platform

The Greenwave Systems Smart Home Platform helps create a smart, energy-efficient home by monitoring and controlling your appliances, electronics and lighting. You can conserve energy with minimal impact to your lifestyle by using our products to easily manage your devices.

Simply connect the Gateway or Wireless Gateway to your home network, plug your devices into our Smart Plug, connect your network lamps, and then control your power usage through a mobile application.

For additional information on the Greenwave Systems Smart Home Platform, please access our website at www.greenwavesystems.com.



Components

Dimmable Smart Plug

Activity Indicator

Displays the operation status.

Power Button

Toggles the power on and off and pairs your PowerNode with your Wireless Gateway. It also resets the settings to factory default. To reset, while the PowerNode is powered on, press and hold the **Power** button for at least 5 seconds.

PowerNode Plug

Plugs into a standard US or EU electrical outlet.

Standard Smart Plug

Activity Indicator

Displays the operation status.

Power Button

Toggles the power on and off and pairs your PowerNode with your Wireless Gateway. It also resets the settings to factory default. To reset, while the PowerNode is powered on, press and hold the **Power** button for at least 5 seconds.

Activity Indicator

The Smart Plug has four operation modes that display the following patterns:

Mode	Indication and Description
Unpaired	Pair your Smart Plug with your Gateway: When you plug your Smart Plug into a power outlet, the Activity indicator starts to flash at 1Hz until it pairs with your Gateway. The Activity indicator becomes solid green and the Smart Plug is powered on. Once your Smart Plug is paired, it remains paired to your Gateway, even when unplugged. When plugged into a power outlet, the Activity indicator on your paired Smart Plug immediately turns solid green and is powered on.
Powered Off	Activity indicator — off (no color): Smart Plug is powered off.
Powered On	Activity indicator — green: Smart Plug is powered on.
Identify Mode	Activity indicator — flashing green slowly at 0.4Hz: Smart Plug is being configured by the mobile application or your Gateway. The identify mode allows you to easily see which Smart Plug is being configured.
Factory Reset	Activity indicator — flashing green at 2Hz for 5 seconds: The factory reset has started, followed by the Smart Plug entering unpaired mode. In unpaired mode, the Activity indicator flashes green at 1Hz.

Access Additional Information

For additional information on supported devices and peripherals, please access the Greenwave Systems website at www.greenwavesystems.com.

Getting Started

Before you plug in and install your Smart Plug, verify your Wireless Gateway is operating and connected to the Internet. For information on setting up your Wireless Gateway, refer to the instructions that came with your Wireless Gateway.

Follow these steps to install your Smart Plug:

Step 1: Pair your Smart Plug with your Wireless Gateway

Step 2: Connect your device to your Smart Plug

Step 3: Add your connected device to your online account

Step 1: Pair your Smart Plug with your Wireless Gateway

You can select your appliance or electronic device to plug into your Smart Plug. The best choice is devices, such as ovens, that power down instantly and do not require a staged power-down process. For instance, computers use a staged process to power down and instantly powering off the power may cause loss of work.

Perform the following steps:

1. Plug your Smart Plug into an electrical outlet. The **Power** button turns green to indicate that power is on.

As your Smart Plug automatically searches for your Wireless Gateway and home network, the Power indicator begins to flash green. This pairing process continues until your Wireless Gateway is found and the Power indicator turns a solid green.

2. If needed, move your Smart Plug to the location where you will plug in your device. When you unplug your Smart Plug to move it, your Smart Plug remains paired to your Wireless Gateway.

Step 2: Connect Your Device to your Smart Plug

You can select your appliance or electronic device to plug into your Smart Plug. The best choice is a device, such as an oven, that power down instantly and do not require a staged power-down process. In contrast, computers use a staged process to power down and instantly powering off the power may cause loss of work.

Perform the following steps:

1. Select the appliance or electronic device to connect to your Smart Plug.
2. Turn the device off, unplug it from the power source, and then plug it into your Smart Plug port.
3. Turn the device on.
4. Verify your Smart Plug is powered on. You can now add your connected device to your online account.

Step 3: Add Connected Device to Your Online Account

To remotely manage your connected device, you must set up your connected device in your online account. When you log in to your account, you can also access online help for additional information and instructions on working with the mobile devices.

Perform the following steps:

1. Using your smart device, log in to your online account. The **Main** menu displays.
2. Tap **Add New Devices**. The wizard guides you through the process.

Operating Information

Appliance and Electronic Device Selection Guidelines

When choosing the appliance and electronic device to connect to your Smart Plug, please keep the following in mind:

- Devices, such as computers, are designed to require a staged power-down process. It is possible that any instant loss of power, such as a Smart Plug being powered off, may cause temporary or permanent damage to such devices. We recommend you that refer to the manufacturer's instructions before deciding to use a Smart Plug with such a device.
- Medical equipment and other special appliances should never be powered on and off through a Smart Plug because you might inadvertently disconnect power to the device.
- Do not plug devices, such as irons, space heaters or power tools, into a Smart Plug. These types of devices should never be left unattended and should never be left in the ON position.

Network information

The Connected by TCP solution operates in the ISM bands 2.4GHz spectrum, using a tree-based Jennet-IP network protocol. The exact operating frequency channel will be automatically selected based on network traffic in the deployed environment. Jennet's frequency channels are strategically placed between Wi-Fi channels to avoid interference.

Indoor Use Only

Your Smart Plug should only be used in dry, indoor locations. Do not use your Smart Plug in high-humidity locations such as greenhouses, saunas, washrooms or patios. Do not use your Smart Plug in locations where it can get wet, such as near aquariums or running water.

Do Not Disassemble

Your Smart Plug has no user-serviceable parts inside. If you experience persistent malfunctions, please contact Customer Service to arrange for repair at a certified service location. Do not attempt to disassemble your Smart Plug for any reason.

Disposing of Your Used Product

This product complies with the WEEE Directive (2002/96/EC) marking requirements. The affixed label indicates that you must not discard this electrical / electronic product in domestic household waste.



WEEE Product Category. With reference to the equipment types in the WEEE Directive Annex 1, this product is classed as category 3 "IT and Telecommunications Equipment."

DO NOT DISPOSE IN DOMESTIC HOUSEHOLD WASTE. To return unwanted products, contact your local Greenwave Systems office.

About Greenwave Systems

Greenwave Systems is an Internet of Things (IoT) software and services company whose 360° solution enables leading brands to quickly and easily deliver new products and services to consumers. Greenwave works closely with its customers to design, build, deploy and manage connected appliances and services that both improve efficiency and enhance productivity. Learn more about Greenwave at www.GreenwaveSystems.com or follow us on Twitter at @GreenwaveSys.

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Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

Industry Canada Statement

This device complies with Industry Canada license exempt RSS Standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux radiations

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.