User's Guide

TRENDnet®

Home Smart Switch (with AC WiFi Extender)

THA-103AC

Contents

Product Overview 2

Package Contents 2

Overview 2

Interface 3

Setting up THA-103AC 4

WPS Setup 4

Web Browser Setup 4

iOS Setup 4

Android Setup 6

Managing the App 9

iOS system 9

Power on/off the connected device 9

Unlink a smart switch 9

Modify Device Password 10

Scheduling 10

Wi-Fi Settings 12

Android system 13

Power on/off the connected device 13

Unlink a smart switch 13

Modify Device Password 14

Scheduling 14

Wi-Fi Settings / Wi-Fi Information 16

Browser Management 17

Mode 17

Device Mode 17

Repeater Mode 17

LAN 18

DHCP Client 18

Static IP 18

Wireless 18

Wi-Fi Settings 18

Wireless Clients 19

Administrator 20

Management 20

Update Firmware 20

Configuration 20

LED Control 21

Power Control 21

Power Schedule 21

Status 22

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Product Overview

THA-103AC

Package Contents

In addition to your router, the package includes:

- THA-103AC
- Quick Installation Guide
- CD-ROM (User's Guide)

If any package contents are missing or damaged, please contact the retail store, online retailer, or reseller/distributor from which the product was purchased.

Overview

TRENDnet's Home Smart Switch with WiFi AC Extender, model THA-103AC, is a combination smart electrical outlet and powerful AC750 wireless extender. Use the free Apple® or Android™ mobile app from any internet connection to turn on and off a light, fan, electronic device, or appliance. Create a daily schedule to turn on/off the outlet to match your needs or to give the illusion that you're home. Place the THA-103AC in an area of your home with low wireless coverage – the powerful built-in WiFi extender connects to either an existing WiFi AC or WiFi N router and broadcasts WiFi AC433 or N300 networks.

Power Controller

Quick App-Based Setup

Complete the intuitive app-based setup in minutes

Remote Power Control

Turn a light, fan, electronic device, or appliance on/off from any mobile internet connection

On/Off Schedule

Create a weekly on/off schedule for a light, fan, or another device to match your needs or to give the illusion that you're home

No Clutter

The compact form factor stays off the ground by plugging directly into an outlet

Free App

TRENDnet's free iOS® and Android™ app controls multiple THA-103AC units and other TRENDnet home control devices from any internet connection

Power Consumption

See how much power your device is consuming with real-time electrical consumption information listed within the app

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Over Current Protection

Trips relay when current exceeds 15 Amps

Wireless Extender

AC750 WiFi Extender

Connects to either an existing WiFi AC or WiFi N router and broadcasts WiFi AC433 or N300 networks

External Antennas

Powerful external dual band antennas maximize WiFi coverage

One Touch Connection

Securely connect to the router at the touch of the Wi-Fi Protected Setup (WPS) button

LED Indicators

LED indicators convey device status

Compatibility

Works with wireless G, N and AC routers

Interface

Power Switch (right panel) – To turn the device on and off physically

Reset button (left panel) – Press and hold the reset button for 5 seconds to reset the device to factory default settings. (saving the previous configuration is recommended)

WiFi LED – Indicates if wireless network is on.
When pressing the WPS button to connect to 5 Ghz network, this LED will flash and stay solid once the connection is established.

WPS LED – When pressing the WPS button to connect to 2.4 Ghz network, this LED will Flash and stay solid once the connection is established.

WPS Button – Press and hold the WPS button less than 5 seconds to connect to 2.4 Ghz network, longer to connect to 5 Ghz network.

Signal LEDs – Displays the signal strength to the connected network.

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Setting up THA-103AC

There are 3 ways to setup the THA-103AC switch to connect with your existing wireless network; WPS, using a mobile app, or going through device's web configuration page.

When using a mobile app to setup the device manually, the mobile device needs to support either wireless N or wireless AC connection. If your mobile device does not support wireless AC connection, you will only see THA-103_24G_1234 SSID instead of both SSIDs.

WPS Setup

1. Plug the device near a router and wait for the device to boot up.
2. Press the WPS button on the router and press the WPS button on THA-103AC to initiate the connection
3. Once connected successfully, unplug THA-103AC and move to the final destination.

Note: If you use WPS to connect to 2.4Ghz network, both bands on THA-103AC will use router's 2.4Ghz wireless encryption. If you use WPS to connect to the 5Ghz on the router, both bands on THA-103AC will use router's 5Ghz wireless encryption. You can manually change them by going into the configuration page of THA-103AC. And also please make sure the switch is within the range of your wireless network.

Web Browser Setup

Please refer to Browser Management section for browser installation and for more app features, please refer to Managing the App section.

iOS Setup

A smart phone is required to proceed with this setup.

1. Download **TRENDnet Smart Home** app from Google Play or Apple Store.

2. Plug the THA-103AC to a power outlet and power on the device.
3. Connect your mobile phone to THA-103AC via wireless; you should be able to see a Network Name similar to THA-103AC_24G_1234 for 2.4 GHz wireless band or THA-103AC_5G_1234 for 5 GHz wireless band under the available wireless network list. Connect to one of it depending on your mobile phone's support (default wireless key is **password).** Once connected, open the TRENDnet Smart Home app.

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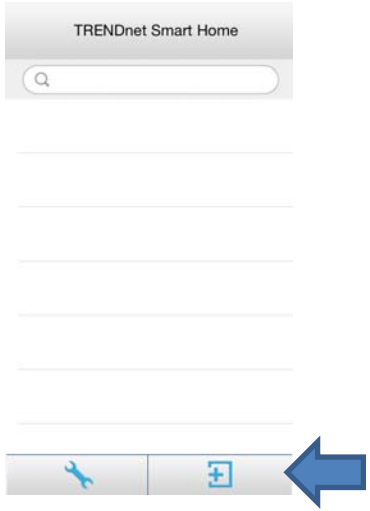
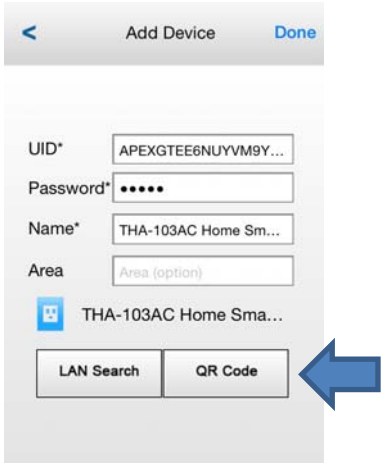
4. Tap on the **+** button to access the configuration page. You can add the device by using LAN search or QR code scan.



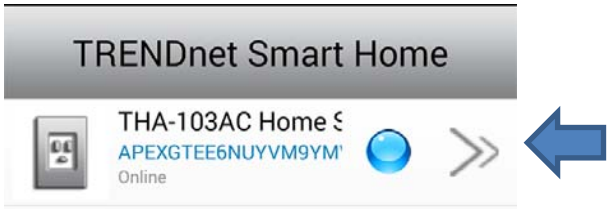
5. Tap on **QR Code** button and point your phone camera lens to the device's label where the QR code is located. The app should detect the THA-103AC's product ID and start to communicate with the device. (Please make sure your phone has a barcode scanner app, otherwise, please use the LAN search method).

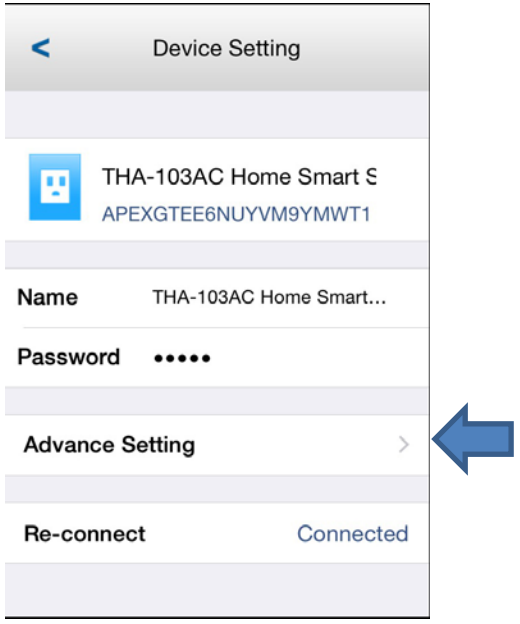


Enter the device's password (default is **admin**) and create a name for this switch.

6. Tap **Done** after the information is filled.

7. Tab the **>>** symbol to access the Device Settings → Advanced Setting → WiFi Setting and go to WiFi settings.





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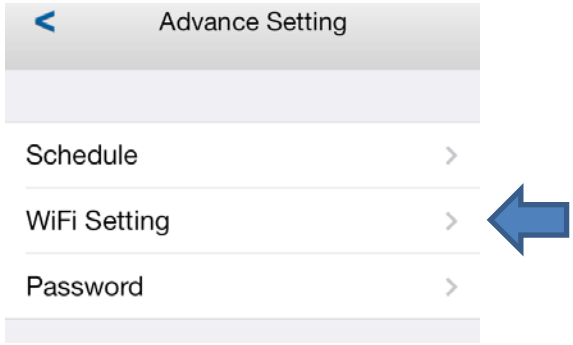
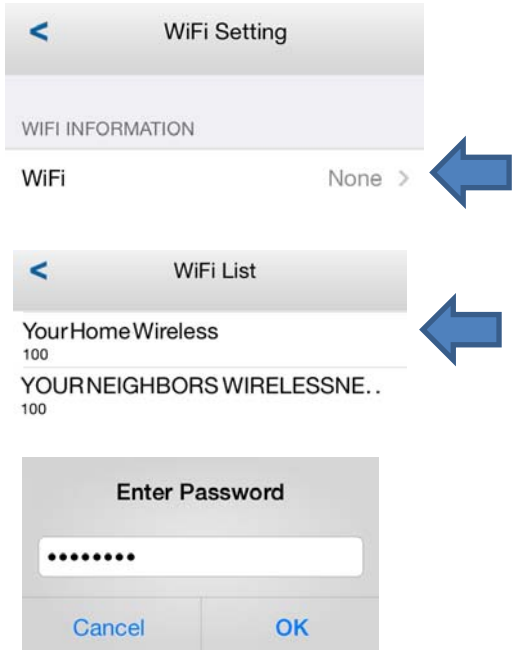
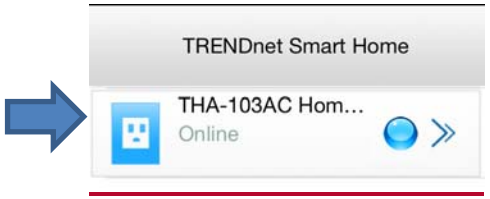


8. Select the Wireless SSID/Name you would like to connect to and enter the correct password, then tap **OK**.



Please allow couple of minutes for the device to connect to the home network and reboot.

9. Once you see the device Status is back to **Online**, the setup is complete. Now you can manage your appliances locally and remotely.



For more app features, please refer to **Managing the App** section. Once set up, the wireless repeater extended your wireless network automatically.

Android Setup

A smart phone is required to proceed with this setup.

1. Download **TRENDnet Smart Home** app from Google Play.

ANDROID APP ON Google play

2. Plug the THA-103AC to a power outlet and power on the device.

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3. Connect your mobile phone to THA-103AC; you should be able to see a Network Name similar to THA-103AC_24G_1234 for 2.4 GHz wireless band or THA-103AC_5G_1234 for 5 GHz wireless band under the available wireless network list. Connect to the available wireless network, depending on your mobile phone's support (default wireless key is **password).** Once connected, open the TRENDnet Smart Home app.

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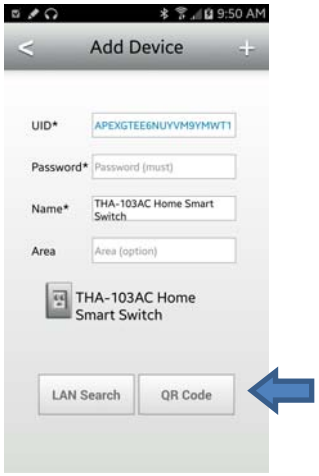
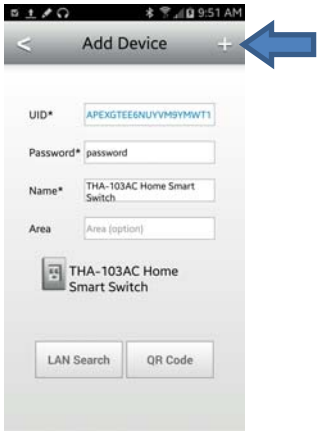


Enter the device's password (default is **admin**) and create a name for this switch.

6. Tap the **+** sign when the information is filled in.



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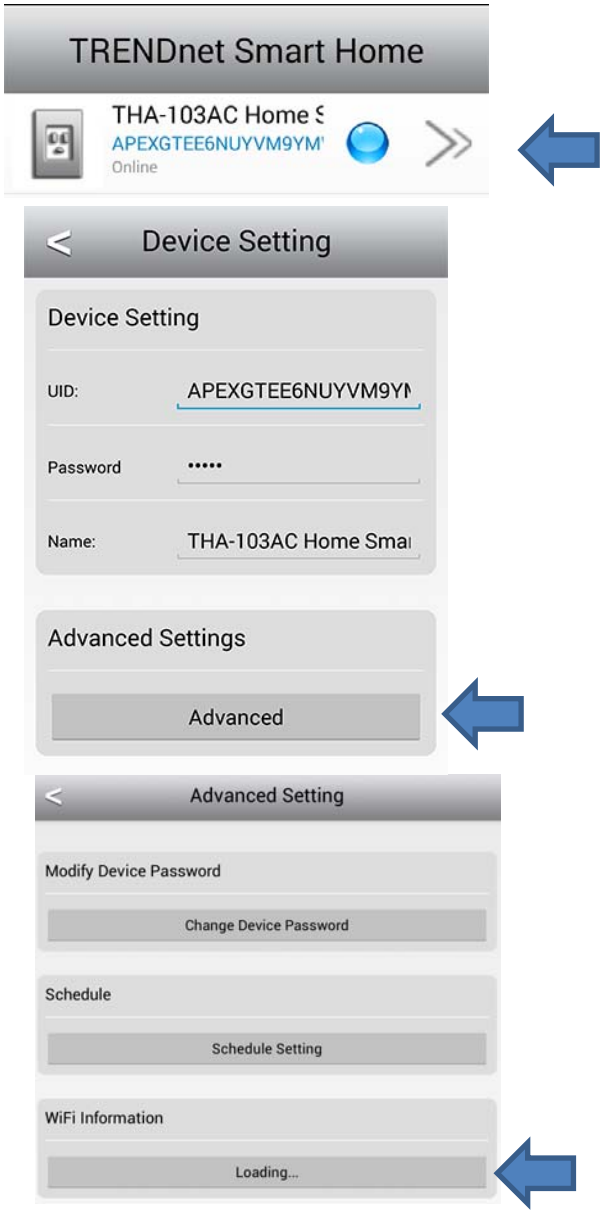
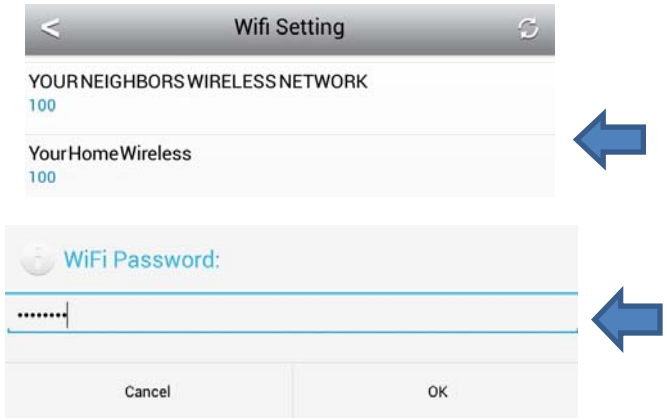
7. Tab the **>>** symbol to access Advanced Setting → WiFi Information and go to WiFi settings.



8. Select the Wireless SSID/Name you would like to connect to and enter the correct password, then tap **OK**.



Please allow couple of minutes for the device to connect to the wireless network and reboot.

9. When you see the device Status is back to **Online**, the setup is complete. Now you can manage your appliances locally and remotely.

For more app features, please refer to **Managing the App** section. Once set up, the wireless repeater extends your wireless network automatically.

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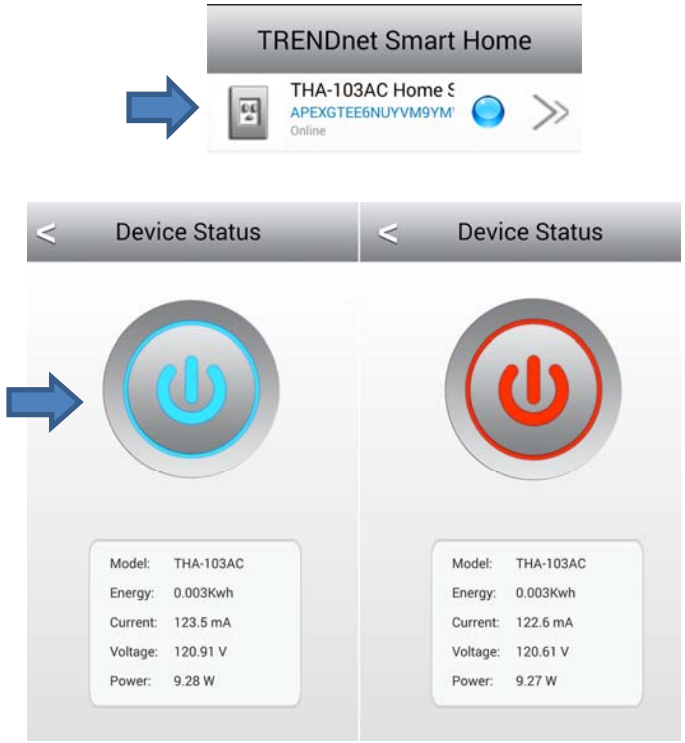
Managing the App

iOS system

Power on/off the connected device

1. Tap on the added switch and tap the power circle to turn the power on/off on the connected device.

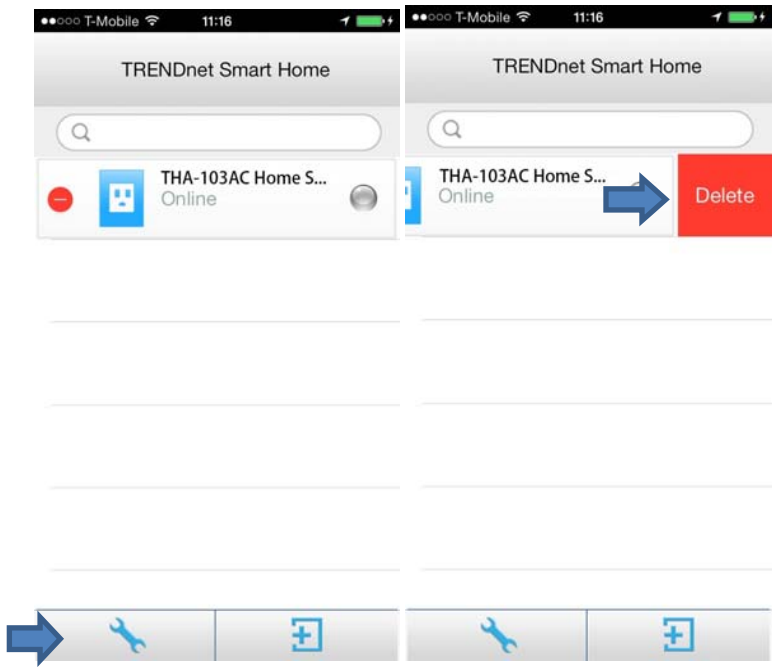


When the power icon is blue, the connected device is receiving power. Red means the outlet is powered off.

This page also displays the current power information related to the connected device, current, voltage and power. The Energy section displays the current total energy usage.

Unlink a smart switch

1. Tap the tool section; the delete button will appear. To delete the device, simply tap on the remove icon on the left then tap the Delete box again. Remember to tap the tool option again to return to the main screen.



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Modify Device Password

1. Tap on the **>>** symbol, **Advanced Setting** and tap on **Password**.

2. Enter the current device's password and enter the new password then click **OK**

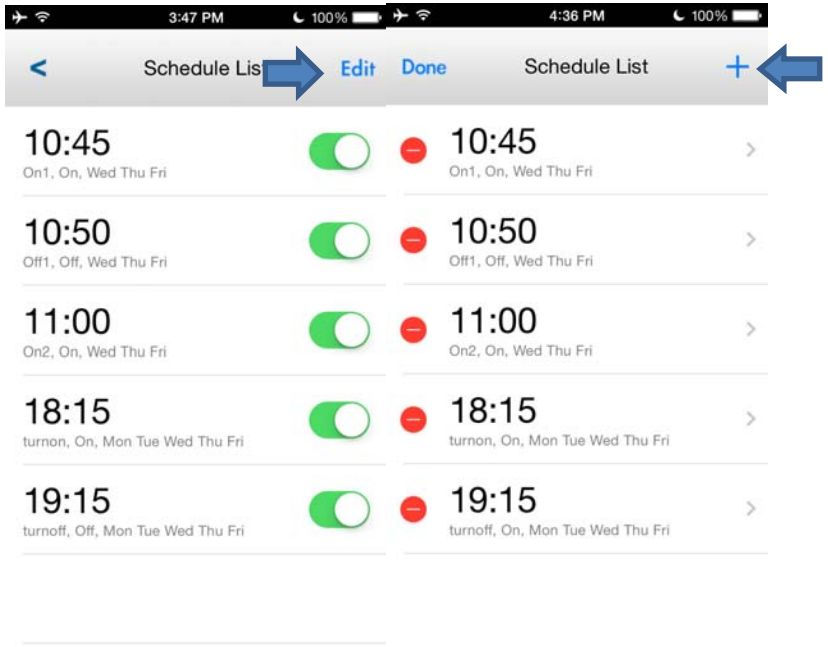
Note: If device password is changed from initial setup, please update the new password under Device Setting section.

Scheduling

You can create a schedule for the connected device to power on or off.

Add a Schedule

1. Tap on the **>>** symbol, **Advanced Setting** and tap on the **Schedule**. Tap on **Edit** and **+** symbol again to create a schedule.



2. Adjust the time, create a Description, select an Action, choose the day/days of the week then tap **Save** to save the schedule.

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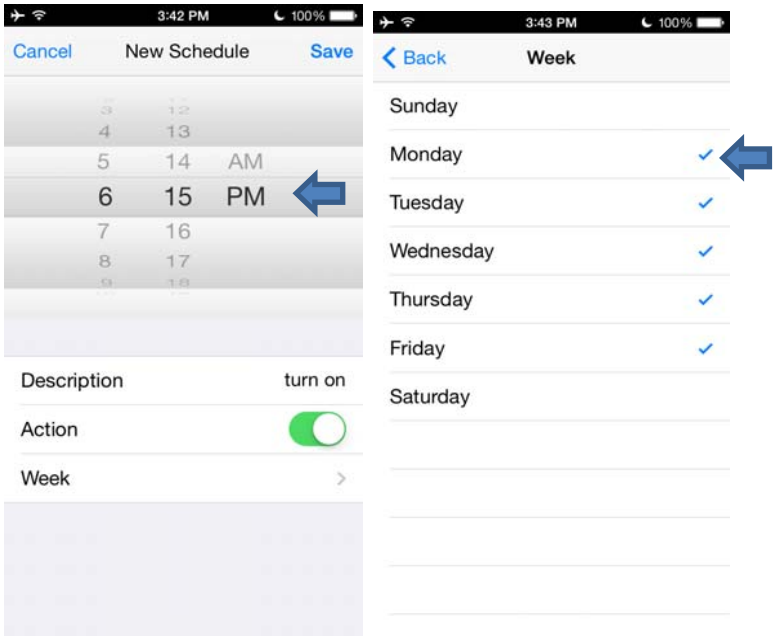

3. The schedule will be added to the schedule list

4. Once all schedules are added, tap **Done** to go back to the schedule list. You can also **enable/disable** this action from the schedule list page. When disabled, the power will not be changed.

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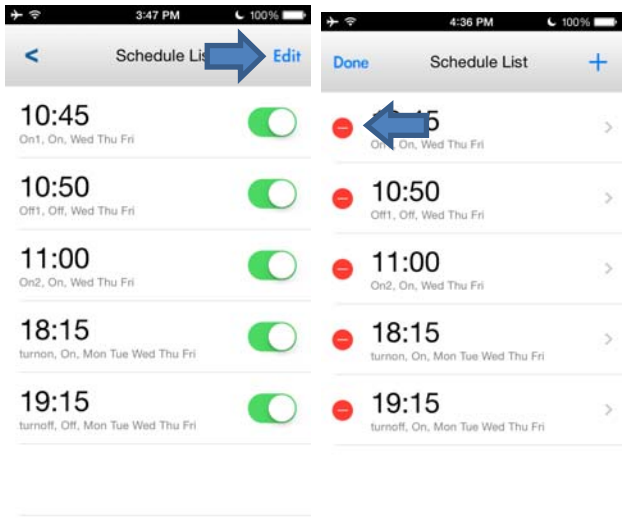
Delete a Schedule

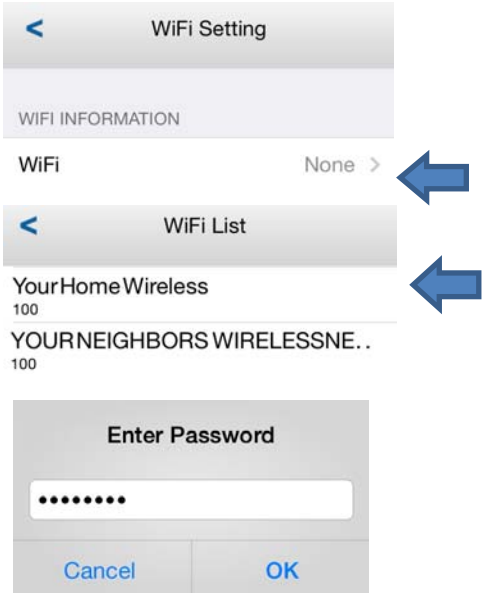
1. Tap on the **>>** symbol, **Advanced Setting** and tap on the **Schedule Setting**. Tap on **Edit** and tap on the delete symbol to remove a saved schedule.



2. When finished, tap **Done** to go back to the Schedule Setting list.

Wi-Fi Settings

1. Tap on the **>>** symbol, **Advanced Setting** and tap on the **WiFi Setting**
2. Tap on > and select a Wireless SSID/Name you would like to connect to and enter the correct password for that device then tap **OK**.



Please allow couple of minutes for the device to connect to the home network and reboot.

3. Once you see the device Status is back to **Online**, the setup is complete. Now you can manage your appliances locally and remotely.

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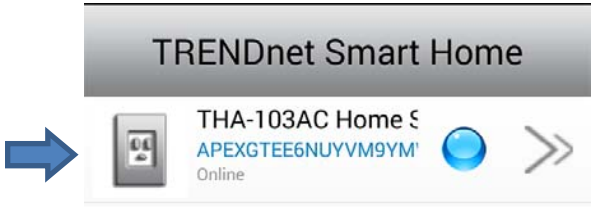
Android system

Power on/off the connected device

1. Tap on the added switch and tap the power circle to turn the power on/off on the connected device.



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Unlink a smart switch

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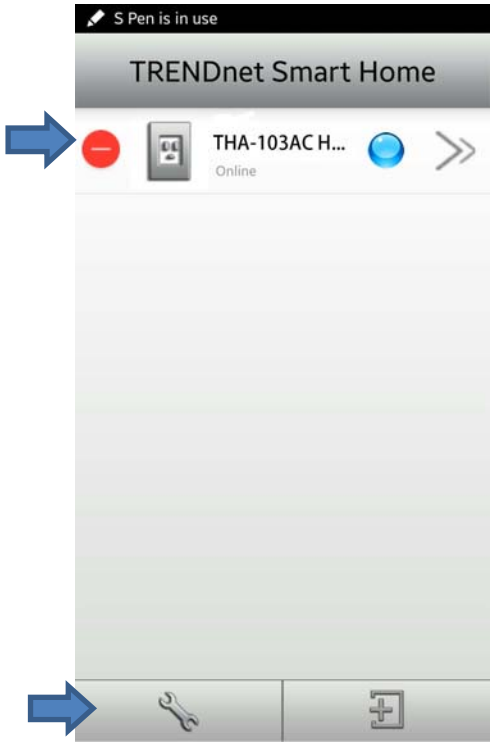

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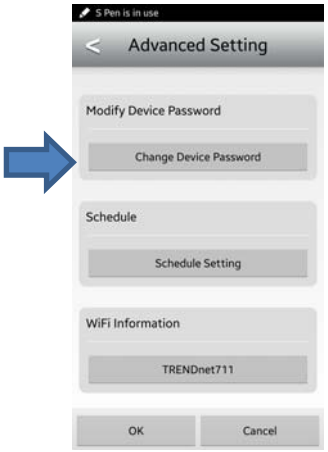
Modify Device Password

1. Tap on the **>>** symbol, **Advanced Setting**. Under the Modify Device Password section, tap on the **Change Device Password**.



2. Enter the current device's password and enter the new password then click **OK.**

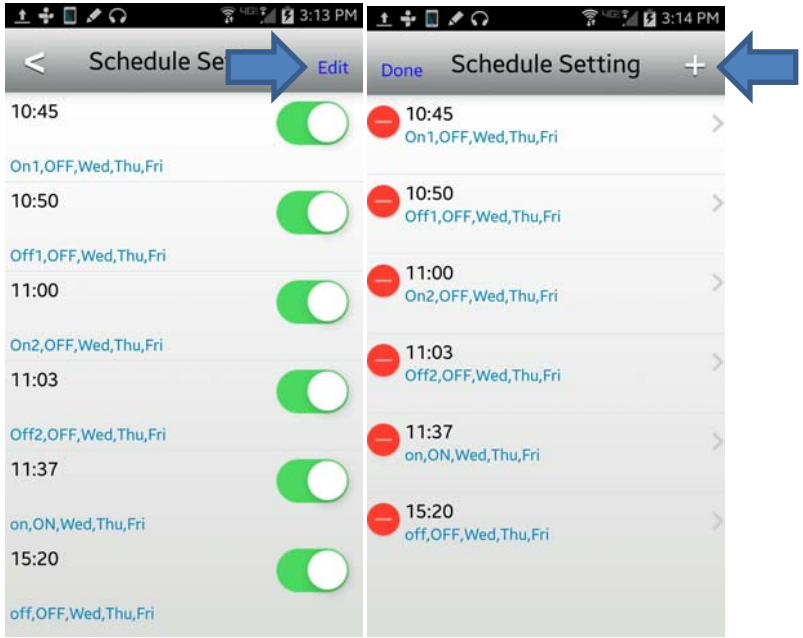
Note: If device password is changed from initial setup, please update the new password under Device Setting section.

Scheduling

You can create a schedule for the connected device to power on or off.

Add a Schedule

1. Tap on the **>>** symbol, **Advanced Setting** and tap on the **Schedule Setting**. Tap on **Edit** and tap on **+** symbol again to add a schedule.



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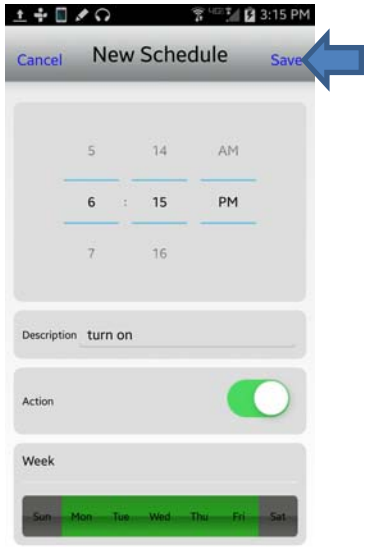
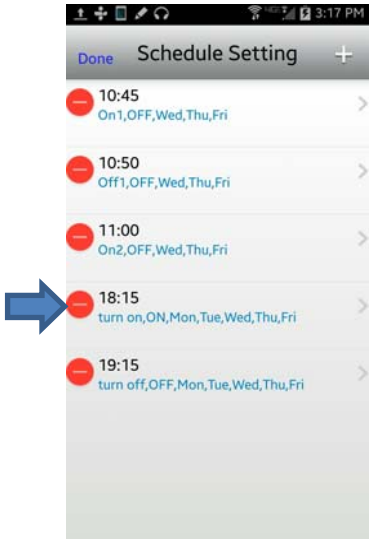
2. Adjust the time, create a name, select an action, choose the day/days of the week then tap **Save** to save the schedule.



3. The schedule will be added to the schedule list.



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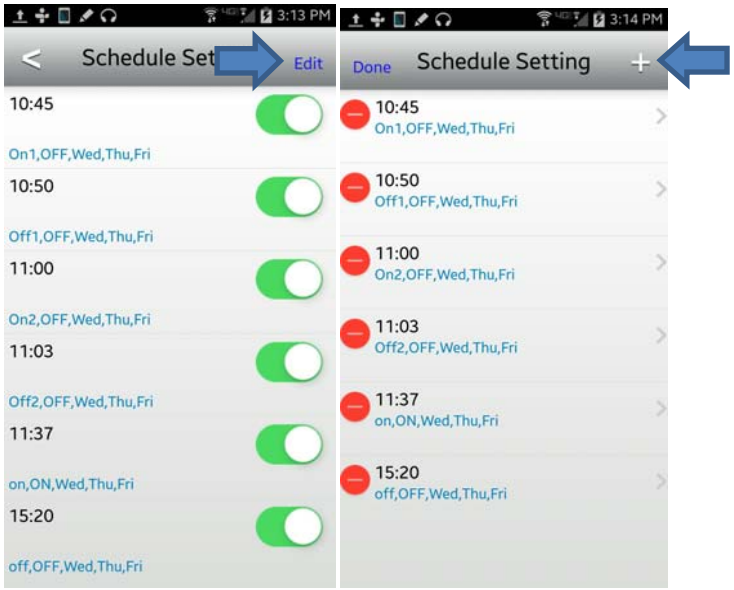

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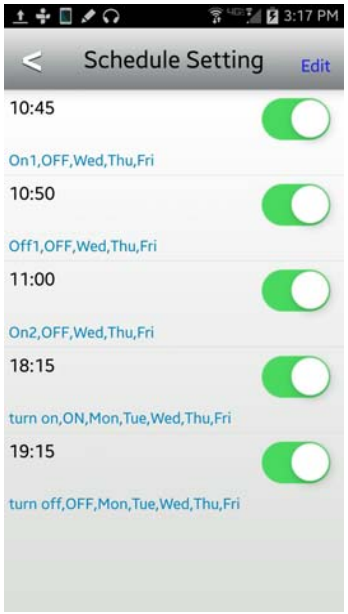
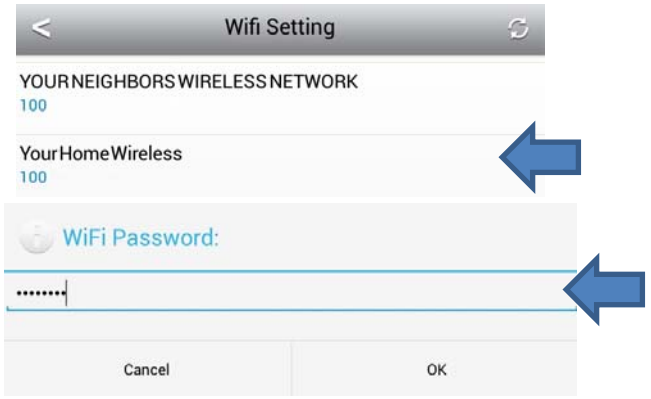
2. When finished, tap **Done** to go back to the Schedule Setting list.



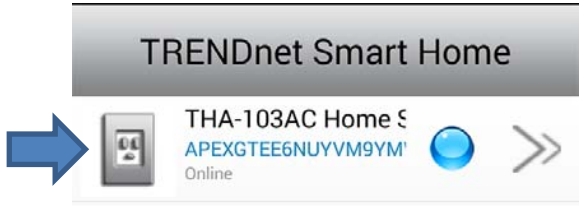
Wi-Fi Settings / Wi-Fi Information

1. Select the Wireless SSID/Name you would like to connect to and enter the password, then tap **OK**.



Please allow couple of minutes for the device to connect to the wireless network and reboot.

2. When you see the device Status is back to **Online**, the setup is complete. Now you can manage your appliances locally and remotely.



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Browser Management

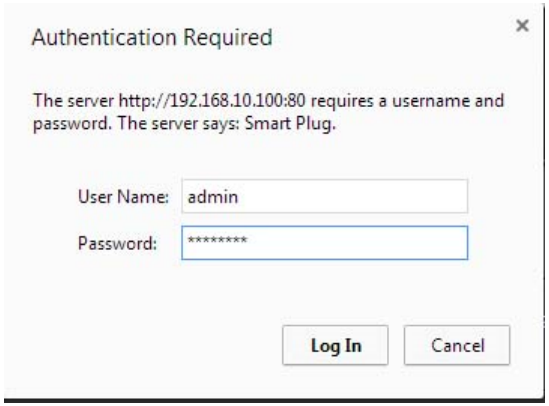
The Wireless and Administrator features can be managed via web browser and below are the default values for the device. This information can also be found on the preset sticker.

Default IP	http://192.168.10.100
Default Name/ID	admin
Default Password	admin
Default SSID	THA-103AC_24G_xxxx THA-103AC_5G_xxxx
Default Wireless Key	password

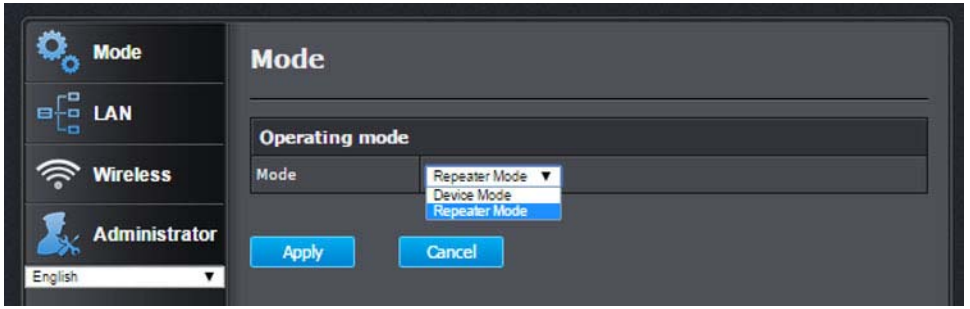
1. Plug THA-103AC to a wall outlet and power it on. Connect your computer or laptop to the device's default SSID.

2. Open a browser and type http://192.168.10.100 to access the configuration page if it has not been modified or connected to other wireless network.

3. The web browser will prompt the login screen. If you're logging in for the first time before the unit is configured, it will lead you to the set password page; password change is recommended. Once changed, it will prompt you to login again, use the new password to login.



Mode



Device Mode

When this option is selected, the wireless repeater function will be turned off. The device can still remain connection to the wireless router or access point and work as a simple power switch.

Repeater Mode

This option is selected by default.

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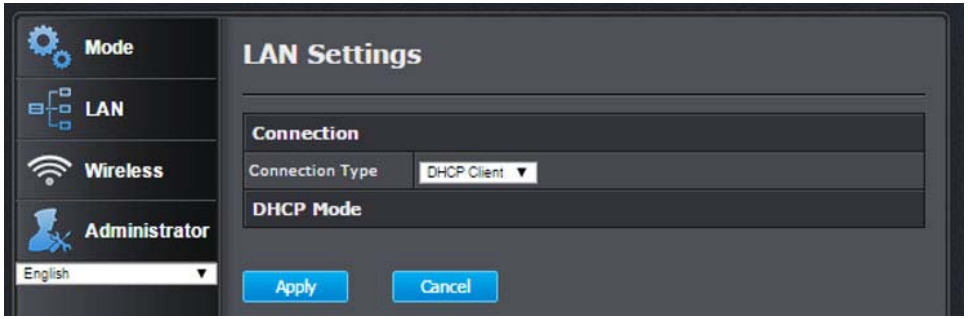
LAN



DHCP Client

Allows the device to request an IP address from a DHCP server (eg. router) when connected.

Static IP

Select this option and configure a static IP address for the switch.

Wireless

Wi-Fi Settings

This section explains how to connect the device to your existing wireless network.

1. Go to **Wireless** tab on the left and select **2.4Ghz Wi-Fi Settings** to connect to your existing wireless N network. Select **5Ghz Wi-Fi Settings** to connect to your existing wireless AC network.

2. Click on **Site Survey** button and the configuration page will appear

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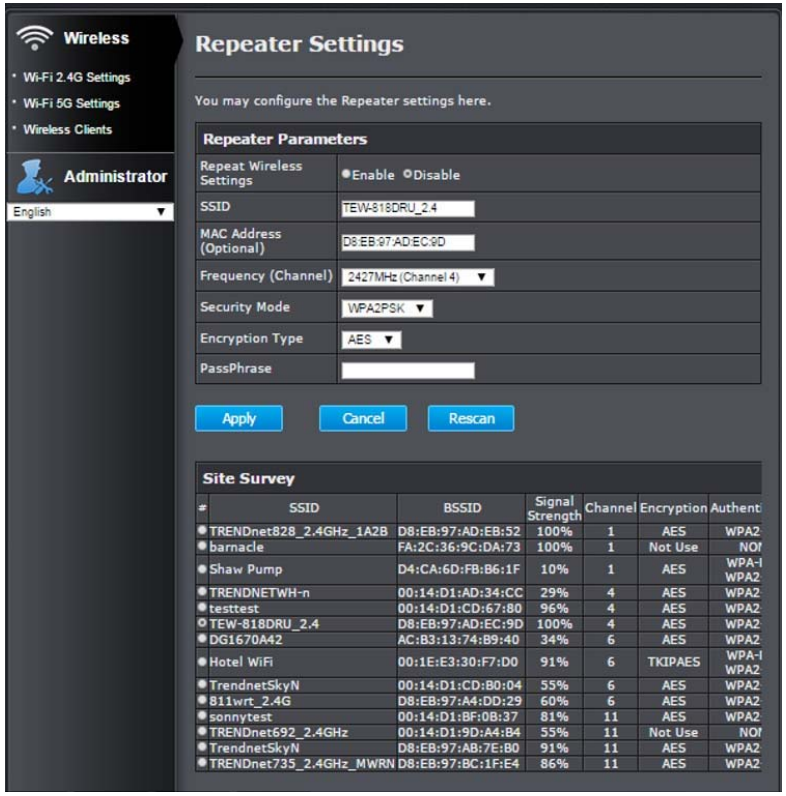
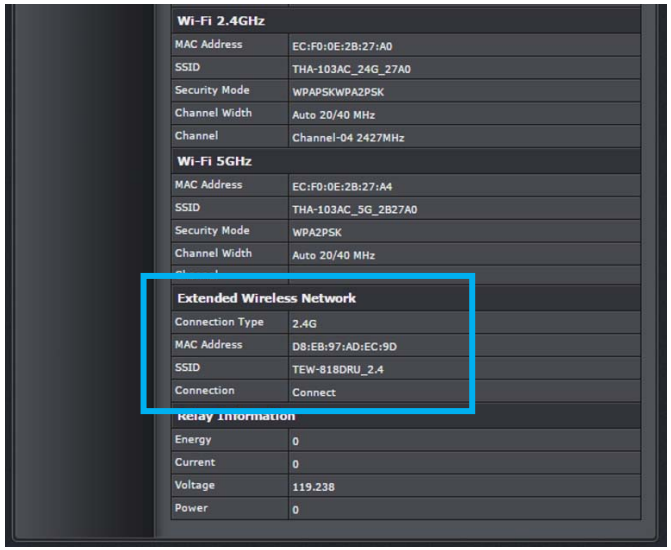


Select your wireless network and enter the wireless key (password) to connect to your network, then click **Apply** to save.

There are 2 options under **Repeat Wireless Settings** section, **Enable** and **Disable**. If you would like to use the same SSID as your existing network for the device, select Enable. If you would like to separate the SSID from your existing network, select Disable.

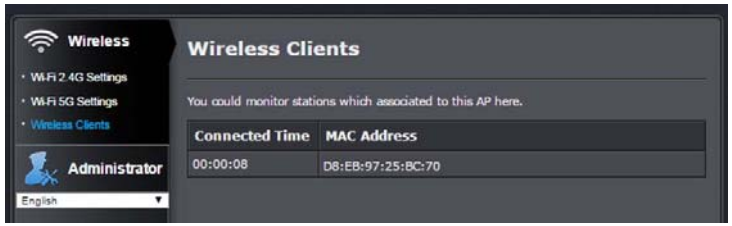
3. The device will restart.

4. You can verify the connection status at Device Status page.



Wireless Clients

You can see which device is connected to the device under this page.



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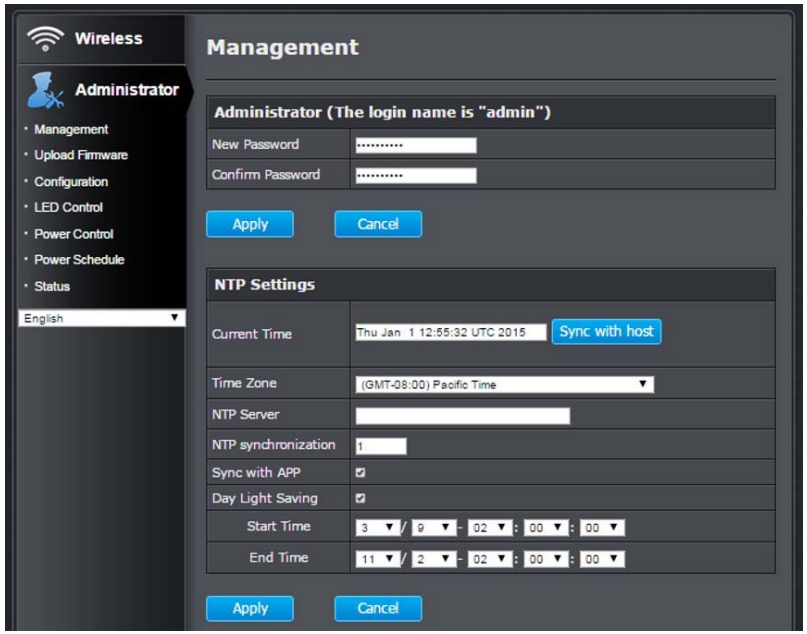
Administrator

Management

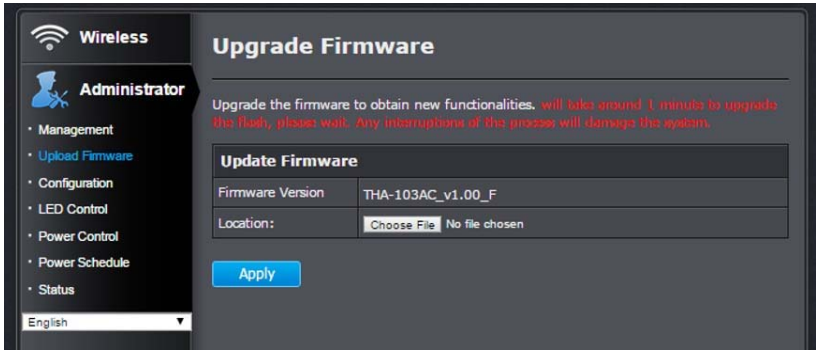
You can change the administrator's password here as well as adjusting the device time. If you would like to modify administrator password, please make sure to update them in the app as well.



To ensure the scheduling function operates correctly, please make sure the device time is accurate. You can either sync with the computer or use the time server with the correct Time Zone.

Update Firmware

You can update the device firmware on this page. The latest firmware information can be found on www.trendnet.com. Once you have downloaded the latest firmware, unzip the download firmware file, select **Choose File** to locate it and click **Apply** to load.



Configuration

Save Settings	Save the configuration you've made to the device.
Restore Configuration Settings	Restore the configurations you've saved for the device.
Restore Factory Default Settings	Reset the device to factory default settings.
System Reboot	Reboot the device.

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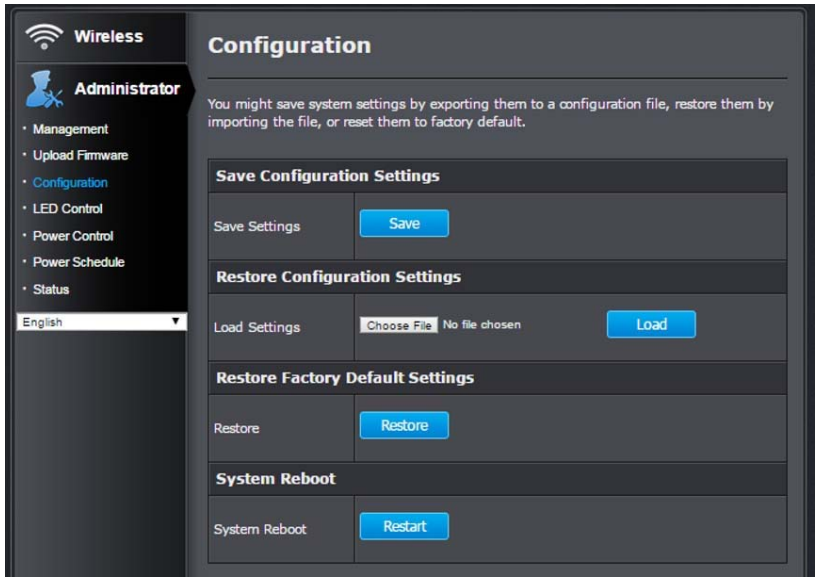
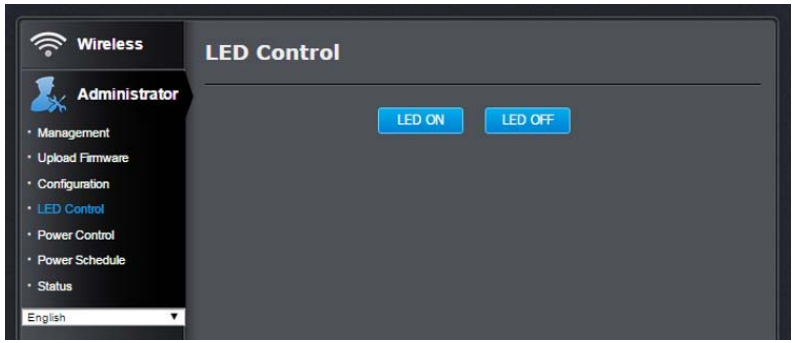


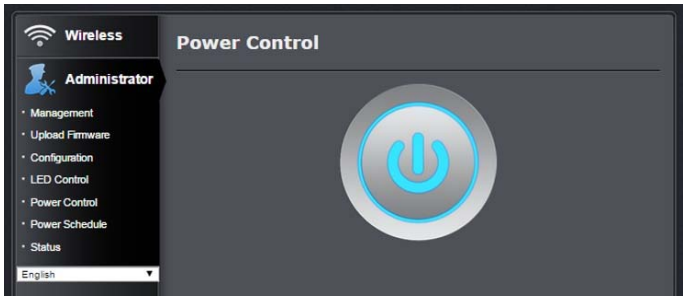
LED Control

You can turn the LED on and off once you have set up the device, if you do not want the LEDs to activate.



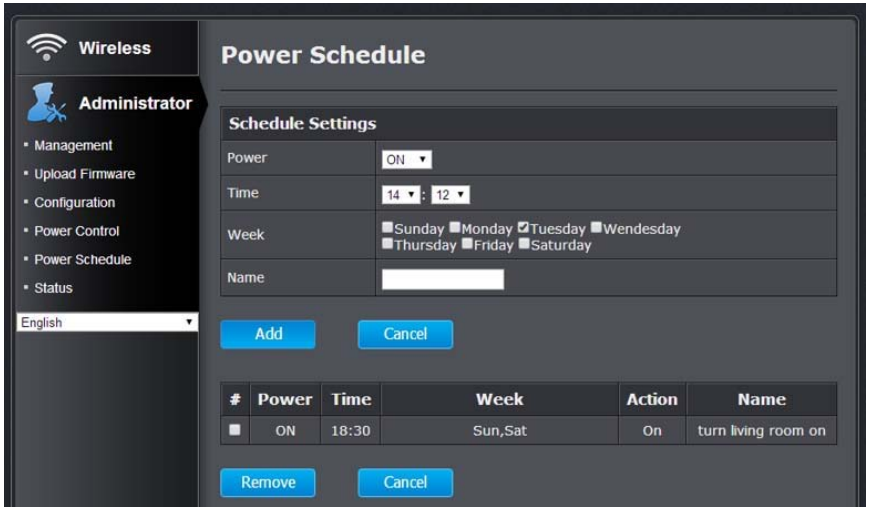
Power Control

You can turn the connected device on and off from here also.



Power Schedule

You can also create and manage the power schedule here, the changes will reflect automatically in the app. Select the power mode, time, day of the week and type in the name for this action and click **Add** to add a schedule.



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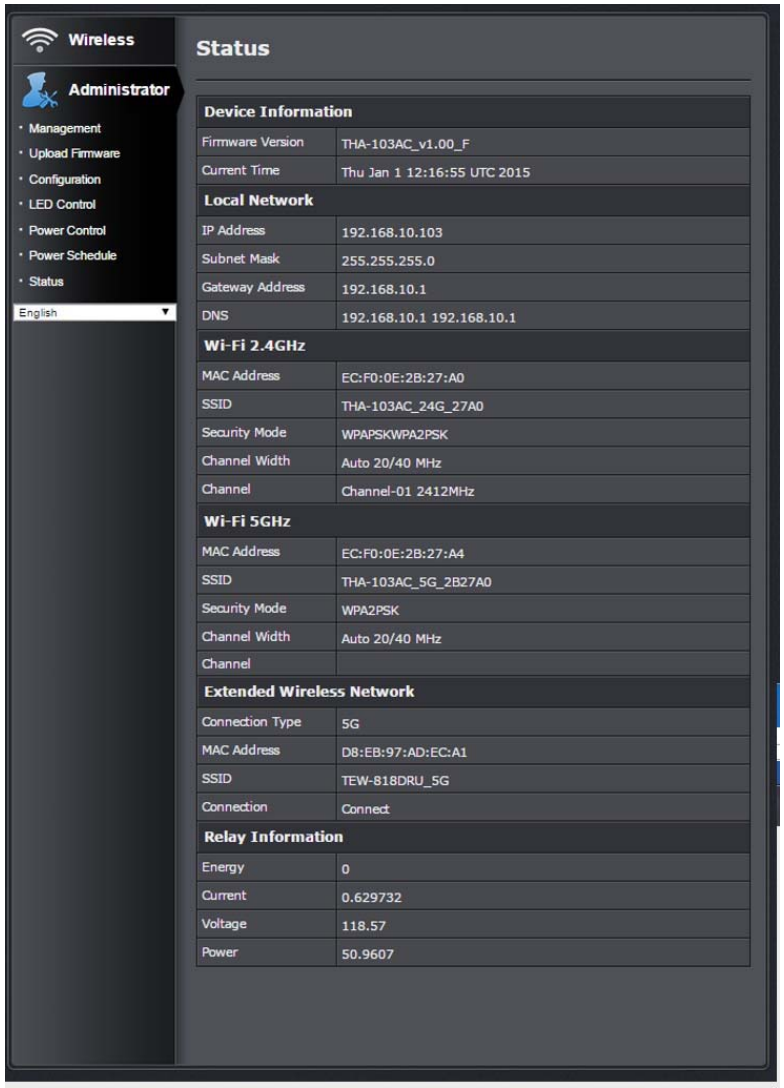
Status

This page displays the device information and current status.



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Federal Communication Commission Interference Statement

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.

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.

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 minimum distance 20cm between the radiator & your body.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channel is not possible. This device is restricted for indoor use. This device and it's antennas (s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

Europe – EU Declaration of Conformity

Europe – EU Declaration of Conformity

This device complies with the essential requirements of the Directive 2004/108/EC, /2006/95/EC and 2009/125/EC:

EN 300328: 1.8.1 2012
EN 301489-1: 1.9.2 2011-9
EN 55022: 2010 / AC: 2011 Class B
EN 55024: 2010
EN 62311: 2008
EN 50385: 2002

EN 60950-1: 2006 + A11 + A1: 2010 + A12: 2011 + A2: 2013 Safety of Information Technology Equipment including electrical business equipment

CE

RoHS

This product is RoHS compliant.

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IC 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 interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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.

This device and it's antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with IC multi-transmitter product procedures.

Cet appareil et son antenne (s) ne doit pas être co-localisés ou fonctionnement en association avec une autre antenne ou transmetteur.

IMPORTANT NOTE:

IC Radiation Exposure Statement:

This equipment complies with IC RSS-102 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.

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.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

This radio transmitter (IC: 6337A-THA103AC) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (IC: 6337A-THA103AC) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Table for filed antenna :

Ant.	Brand	W.Y P/No	Type	Connector	Gain (dBi)		
					2.4Ghz	5Ghz Band 1	5Ghz Band 4
1	WHA YU	C068-510488-A	Dipole	I-PEX	4.1	-	-
2	WHA YU	C068-510489-A	Dipole	I-PEX	3.5	3.5	4.5

Note : The EUT has two antennas

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cs Česky [Czech]	TRENDnet tímto prohlašuje, že tento THA-103AC je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES, 2006/95/ES, a 2009/125/ES.
da Dansk [Danish]	Undertegnede TRENDnet erklærer herved, at følgende udstyr THA-103AC overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF, 2006/95/EF, og 2009/125/EF.
de Deutsch [German]	Hiermit erklärt TRENDnet, dass sich das Gerät THA-103AC in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG, 2006/95/EG und 2009/125/EG befindet.
et Eesti [Estonian]	Käesolevaga kinnitab TRENDnet seadme THA-103AC vastavust direktiivi 1999/5/EÜ, 2006/95/EÜ ja 2009/125/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
en English	Hereby, TRENDnet, declares that this THA-103AC is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC, 2006/95/EC, and 2009/125/EC.
es Español [Spanish]	Por medio de la presente TRENDnet declara que el THA-103AC cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE, 2006/95/CE, 2009/125/CE y.
el Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑTRENDnet ΔΗΛΩΝΕΙ ΟΤΙ THA-103AC ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ, 2006/95/ΕΚ, 2009/125/ΕΚ και.
fr Français [French]	Par la présente TRENDnet déclare que l'appareil THA-103AC est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE, 2006/95/CE, 2009/125/CE et.
it Italiano[Italian]	Con la presente TRENDnet dichiara che questo THA-103AC è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE, 2006/95/CE e 2009/125/CE.
Latviski [Latvian]	AršoTRENDnetdeklarē, ka THA-103AC atbilstDirektīvas 1999/5/EK, 2006/95/EK, un 2009/125/EK būtiskajāmprasībām un citiemar to saistītajiemnoteikumiem.
Lietuvių [Lithuanian]	Šiuo TRENDnet deklaruoja, kad šis THA-103AC atitinka esminius reikalavimus ir kitas 1999/5/EB, 2006/95/EB ir 2009/125/EB Direktyvos nuostatas.
nl Nederlands [Dutch]	Hierbij verklaart TRENDnet dat het toestel THA-103AC in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG, 2006/95/EG, en 2009/125/EG.
mt Malti [Maltese]	Hawnhekk, TRENDnet, jiddikjara li dan THA-103AC jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/KE, 2006/95/KE, u 2009/125/KE.
hu Magyar [Hungarian]	Alulírott, TRENDnet nyilatkozom, hogy a THA-103AC BRmegfelel a vonatkozó alapvetõ követelményeknek és az 1999/5/EK irányelv, a 2006/95/EK és a 2009/125/EK irányelv egyéb elõírásainak.
pl Polski [Polish]	Niniejszym TRENDnet oświadcza, że THA-103AC jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/WE, 2006/95/WE i 2009/125/WE.
pt Português [Portuguese]	TRENDnet declara que este THA-103AC está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE, 2006/95/CE e 2009/125/CE.
sl Slovensko [Slovenian]	TRENDnet izjavlja, da je ta THA-103AC v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES, 2006/95/ES in 2009/125/ES.
Slovensky [Slovak]	TRENDnettýmtovyhlasuje, že THA-103AC spĺňazákladnépožiadavky a všetkypríslušnéustanoveniaSmernice 1999/5/ES, 2006/95/ES, a 2009/125/ES.
fi Suomi [Finnish]	TRENDnet vakuuttaa täten että THA-103AC tyyppinen laite on direktiivin 1999/5/EY, 2006/95/EY ja 2009/125/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
sv Svenska [Swedish]	Härmed intygar TRENDnet att denna THA-103AC står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG, 2006/95/EG och 2009/125/EG.

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Limited Warranty

TRENDnet warrants its products against defects in material and workmanship, under normal use and service, for the following lengths of time from the date of purchase.

THA-103AC – 3 Years Warranty

AC/DC Power Adapter, Cooling Fan, and Power Supply carry 1 year warranty.

If a product does not operate as warranted during the applicable warranty period, TRENDnet shall reserve the right, at its expense, to repair or replace the defective product or part and deliver an equivalent product or part to the customer. The repair/replacement unit's warranty continues from the original date of purchase. All products that are replaced become the property of TRENDnet. Replacement products may be new or reconditioned. TRENDnet does not issue refunds or credit. Please contact the point-of-purchase for their return policies.

TRENDnet shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to TRENDnet pursuant to any warranty.

There are no user serviceable parts inside the product. Do not remove or attempt to service the product by any unauthorized service center. This warranty is voided if (i) the product has been modified or repaired by any unauthorized service center, (ii) the product was subject to accident, abuse, or improper use (iii) the product was subject to conditions more severe than those specified in the manual.

Warranty service may be obtained by contacting TRENDnet within the applicable warranty period and providing a copy of the dated proof of the purchase. Upon proper submission of required documentation a Return Material Authorization (RMA) number will be issued. An RMA number is required in order to initiate warranty service support for all TRENDnet products. Products that are sent to TRENDnet for RMA service must have the RMA number marked on the outside of return packages and sent to TRENDnet prepaid, insured and packaged appropriately for safe shipment. Customers shipping from outside of the USA and Canada are responsible for return shipping fees. Customers shipping from outside of the USA are responsible for custom charges, including but not limited to, duty, tax, and other fees.

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Product Warranty Registration

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