

# SDX810-RG

Residential Gateway

## Quick Start

P/N: 1287850F1



The SDX810-RG Residential Gateway is used to create a secure wireless home network and make it easy to add new devices to an existing network.

### **WARNING!**

- Read all warnings and cautions before installing or servicing the SDX810-RG.
- Ensure that the SDX810-RG does not come into contact with water or any other liquids.
- Ensure that the SDX810-RG is not located in direct sunlight or next to any thermal obstructions.

### Shipping Contents

- SDX810-RG
- Power Adapter
- RJ45 Network Cable (Red-WAN Port)
- RJ45 Network Cable (Yellow-LAN Port)
- RJ11 Telephone cable (Green)

### Features

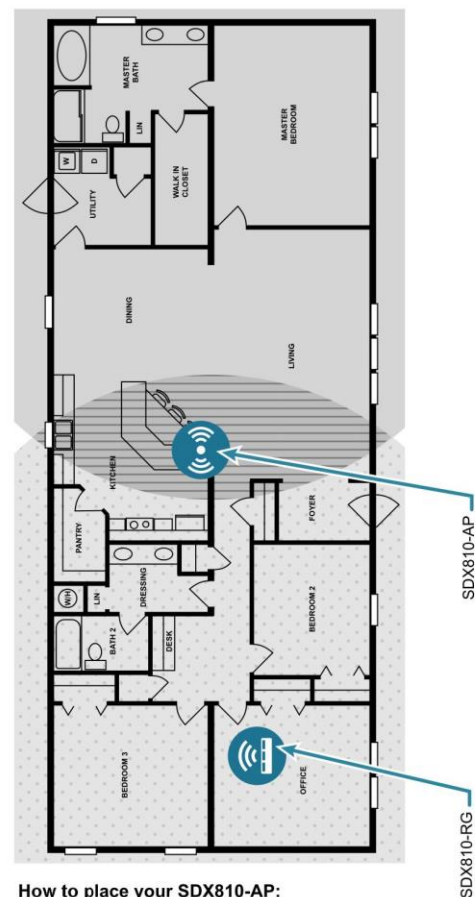
- **BandSteering:** Used to Steer a WiFi client with a poor signal strength to an SDX810-AP within the same network.

## Installing Your Residential Gateway




Before installing the equipment, inspect the SDX810-RG. If damage has occurred during shipping, file a claim with the carrier. For more information, refer to the warranty.

### Where Should the Residential Gateway be Installed?

The recommended method of installation is a basic desktop mount. For the best results, place your SDX810-RG next to your modem in an open and central location. The higher you place it above floor level, the stronger your wireless signal will be. Refer to [Figure 1](#).



### How to place your SDX810-AP:

-  Area covered by your SDX810-RG
-  Area that is good for placing SDX810-AP
-  Problem area, improved by SDX810-AP

**Figure 1. Floor Plan Diagram**

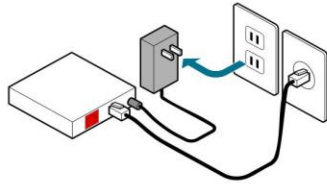




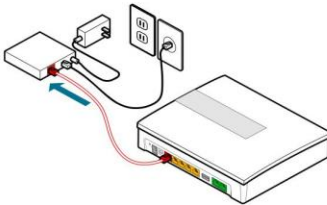
### Connecting Your Residential Gateway

Complete the following steps and refer to Figure 2 to connect the SDX810-RG.

1. Make sure that your modem is unplugged from the electrical outlet before making any connections.



2. Connect the WAN port of your residential gateway to your modem by using the RJ45 network cable



3. Plug the power cord of the modem back into the electrical outlet, giving time for it to reboot. Then do the same for the residential gateway.

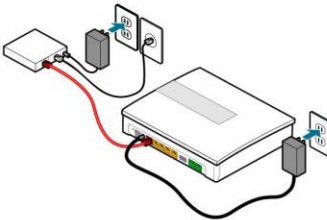


Figure 2. Connecting the SDX810-RG



#### NOTE

Once you have completed the installation process, the LEDs on the SDX810-RG will begin to blink. Allow it approximately 2-minutes to complete its start-up procedure.

If you have connected the SDX810-RG properly, the **STATUS**, **WAN**, and **INTERNET** LEDs will be illuminated green.

## Knowing Your Residential Gateway

### Front Panel

Figure 2 illustrates the front panel features for the SDX810-RG.

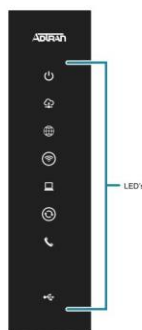










Figure 3. Front Panel Features

### Front Panel LEDs

Some of the front panel LEDs are also pushbuttons.

Label	Description	Status	Indication
 STATUS	<b>STATUS</b>	○ Off	Power off
		● Green	Power on
		● Red	Boot failed
 WAN	<b>WAN</b>	○ Off	No connection
		● Green	IP address present
		● Red	No IP address present
 INTERNET	<b>INTERNET</b>	● Green	Connected to the internet (DNS available)
		● Red	Connection failed (no DNS available)
 LAN	<b>LAN1 – LAN4</b>	● Green	Cable connected and online
		● Red	No cable connected or offline
 TEL1/TEL2	<b>TEL1/TEL2</b>	○ Off	No telephone connected
		● Green	Telephone registered and working
		* Green Flashing	Telephone registered but not working
 USB	<b>USB</b>	○ Off	No external device
		● Green	External device detected
		* Green Flashing	External device detected with alarm status

### Front Panel Pushbuttons

Label	Description	Status	Indication
 WIRELESS	<b>WIRELESS</b>	● Green	2.4 GHz wireless network active
		● Blue	5 GHz wireless network active
 WPS	<b>WPS</b>	* Green Flashing	WPS function in process

### Wall mount Installation Steps

To install the SDX810-RG, refer to [Figure 6](#) and complete the following steps.

**i** NOTE

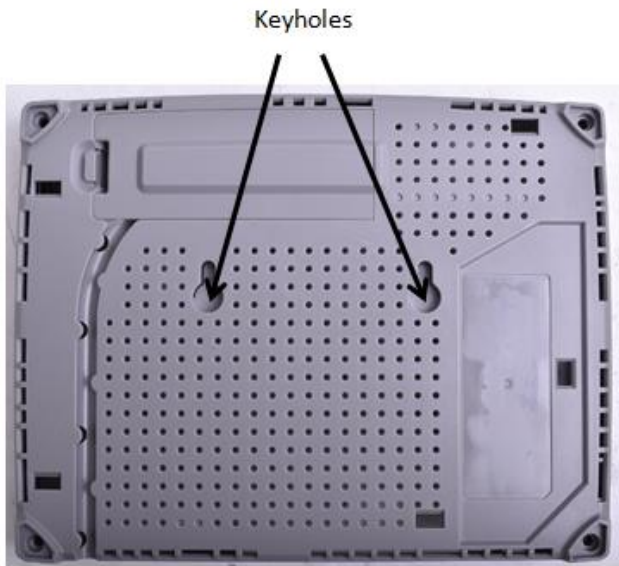
Do not mount the SDX810-RG above three meters from the floor.

#### Wall Mount Installation

To wall mount the SDX810-RG, complete the following steps:

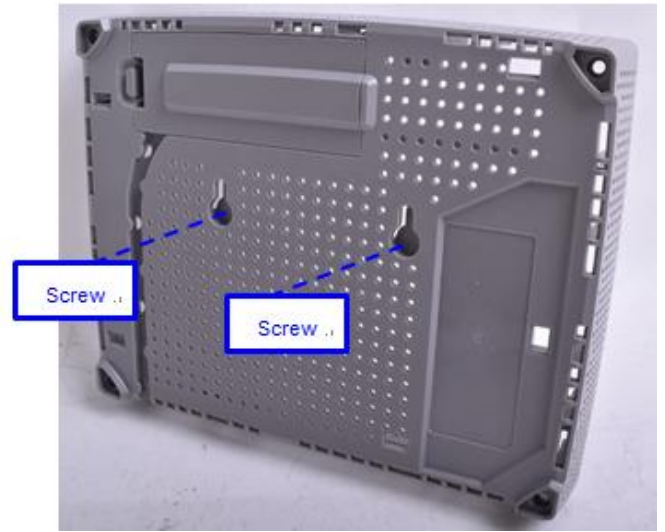
Refer to [Figure 6](#) when installing the SDX810-RG on a wall.

1. Determine a location for the SDX810-RG.



**Figure 6. Wall Mount Keyholes**

2. Use the key holes on the back of the SDX810-RG as a template and install two #6 drywall anchors.
3. Install two Ø3.5\*30L Pan Head screws. Leave approximately 1/4-inch (0.6 cm) protruding from the mounting surface. Refer to [Figure 7](#).



**Figure 7. Place Ø3.5\*30L Screws**

4. Slide the SDX810-RG over the Pan Head screws and exert a small amount of downward pressure to ensure that the top of the slots are resting on the shafts of the Pan Head screws.

The following online documents and resources provide additional information for this product:

**Warranty:** ADTRAN will replace or repair this product within the warranty period if it does not meet its published specifications or fails while in service. Warranty information can be found online at [www.adtran.com/warranty](http://www.adtran.com/warranty).

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**CAUTION!**  
SUBJECT TO ELECTROSTATIC DAMAGE  
OR DECREASE IN RELIABILITY  
HANDLING PRECAUTIONS REQUIRED

Shared Review



**Safety and Regulatory Notice**  
**Sécurité et Avis de réglementation**  
**Sicherheitsvorschriften und -hinweise**

# SDX810-RG

Residential Gateway

P/N: 1287850F1

## English



### WARNING!

- Read all warnings and cautions before installing or servicing this equipment.
- Refer to the national, state and local electrical codes for the requirements for power and grounding wiring methods.



### CAUTION!

This equipment contains no parts that can be serviced by the user.



### NOTE

- This product meets EU RoHS Directive. Refer to [www.adtran.com](http://www.adtran.com) for further information on RoHS/WEEE.
- This device has been certified for use in Canada under Industry Canada (IC) Radio Standards Specification (RSS) RSS-247 and RSS-Gen. This Class B digital apparatus complies with Canadian ICES-003.  
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
- Digital apparatus CAN ICES-3 (B)/NMB-3(B)
- **Radiation Exposure**  
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 20 cm between the radiator & your body.
- This device is restricted to indoor use.
- This device complies with Part 15 of the FCC rules. 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.



### AVERTISSEMENT!

- Lisez tous les avertissements et mises en garde avant l'installation de cet équipement ou la réalisation de toute opération de maintenance.
- Consultez les normes nationales, régionales et locales sur les installations électriques pour connaître les exigences en matière de câblage pour l'alimentation et la mise à la terre.



### ATTENTION!

Il n'existe aucune pièce pouvant être réparée par l'utilisateur à l'intérieur de cet équipement.



### REMARQUE

- Ce produit est conforme à la directive européenne RoHS. Reportez-vous à [www.adtran.com](http://www.adtran.com) pour de plus amples renseignements sur RoHS.
- Cet appareil a été certifié pour utilisation au Canada en vertu des spécifications de normes radio (RSS) d'Industrie Canada (IC) RSS-247 et RSS-Gen. Cet appareil numérique de classe B est conforme à la norme canadienne ICES-003. Cet appareil est conforme aux normes RSS exemptes de licence d'Industrie Canada. L'opération est soumise aux deux conditions suivantes
  1. Cet appareil ne peut pas causer d'interférences, et
  2. Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.
- Appareil numérique CAN ICES-3 (B)/NMB-3(B)
- **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 20cm de distance entre la source de rayonnement et votre corps.
- Cet appareil est limité à une utilisation en intérieur.



## English

- 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 or more 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 experienced radio/TV technician for help.
- To satisfy FCC RF Exposure requirements for mobile and base station transmission devices, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during operation. To ensure compliance, operation at closer than this distance is not recommended. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- Changes or modifications not expressly approved by ADTRAN could void the user's authority to operate this equipment.
- This product is designed to operate with a nominal operating voltage of 12 VDC.
- The product is supplied with a power adapter, which operates from a main power source input of 100 - 240 V, 50/60 Hz, with a nominal output of 12 VDC.

## Français

**CAUTION!**SUBJECT TO ELECTROSTATIC DAMAGE  
OR DECREASE IN RELIABILITY

HANDLING PRECAUTIONS REQUIRED

**ADTRAN CUSTOMER CARE:**

From within the U.S. 1.800.726.8663

From outside the U.S. +1 256.963.8716

PRICING AND AVAILABILITY 1.800.827.0807

