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Adtran SDG-8612/8614 series Service Delivery Gateway User Guide

Contents

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Product Information

ADTRAN SDG-8612/8614 series Service Delivery Gateway Wi-Fi 6 2.5G Router

P/N: 17600070F1

The ADTRAN SDG-8612/8614 series Service Delivery Gateway Wi-Fi 6 2.5G Router is an indoor gateway that delivers premium multi-Gigabit services. It offers advanced service delivery capabilities and has a routing throughput of 2.5 gigabits. This router is designed for easy installation and comes with various interfaces for Ethernet, WLAN, and USB connectivity.

Product Specifications

- Ethernet:
    - SDG-8612: 1 x 2.5 Gigabit Ethernet RJ-45 WAN interface
    - SDG-8614: 1 x SFP+cage WAN interface, 4 x Gigabit Ethernet
      RJ-45 LAN interfaces, 1 x 2.5 Gigabit Ethernet RJ-45 LAN interface
- WLAN Interface:
    - Compliant with IEEE 802.11 b/g/n/ac/ax
    - Dual-Band Radios: 2.4 GHz 4×4 / 5.0 GHz 4×4
- USB Interface: 1 x USB3.0 (TypeA) interface
- Working Environment
- Dimensions: 185mm x 98mm x 98mm (H x W x D)
- Power Supply: AC Input: 100~240 VAC @ 50/60Hz

Product Usage Instructions

Installing the SDG-8612 Gateway

Package Contents

- ADTRAN's WiFi 6 2.5Gigabit Router
- 15VDC/3A USB type C power adapter
- CAT.5E Ethernet cable

Prior to Installation

Before installing the equipment, inspect the gateway. If any damage has occurred during shipping, file a claim with the carrier,and then contact ADTRAN Customer Support.

Connecting the Gateway

Refer to Figure 2 for the installation (connection) options.

1. Insert a Category 5E (or better) RJ-45 cable into one of the LAN ports or the 2.5 Gigabit Ethernet port (WAN) until there is an audible click.

Connecting the Power Supply

1. Connect the end of the power adapter to the Power port on the bottom of the gateway.
2. Plug the other end of the power adapter into the wall outlet.
3. Confirm that the power is connected properly. The Power LED should be lit on the gateway.

Resetting the Gateway

A reset button is available if the device needs to be rebooted.

1. To reboot the device, press the Reset button on the rear panel of the gateway for 5 seconds or less.
2. To reset the device to custom defaults, press the Reset button for 5 seconds or more.

Set up

1. Connect to **http://192.168.1.1** from a web browser and follow the instructions to complete the router mode setup.
2. Click on "Set up a new Intellifi device".
3. Input "12345678" as the password, re-enter "12345678" again, and click on "Set password".
4. Click on "Continue to the next page".
5. Press "Next>", then press "Router".
6. Type "samplewifi" as SSID, type "12345678" as the password, and then press "Continue".
7. Press "Yes, set up Guest WiFi", then press "Finish" to complete the setup.

Federal Communication Commission Interference Statement

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.

FAQ

Q: What should I do if the gateway is damaged during shipping?
A: If any damage has occurred during shipping, file a claim with the carrier, and then contact ADTRAN Customer Support.

Q: How do I reset the gateway?
A: To reboot the device, press the Reset button on the rear panel of the gateway for 5 seconds or less. To reset the device to custom defaults, press the Reset button for 5 seconds or more.

Q: How do I complete the router mode setup?
A: Connect to **http://192.168.1.1** from a web browser and follow the instructions provided in the user manual.

Overview

WARNING
Read all warning, cautions, notes and installation instructions before installing or servicing this equipment.

The ADTRAN® SDG-8612/8614 series is a Wi-Fi 6 2.5 Gigabit Ethernet router, built to deliver top-end Wi-Fi 6 performance, true 2.5 gigabit routing throughput, and advanced service delivery capabilities. This quick start describes how to install ADTRAN's Service Delivery Gateway.
The SDG-8612/8614 series WiFi 6 2.5 Gigabit Router is an indoor gateway delivering premium multi-Gigabit services.
Figure 1 illustrates the front and back of the SDG-8612 & SDG-8614 gateway.

Product Specifications

- Ethernet
    - SDG-8612: 1 x 2.5 Gigabit Ethernet RJ-45 WAN interface
    - SDG-8614: 1 x SFP+cage WAN interface
    - 4 x Gigabit Ethernet RJ-45 LAN interfaces
    - 1 x 2.5 Gigabit Ethernet RJ-45 LAN interface
- WLAN Interface
    - Compliant with IEEE 802.11 b/g/n/ac/ax
    - Dual-Band Radios: 2.4 GHz 4×4 / 5.0 GHz 4×4
- USB Interface
    - 1 × USB3.0 (TypeA) interface
- Working Environment
    - 41° F – 104° F (5° C – 40° C)
- Dimensions
    - 185mm x 98mm x 98mm (H x W x D)
- Power Supply
    - AC Input: 100~240 VAC @ 50/60Hz

Figure 1. Front and Back of the SDG-8612 Gateway

WARNING indicates a hazard which, if not avoided, could result in death, injury or serious property damage.

CAUTION indicates a hazard which, if not avoided, could result in service interruption, damage to the equipment, or minor property damage.

NOTES inform the user of additional, but important, information or features.

Installing the SDG-8612 Gateway

The following are guidelines for basic installation of the gateway.

NOTE
Refer to the national, state and local electrical codes for the requirements for power, grounding, wiring, and installation methods.

CAUTION!
The product is intended for indoor use only. Ethernet cables and attached equipment are intended for use within the same building with equipotential bonding, and not intended to be placed in separate buildings or structures. Failure to deploy as described could result in permanent damage from lightning or other electrical events and voids the warranty. Furthermore, all connections from outside of the building, such as old wiring, must be disconnected prior to use.

Package Contents

- ADTRAN's WiFi 6 2.5Gigabit Router
- 15VDC/3A USB type C power adapter
- CAT.5E Ethernet cable

Prior to Installation
Before installing the equipment, inspect the gateway. If damage has occurred during shipping, file a claim with the carrier, and then contact ADTRAN Customer Support.

Connecting the Gateway
Figure 2 illustrates the installation (connection) options for the gateway.

The following subscriber connections are available on the rear of the device:

- 1x 2.5Gigabit Ethernet port (RJ-45 Connector) – LAN port
- 4x Gigabit Ethernet (RJ-45 Connectors) – LAN 1-4 ports
- 1x 2.5Gigabit Ethernet port (RJ-45 Connector) – WAN port
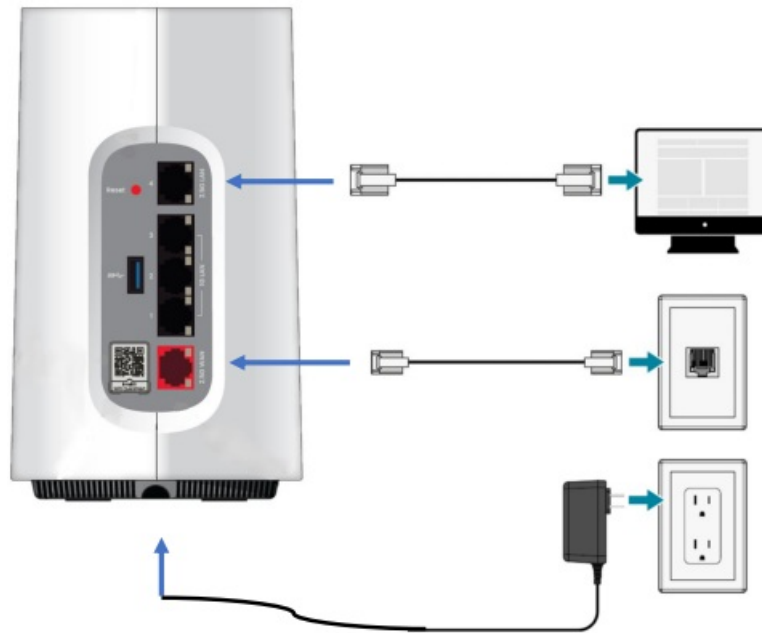- 1x USB 3.0 (Type A Connector) port

Figure 2. Gateway Installation

To connect the subscriber Ethernet interfaces, refer to Figure 2 and insert a Category 5E (or better) RJ-45 cable into one of the LAN ports or the 2.5 Gigabit Ethernet port (WAN) until there is an audible "click".

Connecting the Power Supply

1. Connect the end of the power adapter to the Power port on the bottom of the gateway.
2. Plug other end of the power adapter into the wall outlet.
3. Confirm that the power is connected properly. The Power LED should be lit on the gateway.

Resetting the Gateway
A reset button is available if the device needs to be rebooted. To reboot the device, press the Reset button on the rear panel of the gateway for 5 seconds or less. To reset the device to custom defaults, press the Reset button for 5 seconds or more.
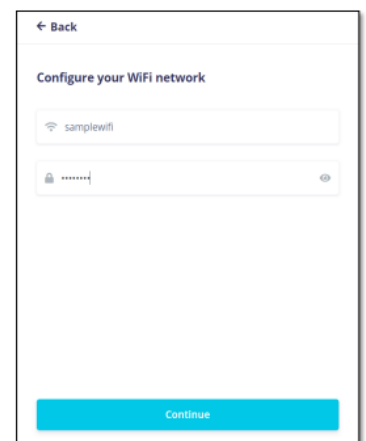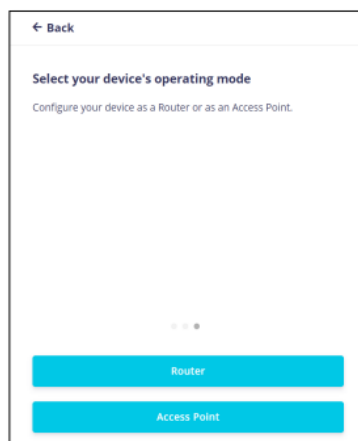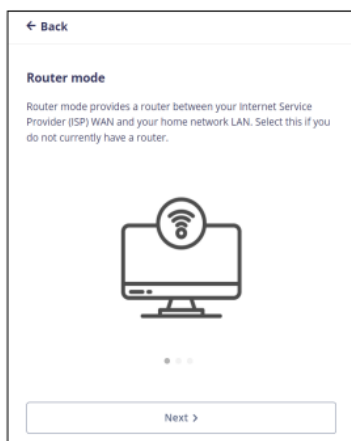
Set up

Connect to **http://192.168.1.1** from web browser, go through the instructions to complete the router mode setup.

1. Click on "Set up a new Intellifi device".
2. Simply input "12345678" as the password, re-enter the "12345678" again, click on "Set password".
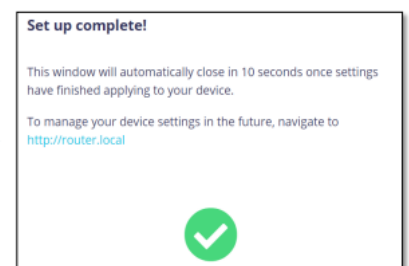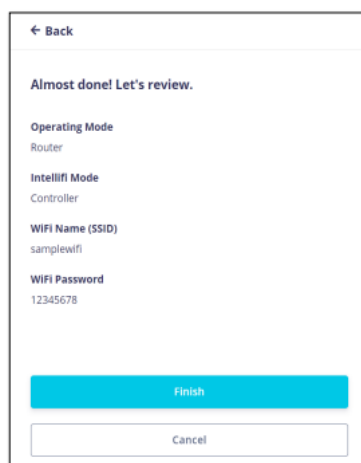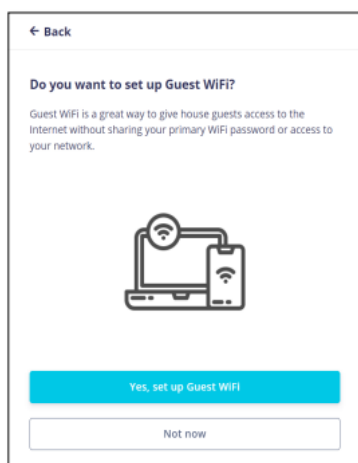3. Then click on "Continue" to the next page.
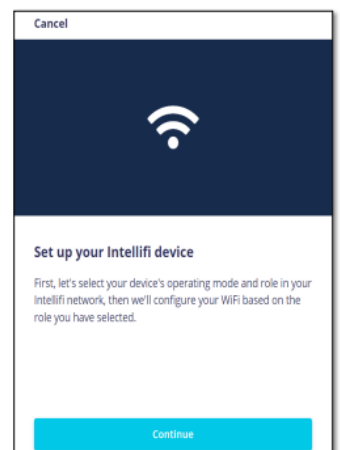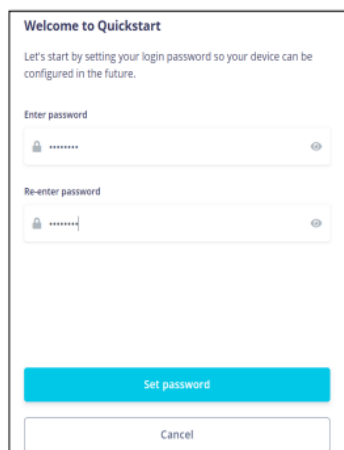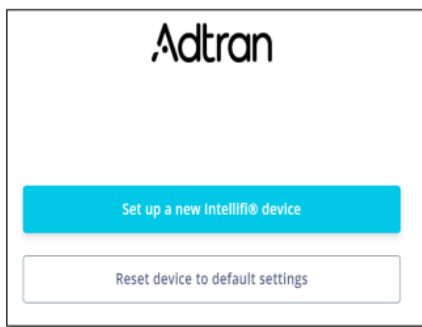
4. Press Next>, then press Router.

5. Type "samplewifi" as SSID, and type "12345678" as password, then press "Continue".

6. Press "Yes, set up Guest WiFi, Then press "Finish" to complete setup.

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:
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 31 cm between the radiator & your body.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
Country Code selection feature to be disabled for products marketed to the US/CANADA
Operation of this device is restricted to indoor use only.

Industry Canada statement:
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference
2. This device must accept any interference, including interference that may cause undesired operation of the device

Caution:

1. the device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
2. for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
3. for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; and Operations in the 5.25-5.35GHz band are restricted to indoor usage only.

Radiation Exposure Statement:
This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 31 cm between the radiator & your body.

Documents / Resources

Adtran SDG-8612/8614 series Service Delivery Gateway [pdf] User Guide
SDG-8612 8614 series Service Delivery Gateway, SDG-8612, 8614 series Service Delivery Gateway, Service Delivery Gateway, Delivery Gateway, Gateway

References

- **User Manual**