

Actiontec Electronics, Inc.

760 North Mary Ave., Sunnyvale, CA 94085 USA

Gateway Device with 802.11n and Z-Wave Home Control

Model #: SG200 and SG200 Rev. B

Quick Start Guide

Version: 0.0 (Draft to be review)

Connect the SG200/SG200 Rev. B Gateway to Power and Router

1. Plug one end of the Ethernet cable to the Ethernet port on the SG200/SG200 Rev. B gateway.
2. Plug the other end of the Ethernet cable into the LAN port on the back of your router.
3. Plug the AC power adapter connector to the SG200/SG200 Rev. B gateway's power port.
(Power: External, 10V DC, 1.6A made by Adapter Technology Co., Ltd.; Model: STD-10016U)
4. Now plug the power adapter into a properly grounded power outlet.
5. Make sure the power LED light on the Gateway device is green.
6. Your Ethernet LED light is green if the Ethernet cable is connected.

Connect the SG200/SG200 Rev. B to Router Wirelessly (Optional)

1. Find out the IP address of the SG200/SG200 Rev. B Gateway. Usually you can do this by looking up the DHCP client list from the router's webpage. Let's assume it is 192.168.1.2.
2. Using a computer with a SSH client, connect to the SG200/SG200 Rev. B Gateway.
 - a. For Windows computers, Putty is a good SSH client program. Configure Putty using its GUI and enter the IP address as 192.168.1.2 and port 22, then hit the connect button.
 - b. For Linux computers, open a terminal and enter "ssh root@192.168.1.2".
3. If prompted for username, enter "root". There is no password.

4. Create a configuration file. Type this command

```
vi /config/wpa_supplicant.conf
```

Enter the following information inside the vi text editor. Enter "i" to start the editing mode.

```
network={  
  ssid="Your_Access_Point's_SSID"  
  psk="Your_WPA_or_WPA2_Passphrase"  
}
```

Press "ESC" to exit the editing mode. Save the file by typing ":wq!".

5. Now connect to the router. Type the command

```
wpa_supplicant -Dwext -iwlan0 -c/config/wpa_supplicant.conf -B
```

6. Get an IP from the router. Type the command

```
dhclient wlan0
```

If you see a message similar to "bound to 192.168.1.3 -- renewal in 35739 seconds." that means you are successfully connected.

Note this instruction works with WPA or WPA2 encrypted wireless networks only.

Congratulations you are now connected!

Specifications

1. Features

- Compliant with IEEE 802.3 Ethernet standard.
- Supports 100BaseT and 1000BaseT.
- 2.4 GHz IEEE 802.11n Draft-compliant
- 2-stream spatial multiplexing up to 135 Mbps
- Supports 20 MHz channels
- Full IEEE 802.11 b/g/n legacy compatibility with enhanced performance
- Comprehensive wireless network security support that includes WPA, WPA2, and AES encryption/decryption coupled with TKIP and IEEE 802.1X support
- 802.11b Data Rates: 11Mbit/s, 5.5Mbit/s, 2Mbit/s, 1Mbit/s (And 22Mbit/s with PBCC);
- 802.11g Data Rates: 6Mbit/s, 9Mbit/s, 12Mbit/s, 18Mbit/s, 24Mbit/s, 36Mbit/s, 48Mbit/s, 54Mbit/s.

2. Power requirements

- Operating voltage: +10V DC @ 1.6A max

3. Environmental Operating Range

- Operating temperature: 0° C to 40° C (32° F to 104° F)
- Humidity: 5-95%, non-condensing

4. Dimension and Weight

- 7" (L) x 5.5" (W) x 1.5" (H) 0.65 lb.

5. Certifications

- FCC Part 15 Class B and Class C; UL

General Regulatory and Compliance Notices

Important Safety Instructions

If applicable, when using telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electrical shock, and personal injury, including the following:

- Do not use this product near water – for example, near a bathtub, kitchen sink, laundry tub, or swimming pool, or in a wet basement;
- Avoid using a telephone (other than a cordless type) during an electrical storm, as there may be a remote risk of electrical shock due to lightning;
- Do not use the telephone to report a gas leak in the vicinity of the leak;
- Use only the power cord and batteries indicated in this manual;
- Do not dispose of batteries in fire, as they may explode – check with local codes for possible special disposal instructions.

Telephone Line Cord Caution

To reduce the risk of fire, use only No. 26 AWG or larger (e.g., 24 AWG) UL Listed or CSA Certified Telecommunication Line Cord.

Coaxial Cable

If applicable, the coaxial cable screen shield needs to be connected to the Earth at the building entrance per ANSI/NFPA 70, the National Electrical Code (NEC), in particular Section 82093, "Grounding of Outer Conductive Shield of a Coaxial Cable," or in accordance with local regulation.

FCC Class B Equipment

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 and correct the interference by implementing one or more of the following measures:

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

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Actiontec Electronics, Inc, may void the user's authority to operate the equipment.

Declaration of conformity for products marked with the FCC logo – United States only.

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;
 2. This device must accept any interference received, including interference that may cause unwanted operation.
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Important Note

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

The transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

For questions regarding your product or the FCC declaration, contact:

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