

SA-2330 Wireless Repeater Quick Reference

U00104847601

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Thank you for purchasing the SA-2330 Wireless Repeater.
This manual explains how to use the SA-2330 Wireless Repeater (the "device").
Read the "Safety Precautions" before using the device, use the device correctly and safely, and keep this manual for future reference.

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:

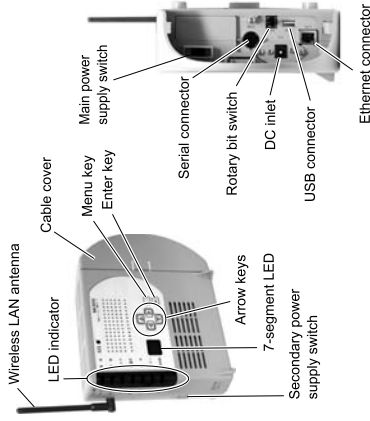
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING
You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

CAUTION
This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

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1. Components



2. Installation Conditions

Power Supply

100-240V AC 50/60Hz 0.3A

Temperature and Humidity

Temperature: 41°F to 104°F (5°C to 40°C)

Humidity: 30% to 80% with no condensation

3. Power Supply Cable and Ethernet Cable Connections

1. Ensure that the main power supply switch is turned off.

The power indicator should also be turned off.

2. Insert the DC connector for the AC adapter into the DC inlet on the back of the device.

3. Pass the DC cable for the AC adapter through the cable clamp. Remove the nuts, and screw together with the cable clamp, using a Phillips head screwdriver.

* Be sure to take this step to prevent the DC connector from disconnecting. Failure to do so may cause the DC connector to disconnect during operation, and result in device malfunction.

4. Insert the power supply cable into the AC adapter.



5. Fix the power supply cable to the AC adapter with the cable band.



6. Insert the power supply cable plug into a power supply outlet with 100 to 240V AC ground.

7. Connect an Ethernet cable if using as an expansion station.

Do not connect an Ethernet cable if using as a Wireless Repeater.



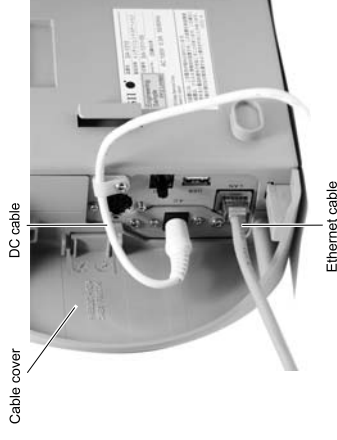
Warning

Do not touch the main power supply switch or the power supply outlet with wet hands.
This may result in electric shock.

8. Mount the cable cover.

Caution

Use a power supply outlet that is wired to a ground terminal. Install the device near the power supply outlet to plug/unplug the power supply cable easily when necessary.



Safety Precautions

Read the "Safety Precautions" before using the device, and use the device correctly and safely.

This manual uses the following symbols to describe precautions for the correct and safe use of the device, and to prevent damage to the equipment.

⚠ : Precautions (including danger and warning).

🚫 : Prohibited actions.

⚙ : Forced actions or instructions.

Some of these symbols with graphics indicate specific precautions, prohibitions, and instructions as below.

Read carefully before continuing.

	Warning: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	Caution: Indicates a potentially hazardous situation which, if not avoided, could result in injury, or damage to the equipment.



Caution

Never perform the following actions, as failure to do so may result in fire, electric shock, accident, or malfunction:

- Do not place any objects on top of the device.
- Do not touch or strike the device.
- Do not place the device on an unstable site.
- Do not place objects on the cable, twist or pull the cable forcefully.

Use only with the specified power supply voltage.
Failure to do so may result in fire, electric shock, accident or malfunction.

Never remove or loosen the hand screws and open the top cover.

This may result in electric shock.
Remove the power supply cable during maintenance.

Never install the device in locations that are subject to vibration or shock. This may result in malfunction.

Do not install the device near objects emitting strong magnetic fields or electromagnetic waves. This may result in malfunction.

Do not use the device near high-voltage power lines or other high-voltage power lines. This may result in malfunction.

Do not place liquids, such as water, or small metal objects like clips on the device. Doing so may result in malfunction or electric shock.

Do not allow foreign bodies, such as liquids, metals, or cigarette smoke to get into the device. Doing so may result in malfunction or electric shock.

Do not use the device in hospitals. This may result in medical malfunction or could endanger people's lives.

Do not use the device near people. This may cause electromagnetic interference that could endanger people's lives.

Never connect the device to an energized LAN cable. This may result in the device emitting smoke, or fire.

Unplug the power supply cable from the outlet and stop using the device immediately if it emits abnormal smoke, smell or noise. To continue using the device under such conditions may cause fire or electric shock.

Keep away from devices generating noise, such as motors. The device may malfunction in such conditions.

Electromagnetic waves

Follow the precautions below when using the device.

1. Before using the device, ensure that there are no built-in radio stations for mobile identification or specified low power radio stations operating in the area.
2. Change the bandwidth of the frequency used or suspend the radio emissions immediately if there is electrical interference with a built-in radio stations for mobile identification. Consult your dealer for solutions to prevent interference.
3. Consult your dealer if there are any problems, such as the device interfering with specified low power radio stations for mobile identification.
4. Do not use the device near cardiac pacemakers. This may cause electromagnetic interference that could endanger people's lives.
5. Do not use the device near microwave ovens. This may reduce the communication speed or cause a communication blackout. Keep at least 2 meters between the device and microwave ovens.

Electromagnetic wave transparency

The device emits the radio waves that penetrate wood and glass, but are obstructed by rebar, metals, and concrete. Change the installation site if radio waves from the device don't penetrate indoor walls. Installing extra devices is recommended.



Warning Self-regulation of electromagnetic wave interference

This device is a class A electromagnetic wave interference regulated product and it may cause wireless interference in home environments. In such cases, the user may be required to take appropriate measures.

Follow all other warnings and precautions described in each section.

4. Turning On the Device



Main power switch

Turning on during installation
Turn on the main power switch when the power supply cable is connected. The power indicator lights up and the device is turned on.



Secondary power supply switch

Turning off during operation
Press and hold the secondary power supply switch for at least 2 seconds. The power indicator and the power supply will turn off.

Turning on during operation
Press and hold the secondary power supply switch for at least 2 seconds. The power indicator lights up and the device is turned on.

Caution

Do not turn off the main power switch when turning off the power supply during operations. First turn off the secondary power supply switch, and then main power switch when changing the installation site or replacing the device. Never turn off the main power supply switch first.

5. Station Address Settings

Set the station address, ranging from hexadecimal 1 to F, depending on the application program.
Use the rotary bit switch on the back of the device to set the station address.

7-segment LED



Setting the Station Address
Using the Rotary Bit Switch

First set the rotary bit switch to 0, and turn on the secondary power supply switch. The 7-segment LED will flash "00".
Turn the rotary bit switch to change the last digit of the 7-segment LED. Press the Enter key to save and start operations using the new station address.

Station address	-	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Rotary bit switch	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F

Figures in parentheses are in hexadecimal.

6. 7-segment LED Display

The 7-segment LED displays the set station address when the device is in normal mode.

Normal	Details
01 to 0F	Station Address

The 7-segment LED displays error codes, starting with either "E" or "L", followed by "0" to "9", as described below.

Error	Details
E0	System error
E1	LAN error
E2	WLAN error
E3	CF error
E4	General port error
E9	Other error

L1	Ethernet cable connection error
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7. Precautions for Use

Follow all the instructions below without fail. Failure to do so may cause malfunction or damage, and result in paid repairs.
SII Data Service Corp. takes no responsibility for damage caused by use of the device that does not comply with the proper usage outlined in this manual.

- The device has a built-in wireless facility that has received technical standard compliance certification according to the Radio Law. Never alter or modify the device.
Using illegally modified devices may be punishable under the Radio Law.
- Take care not to drop, bend, or strongly shock the device, as the device has a highly-sensitive wireless facility built-in. Contact your local service center if the device is damaged in an accident or has been dropped during use. Never get the device repaired anywhere other than the service center.
- Do not place objects or rest your hand on the device.
- Do not place food or drinks, such as coffee, or hot objects such as cigarettes, on the device.
- Do not wash or pour liquids, such as water or oil, over the device. It is not waterproof.
- Never store or leave the device in any of the following locations. This may result in case deformation or device malfunction, such as reduced or deteriorated battery performance, or memory loss.
 - Locations with temperatures below 41°F(5°C)
 - In vehicles during summer
 - Locations near air-conditioning equipment
 - Locations with direct sunlight
 - Locations with temperatures higher than 104°F(40°C)

8. Accessories

- Quick Reference (this manual)
- Cable cover
- Cable band
- AC adapter
- Power supply cable