### SA-2330 Wireless Repeater **Quick Reference**

U00104847601

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

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 this equipment be protection against harmful interference in a residential installation. This equipment generates, use and can radiate radio frequency energy and, I 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 ry 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.

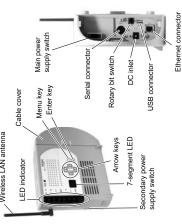
You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

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 colocated 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

### Examples of Symbols



"Remove the power supply plug from the outlet"



This manual uses the following symbols to describe precautions for the

correct and safe use of the device, and to prevent damage to the

 $\sum$  : Precautions (including danger and warning).

S: Prohibited actions.

Read the "Safety Precautions" before using the device, and use the

device correctly and safely

Safety Precautions

Do not use in sites of extremely high humidity or where there is a possibility of water dripping onto the device. Do not disassemble or modify the device.
This may result in accident or malfunction.

Avoid dropping metal fragments or spilling liquids, such as water, into the interior or between the cracks of the device.

Some of these symbols with graphics indicate specific precautions,

Forced actions or instructions.

prohibitions, and instructions as below.

Read carefully before continuing.

This may result in fire, electric shock, or malfunction.

Do not plug/unplug the power supply cable with wet hands. This may result in electric shock This may result in fire, electric shock, or malfunction.

Use only the dedicated AC adapter and power supply cable for the device.

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

Marning

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

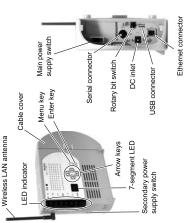
This may result in electric shock.

Failure to do so may result in fire, electric shock, or Big maifunction.

Turn off the power supply and unplug the power supply cable from the outlet in the following cases. The device under abnormal conditions may result in accident or fire. If there is an abnormal smell, smoke, or noise

- If foreign objects, such as metal fragments or liquid, have
  - been dropped inside the device or between the cracks When cleaning the device
- If any other abnormality occurs that requires repair at a
  - service center

3. Power Supply Cable and Ethernet Cable Connections

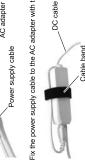


# Insert the power supply cable into the AC adapter.

and result in device malfunction.



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.

Do not connect an Ethernet cable if using as a Wireless Repeater 7. Connect an Ethernet cable if using as an expansion station.

### Marning Marning

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.

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,

3. Pass the DC cable for the AC adapter through the cable clamp.

Insert the DC connector for the AC adapter into the DC inlet on the

back of the device

Ensure that the main power supply switch is turned off.
 The power indicator should also be turned off.

### 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.

1 0 H Ethernet cable DC cable Cable cover

### Electromagnetic waves

**♠** Caution

Follow the precautions below when using the device.

Before using the device, ensure that there are no built-in radio stations for mobile identification or specified low power radio stations

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

- Do not place any objects on top of the device.

- Do not shock or stiffe 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

Remove the power supply cable during maintenance.

cover.
This may result in electric shock

- operating in the area.

  2. Change the bandwidth of the frequency used or suspend the radio enissions 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.

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

  Do not use the device near microwave overs. This may reduce the communication speed or cause a communication blackout. Keep at least 2 meiers between the device and microwave overs.

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.



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

or electric shock.

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

# Installing extra devices is recommended.

Never install the device in locations that are subject to vibration or shock. This may result in mathrication mathrians are electromagnetic mathrians and in mathrians.

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

 Do not drop, shock, or apply unecessary force to the device.

 Do not drop, shock, or apply unecessary force to the device.

 Do not place liquids, such as water, or small metal objects like clips on the device. Drop on every result in mathrians or electric shock.

 Do not law foreign bodies, such as liquids, metals, or object the smoke to get into the device. Droing so may result in mathrians or electric shock.

 Do not use the device mater adout endanger people's lives.

 Do not use the device are ardial or percentakers. This may ceause electromagnetic interference that could endanger people's lives.

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

 Unpub la be power supply cable from the outlet and stop using the device immediately if it emits abnormal smoke, smell or noise. The material is the device under such conditions may cause fire the device mediately.

wave interference

Follow all other warnings and precautions described in each section.

# 4. Turning On the Device

## Turning on during installation

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



Main power 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.

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



Secondary power supply switch

### Caution

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 Do not turn off the main power switch when turning off the 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

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. Using the Rotary Bit Switch

Station address		(1)	2 (2)	3 (3)	4 (4)	5 (5)	9(9)	7 (7)	8 (8)	6	10 (A)	11 (B)	12 (C)	13 (D)	14 (E)	₹.E
Rotary bit switch	0	1	2	3	4	5	9	7	8	6	Α	В	С	D	Ε	ш

Press the Enter key to save and start operations using the new station

Figures in parentheses are in hexadecimal.

01 to 0F

Station Address

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

6. 7-segment LED Display

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The 7-segment LED displays error codes, starting with either "E" or "L	
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ŧ	
- e	
×	
þ	
₹	
ste	
Ś	ş.
ge	읒
8	ڡ
ē	ĕ
eĽ	문
s/s	SS
Sa	ŏ
.si	as
٥	<u>,</u>
描	Ĕ,
Ŧ	₽
ē	þ
g	ģ
Se	followed by "0" to "9", as described below.
7	×
þe	읗
-	₽

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=	
ō	
щ	
either	
with	
The 7-segment LED displays error codes, starting with either "E" or "L"	
codes,	below.
error	followed by "0" to "9", as described beli
ays	jes
disb	, as
	9
=	₽.
e	þ
E.	Š
ĕ	Ð
ž	ķ
Ф	ಠ
Ė	₫
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Details	System error	LAN error	WLAN error	CF error	General port error	Other error	
Error	E0	E1	E2	E3	E4	E9	

Ethernet cable connection error	
7	

# 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. (1) The device has a built-in wireless facility that has received technical standard compliance certification according to the Radio Law. Never

Using illegally modified devices may be punishable under the Radio alter or modify the device.

- Locations with severe environmental changes in temperature and

Locations potentially exposed to moisture or water vapor

- Locations where corrosive gasses or saline may be generated

- Locations where vibration occurs

- Dusty or dirty locations

humidity

 Locations surrounded by conductive materials, such as metals - Locations near high-temperature devices, such as microwave ovens and electrotherms

electromagnetic cookers, industrial refrigerators, ice makers, - Locations with magnetic fields (i.e., near microwave ovens,

devices with built-in motors.)

(7) Avoid using the device in the following locations:

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 (2) Take care not to drop, bend, or strongly shock the device, as the other than the service center

(3) Do not place objects or rest your hand on the device.
(4) Do not place food or drinks, such as coffee, or hot objects such as

(5) Do not wash or pour liquids, such as water or oil, over the device. cigarettes, on the device. It is not waterproof.

This may result in case deformation or device malfunction, such as (6) Never store or leave the device in any of the following locations. reduced or deteriorated battery performance, or memory loss.

operations may occur if the DC connector is disconnected while the

device is operating.

device.

(11) Fix the DC connecter with cable clamps. Malfunction or abnormal

agent, wring it thoroughly, and wipe the device.

(13) Dispose of the device according to the laws and regulations of your (12) Use only the dedicated AC adapter and power supply cable for the

Consult the authorities in your country for details

(10) When cleaning the device, do not use volatile solvents, such as paint thinner or benzene. Dip a soft cloth in water or diluted neutral

noise-generating devices, such as refrigerators, microwave ovens,

or devices that use motors.

Locations with direct sunlight
 Never touch the keys with sharp objects, such as a ballpoint pen.
 Use a separate power supply AC line from lines connected to

**@ 6** 

- Locations with temperatures below 41°F(5°C) - In vehicles during summer

- Locations near air-conditioning equipment

- Locations with temperatures higher than 104°F(40°C) - Locations with direct sunlight

Cable cover

1 Cable band

Power supply cable

### 8. Accessories

1 Quick Reference (this manual)

1 AC adapter