

Wireless LAN control for air conditioner

PART No. 9383636004

[Original instructions]

SETTING MANUAL

With installation instructions

Before using this product, read these instructions thoroughly and keep this manual for future reference.

Items to Check

* Prepare the following items before using this product.

Wireless Router	This product uses a wireless router that supports IEEE802.11b/g/n wireless LAN standard. Set the connection to the wireless router with WPS to perform communications by wireless LAN. Refer to the operation manual of the wireless router you wish to use, if it supports IEEE802.11b/g/n or WPS.	
Smartphone or Tablet PC	Supported OS: <ul style="list-style-type: none">• Android OS• iOS	Please check the latest supported OS version at Google play or App store.

Android and Google Play are registered trademarks of Google Inc.
App store is a service mark of Apple Inc., registered in the U.S. and other countries.
IOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license.

For information on Wireless LAN (W-LAN) control, and the full text of the following EU declaration of conformity, please refer to the following web site.

www.fujitsu-general.com/global/support/

SIMPLIFIED EU DECLARATION OF CONFORMITY

The simplified EU declaration of conformity referred to in Article 10 (9) shall be provided as follows: Hereby, FUJITSU GENERAL LIMITED declares that the radio equipment type UTY-TFSXF1 (AP-WF1E), UTY-TFSXF2 (AP-WF2E) and UTY-TFSXF3 (AP-WF3E) are in compliance with Directive 2014/53/EU."

Contents

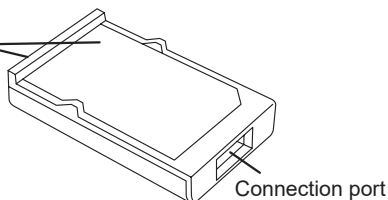
1. SAFETY PRECAUTIONS.....	4
2. USAGE PRECAUTIONS	6
3. WIRELESS LAN USAGE PRECAUTIONS	7
4. W-LAN ADAPTER INSTALLATION	10
5. PREPARATIONS FOR USE	13
6. TEMPORARY DEACTIVATION OF WIRELESS LAN	15
7. INITIALIZATION (Reset).....	15
8. OPERATING TIPS	16
9. SPECIFICATIONS	17
10.TROUBLESHOOTING.....	18
11.SETTING DETAILS	20

Name of Parts

W-LAN adapter




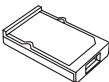
Wireless LAN label

MAC: *****
SSID: AP-WF*-*****
PIN: *****



Accessories

The following installation accessories are supplied.



Name and Shape		Q'ty	Name and Shape		Q'ty
Setting Manual (This manual)		1	CD-ROM (27 languages PDF of setting manual)		1
Web site manual		1	W-LAN adapter (with attached wire- less LAN label)		1



NOTES

- The contents of wireless LAN label is necessary for wireless LAN setup.
- Be sure to write down the details of the wireless LAN label on the list in “11. SETTING DETAILS”.
- This product has not operation buttons and indicator lamps. Setting with the remote controller of the air conditioner, and checking with the indicator lamps of the air conditioner.
- The shape of the indication lamp and the remote controller of the air conditioner may be different depending on the model.

1. SAFETY PRECAUTIONS

- ◆ To prevent personal injury, or property damage, read this section carefully before you use this product, and be sure to comply with the following safety precautions.
- ◆ Incorrect operation due to failure to follow the instructions may cause harm or damage, the seriousness of which is classified as follows:

 WARNING	This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user.
 CAUTION	This mark indicates procedures which, if improperly performed, might possibly result in personal harm to the user or damage to property.

 This mark denotes an action that is PROHIBITED.	 This mark denotes an action that is COMPULSORY.
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WARNING



- This product contains no user-serviceable parts. Always consult authorized service personnel for repairing of this product. Improper handling will cause leakage, electric shock, or fire.
- In the event of a malfunction such as burning smell, immediately stop operation of the air conditioner, and disconnect all the power supply by turning off the electrical breaker or disconnecting the power plug. Then consult authorized service personnel.



- Do not repair, disassemble or remodel this product.
- Do not get this product wet or use it in locations with lots of moisture.
- Do not operate with wet hands.
- Do not install this product in locations where the use of wireless equipment is prohibited (e.g. hospitals).
- Do not use this product near persons with a pacemaker or similar devices.
- Do not use this product near automatic control equipment (e.g. automatic doors and fire alarms).



CAUTION



- Disconnect all the power supply when you are not using this product for extended periods.
- When cleaning the air conditioner, be sure to stop operation and turn off the power. Otherwise there is risk of electric shock or injury.



- Do not stand on slippery, uneven or unstable surfaces when you install this product.
- Do not put fingers, sticks etc in the connection part of this product and the insertion slot of the air conditioner.
- This product is not USB device. Do not connect to other than specified equipment. Otherwise there is risk of malfunction or fire.

2. USAGE PRECAUTIONS

- When you use this product, it will become possible to operate the air conditioner from locations where you cannot see it directly. This means that people in the room may be exposed to the unintended operation of the air conditioner. Check the condition of the room before using this product.
 - **Be sure to check on a regular basis that dust has not built up around the connection slot of the air conditioner for this product.**
It may cause heating, or fire.
 - **Be sure to check in advance that there are no malfunctions of the air conditioner.**
 - **Be sure that the airflow from the air conditioner will not cause any adverse effects.**
Objects may fall down causing personal injury, fire, or damage to property.
 - **If you know that there are people in the vicinity of the air conditioner, inform them in advance that you will operate it from a distant location.**
Sudden operation of the air conditioner may surprise a person and cause the person to fall down or tumble if the person is on a step, ladder, etc. Furthermore, rapid changes of the room temperature may cause deterioration in a person's physical condition. Do not use this product when there are people in the room who are not able to control the temperature by themselves (For example, infants, children, those with physical disabilities, elderly or sick persons.).
 - **Fully understand the reserved timer settings and other operations before using this product.**
Unexpected operation of the air conditioner may cause deterioration in a person's physical condition or an adverse effect on animals or plants.
 - **Frequently check the settings and operating situation of the air conditioner when using this product from a distant location.**
Rapid changes of the room temperature may cause deterioration in a person's physical condition or an adverse effect on animals or plants.

- If you operate the air conditioner from this product, the indicator lamps and reception sounds of the air conditioner do not work.
- If there is bad reception between this product and the wireless router, adjusting the wireless router position or direction of the antenna may improve the reception. It may also be possible to improve reception by moving the wireless router closer to this product or using a wireless LAN repeater.

3. WIRELESS LAN USAGE PRECAUTIONS

When you use a wireless LAN, there are precautions that you must follow in relation to radio waves, personal information, and so on. To use this product correctly, be sure to read the following precautions and the operating manual of the wireless LAN equipment you are using. We will assume no responsibility, unless legal liability is recognized, in regards to failures, other defects and damages incurred by use of this product that occur through incorrect use or during use by yourself or a third party.

3.1. Radio Wave Usage Precautions



CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body. (Only UTY-TFSXF1 (AP-WF1E) model conform to IC (Industry Canada) standard.)

NOTES

This device complies with Part 15 of FCC Rules and 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 this device.

(Only UTY-TFSXF1 (AP-WF1E) model conform to IC (Industry Canada) standard.)

- Do not use this product in the following locations. Using this product in such locations may cause communications becoming unstable or not possible.
 - Near wireless communication equipment that uses the same frequency band (2.4GHz) as this product.
 - Places where there are magnetic fields from equipment such as microwave ovens, or static electricity or radio wave interference occurs.
(Radio waves may not reach depending on the environment.)

3.2. Personal Information (Security-related) Usage Precautions

- There is a possibility of interception if you use wireless LAN equipment due to the use of radio waves regardless of whether you use encryption or not.
- Wireless LAN uses radio waves to exchange information between this product and the wireless router. This means it has the advantage of freely being able to make a LAN connection if within reach of radio waves. On the other hand, if the radio waves are within a certain range, they will reach all locations beyond obstacles (e.g. walls). Therefore, it is possible your communications may be intercepted and read or illegally intruded upon.
- Do not connect to equipment and networks which you are not authorized to use when setting up your wireless connection.
- Initialize the settings of this product when disposing it, or transferring it to a third party.

3.3. Others

- Use this product as regular wireless LAN equipment.
 - Do not use this product in hospitals or in/near locations with medical equipment.
 - Do not use this product within aircraft.
 - Do not use this product near electronic equipment that handles high-precision control or weak signals.

Examples of electronic equipment to be careful of:

Hearing aids, pacemakers, fire alarms, automatic doors and other automatic control equipment

- This is not a guarantee of wireless connection and performance with all wireless routers and in all residential environments. Radio waves may not reach or may be interrupted in the following situations.
 - Use in buildings made from concrete, rebars or metal
 - Installation near obstacles
 - Interference with wireless communication equipment using the same frequency
 - Places where there are magnetic fields from equipment such as microwave ovens, or static electricity or radio wave interference occurs
- Install and setup this product only after reading the operating manual of the wireless router.

4. W-LAN ADAPTER INSTALLATION

4.1. Before installing the W-LAN adapter



WARNING

- For the air conditioner to operate satisfactorily, follow the procedures described in this manual and the operating manual of the indoor unit.



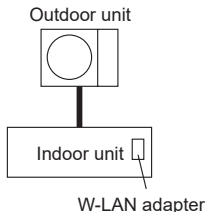
CAUTION

- Install the W-LAN adapter near the wireless router. (The connection will become unstable if it is placed further away, which will make using the system more difficult.)
- Certain types of wall materials may shut out wireless communications.
- Do not touch the heat exchanger.
- Please do not install the W-LAN adapter in the following places. Otherwise, radio communication may be interfered.
 - Places with high humidity
 - Places where it becomes extremely hot or cold
 - Near microwave ovens
 - Within 1 m (40 in) of a TV or radio
 - Places in the reach of children
 - Near automatic control devices such as automatic door sensors or fire detectors
 - Places with oil, vapour or flammable gases
 - Near medical equipment, pacemakers, defibrillators or other devices
 - Places where the W-LAN adapter could get wet, such as in the bathroom
 - Places where the W-LAN adapter is difficult to access for maintenance

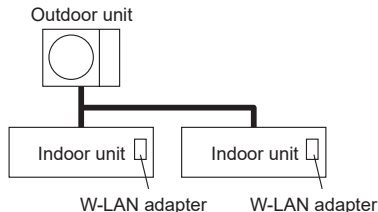
4.1.1 System diagram

One W-LAN adapter can be connected to each indoor unit.

Single connection



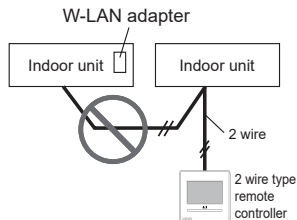
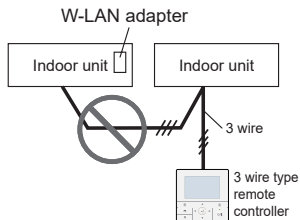
Multiple connection



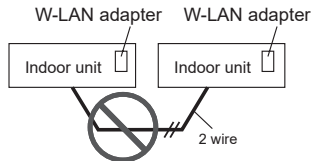
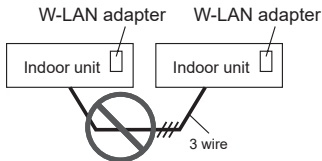
Prohibited uses:

This product cannot be used with the following air conditioner system configuration. If you don't know the system configuration of your air conditioner, please consult your dealer or installer.

- (1) Group connection of indoor units with wired remote controller



- (2) Group connection of indoor units



4.2. Installation work



WARNING

- Disconnect the power supply or turn off the breaker before starting work. Failure to disconnect the power supply may lead to electric shock or fire.
- Do not turn on the power until all installation work is complete.
- When installing this unit, make sure that there are no children nearby. Otherwise, injury or electric shock could result.



CAUTION

- Discharge static electricity on your body before starting work. If static electricity is not discharged, there is a risk that the board parts may be damaged.
- Also, connect the connectors securely. Loose connectors will cause trouble, heating, fire, or electric shock.
- Do not touch the circuit board and circuit board parts directly with your hands. Otherwise, injury or electric shock could result.

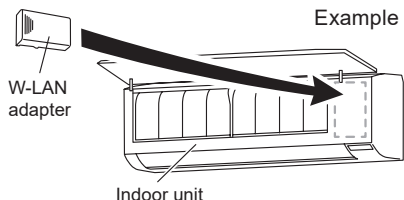
4.2.1 Installing the W-LAN adapter

CAUTION

- Do not put fingers, sticks etc in the connection part of this product and the connection slot of the indoor unit. Otherwise, electric shock or damage to the product may occur.
- To avoid the risk of electric shock, be sure to turn off the power supply of the air conditioner when installing or removing this product.
- To avoid injury listing, do not standing on an unstable platform when installing or removing this product.

Plug the W-LAN adapter into the connection slot of the indoor unit. The shape of the indoor unit, installation method and position of the connection slot may vary depending on the model.

Please refer to the operating manual of the indoor unit.



5. PREPARATIONS FOR USE

5.1. Application software installation

- 1** Open “Google Play” or “App Store” depending on the type of your smartphone or tablet PC.
- 2** Search for “FGLair”.
- 3** Install the application software (mobile app) following the instructions on your screen.

5.2. User registration

- 1** *Open the installed mobile app.*
- 2** *Register the user (with either a smartphone or tablet PC) by following the instructions in the create an account section of the mobile app.*

5.3. Air conditioner registration (pairing of W-LAN adapter)

The procedure in this chapter will depend on the model of the indoor unit. Please refer to the operating manual of the indoor unit.

NOTES:

- Before starting this setting, wait for 60 seconds or more after the power supply is connected to the air conditioner (via breaker or plug).
- Check that the smartphone or tablet PC is linked to the wireless router you are connecting the air conditioner. The setting will not work if it is not connected to the same wireless router.
- To control 2 or more air conditioners with the same smartphone or tablet PC, repeat the setup of the chosen mode.
- The display contents are subject to change as a result of updates in the mobile app, and may not match the actual screen.

6. TEMPORARY DEACTIVATION OF WIRELESS LAN

You can temporarily disable the wireless LAN.

The procedure in this chapter will depend on the model of the indoor unit. Please refer to the operating manual of the indoor unit.

7. INITIALIZATION (Reset)

The procedure in this chapter will be vary depend on the model of the indoor unit. Please refer to the operating manual of the indoor unit.

Initialize (reset) this product in the following situations:

- Changing the wireless router
- Disposing this product
- Transferring this product to a third party

■ Unregister the air conditioner

Unregister the air conditioner by using the mobile app. (Refer to the operation manual of the mobile app for details.)

■ To continue use

If you or a third party wishes to continue use of the product, follow the procedures in “5. PREPARATIONS FOR USE” to reconnect to a different wireless router.

NOTES:

Wireless LAN setup is not possible if the previous owner did not unregister or initialize this product. In this case, please contact your authorized service personnel.

8. OPERATING TIPS

- For how to operate the mobile app, refer to the operating manual of the mobile app.
- You can only register 1 Email address and password per W-LAN adapter. To add other users (smartphone or tablet PC) to the same W-LAN adapter, please use the same Email address and password.
- The air conditioner settings from the mobile app will not be reflected in the wireless remote controller.
- It will not be possible to operation and monitor by the mobile app while the power supply of the air conditioner is disconnect (via breaker or plug).
- The room temperature will be displayed in the mobile app during operation. However, the displayed room temperature may not be correct depending on the situation in the room, or the air conditioner operating status. Use this only as a reference.
- If the mobile app and remote controller settings differ, the latest operation performed will take priority.
- If timer settings are done from the mobile app and from the wireless or wired remote controller, both timer settings will be active.

9. SPECIFICATIONS

Wireless LAN-compatible standard	IEEE802.11b/g/n
Frequency bands	2.4GHz (in the U.S. or Canada: 1ch~11ch) (in the other regions: 1ch~13ch)
Maximum radio-frequency power	40mW
Wireless LAN security	Open WEP WPA (PSK) WPA2_Personal (PSK) WPS for same-LAN Registration
Operating temperature	0 - 46 °C (32 - 114 °F)

10. TROUBLESHOOTING

Check the following items before requesting repairs to this product.

Parts/Elements	Situation	Solutions
Mobile app (Download and account registration)	I don't know how to download the mobile app	Refer to "5.1. Application software installation".
	The mobile app does not work	Check that the version of the OS on your mobile device is supported. Refer to "Items to Check".
	I have not received the e-mail when registering my account	Set the domain permissions so that it is not rejected as spam.
	The method of registering additional users is unclear	You can only register 1 Email address and password per W-LAN adapter. Use the same Email address and password for other users to operate through the same W-LAN adapter.
	The method of registering additional air conditioners is unclear	To register additional air conditioners, repeat the setup of the chosen mode in "5.3. Air conditioner registration" for each air conditioner.
Wireless LAN setup and initial settings	Wireless LAN setup is not possible	Check that your wireless router supports "WPS function". (Button mode)
		Check if there was any previous owner using this wireless LAN control. If there was a previous owner, please contact authorized service personnel.

Parts/Elements	Situation	Solutions
Wireless LAN setup and initial settings	Wireless LAN setup is not possible (The connection settings of the W-LAN adapter and router are not complete)	Check that your wireless router supports "IEEE802.11b/g/n". (Check with the operating manual of the wireless router.)
		Check that the W-LAN adapter of the indoor unit is on.
Operations from the mobile app	I am not able to operate this product from the mobile app	Check that the power to the indoor unit is on.
		Check that the power to the wireless router is on.
		Check that your smartphone is not in flight mode.
		Check that you are not in a place where it is difficult to make a connection with radio waves.

NOTES:

- For the meaning of the indication lamp of the air conditioner and how to respond, please refer to the operating manual of the air conditioner.
- If the problem persists even after you perform these checks or diagnostics, consult authorized service personnel.

11. SETTING DETAILS

Record the setting details in the following table.

■ Setting information

SSID	
MAC address (MAC)	
PIN	
System commissioning date	

■ Contact details for dealer etc.

Name	
Telephone no.	

CAN ICES-3 (B)/NMB-3(B)



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