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Thank you for purchasing our Phone Control Unit (PCU) for TOSHIBA air conditioner. This smart unit can control TOSHIBA air conditioner while you away from home/office. Wherever you are, just by making a phone call or sending a short message, your air conditioner will be under your control.

Before installation, please read this operation manual and follow the instructions. Don't forget keeping this manual for future reference.

■ An overview

This product is specially designed for TOSHIBA air conditioner. Based on the connection to a landline telephone or GSM modem, under the help of built-in voice message guidance, customers can easily control the working status of a TOSHIBA air conditioner.

GSM modem is an option of our PCU, also it can be used independently. In the case of a country/region or a certain area where the landline telephone network is difficult to reach, GSM modem provides customers a new choice: wireless telephone network. Once being used along with our PCU, a new feature comes: customers can use Short Message Service(SMS) to control the air conditioner!

Cautions

1. Indoor use only
2. Do not use a power adapter doesnot meet the specifications.
3. Do not sprinkle, splash or drip water onto the unit or put it under water.
4. Avoid heavy impact or falling, do not settle the unit upon an unstable base.
5. Do not use the unit in a humid, dusty place or expose it under strong sunlight
6. Contact an authorized dealer or service agent for repair.

■ The conditions of use

1. Atmosphere temperature: 0°C~40°C;
2. Relative humidity: 10%~95%;
3. Atmosphere pressure: 86~106Kpa;
4. Noise: ≤ 60 dB;
5. I.R.codes' transmitting distance: ≤ 18 m

Parts Identification

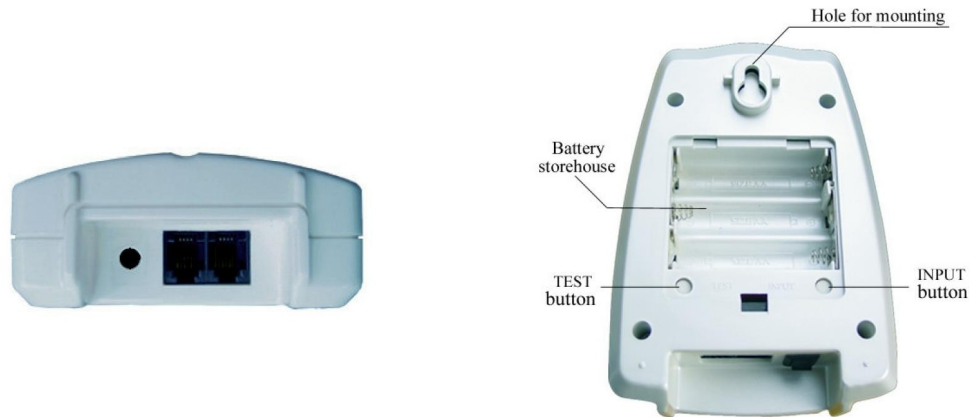


Infrared Transmitter: Emits I.R.codes to control the air conditioner's working status.

Speaker: Outputs voice message or ring

Working lamp: Indicates whether the PCU is in use or not.

Shunt-wound RJ11 socket: Standard 2 ports RJ11 socket, 6p6c for SMS integrated GSM modem, 6p4c or 6p2c for standard GSM modem or landline telephone.



Battery storehouse: A cartridge for three alkaline AA type batteries, system reserved.

Input button: An entry of I.R. codes' recording

Test button: Tests if the I.R. codes be recorded in a PCU match the working status of air conditioner

Hole for wall-mounting : Catches the tip of a screw while wall-mounting

■ Accessories

1. RJ11 modular cord (approx. 1.5m. 6-pins cable for SMS integrated GSM modem, 4-pins or 2-pins cable for standard GSM modem or landline telephone.)
2. Support bracket
3. Power adapter DC4.5~5V, 300mA (Batteries are option)
4. GSM modem (option)

■ About the connections

[Connectable devices]

The PCU can be connected to a landline telephone in tone mode, such as a common desktop telephone, an extension of a PABX system, a telephone with answering system or a fax machine.

The PCU can be connected to a GSM modem, too. GSM modem is an unit who can convert GSM wireless network signals into landline telephone signals.

[While using the PCU along with a PC modem]

If a PC (Personal Computer) modem is used, the PCU will work only when the modem is switched off;

If an ISDN (PRI / BRI) terminal adapter is used, the PCU won't work.

Installation and connection

[Installation]

Use the support bracket inside accessories package to place the PCU on a horizontal surface

[While wall-mounting]

1. Drives a screw into the wall.
2. Catches the hole for wall-mounting to the tip of screw.

Be careful:

Do not settle the PCU at a position where I.R.code transmitting path is blocked by obstacles such as curtains, doors or partitions.

The positions exposed to I.R. heat source or strong sunlight must be avoided.

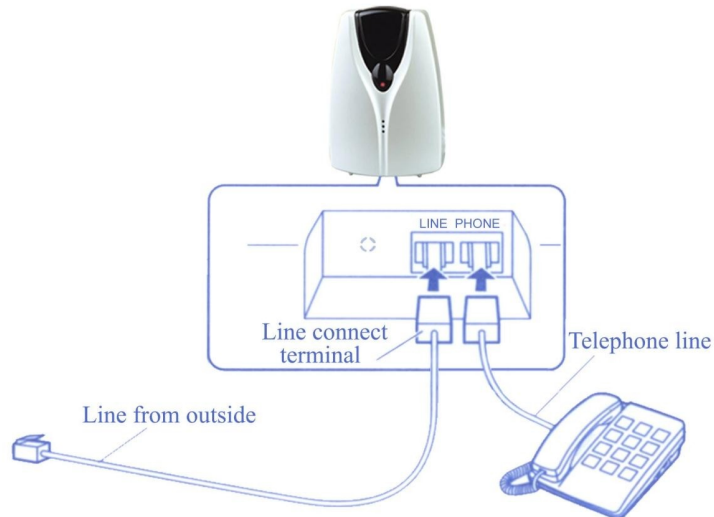
Notes:

Reception of I.R. codes can be checked by pressing “TEST” button of PCU. If the air conditioner emit a beep sound, it indicates the I.R.code is received.

[Connection]

1. In the case of PCU directly connects up a landline telephone:

Connect the incoming landline telephone’s RJ11 modular cable to one of PCU’s RJ11 ports (either “LINE” or “PHONE”).



2. In the case of PCU connects up a standard GSM modem:

Connect one of GSM modem’s RJ11 ports (either TEL1 or TEL2) with one of PCU’s RJ11 ports (either “LINE” or “PHONE”)



3. In the case of PCU connects up a SMS integrated GSM modem:

Must connect SMS integrated GSM modem’s “TEL1” port with PCU’s “LINE” port through a 6-pins RJ11 modular cord!

■ System startup

At the first time of PCU being powered on , there will be a voice message “Welcome to use air conditioner remote control system” from the loudspeaker, it indicates the PCU work normally.

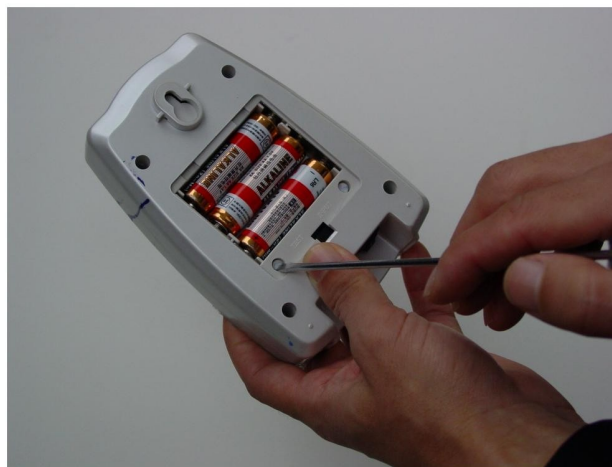
Since the “energy saving” design is adopted in our PCU, sometimes above welcome message cannot be heard (especially, from the second time of PCU being powered on). Please don’t worry about because our PCU will work normally as is.

■ **Test the built-in I.R.codes**

Point the PCU to a TOSHIBA air conditioner and press the “TEST” button, a certain I.R. code will be emitted from the PCU. If the air conditioner’s working status match the factory settings of PCU, it indicates the PCU work normally. Following is factory settings of PCU:

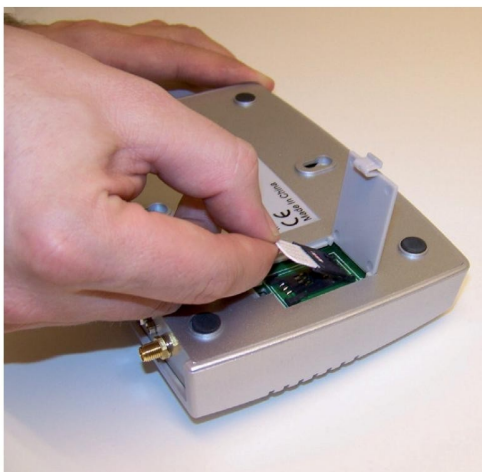
- Mode 1, cooling mode, the target temperature is 18°C, auto fan
- Mode 2, heating mode, the target temperature is 28°C, high fan
- Mode 3, dehumidification mode, the target temperature is 22°C, auto fan
- Switch off mode, the air conditioner will be shut down.

The operation routing of test cycles as following orders: “mode 1”, “mode 2”, “mode 3” and “switch off”.



Set up of the GSM modem

1. Insert a SIM card into the SIM socket.
2. Install one antenna (either indoor antenna or outdoor antenna).



3. Connect GSM modem with the PCU through a RJ11 modular cord (6-pins cable for SMS integrated GSM modem, 4-pins or 2-pins cable for standard GSM modem).
4. Plug the DC 12V 1000mA power adapter into a wall socket.



- 5.) Move the power switch to "ON" position, system will be powered on.
- 6.) Wait around 30~40 seconds until the signal strength LED is steady.



How to use the PCU.

1. Call the numbers of landline telephone/GSM SIM card being connected to the PCU, after 6 times ring (approximate 30 seconds), system will start up with a voice message: "Welcome to use air conditioner remote system, please enter your password".
2. Input a 4-digital password (the initial password is 8888) through the number keys of your telephone/mobile phone. If the password is incorrect, there will be a voice message "Incorrect password, please try again".
3. Once the password is accepted, there will be a voice message "please input-- for mode 1 , please press one; for mode 2 , please press two; for mode 3, please press three; for switch off , please press four; to change password, please press five, to reset the ring time, please press six, to hang up the phone, please press hash".
4. Press a certain number key to select the working status of air conditioner. For example, press "1" key, there will be a voice message "please input (the temperature)", after the target temperature is set, there will be a voice message to replay the temperature value(in xx degree C), then say "press zero to confirm, press star for return".
5. Once zero key is pressed, the air conditioner's working status will be changed to cooling mode at the target

temperature.

In the case of a SMS integrated GSM modem is used

1. Compose a short message(say “*01*xx*”, “*02*xx*”, “*03*xx*”, or “*04*”, “xx” is a number between 17 and 30 which indicates the Celsius temperature value of TOSHIBA air conditioner) in a mobile phone.



2. Send this short message to the SIM card numbers of the GSM modem.
3. Once GSM modem receiving the short message it will transfer a signal to wake PCU, then PCU will emit an I.R. code to the air conditioner.
4. Air conditioner’s working status will be changed according to the short message’s content (“*01*19*”—mode 1 at 19 degree C; “*02*27*”—mode 2 at 27 degree C; “*03*25*”—mode 3 at 25 degree C; “*04*”— switch off mode)
5. PCU will feedback a signal to GSM modem, then GSM modem will automatically generate and send a short message to the mobile phone, say “SET OK” or “SET FAIL” within 5~10 seconds.

Notes:

1. Please re-test the PCU to make sure each parameter matches the working status of air conditioner once it being moved to another place.
2. The PCU will hang up by itself after 30 seconds if a caller hangs up the phone directly instead of by pressing hash (“#”) key.
3. There will be a voice message “Please input” every 8 seconds if a caller doesn’t select any number key, after 24 seconds the PCU will hang up by itself.
4. Operation should be based on the built-in voice message guidance.

Maintenance

Before cleaning a PCU, please unplug the power adapter.

Clean the PCU with a dry, soft cloth/paper.

Do not use the following liquid: water, alcohol, sanitizer.

While using a chemical solvent, please read the relevant instruction and MSDS.

Do not open the cover for cleaning.

■ Specifications

Control signals: DTMF signal

Power supply: DC 4.5~5V, 300mA.

Dimensions: 132W×90D×38H (mm)

Operation temperature range: 0°C~40°C

Remote control signal: Infrared ray

Transmitting distance : ≤18m

Warranty clauses

1. The default warranty period is one year.
2. Once a defect occurs within 7 days from the date of purchase, customer owns the authority to return the problematic unit at free charge.
3. In the warranty period, customer can request a local, authorized dealer or service agent for repair at free charge according to the warranty card or invoice..
4. This warranty does not cover the following conditions:
 - Damage caused by incorrect operations
 - Unit is out of warranty period
 - Damage caused by an incorrect repair or a person not certified by authorized dealer or service agent
 - Damage caused by force major

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