

GWAVE (((Infrared

USER GUIDE

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How can I manage all security issues with one easy, intuitive and efficient

This guide describes how to install, program and operate Zipato IR Extender.

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$\frac{\text{ir extender}}{\text{quick installation guide}} 103$

IMPORTANT SAFETY INFORMATION

To avoid contact with electrical current:

- Never install an Ethernet connection in wet locations unless that connector is specifically designed for wet locations.
- Do not place Ethernet wiring or connections in any conduit, outlet or junction box containing electrical wiring.
- Installation of inside wire may bring you close to electrical wire, conduit, terminals and other electrical facilities. Extreme caution must be used to avoid electrical shock from such facilities. Avoid contact with all such facilities.
- Ethernet wiring must be at least 2 m from bare power wiring or lightning rods and associated wires, and at least 15 cm from other wire (antenna wires, doorbell wires, wires from transformers to neon signs), steam or hot water pipes, and heating ducts.

⇒ ELECTROMAGNETIC COMPATIBILITY

In proper state and when operated properly, the product complies with all the requirements in respect of interference radiation according to EN 300 220-2 and EN 301 489-3. The connections conducting HF signals must neither be manipulated nor damaged.

46

→ CONTENTS INTRODUCTION IR EXTENDER OPERATIONS INSTALLATION TROUBLESHOOTING SPECIFICATIONS IR EXTENDER CODE LIST LIMITED PRODUCT WARRANTY

DECLARATION OF CONFORMITY

The ZXT-120 is a Z-Wave to IR extender for air-conditioner (AC), (Figure 1), it works with any Z-Wave compliant gateway or controller by translating Z-Wave Thermostat Commands to AC IR control code. User can select the IR code from the built-in code library of ZXT-120, or use learning function, by using Z-Wave Configuration Commands according to the parameter table. ZXT-120 is also with built-in temperature sensor which allows gateway or controller to get the current room temperature.



Figure 1 ZXT-120

ZXT-120 can be configured as either "Frequently Listening Routing Slaves" (FLiRS) or "Always Listening" node after exclusion process (before inclusion process).

FLiRS node type is for battery operated applications and it will enter sleep mode frequently in order to conserve battery consumption that can provide the flexibility if there is out of 5Vdc power source. Also, user can place the unit in anywhere at home.

Always Listening node type is for the needs of fast response application. It works with 5Vdc power source. Always Listening node can act as a repeater, which will retransmit the RF signal to ensure that the signal is received by its intended destination by routing the signal around obstacle and radio dead spots.

ZXT-120 supports Network Wide Inclusion (NWI) and Explore Frames. It also supports Z-Wave networks with multiple gateways and controllers. Like every Z-Wave accessory, user will need to include the 4 ZXT-120 into their Z-Wave network using the primary controller. Then, the user can use either the primary controller or secondary controller to configure and setup the ZXT-120 using Z-Wave's configuration command class. Once the configuration and setup is complete, the controller can use Z-Wave "Thermostat commands class" to control their IRcontrolled air-conditioner through the ZXT-120.

⊖ CONTROLLER AND GATEWAY REQUIREMENTS

The ZXT-120 can work with any Z-Wave compliant controller or gateway supporting the following Z-Wave commands.

- Configuration Command Class
- Multilevel Sensor Command Class
- Thermostat Command Class
 - Thermostat Mode Command Class
 - Thermostat Fan Mode Command Class
 - Thermostat Set-point Command Class

$_{\text{quick installation guide}}^{\text{irextender}} \, | \, 07$

⇒ BUILT-IN IR CODE LIBRARY

The Built-in IR code library supports most of the popular air conditioner brands in the market. Z-Wave gateway and controller does not need to have any IR control code knowledge. User can use ZWave controller or gateway to select the IR code according to the ZXT-120 code list separately provided through Z-Wave configuration

command.

⊖GLOSSARY

| DEVICE OR NODE | Devices and nodes are all terms to describe an individual Z-Wave device. These are all interchangeable when setting up your Z-Wave network. |
|-------------------------|---|
| INCLUSION | Add a Z-Wave device to the network. |
| EXCLUSION | Delete a Z-Wave device from the network. |
| REMOVE | To take a device out of a group, scene or association group while that device still exists in the same Z-Wave network. |
| Z-WAVE NETWORK | A collection of Z-Wave devices is controlled by primary and secondary controllers operating on the same system. A Z-Wave network has its own unique ID code so that controllers not in the network cannot control the system. |
| PRIMARY CONTROLLER | The first controller is used to set up your devices and network. Only the Primary Controller can be used to include or delete devices from a network. It is recommendedthat you mark the primary controller for each network for ease in modifying your network. |
| SECONDARY CONTROLLER | A controller containing network information about other devices within the network and is used for controlling devices. Secondary controller is created from the Primary Controller and cannot include or delete devices to the network. |
| INCLUSION CONTROLLER | A controller containing network information about other devices within the network and is used for controlling devices. Inclusion controller is created from the Primary Controller in a SIS enabled Z Wave network. Inclusion Controllers have the ability to add and remove devices from the network. |

Before using the ZXT-120, please read the [INSTALLATION] if you need to mount the ZXT-120 to a wall. Power up the ZXT-120 by the USB Power 5Vdc or Dry battery AAA x 3pcs.

- Plug-in 5Vdc power into the USB socket if operated at Always Listening mode. Or
- Install 3xAAA batteries if operated at FLiRS mode.
- Please refer to the section of [MOUNTING PROCEDURE].
- Remove the battery cover on the back of your ZXT-120 battery chassis.
- Mount the battery cover into the main unit with 2 screws.
- Check the polarity of the batteries and the "+/-" marks inside the
- battery compartment.
- Insert the batteries.
- Push the battery cover and main unit back in place.

CAUTION (battery and power adaptor safety)

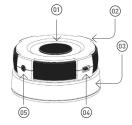
Use new batteries of the recommended type and size only.

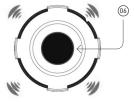
- Never mix used and new batteries together.
- To avoid chemical leaks, remove batteries from the ZXT-120 if you do not intend to use the remote for an extended period of time.
 Dispose of used batteries properly; do not burn or bury them.

$\frac{\text{IR EXTENDER}}{\text{QUICK INSTALLATION GUIDE}} 109$

→ PRODUCT OVERVIEW







⇒ Z-WAVE REMOTE CONTROL

01 | Select your operation mode; please refer to "Listening Mode" section.

02 | Include or Exclude the unit from the existing Z-Wave home

control network with your primary controller.

- Refer to your primary controller instructions to process the inclusion / exclusion setup procedure.
- When prompted by your primary controller, click once on the PROG button.
- The primary controller should indicate that the action was successful. If the controller indicates the action was unsuccessful, please repeat the procedure.
- 03 | User can use either primary controller or secondary controller (should support configuration command class) to setup the ZXT-120 AC code by the parameter 27 (IR code number for built-in code library), please refer to code list for the parameter value then setup your AC control code.
- 04 | Once the configuration and setup were completed, the controller can use Z-Wave "Thermostat commands class" to control their IR-controlled air-conditioner with the ZXT-120.
- **05** You can record down your device code under the below table for future reference after setting up the ZXT-120 correctly.

CODE NUMBER:

\ominus ZXT-120 INFORMATION

How to get the NIF "Node Information Frame" on ZXT-120 (Inclusion)

| 2 | Step | Setup Key | LED Indication Status on ZXT-120 |
|---|------|--------------------------------------|---|
| 1 | | Press the PROG button on the ZXT-120 | LED flashes once then stays off (ZXT-120 will report the supported command class) |

Parameter No. and Parameter Value of configuration command

| Parameter Number | Definitions | Parameter Value |
|------------------|--|--|
| 25 (0X19) | Indicate a location for IR code learning and start learning | 0-22 (0x00 0x16) |
| 26 (0X1A) | Learning status register Note: The status value 0x01 and 0x04 will be reset to 0 when the ZXT-120 receive a get command to this parameter | 0(0x00): Idle - this IR channel is idle (default) 1(0x01): OK - the latest learning process successful and completed 2(0x02): Learning - the ZXT-120 is busy processing previous learning request 4(0x04): Failed - the latest learning request failed |
| 27 (0X1B) | IR code number for built-in code library | Refer "Code list" for details |
| 28 (0x1C) | External IR Emitter power level | 0(0x00): normal power mode 255(0xFF): high power mode (default) |

| 32 (0x20) | Surround IR control -to avoid the IR interference by disabling the surrounding IR emitter if 2 air- conditioners in a room are used - extend the battery life by disabling the Surround IR Emitters | | | | ng ir- | | FF): | uble Surround IR Emitters enable Surround IR ıfault] | |
|-----------|---|-------|-------|---------|-----------|--|------|--|------------------------------|
| 33 (0x21) | AC fu | nctio | n "SW | /ING" | contr | ol | | | ING OFF ING AUTO(Default) |
| 35 (0x23) | Learn location status | | | data. (|)ther\ | , learn location has learn vise, Bit mask = 0 Learn location" as below | | | |
| | | | | | | | | | |
| | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | Bit Mask Byte 1 |
| | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | Location Ó-7 |
| | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | Bit Mask Byte 2 |
| | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | Location 8-15 |
| | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | Bit Mask Byte 3 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | Location 16-22 |
| | 7 6 5 4 3 2 | | | 1 | 0 | Bit Mask Byte 4 | | | |
| | | | | | | | | | [Reseved] |

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REXTENDER | 13

| 37 (0x25) | Sensor temperature compensation (This parameter is used to compensate the temperature error at temperature sensor) | Temperature offset value. Formula: Display temperature = sensor reading value + offset value (unit = degree C) $0x00 = 0^{\circ}C$ (Default) $0x01 = 1^{\circ}C$ $0x02 = 2^{\circ}C$ $0x03 = 3^{\circ}C$ $0x04 = 4^{\circ}C$ $0x5 = 5^{\circ}C$ $0xFE = -1^{\circ}C$ $0xFE = -2^{\circ}C$ $0xFC = -4^{\circ}C$ $0xFB = -5^{\circ}C$ |
|-----------|--|---|
|-----------|--|---|

Mapping Information

BASIC Set Value 0x00 will map to Thermostat mode Off 0x00.
 BASIC set Value 0xFF will map to Thermostat mode Resume 0x05

⊖ LISTENING MODE CHANGE (DEFAULT MODE IS FLIRS)

ZXT-120 can be configured as either "Frequently Listening Routing Slaves" (FLiRS) (if you are using battery) or "Always Listening" (if you are using 5Vdc adaptor) before inclusion process. Refer to Glossary for definition of "FLiRS" and "Always Listening" node.

Important:

It is not allowed to changing ZXT-120 listening mode without exclusion process (do not change ZXT-120 listening mode while ZXT-120 is included in a network).

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How to switch ZXT-120 listening mode from "Always Listening" to

"FLiRS" (or vice verse)

| Step | Setup Key | LED Indication Status on ZXT-120 |
|------|--|---|
| 1 | Press and hold the PROG button on the ZXT-120 for around 5 seconds | LED turns ON after PROG key hold for 5 seconds |
| 2 | Release the button and then press the PROG button 3 times within 2 seconds | LED flashes twice then stays off (ZXT-120 set in FLiRS mode) OR LED flashes four times then stays off (ZXT-120 set in Always Listening mode) |

Inclusion/Exclusion

| Step | Setup Key | LED Indication Status on ZXT-120 |
|------|---|--|
| 1 | Refer to your primary controller instructions to process the inclusion/ exclusion setup procedure. | - |
| 2 | When prompted by your primary controller, click once on the PROG button | LED flashes once then stay off (ZXT-120 will report the supported command class) |

The primary controller should indicate that the action was successful. If the controller indicates the action was unsuccessful, please repeat the procedure.

REXTENDER | 15

IR Code Selection

ZXT-120 is with built-in IR AC code library, user may select the IR code using Configuration Command Class.

| Step | Setup Key | LED Indication Status on ZXT-120 |
|------|---|---|
| 1 | After included ZXT-120 to Z-Wave controller or Gateway, go to device setup for configuration on gateway or controller. | - |
| 2 | Input parameter number "27" and parameter value (please look up the code list of ZXT-120 according to your AC brand). Then complete the configuration process. | - |
| 3 | Press the PROG button on the ZXT-120. (this step apply when using ZRC-100 or other portable controller for set up, if using gateway, user can skip this step) | LED flashes once when ZXT-120 receives the configuration setting. |
| 4 | Go back to the control page of ZXT-120 on the gateway and try the function such as (cool, temperature set). If the air conditioner does not respond to the command you set on Gateway (Cool, Heat, Auto, Temperature set etc.), repeat step 2 and 3 to select the next code on code list. | LED flashes once every time it receives a command from gateway. |

Important Information

 Different brand or model of air conditioner has different function. For example, some air conditioner only support temperature set from 18°C-30°C, if user set 17 °C on gateway, ZXT-120 will not respond.

There are more than 1 code for each brand, some does not support heat, if user selected a code that does not support heat but the
original air conditioner supports heat function, please continue to try next code until the correct one is selected.

 If none of the code works on the target air conditioner, or the air conditioner brand is not shown on the code list, please select code "000" for IR code learning (refer to instruction of IR Code Learning)

${ ightarrow}$ IR CODE LEARNING

In case none of the code on the code list works for the targeted air conditioner, user can use IR code learning function using configuration according to below steps:

| Step | Setup Key | LED Indication Status on ZXT-120 |
|------|--|--|
| 1 | Go to configuration setting page on the gateway or ZRC- 100 and input parameter number "27" and parameter value "000" to select the dedicated AC code number "000" for learning. | LED flashes twice when ZXT-120 receives the configuration setting. |
| 2 | Look up below mapping table (value 0-22) for learning, and decide the IR setting you intent to learn next. For example "22°C, cool" which matches value "5" (IR code to be learnt will locate at "5" in ZXT-120]. Set your original air conditioner remote at "22°C, cool" and turn it off. (Besides temperature and mode, you may set other desired settings, such as Fan, Swing etc.] | - |
| 3 | Go to configuration setting page on the gateway or ZRC- 100 and input parameter number "25" and parameter value "5" (in this case). | - |

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REXTENDER | 17

| 4 | Press the PROG button on the ZXT-120. (this step apply when using ZRC-100 or other portable controller for set up, if using gateway, user can skip this step) | LED flashes once when ZXT-120 receives the configuration setting. ZXT-120 flashes once again to start learning |
|---|--|--|
| 5 | Aim the original air conditioner remote at ZXT- 120 from distance within 1-3 inches. Press "power on" button on the original air conditioner remote. If the learning is failed, repeat step 3 to step 5. To learn next IR code, repeat step 2 to step 5. | LED flashes 6 times if |

When you encounter problem, check followings:

Make sure your original remote is switched to power off.

Press the key on original remote before learning mode timeout.

Keep away from incandescent light and direct sunlight during learning.

 Make sure IR Transmitter of your original remote alight with learning diode of ZXT-120, you may also slight adjust closer or further away the distance of two devices. Some of remotes the IR transmitter in hidden behind lens and may not installed center of remote.

Make sure the power is good on both devices, especially the original remote. Use fresh batteries.

⊖ IR LEARNING MAPPING TABLE (PARAMETER NUMBER 25)

| Parameter Value | Thermostat command & IR setting | | |
|--------------------|---------------------------------|----------------------------|--|
| (Storage Location) | Storage in Celsius unit | Storage in Fahrenheit unit | |
| 0 | OFF | OFF | |

| 1 | ON (resume) | ON (resume) |
|----|-------------|------------------|
| 2 | 19 °C cool | 67 °F cool |
| 3 | 20 °C cool | 68 or 69 °F cool |
| 4 | 21 °C cool | 70 or 71 °F cool |
| 5 | 22 °C cool | 72 or 73 °F cool |
| 6 | 23 °C cool | 74 or 75 °F cool |
| 7 | 24 °C cool | 76 °F cool |
| 8 | 25 °C cool | 77 or 78 °F cool |
| 9 | 26 °C cool | 79 or 80 °F cool |
| 10 | 27 °C cool | 81 or 82 °F cool |
| 11 | 28 °C cool | 83 or 84 °F cool |
| 12 | 19 °C heat | 67 °F heat |
| 13 | 20 °C heat | 68 or 69 °F heat |
| 14 | 21 °C heat | 70 or 71 °F heat |
| 15 | 22 °C heat | 72 or 73 °F heat |
| 16 | 23 °C heat | 74 or 75 °F heat |
| 17 | 24 °C heat | 76 °F heat |
| 18 | 25 °C heat | 77 or 78 °F heat |

| 19 | 26 °C heat | 79 or 80 °F heat |
|----|------------|------------------|
| 20 | 27 °C heat | 81 or 82 °F heat |
| 21 | 28 °C heat | 83 or 84 °F heat |
| 22 | Dry mode | Dry mode |

Important Information

After all learning completed, user can go back to the ZXT-120 control page on the gateway for normal operation.

On the gateway UI, user can only use the temperature range from the mapping table, OFF, DNRESUMEL COOL, HEAT, DRY, If
user press the button of FAN, or other function on the gateway UI which is point listed in above table, ZXT-120 will not respond.
 I user only learnt ON, OFF, or and of the settings according to the above table, ZXT-120 will send the learnt data to the
air conditioner only. For example, user only learnt ON, OFF, 22°C Cool, 24°C Heat, ZXT-120 will not send IR data to air conditioner if
user set 27°C cool on the gateway.

 ZXT-120 has been pre-defined default cool at 26°C, default heat at 22°C, when user press Cool on gateway without setting temperature, ZXT-120 will send the learnt data of 26°C Cool to air conditioner. When user press Heat on gateway without setting temperature, ZXT-120 will send the learnt data of 22°C Heat to air conditioner.

There is only one code for dry mode, user can set it at any preferred temperature.

 User can still use gateway to set up scene and schedule with ZXT-120, for example, to have AC turn on at 23°C every day at 7pm, 25°C at 11pm. Just make sure the set code is learnt.

 The learning mapping table is for split air conditioner which remote control is with LCD display. For window type air conditioner (which remote control is without LCD display), the mapping table with temperatures do not apply, due to different type of IR control protocol. However, user may still use the OFF, or OWRESUME, DPK key for learning. Because the POWER key on the original remote without LCD display is toggle, user can choose either ON key, or OFF key to learn Power key, after learning is done, press once to turn on the air conditioner is the air conditioner is OFF, press conce to turn off if the air conditioner is ON|

→ RESET ZXT-120 TO FACTORY DEFAULT

 ${\sf Press} \ {\rm and} \ {\sf hold} \ "{\sf PROG}" \ {\rm button} \ {\rm for} \ 10 {\rm seconds} \ {\rm on} \ {\sf ZXT-120}. \ {\sf During} \ {\rm the} \ {\rm key} \ {\rm hold} \ {\rm period},$

RED LED lights up at around 5 seconds, then, it will flash twice until reset process is completed at around 10 seconds.

Information

 If you are using Gateway or other Z-wave controllers to operate ZXT-120, Please follow the instruction from the gateway or other controller.

You can check either the specifications in the manual of your ZXT-120 or also check online at www.zipato.com for a full list of
products that can be used with your ZXT-120.

\bigcirc INSTALLATION

ightarrow MOUNTING THE ZXT-120 TO A WALL

MOUNTING LOCATION PRECAUTIONS

- Before mounting, check the material and structure of the mounting location. If the location does not have the proper material or structure, the ZXT-120 can fall and cause injuries.
- Use commercial items that best match the wall structure and material for the screws and other fixtures.
- Do not mount near a kitchen counter, humidifier, or other location in which it can be exposed to smoke or steam. Doing so could cause a fire or electrical shock.
- Do not mount in locations with high humidity or large amounts of dust. Doing so could cause a fire or electrical shock.
- Do not mount to locations subject to high temperatures, high humidity, or exposure to water. Doing so could cause a fire or electrical shock.
- Do not mount to locations subject to large amounts of vibration, large jolts, or large forces. These could cause an injury if the ZXT-120 falls and breaks.

MOUNTING PROCEDURE PRECAUTIONS

• Do not modify parts or use the ZXT-120 in ways other than its intended use. Doing so could cause the ZXT-120 to fall and result in an injury.

www.zipato.com

REXTENDER | 21

- Be sure to fully check that there are no electrical wires or pipes inside the wall before mounting.
- If any of the screws are loose, the ZXT-120 can fall and cause an injury. Do not mount the ZXT-120 with the screws still loose.
- Check that the two screws mounted to the wall are fully inserted into the key holes of the ZXT-120. Otherwise, the ZXT-120 can fall and cause an injury.
- Do not mount the ZXT-120 so that it sticks out from the wall edge. It could get hit by people's bodies or objects and cause an injury.
- Supplier will not be liable for any accidents or injuries that occur due to improper mounting or handling.
- When mounting, be careful not to get your fingers pinched or injure your hands.

MOUNTING PROCEDURE PRECAUTIONS

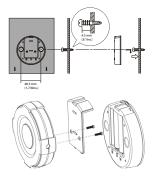
The ZXT-120 can be mounted to a wall or wooden racks using the two key holes in the bottom case.

Note 1: The reception sensitivity varies depending on the antenna direction.

Note 2: Before mounting to a wall, be sure to fully read the precautions.

- 1. Obtain two screws suitable for the wall strength and material.
- The positional relationship between the ZXT-120 key holes and the screw mounting positions are shown in the figure below.

Note 1: When mounting the screws to the wall, leave a space between the wall and screw cap as shown in the figure.



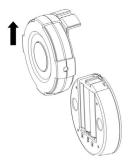
- Insert the ZXT-120 key holes onto the two screws mounted to the wall, and then slide downward to secure in place.
- After securing the ZXT-120 to the wall, connect the USB Power or batteries and IR emitter cable to the ZXT-120.

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$\frac{\text{ir extender}}{\text{quick installation guide}} 123$

Note 1: Check that the ZXT-120 is firmly secured to the wall Note 2: Insert USB plug or batteries and IR emitter cable so that they are firmly connected to the ZXT-120.

- When removing the ZXT-120 from the wall, lift up the ZXT-120, then pull it towards you.
- 6. Detach the main unit from the battery chassis by move toward to top position.



→ WIRELESS INFORMATION

Wireless range:

This device has an open-air line-of-sight transmission distance of 100 feet which complies with the Z-Wave standards. Performance can vary depending on the amount of objects in between Z-Wave devices such as walls and furniture. Every Z-Wave device set up in your network will act as a signal repeater allowing devices to talk to each other and find alternate routes in the case of a reception dead spot.

Radio frequency limitations:

- Each wall or object (i.e.: refrigerator, bookshelf, large TV, etc) can reduce the maximum range of 20m by up to 20 to 30%.
- Plasterboard and wooden walls block less of the radio signal then concrete, brick or tile walls which will have more of an effect on signal strength.
- Wall mounted Z-Wave devices will also suffer a loss of range if they are housed in metal junction boxes which could also reduce the range by up to 20 to 30%.

- Do not expose your ZXT-120 to dust, strong sunlight, humidity, high temperatures or mechanical shocks.
- Do not use old and new batteries together as old batteries tend to leak.
- Do not use corrosive or abrasive cleansers on your ZXT-120.
- Keep the unit dust free by wiping it with a soft, dry cloth.
- Do not disassemble your unit, it contains no user-serviceable parts.

→ TROUBLESHOOTING

Why won't my ZXT-120 work with the Z-Wave devices I purchased from another country?

Due to different countries regulations Z-Wave products from different regions are set to different frequencies. Before purchasing new devices make sure you have checked that the device is compatible in your region.

How do I know which product is compatible with my ZXT-120?

ZXT-120 should work with any Z-Wave controller or gateway that has control capability for "Thermostat" devices. All Z-Wave products also come with the Z-Wave logo.



Can I use the USB port to configure ZXT-120?

No, the mini USB port only provides an alternative option for user to power the ZXT-120.

Do I need an electrician to install Z-Wave products in my house?

Installation can be simple. In some cases all you need to do is mount the ZXT-120 to a wall or wooden racks. You also can place the ZXT-120 on the desk and power it with dry cell batteries.

How to select my air-conditioner IR code from ZXT-120?

You should refer to the code list and look into the brand and try the code no. sequentially until you find the right code. You can record down your device code under the table for future reference after setting up the ZXT-120 correctly.

ZXT-120 is working on top and 4-directions IR output, but there is no response on the IR emitter socket, why?

ZXT-120 supports two IR power levels for the external IR emitter to avoid saturation of the IR receiver. You can set the IR output power level by the Parameter Table value (normal or high power mode) or adjust the position of your external IR emitter.

Can I use 2 or more ZXT-120 in my house? What is the max. units if yes? Yes and it is very depend on the capability of gateway / controller. For example, gateway can supports up to 8, 16 or 32 ZXT-120 in a network.

How to avoid the IR interference if I am using 2 identical air conditioners in same location but want to control them individually?

User can disable the Surround IR Output function, connect the external IR emitter and aim it at the specific AC unit. The operating distance of external IR emitter is around 100cm (High power mode) and 50cm (Low power mode) but it is also depends on the sensitivity of the IR receiver.

REXTENDER | 27

⇒ SPECIFICATIONS

\supset MODEL NO.

- rm-zxt120.eu
- rm-zxt120.is
- rm-zxt120.in
- rm-zxt120.ru
- rm-zxt120.us

⇒ RF FREQUENCY

- 868.4MHz (EU) (rm-zxt120.eu)
 916.02MHz (IS) (rm-zxt120.is)
- 🔳 865.22MHz (IN) (rm-zxt120.in)
- 869.02MHz (RU) (rm-zxt120.ru)
- 908.4MHz (US) (rm-zxt120.us)

⇒ TEMPERATURE

- Measurable range: 32 104 °F / 0 40 °C
- Report resolution: 1 degree C
- Operation: 0 40°C
- Storage: -20 60°C

→ POWERED BY

- USB Power DC 5V 100mA or
- Dry battery AAA x 3pcs

${ ightarrow}$ RF OPERATING DISTANCE

up to 80ft outdoor line of sight, in unobstructed environment

up to 25ft line of sight, in unobstructed environment

Max. 23 commands

- Dia.=70mm, T = 18mm (Main unit)
- Dia.=70mm, T = 15.5mm (Battery chassis)

\bigcirc WEIGHT

- 35g (Battery chassis excluded)
- 60g (Battery chassis included)
- 90g (Main + Battery chassis + AAA x3pcs)

Z-Wave device type

Basic Device Class: BASIC_TYPE_ROUTING_SLAVE

Generic Device Class: GENERIC_TYPE_THERMOSTAT

Specific Device Class: SPECIFIC_TYPE_THERMOSTAT_GENERAL_V2

| Z-Wave Command Class | Version | Controlled | Supported |
|-------------------------------------|----------|------------|-----------|
| COMMAND_CLASS_THERMOSTAT_MODE | Version2 | No | Yes |
| COMMAND_CLASS_THERMOSTAT_SETPOINT | Version2 | No | Yes |
| COMMAND_CLASS_THERMOSTAT_FAN_MODE | Version2 | No | Yes |
| COMMAND_CLASS_BATTERY | Version1 | No | Yes |
| COMMAND_CLASS_CONFIGURATION | Version1 | No | Yes |
| COMMAND_CLASS_BASIC | Version1 | No | Yes |
| COMMAND_CLASS_VERSION | Version1 | No | Yes |
| COMMAND_CLASS_SENSOR_MULTILEVEL | Version1 | No | Yes |
| COMMAND_CLASS_SWITCH_ALL | Version1 | No | Yes |
| COMMAND_CLASS_MANUFACTURER_SPECIFIC | Version1 | No | Yes |

SUPPORTED FUNCTION IN THERMOSTAT COMMAND CLASS How to get the NIF "Node Information Frame" on ZXT-120 (Inclusion)

| Z-Wave command class | Description | Supported |
|------------------------|---------------------|-----------|
| | Auto/Auto Low | Yes |
| | Low | Yes |
| Thermore test Fee mode | Auto High | Yes |
| Thermostat Fan mode | High | Yes |
| | Auto Medium | Yes |
| | Medium | Yes |
| | Heating | Yes |
| | Cooling | Yes |
| | Furnace | No |
| | Dry Air | Yes |
| Thermostat Set point | Moist Air | No |
| | Auto changeover | Yes |
| | Energy Save heating | No |
| | Energy Save cooling | No |
| | Away heating | No |
| | Off | Yes |
| Thermostat Mode | Heat | Yes |
| | Cool | Yes |

| | Auto | Yes |
|-----------------|--------------------------|-----|
| | Auxiliary/Emergency Heat | No |
| | Resume | Yes |
| | Fan only | Yes |
| | Furnace | No |
| Thermostat Mode | Dry Air | Yes |
| | Moist Air | No |
| | Auto Changeover | Yes |
| | Energy Save Heat | No |
| | Energy Save Cool | No |
| | AWAY | No |

⊖ ZXT-120 FUNCTIONS AND PARAMETERS SUMMARIES:

| FUNCTIONS | AIR CONDITIONER FUNCTION | Z-WAVE COMMAND CLASS | Z-WAVE COMMAND | COMMAND PARAMETER |
|-----------|-----------------------------|---------------------------------------|-------------------------|----------------------|
| POWER | POWER ON | COMMAND_CLASS_ THERMOSTAT _MODE | THERMOSTAT_ MODE_SET | MODE = 5 |
| | | COMMAND_CLASS_ BASIC | BASIC_SET | VALUE = 0XFF |
| | POWER OFF | COMMAND_CLASS_ THERMOSTAT _MODE | THERMOSTAT_ MODE_SET | MODE = 0 |
| | | COMMAND_CLASS_ BASIC | BASIC_SET | VALUE = 0X00 |

IR EXTENDER | 31

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| | AUTO | COMMAND_CLASS_ THERMOSTAT _MODE | THERMOSTAT_ MODE_SET | MODE = 3 |
|-------------|-----------------|---------------------------------------|-------------------------|-----------------------|
| | COOL | COMMAND_CLASS_ THERMOSTAT _MODE | THERMOSTAT_ MODE_SET | MODE = 2 |
| MODE | FAN | COMMAND_CLASS_ THERMOSTAT _MODE | THERMOSTAT_ MODE_SET | MODE = 6 |
| MODE | HEAT | COMMAND_CLASS_ THERMOSTAT _MODE | THERMOSTAT_ MODE_SET | MODE = 1 |
| | DRY | COMMAND_CLASS_ THERMOSTAT _MODE | THERMOSTAT_ MODE_SET | MODE = 8 |
| | AUTO Changeover | COMMAND_CLASS_ THERMOSTAT _MODE | THERMOSTAT_ MODE_SET | MODE = 10 |
| | HFAT mode | | | SETPOINT TYPE = 1 |
| | Temperature | | | TEMPERATURE VALUE |
| | COOL mode | | | SETPOINT TYPE = 2 |
| TEMPERATURE | Temperature | COMMAND_CLASS_ | THERMOSTAT | TEMPERATURE VALUE |
| SETTING | DRY mode | THERMOSTAT | _SETPOINT | SETPOINT TYPE = 8 |
| | Temeprature | _0211 0111 | | TEMPERATURE VALUE |
| | AUTO mode | | | SETPOINT TYPE = 10 |
| | Temperature | | | TEMPERATURE VALUE |

| | FAN AUTO | COMMAND_CLASS_ THERMOSTAT _FAN_MODE, v1 | THERMOSTAT_ FAN_MODE_ SET | FAN MODE = 0 |
|-----------|----------------|---|---------------------------------|-----------------------|
| EAN OPER | PANAUTU | COMMAND_CLASS_ THERMOSTAT _FAN_MODE, v2 | THERMOSTAT_ FAN_MODE_ SET | FAN MODE = 0, 2, or 4 |
| FAN SPEED | | COMMAND_CLASS_ THERMOSTAT _FAN_MODE, v1 | THERMOSTAT_ FAN_MODE_ SET | FAN MODE = 1 |
| | FAN LOW (1/3) | COMMAND_CLASS_ THERMOSTAT _FAN_MODE, v2 | THERMOSTAT_ FAN_MODE_ SET | FAN MODE = 1 |
| | | - | - | - |
| | FAN MID (2/3) | COMMAND_CLASS_ THERMOSTAT _FAN_MODE, v2 | THERMOSTAT_ FAN_MODE_ SET | FAN MODE = 5 |
| | | COMMAND_CLASS_ THERMOSTAT _FAN_MODE, v1 | THERMOSTAT_ FAN_MODE_ SET | FAN MODE = 3 |
| | FAN HIGH (3/3) | COMMAND_CLASS_ THERMOSTAT _FAN_MODE, v2 | THERMOSTAT_ FAN_MODE_ SET | FAN MODE = 3 |
| | SWING ON/ | COMMAND CLASS | CONFIGURATIO | PARAMETER NO. = 33 |
| | SWING AUTO | CONFIGURATION | N_SET | SIZE = 1 |
| SWING | | | | VALUE = 1 |
| SWING | | COMMAND_CLASS_ | CONFIGURATIO | PARAMETER NO. = 33 |
| | SWING OFF | CONFIGURATION | N_SET | SIZE = 1, |
| | | | | VALUE = 0 |

IR EXTENDER | 33

| | | | | PARAMETER NO. = 27 |
|----------------------|--------------|---|-------------------------------|-----------------------|
| IR CODE SETUP | | COMMAND_CLASS_ CONFIGURATION | CONFIGURATIO N_SET | SIZE = 2 |
| | | | | VALUE = (CODE#) |
| | NORMAL POWER | COMMAND CLASS | CONFIGURATIO | PARAMETER NO. = 28 |
| IR TRANS- | LEVEL | CONFIGURATION | N_SET | SIZE = 1 |
| MISSION | | | | VALUE = 0 |
| POWER | HIGH POWER | COMMAND CLASS | CONFIGURATIO | PARAMETER NO. = 28 |
| | LEVEL | CONFIGURATION | N_SET | SIZE = 1, |
| | | | | VALUE = 0xFF |
| | DISABLE | COMMAND_CLASS_ CONFIGURATION | CONFIGURATIO N_SET | PARAMETER NO. = 32 |
| FRONT IR | | | | SIZE = 1 |
| TRANS- | | | | VALUE = 0 |
| MISSION CONTROL | | COMMAND CLASS | CONFIGURATIO | PARAMETER NO. = 32 |
| | ENABLE | CONFIGURATION | N_SET | SIZE = 1, |
| | | | | VALUE = 0xFF |
| BATTERY LEVEL | | COMMAND_CLASS_ BATTERY | BATTERY_GET | |
| VERSION | | COMMAND_CLASS_ VERSION | VERSION_GET | |
| MANUF'ER SPECIFIC | | COMMAND_CLASS_ MANUFACTURER_ SPECIFIC | MANUFACTURER_ SPECIFIC_GET | |

| TEMPERA- TURE SENSOR | | COMMAND_CLAS_ SENSOR_MULTILEVEL | S E N S O R _ MULTILEVEL_ GET | |
|-------------------------|--|------------------------------------|-------------------------------------|--|
|-------------------------|--|------------------------------------|-------------------------------------|--|

\bigcirc IR EXTENDER CODE LIST

| Ascon | 463 | | | | | | | | | |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Acura | 94 | | | | | | | | | |
| Aikira | 174 | | | | | | | | | |
| Aircon | 42 | 57 | 58 | | | | | | | |
| Airwell | 276 | 432 | | | | | | | | |
| Americool | 430 | | | | | | | | | |
| Apton | 67 | | | | | | | | | |
| Ariagel | 13 | | | | | | | | | |
| Aucma | 413 | 414 | | | | | | | | |
| Aux | 189 | 407 | 21 | 190 | 398 | 399 | | | | |
| Azure | 424 | | | | | | | | | |
| Beaver | 184 | | | | | | | | | |
| | 108 | 109 | 112 | 88 | 96 | 97 | 98 | 99 | 100 | 101 |
| Carrier | 102 | 103 | 104 | 105 | 106 | 107 | 110 | 111 | 396 | 397 |
| | 431 | | | | | | | | | |
| Change Users | 178 | 179 | 180 | 5 | 121 | 122 | 123 | 124 | 125 | 126 |
| Chang Hong | 127 | 134 | 135 | 136 | 148 | | | | | |
| Chigo | 186 | 42 | 57 | 58 | | | | | | |
| Chuanhua | 37 | 113 | | | | | | | | |

IR EXTENDER | 35

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| Chunlan | 19 | 150 | 151 | | | | | | | |
|-------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|
| Classic | 46 | | | | | | | | | |
| Comfortstar | 35 | 78 | | | | | | | | |
| Conrowa | 37 | 70 | 113 | | | | | | | |
| Consul | 468 | 469 | | | | | | | | |
| Coolrech | 4 | | | | | | | | | |
| Coolwex | 18 | 428 | | | | | | | | |
| Corona | 288 | | | | | | | | | |
| Daewoo | 70 | | | | | | | | | |
| | 6 | 11 | 1 | 26 | 313 | 321 | 324 | 367 | 2 | 30 |
| Daikin | 32 | 50 | 211 | 290 | 325 | 29 | 162 | 163 | 261 | 264 |
| | 265 | 267 | 31 | 33 | 266 | 268 | 269 | 5270 | 366 | 289 |
| Delonghi | 13 | 46 | 91 | | | | | | | |
| Ecoair | 42 | | | | | | | | | |
| Elco | 432 | | | | | | | | | |
| Electra | 432 | 433 | 465 | 466 | 467 | | | | | |
| Electrolux | 55 | 295 | 297 | | | | | | | |
| Elsonic | 81 | | | | | | | | | |
| Emailair | 34 | 153 | | | | | | | | |
| Fedders | 276 | | | | | | | | | |
| Frigidaire | 273 | 274 | 275 | | | | | | | |
| Fujitsu | 16 | 199 | 200 | 201 | 202 | 55 | 27 | 34 | 203 | 204 |
| rujitsu | 205 | 206 | 227 | 158 | 159 | 160 | 161 | | | |
| Galanz | 4 | 70 | 83 | 86 | 277 | 381 | | | | |

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| General | 25 | 27 | 34 | 57 | | | | | | |
|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| General (FUJITSU) | 16 | | | | | | | | | |
| Gorenje | 46 | 55 | | | | | | | | |
| Gree | 18 | 69 | 292 | 376 | 429 | 154 | 155 | 195 | 15 | |
| Guangda | 20 | 37 | 113 | | | | | | | |
| Guqiao | 4 | | | | | | | | | |
| Haier | 76 | 210 | 256 | 23 | 75 | 77 | 156 | 172 | 198 | 207 |
| Talei | 208 | 209 | 257 | 197 | | | | | | |
| Heran | 421 | | | | | | | | | |
| Hisene | 68 | 80 | 382 | 9 | 427 | 10 | | | | |
| Hitachi | 52 | 53 | 120 | 227 | 258 | 259 | 260 | 291 | 298 | 299 |
| HILACIII | 472 | 39 | 50 | 51 | 255 | 262 | 263 | 375 | 436 | |
| Hualing | 37 | 56 | 70 | 193 | | | | | | |
| Huifeng | 113 | | | | | | | | | |
| INYCIN | 70 | | | | | | | | | |
| Kang Li | 43 | | | | | | | | | |
| Kelon | 411 | 12 | 13 | 14 | 143 | | | | | |
| Kelvinator | 46 | 87 | 17 | | | | | | | |
| Kolin | 44 | | | | | | | | | |
| Komeco | 46 | 88 | | | | | | | | |
| Konka | 42 | 70 | | | | | | | | |
| Lennox | 15 | 18 | 69 | | | | | | | |
| LG | 464 | 91 | 17 | 81 | 82 | 294 | | | | |

| Lloyd | 186 | | | | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| McQuay | 196 | 470 | | | | | | | | |
| Midea | 54 | 46 | 40 | 79 | 55 | 113 | 78 | | | |
| Midea_ Toshiba | 48 | | | | | | | | | |
| Miller | 40 | 42 | 46 | 54 | 55 | 57 | 58 | | | |
| Mirage | 15 | 18 | 69 | | | | | | | |
| | 194 | 232 | 233 | 278 | 280 | 281 | 282 | 283 | 284 | 285 |
| Mitsubishi | 286 | 287 | 302 | 303 | 304 | 305 | 307 | 314 | 320 | 113 |
| | 244 | 245 | 246 | 247 | 248 | 249 | 42 | 279 | | |
| | 4 | 176 | 228 | 229 | 230 | 231 | 233 | 234 | 235 | 236 |
| Mitsubishi Electric | 237 | 238 | 239 | 240 | 315 | 326 | 392 | 35 | 37 | 57 |
| | 93 | 153 | 287 | 70 | | | | | | |
| Mitsubishi | 36 | 42 | 184 | 243 | 250 | 20 | 38 | 113 | 114 | 115 |
| (Heavy | 116 | 117 | 118 | 119 | 131 | 132 | 133 | 164 | 165 | 251 |
| Industries) | 252 | 253 | 254 | 278 | 306 | 316 | 317 | 319 | 322 | |
| Natinal | 369 | 402 | 211 | | | | | | | |
| | 127 | 128 | 129 | 130 | 135 | 136 | 137 | 138 | 139 | 140 |
| NEC | 141 | 142 | 146 | 147 | 148 | 152 | 166 | 167 | 168 | 169 |
| | 170 | | | | | | | | | |
| Neo | 186 | | | | | | | | | |
| Panasonic | 64 | 95 | 183 | 191 | 368 | 323 | 47 | 61 | 62 | 63 |
| | 65 | 92 | 241 | 242 | 365 | 378 | 379 | 437 | 461 | 462 |
| | 185 | 293 | | | | | | | | |

| Panda | 28 | | | | | | | | | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Philco | 41 | | | | | | | | | |
| Rasonic | 394 | | | | | | | | | |
| Samsung | 73 | 74 | 84 | 425 | 49 | 300 | 301 | 438 | 149 | 171 |
| | 45 | 59 | 60 | 127 | 128 | 129 | 130 | 134 | 135 | 136 |
| Sanyo | 137 | 138 | 139 | 140 | 141 | 142 | 146 | 147 | 148 | 152 |
| | 166 | 167 | 168 | 169 | 170 | 187 | 218 | | | |
| Schnerider Elecric | 42 | | | | | | | | | |
| Shangling | 70 | | | | | | | | | |
| SHARP | 90 | 318 | 426 | 8 | 192 | 213 | 143 | 144 | 145 | 157 |
| SHARP | 212 | 214 | 215 | 216 | 217 | 193 | 7 | 66 | | |
| Shinco | 22 | 85 | | | | | | | | |
| Shining | 70 | | | | | | | | | |
| Siemens | 46 | | | | | | | | | |
| Springer | 88 | | | | | | | | | |
| Super General | 57 | | | | | | | | | |
| Surrey | 55 | | | | | | | | | |
| Tadiran | 40 | 46 | 48 | 54 | 471 | | | | | |
| TCL | 24 | 380 | 434 | | | | | | | |
| Teco | 426 | | | | | | | | | |
| TONAL | 188 | | | | | | | | | |
| Tornado | 40 | 46 | 48 | | | | | | | |

| Toshiba | 182 | 56 | 175 | 177 | 181 | 186 | 220 | 221 | 222 | 223 |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 224 | 225 | 226 | 219 | 71 | | | | | |
| Тоуо | 42 | | | | | | | | | |
| Toyo Cool | 42 | | | | | | | | | |
| Trane | 69 | 3 | 173 | 174 | | | | | | |
| Videocon | 186 | | | | | | | | | |
| VOLTAS | 4 | 377 | 46 | | | | | | | |
| Westpoint | 88 | | | | | | | | | |
| Whirlpool | 13 | 211 | 271 | 272 | | | | | | |
| White- Westinghouse | 395 | | | | | | | | | |
| Xileng | 150 | | | | | | | | | |
| YORK | 18 | 15 | 55 | 89 | 296 | | | | | |
| Yutu | 70 | | | | | | | | | |

→ GENERAL TERMS

Nothing in this Limited Product Warranty affects your statutory rights as a consumer. The Limited Product Warranty set forth below is given by Tri plus grupa d.o.o. (Europe) (herein referred to as "ZIPATO"). This Limited Product Warranty is only effective upon presentation of the proof of purchase. Upon further request by ZIPATO, this warranty card has to be presented, too.

EXCEPT AS EXPRESSLY SET FORTH IN THIS LIMITED WARRANTY, ZIPATO MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. ZIPATO EXPRESSLY DISCLAIMS ALL WARRANTIES NOT STATED IN THIS LIMITED WARRANTY. ANY IMPLIED WARRANTIES THAT MAY BE IMPOSED BY LAW ARE LIMITED IN DURATION TO THE LIMITED WARRANTY PERIOD.

TO THE EXTENT ALLOWED BY LOCAL LAW, THE REMEDIES IN THIS WARRANTY STATEMENT ARE CUSTOMER'S SOLE AND EXCLUSIVE REMEDIES AGAINST ZIPATO. THEY DO NOT, HOWEVER, AFFECT OR RESTRICT THE RIGHTS YOU HAVE AGAINST THE BUSINESS YOU BOUGHT A ZIPATO PRODUCT FROM. IN NO EVENT WILL ZIPATO BE LIABLE FOR LOSS OF DATA OR FOR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFIT OR DATA), OR OTHER DAMAGE, WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE.

HOWEVER, NOTHING IN THIS AGREEMENT LIMITS ZIPATO'S LIABILITY TO YOU (I) IN THE EVENT OF DEATH OR PERSONAL INJURY TO THE EXTENT RESULTING FROM ANY FRAUDULENT MISREPRESENTATION ON THE PART OF ZIPATO, OR (III) TO THE EXTENT ARISING UNDER PART 1 OF THE CONSUMER PROTECTION ACT 1987 OF THE UNITED KINGDOM. SOME STATES OR COUNTRIES DO NOT ALLOW: (1) A DISCLAIMER OF IMPLIED WARRANTIES; (2) A LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION; OR (3) LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR CONSUMER PRODUCTS. IN SUCH STATES OR COUNTRIES, SOME EXCLUSIONS OR LIMITATIONS OF THIS LIMITED WARRANTY MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS THAT MAY VARY FROM STATE TO STATE OR FROM COUNTRY TO COUNTRY. YOU ARE ADVISED TO CONSULT APPLICABLE STATE OR COUNTRY LAWS FOR A FULL DETERMINATION OF YOUR RIGHTS.

This Limited Product Warranty applies to ZIPATO branded hardware products (collectively referred to as "ZIPATO Hardware Products") sold by ZIPATO (Europe), its European subsidiaries, affiliates, authorized resellers, or country distributors (collectively referred to as "ZIPATO Resellers") with this Limited Product Warranty. The term "ZIPATO Hardware Product" is limited to the hardware components and all its internal components including firmware. The term "ZIPATO Hardware Product" DOES NOT include any software applications or programs.

⊖ GEOGRAPHICAL SCOPE OF THE LIMITED PRODUCT WARRANTY

This Limited Product Warranty is applicable to Hardware Products sold by Zipato Resellers in all countries listed at the beginning of this document under the heading "Countries in which this ZIPATO Limited Product Warranty applies". The Limited Product Warranty will be honored in any country where ZIPATO or its authorized service providers offer warranty service subject to the terms and conditions set forth in this Limited Product Warranty. However, warranty service availability and response times may vary from country to country and may also be subject to registration requirements.

⇒ LIMITATION OF PRODUCT WARRANTY

ZIPATO warrants that the products described below under normal use are free from material defects in materials and workmanship during the Limited Product Warranty Period set forth below ("Limited Product Warranty Period"), if the product is used and serviced in accordance with the user manual and other documentation provided to the purchaser at the time of purchase (or as amended from time to time). ZIPATO does not warrant that the products will operate uninterrupted or error-free or that all deficiencies, errors, defects or non-conformities will be corrected.

This warranty shall not apply to problems resulting from: (a) unauthorized alterations or attachments; (b) negligence, abuse or misuse, including failure to operate the product in accordance with specifications or interface requirements; (c) improper handling; (d) failure of goods or services not obtained from ZIPATO or not subject to a then-effective ZIPATO warranty or maintenance agreement; (e)

improper use or storage; or (f) fire, water, acts of God or other catastrophic events. This warranty shall also not apply to any particular product if any ZIPATO serial number has been removed or defaced in any way.

ZIPATO IS NOT RESPONSIBLE FOR DAMAGE THAT OCCURS AS A RESULT OF YOUR FAILURE TO FOLLOW THE INSTRUCTIONS FOR THE ZIPATO HARDWARE PRODUCT.

⇒ LIMITED PRODUCT WARRANTY PERIOD

The Limited Product Warranty Period starts on the date of purchase from ZIPATO. Your dated sales or delivery receipt, showing the date of purchase of the product, is your proof of the purchase date. You may be required to provide proof of purchase as a condition of receiving warranty service. You are entitled to warranty service according to the terms and conditions of this document if a repair to your ZIPATO branded hardware is required within the Limited Product Warranty Period.

[Other than in respect of products for domestic use (in particular those listed in the first and last boxes in the table below), this Limited Product Warranty extends only to the original end user purchaser of this ZIPATO Hardware Product and is not transferable to anyone who obtains ownership of the ZIPATO Hardware Product from the original end-user purchaser.



\bigcirc PRODUCT WARRANTY PERIOD TABLE

| PRODUCT TYPE | Product Warranty Period |
|--------------|-------------------------|
| IR EXTENDER | One (1) year |

IMPORTANT: The content of "Product Type" listed above is subject to change; please refer to the www.zipato.com for latest update.

If a product defect occurs, ZIPATO's sole obligation shall be to repair or replace any defective Zipato Hardware Product free of charge provided it is returned to an Authorized ZIPATO Service Centre during the Limited Warranty Period. Such repair or replacement will be rendered by ZIPATO at an Authorized ZIPATO Service Centre. All component parts or hardware products that are replaced under this Limited Product Warranty become the property of ZIPATO. The replacement part or product takes on the remaining Limited Warranty Period of the replaced part or product. The replacement product need not be new or of an identical make, model or part; ZIPATO may in its discretion replace the defective product (or any part thereof) with any reconditioned equivalent (or superior) product in all material respects to the defective product.

WARRANTOR

Tri plus grupa d.o.o. Banjavciceva 11 10 000 Zagreb CROATIA

TEL +385 (0)1 4004 404 FAX +385 (0)1 4004 405

→ DECLARATION OF CONFORMITY

The Manufacturer Tri plus grupa d.o.o. hereby declares that the product: Zipabox Smart home controller 1 (zbzweugv1)

CE

In accordance with the following Directive(s): 2006/95/EC The Low Voltage Directive, 89/336/EEC The Electromagnetic Compatibility Directive and 1999/5/ EC R&TT EC Directive is in conformity with the e applicable requirements of the following documents:

EN 300 220-2 EN 60950-1

EN 301 489-1

EN 301 489-3

EN 62479

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications. The unit complies with all applicable Essential Requirements of the Directives.

PERSON RESPONSIBLE FOR THIS DECLARATION:

Dean Janacek, Certification Manager

Changes or modifications not expressly approved Tri plus grupa d.o.o. for compliance could void the user's authority to operate the equipment.

FC

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, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

NOTE: Changes or modifications not expressly approved by Zipato for compliance could void the user's authority to operate the 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 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.

ir extender | 49

DISPOSING AND RECYCLING YOUR PRODUCT



This symbol on the product or packaging means that according to local laws and regulations needs to be disposed of separately from household waste and sent to recycling because it contains electronic components and a battery. Once this product has reached the end of its life, please take it to a collection point (recycle facilites) designated by your local authorities, some will accept your product for free or simply drop it off at your Zipato re-seller store. By recycling the product and its packaging in this manner you help to conserve the environment and protect human health. At Zipato, we understand and are committed to reducing any impact our operations and products may have on the environment. To minimize this impact Zipato designs and builds its products to be as environmentally friendly as possible, by using recyclable, low toxic materials in both products and packaging.



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→ NOTES

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make your home smart