zipato
everything under control

Z-WAVE REMOTE

QUICK INSTALLATION GUIDE
v1.0

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ELECTROMAGNETIC COMPATIBILITY
When operated according to manufacturer instructions, the product complies with all applicable CE harmonised standards from EMC Directive 2004/108/EC and Part 15 of the FCC Rules. The connections conducting HF signals must not be damaged or altered in any way by the user.

TAKE CARE OF YOUR SAFETY
Display extreme caution when using ladders or steps, please follow manufacturer's instructions. Be careful when using hand and power tools and follow the manufacturer's guidelines when using them. Take care that the correct tools are used. Wear goggles or protective clothing where required.

INTRODUCTION

Zipato Z-Wave Remote is a simple controller for controlling AV device through Z-Wave-to-IR extender, and it can also control 8 ON/OFF lighting groups via basic set, based on Z-Wave technology.
It is the Z-Wave plus product, it support the security, OTA... all the newest features of the Z-Wave technology. Z-Wave is a wireless communication protocol designed for home automation, specifically to remotely control applications in residential and light commercial environments. The technology uses a low-power RF radio embedded or retrofitted into home electronics devices and systems, such as lighting, home access control, entertainment systems and household appliances.
This product can be included and operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers and/or other applications. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

The device adopts the Z-Wave 500 series chip. When your Z-Wave network system is all made by Z-Wave 500 series devices, the network system will have the advantages as below.

- Concurrent multi-channel support reduces external interference
- Better RF range, about 10 meters improvement indoors.
- Supports 100 Kbps transmission speed

OVERVIEW



PACKAGE CONTENT

1PC	Z-Wave Remote
1PC	Quick Installation Guide

SPECIFICATION

TECHNICAL SPECIFICATION

PROTOCOL	Z-Wave Plus
POWER	Li 602025 battery, rechargable
OPERATING VOLTAGE:	3.7V
OPERATING CURRENT	40 mA
STANDBY CURRENT	8 uA
OPERATING TEMPERATURE	-10°C ~ 40°C
RANGE	Min 30m indoor/70m outdoor (indoor use only)
CONNECTIONS	Micro-USB port (for charging)
WEIGHT	-
DIMENSIONS	-
PACKAGE WEIGHT	-
PACKAGE DIMENSIONS	-
REGULATIONS	EMC 2004/108/EC, R&TTE 1995/5/EC, LVD 2006/95/EC, FCC PART 15
WARRANTY	1 year

MODEL AND FREQUENCIES

EUROPEAN UNION - EU version	ph-psr03.eu / 868.42 MHz
UNITED STATES - US version	ph-psr03.us / 908.42MHz
RUSSIA - RU version	ph-psr03.ru / 869.02MHz
ISRAEL - IS version	ph-psr03.is / 916.02MHz
AUSTRALIA - AU version	ph-psr03.au / 921.42MHz
INDIA - IN version	ph-psr03.in / 865.20MHz

FEATURES

- When used with Z-Wave-to-IR extender, it can control AV equipment
- Controls light groups via basic ON/OFF Z-Wave set
- New Z-Wave 500 series chip supports multichannel operation and higher data rates (9.6/40/100kbps)
- Higher output power enhances communication range(+6dBm output power as compared to -2.5dBm 300 series)
- Built-in Lithium Polymer Battery rechargable over Micro-USB port
- Long battery life
- Green and red led indicator
- Slim, modern, keyfob design
- IPX-5 Waterproof

POWER UP PROCEDURE

The device can not work normally in the first time. Please activate the battery through micro USB before the first use. After the device is activated by connecting to micro USB, the device will start charging and LED will light on with red color. If the battery is full charged, LED will light on with green color. When device is charging, it will send Wake Up Notification to controller minutely.

BATTERY POWER CHECK
When any keys around the central key is pressed, the device will check the battery power. If the power level is too low, the red LED will flash once after pressing. Please charge the device through micro USB immediately.

NWI
When it poweres up, the device will check if it is already added to the network. If it isn't, it will automatically start the NWI mode. The LED will flash in every second and continue for about 30 seconds, until timeout or successful inclusion by controller. You can hold down the central key and then press the top-right key 3 times within 1.5 seconds to abort the NWI mode.

FUNCTION CONTROL

Z-Wave Remote can control AV device via Z-Wave-to-IR extender and lighting groups ON/OFF. It has five keys on itself; the central one has group-button switching and special function, the other two are control keys.

AV CONTROL

In Group-Button 1(Red LED), the top-left key and bottom-left key control Volume Up(0x0003) and Volume Down(0x0002), and the top-right key and the bottom-right key control Channel Up(0x0004) and Channel Down(0x0005).
In Group-Button 2 (Green LED), the top-left key and the bottom-left key control Play(0x0013) and Stop(0x0014), and the top-right key and the bottom-right key control Fast Forward(0x0016) and Rewind(0x0017).

SIMPLE AV CONTROL SET (V4)
Group-Button 1
Key: Top-left Command: 0x0003 Universal Label: Volume Up
Key: Bottom-left Command: 0x0002 Universal Label: Volume Down
Key: Top-right Command: 0x0004 Universal Label: Channel Up
Key: Bottom-right Command: 0x0005 Universal Label: Channel Down
Group-Button 2
Key: Top-left Command: 0x0013 Universal Label: Play
Key: Bottom-left Command: 0x0014 Universal Label: Stop
Key: Top-right Command: 0x0016 Universal Label: Fast Forward
Key: Bottom-right Command: 0x0017 Universal Label: Rewind

LIGHTING GROUP CONTROL

Each group-button controls four lighting groups through keys around the central key. Switch ON/OFF the lighting groups by pressing those keys once/twice quickly. For example, if you want to turn on lighting group 1, press central key to switch to mode 1(Red LED) then press the top-left key once. If you want to turn off lighting group 7, press the central key to switch to mode 2(Green LED) then press the bottom-left key twice quickly.
The lighting groups are not equal to association groups. The relation between lighting groups and association groups is shown below.

LIGHTING GROUP CONTROL	
Group-Button 1	
Top-left Key	Lighting group 1 (Association group 2)
Top-right Key	Lighting group 2 (Association group 3)
Bottom-left Key	Lighting group 3 (Association group 4)
Bottom-right Key	Lighting group 4 (Association group 5)
Group-Button 2	
Top-left Key	Lighting group 5 (Association group 6)
Top-right Key	Lighting group 6 (Association group 7)
Bottom-left Key	Lighting group 7 (Association group 8)
Bottom-right Key	Lighting group 8 (Association group 9)

Notice: For switch AV control or lighting group control function please setting the configuration No.7 bit 0.

ADDING TO Z-WAVE NETWORK

In the beggining, you have to activate the device through micro USB and then it can be added to the Z-Wave network. First, make sure the primary controller is in the inclusion mode. And then power on the device. The device will auto start the NWI (Network Wide Inclusion) mode. It should be included within 5 seconds. LED will light up for one second.

INCLUSION:
- Put the Z-Wave Controller in inclusion mode.
- Hold down the central key, then press the top-right key 3 times within 1.5 seconds to enter inclusion mode.
- After successful inclusion, the device will wake to receive the setting command from Z-Wave Controller in about 20 seconds.

EXCLUSION:
- Put the Z-Wave Controller in exclusion mode.

- Hold down the central key, then press the top-right key 3 times within 1.5 seconds to enter exclusion mode. Node ID has been excluded.

RESET:

- Hold down the central key, then press the top-right key 4 times within 1.5 seconds and during 4th press, hold the key until LED lights up.
- After 3 seconds the LED will turn OFF, and after next 2 seconds, release the tamper key. If successful, the LED will light ON for second. Otherwise, the LED will flash once.
- IDs are excluded and all settings will reset to factory default.

ASSOCIATION:

- Have Z-Wave Controller enter association mode.
- Hold down the central key, then press the top-right key 3 times within 1.5 seconds to enter association mode.

  Note: The device supports 9 groups. The group 1 is for receiving the report message. Group 2 to 9 are for lighting group control. Each group supports 4 nodes.

Including a node ID allocated by Z-Wave Controller means inclusion. Excluding a node ID allocated by Z-Wave Controller means exclusion.
Fail or success in including/excluding the node ID can be viewed from Z-Wave Controller.

Notice: The device can not work normally in the first time. Please activate the battery before the first use.
Notice: Always Reset a Z-Wave device before trying to add it to a Z-Wave network.
Notice: When the device is in NWI mode, the NWI mode will timeout after 30 seconds. You can hold down the central key, then press the top-right key 3 times within 1.5 seconds to abort the NWI mode.

Z-WAVE NOTIFICATION

After the device is added to the network, it will wake-up once per day in default. When it wakes up it will broadcast the "Wake Up Notification" message to the network, and wake-up 10 seconds to receive the setting commands. To wake-up the device immediately, please hold down the central key, then press the top-right key once within. The device will wake-up for 10 seconds.

Z-WAVE MESSAGE REPORT

When the panic is triggered, the device will report the trigger event and also report the battery status.

PANIC REPORT

When the central key is held down for over 5 seconds, the device will send the report to the nodes in the group 1.

Notification Report (V4)
Notification Type: Emergency Alarm (0x0A) Event: Contact Medical Service (0x03)

TIMING REPORT

Beside the event triggered could report message, the device also supports the timing of unsolicited status reports.

- Battery level report: Every 6 hours report once in default. It could be changed by setting the configuration NO. 10.
- Low battery report: When the battery level is too low, every 30 minutes will report once.

Notice: The configuration NO. 10 could be setting to zero to disable the auto report.

WAKE UP NOTIFICATION

When device is charging, it will send Wake Up Notification to controller minutely.

Z-WAVE CONFIGURATION SETTINGS

- For all of the configuration, the data size is 1.
- The configuration marked with star(*), means that after the removal of device, settings will be preserved, without reverting back to factory default settings, unleass the user execute the "RESET" procedure.

NO.	Name	Default	Valid	Description
2	Basic Set Level	0xFF	All	Setting the BASIC command value to turn on the light. The 0xFF(-1) means turn on the light. For dimmer equipment 1 to 100 means the light strength. 0 means turn off the light.
7 (*)	Customer Function	0	All	Customer function switch, using bit control. Bit0: Switch AV control/ Lighting group control. (0: AV control, 1: lighting group control)
10	Auto Report Battery Time	12	0~127	The interval time for auto report the battery level. 0 means turn off auto report battery. Each tick means 30 minutes. The default value is 12(6 hours).
82	Association Group 2 Basic Set Level	0	All	Setting the BASIC command value to turn on the light in the association group 2. 0 means using the value of configuration 2 to set.
83	Association Group 3 Basic Set Level	0	All	Setting the BASIC command value to turn on the light in the association group 3. 0 means using the value of configuration 2 to set.
84	Association Group 4 Basic Set Level	0	All	Setting the BASIC command value to turn on the light in the association group 4. 0 means using the value of configuration 2 to set.
85	Association Group 5 Basic Set Level	0	All	Setting the BASIC command value to turn on the light in the association group 5. 0 means using the value of configuration 2 to set.
86	Association Group 6 Basic Set Level	0	All	Setting the BASIC command value to turn on the light in the association group 6. 0 means using the value of configuration 2 to set.
87	Association Group 7 Basic Set Level	0	All	Setting the BASIC command value to turn on the light in the association group 7. 0 means using the value of configuration 2 to set.
88	Association Group 7 Basic Set Level	0	All	Setting the BASIC command value to turn on the light in the association group 8. 0 means using the value of configuration 2 to set.
89	Association Group 9 Basic Set Level	0	All	Setting the BASIC command value to turn on the light in the association group 9. 0 means using the value of configuration 2 to set.

SECURITY NETWORK

This device supports the security function. When the device is included by security controller, the device will auto switch to the security mode. In the security mode, the following commands need to be wrapped in Security Command Classes to communicate, otherwise there will be no response.

COMMAND_CLASS_BATTERY
COMMAND_CLASS_SIMPLE_AV_CONTROL_V1
COMMAND_CLASS_NOTIFICATION_V4
COMMAND_CLASS_ASSOCIATION_V2
COMMAND_CLASS_CONFIGURATION
COMMAND_CLASS_WAKE_UP_V2

OVER THE AIR FIRMWARE UPDATE

This device supports Z-Wave firmware update via OTA. Let the controller into the firmware update mode, and then wake up the device to start the update.
After the firmware download is finished, the LED will start flash in every 0.5 second. At that time, **please don't remove the battery,** otherwise it will cause the firmware upgrade to fail, and the device will not function. Wait for the LED to stop flashing, after which the firmware update was successful.

Z-WAVE COMMAND CLASSES

COMMAND_CLASS_ZWAVEPLUS_INFO_V2
COMMAND_CLASS_BATTERY
COMMAND_CLASS_NOTIFICATION_V4
COMMAND_CLASS_ASSOCIATION_V2
COMMAND_CLASS_CONFIGURATION
COMMAND_CLASS_MANUFACTURER_SPECIFIC_V2
COMMAND_CLASS_VERSION_V2
COMMAND_CLASS_WAKE_UP_V2
COMMAND_CLASS_ASSOCIATION_GRP_INFO
COMMAND_CLASS_POWERLEVEL
COMMAND_CLASS_DEVICE_RESET_LOCALLY
COMMAND_CLASS_SECURITY
COMMAND_CLASS_FIRMWARE_UPDATE_MD_V2
COMMAND_CLASS_MARK
COMMAND_CLASS_BASIC
COMMAND_CLASS_SIMPLE_AV_CONTROL_V1

TROUBLESHOOTING

Having trouble installing your new product?
Zipato's website contains the latest user documentation and software updates for Zipato products and services:
www.zipato.com

You can also find answers in the Zipato Community at:
community.zipato.com

Zipato Support: **support@zipato.com**

LIMITED PRODUCT WARRANTY

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.

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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.

PRODUCT WARRANTY PERIOD TABLE

PRODUCT TYPE	Z-Wave Remote
PRODUCT WARRANTY PERIOD	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.

PERFORMANCE OF THE LIMITED PRODUCT WARRANTY

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
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DECLARATION OF CONFORMITY

The manufacturer Tri plus grupa d.o.o declares under our sole responsibility that the product:

Marketing model: Z-Wave Remote
Regulatory model: ph-psr03
Trade/Brand name: Zipato

is in conformity with the Low Voltage Directive 2006/95/EC, EMC Directive 2004/108/EC, R&TTE Directive 1995/5/EC and carries the CE marking accordingly.
The following harmonized standards were applied:

R&TTE [1995/5/EC]
EN 300 220-1: V2.4.1
EN 300 220-2: V2.4.1

EMC [2004/108/EC]
EN 301 489-1: V1.9.2
EN 301 489-3: V1.6.1
EN 55022:2010 + AC:2011, Class B

LVD [2006/95/EC]
EN 60950-1:2006+A11:2009+A1:2010+A12:2011

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

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.

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.
- Consult the dealer or an experienced radio/TV technician for help.

DISPOSING AND RECYCLING YOUR PRODUCT

When it reaches end of life, dispose of the product according to your local enviromental laws, guidelines and regulations.

BATTERY DISPOSAL
Dispose of batteries according to your local enviromental laws, guidelines and regulations.

This symbol on the product or packaging means that according to local laws and regulations needs to be disposed of separately from household waste. 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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