

# MICROMODULE SWITCH DOUBLE

QUICK INSTALLATION GUIDE  
v1.3

## TRADEMARKS

Zipato and the Zipato logo are registered Trademarks. All other product names mentioned herein may be trademarks or registered trademarks of their respective companies.

## NOTICE

Although Zipato has attempted to ensure the accuracy of the content of this manual, it is possible that this document may contain technical inaccuracies, typographical, or other errors. Zipato assumes no liability for any error in this publication, and for damages, whether direct, indirect, incidental, and consequential or otherwise, that may result from such error, including, but not limited to loss of data or profits. Zipato provides this publication "as is" without warranty of any kind, either express or implied, including, but not limited to implied warranties of merchantability or fitness for a particular purpose. The published information in the manual is subject to change without notice. Zipato reserves the right to make changes in the product design, layout, and driver revisions without notification to its users. This version of the Installation guide supersedes all previous versions.

## ELECTROMAGNETIC COMPATIBILITY

In proper state and when operated properly, the product complies with all the requirements in respect of interference radiation according to EN 301 489-17, EN 301 489-1 and EN 300 328. The connections conducting HF signals must neither be manipulated nor damaged.

## 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.

## DANGER

### RISK OF ELECTROCUTION

All work on the device should only be carried out by trained and skilled electricians. Observe the country-specific regulations.

## CAUTION

The connected devices and the flush-mounted receiver can become damaged if devices are operated that do not correspond to the technical specifications (see technical data).

## DANGER

### RISK OF FATAL INJURY FROM ELECTRIC CURRENT.

The device has no basic insulation and must therefore be installed in a way that protects against accidental contact.

## DANGER

### RISK OF FATAL INJURY FROM ELECTRIC CURRENT.

When installing a wall plate, the distance between the cover's fixing brackets or screws and the connections of the flush-mounted MicroModule Switch Double must be at least 4 mm once installed. If the distance is less than 4 mm, a deeper installation box must be used. The fixing brackets or screws of the cover must not press against the housing. Only insulated tools may be used for operation on the device, e.g. an insulated phase tester.

## INTRODUCTION

### TECHNICAL SPECS

|                          |                         |
|--------------------------|-------------------------|
| NORMAL OPERATING VOLTAGE | 230VAC, 50Hz            |
| MAXIMUM LOAD             | Max350W RC              |
| WIRELESS RANGE           | Up to 30m line of sight |

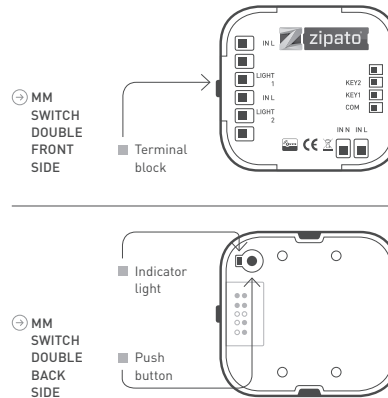


FIGURE 1

### BASIC OPERATIONS

- The MicroModule Switch Double can be remotely controlled.
- The MicroModule Switch Double can be controlled by the push button on the front of the device.
- The MicroModule Switch Double's indicator light will indicate the status of the switch.
- The MicroModule Switch Double can connect with your existing 2 Gang push button switch with ON / OFF function.

### MOUNTING

- Turn OFF power by switching off the circuit breaker or removing the fuse and test that power is off before wiring!
- Ensure MicroModule Switch Double capacity matches the load requirements.
- Wall Installation: Connect it with your existing 2 Gang push button switch, please see below Wiring Diagrams.
- Reapply power to the circuit at fuse box or circuit breaker to test the system carefully, if the indicator light on MicroModule Switch Double blinks 30 seconds and then keep breathing, it means the installation is in good condition.
- Turn OFF the power again.
- For Wall Installation: Insert your push button switch together with MicroModule Switch Double into switch box being careful not to pinch or crush wires, and secure it with screws. Reapply power to the circuit at fuse box or circuit breaker.

MAXIMUM LOAD: 230VAC, 50Hz, max6A

Wall Installation Wiring Diagram, connect with push button switch: [see Figure 2]

PLEASE NOTE: A 6A external fuse before the red wire Live of the MicroModule Switch Double switch must be installed in the installation for protect the MicroModule Switch Double switch overload. [see Figure 2] Red wire refers to Live IN, blue wire refers to Neutral, and black wire refers to connecting with switch.

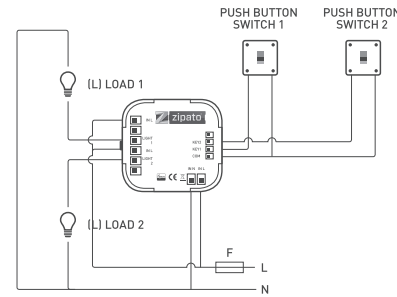


FIGURE 2

### NETWORK WIDE INCLUSION

When the MicroModule Switch Double is not yet included in a Z-Wave network, NWI will be started automatically for 30 seconds when the MicroModule Switch Double is switching ON. Make sure your Z-Wave controller is in the correct operating mode (inclusion).

### NORMAL INCLUDE OR EXCLUDE

Make sure your Z-Wave controller is in the right operation mode (include or exclude). Press and hold the push button for 1 second and release to start the inclusion or exclusion process (indication mode: Ready for learn model). [see Figure 1]

### MANUAL CONTROL

Connect the terminal block COM, KEY1, KEY2 with your existing 2 Gang push button switch, as per the wiring diagram. Push the push button switch to control with ON / OFF function.

### REMOTE CONTROL

The MicroModule Switch Double can be remote controlled by several Z-Wave controllers or devices.

### INDICATION MODES

- The indicator gives various statuses of the device as follows:
- Automatically add: blinks 30 seconds.
  - Ready for learn mode: Indicator light Breathing.
  - Learn in progress (add): Indicator light blinks 1 time.
  - Learn in progress (remove): Indicator light blinks 1 second (8 times).
  - Learn mode success: Indicator light is on for 1 time. [and then if load is on, indicator light keep on; if load is off, indicator light keep breathing]
  - Learn mode failed: Indicator light blinks fast.

## TECHNICAL MANUALS

### CAUTION

- This device is using a radio signal that passes through walls, windows and doors. The range is strongly influenced by local conditions such as large metal objects, house wiring, concrete, furniture, refrigerators, microwaves and similar items. On average, the indoor range is approximately 30 meters.
- Do not expose this product to excessive heat or moisture.
- Prevent long term exposure to direct sunlight.
- Do not attempt to repair this product. If the product is damaged or if you are in doubt about the proper operation, take the product back to the place of purchase.
- Do not clean the product with any liquid.

### TECHNICAL DETAILS:

|                          |                         |
|--------------------------|-------------------------|
| NORMAL OPERATING VOLTAGE | 110-230VAC, 50/60Hz     |
| MAXIMUM LOAD             | Max6A                   |
| WIRELESS RANGE           | Up to 30m line of sight |
| STORAGE TEMPERATURE      | -5 °C to +65 °C         |
| STORAGE HUMIDITY         | 10% to 70%              |

|                       |               |
|-----------------------|---------------|
| OPERATING TEMPERATURE | 0 °C to 50 °C |
| OPERATING HUMIDITY    | 30% to 80%    |

### ROUTING SLAVE

This Z-Wave product will be used as slave. Slave nodes are nodes in a Z-Wave network that receive commands and perform actions based on the command. A routing slave can route Z-Wave messages to other nodes in the network.

This device is always awake and does not go to sleep mode because it is an AC powered device. This device can act as a wireless repeater to forward commands for another device in the Z-Wave network to expand the range of the network.

This function works for every Z-Wave device from any manufacturer when included into the same Z-Wave network. Unlike a normal slave a routing slave can store a number of static routes which he uses to send a routed rf frame to another node.

### INCLUDE INITIATOR

The include initiator is used when Primary and Inclusion Controllers include nodes into the network. When both the include initiator have been activated simultaneously the new node will be included to the network (if the node was not included previously).

### EXCLUDE INITIATOR

The exclude initiator is used by Primary Controllers to exclude nodes from the network. When the exclude initiator and a slave initiator are activated simultaneously, it will result in the slave being excluded from the network (and reset to Node ID zero). Even if the slave was not part of the network it will still be reset by this action.

### Z-WAVE COMPATIBILITY

Because this is a Z-Wave device, it means it can co-operate with other Z-Wave devices of other manufacturers. It can co-exist in a Z-Wave network existing with product from other manufacturers.

### HOPS & RETRIES

The Z-Wave range has a range of up to 30 meters in line of sight. This signal is not limited to the 30 meter range due to routing the Z-Wave message to other nodes in the network. This way the range of the Z-Wave network can be expanded to 150 meters indoors (limit of 4 hops).  
0 | not used  
1 | Set to default

### DESCRIPTION:

Set all config values to default values (factory settings). Read more in chapter Configuration Reset.

### SUPPORTING COMMAND CLASSES

| BASIC TYPE    | BASIC_TYPE                 | ROUTING_SLAVE_GENERIC |
|---------------|----------------------------|-----------------------|
| GENERIC TYPE  | GENERIC_TYPE_SWITCH_BINARY |                       |
| SPECIFIC TYPE | SPECIFIC_TYPE_NOT_USED     |                       |
| LISTENING     | TRUE, Z-Wave Lib: 4.51     |                       |

Class: 0x26 COMMAND\_CLASS\_SWITCH\_BINARY  
Class: 0x27 COMMAND\_CLASS\_SWITCH\_ALL  
Class: 0x72 COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC  
Class: 0x86 COMMAND\_CLASS\_VERSION  
Class: 0x85 COMMAND\_CLASS\_ASSOCIATION  
Class: 0x70 COMMAND\_CLASS\_MULTI\_CHANNEL\_V2  
Class: 0x2B COMMAND\_CLASS\_SCENE\_ACTIVATION  
Class: 0x2C COMMAND\_CLASS\_SCENE\_ACTUATOR\_CONF

### CONFIGURATION RESET

The MicroModule Switch Double Supports a configuration resets function.

### CONFIGURATION RESET MEANS

- All configuration values are defaulted.

This function can be activated by sending a configuration set frame.

## TROUBLESHOOTING

### ➔ FREQUENTLY ASKED QUESTIONS

Q | Why does the push button on the switch not work?  
A | Check if the MicroModule Switch Double is completely wiring.

Q | I can't have my MicroModule Switch Double included into my Z-Wave network, what am I doing wrong?

A | 1. Is the controller ready to include any device into the Z-Wave network? If the controller is not in include or exclude mode, the MicroModule Switch Double cannot be included or excluded.  
2. The MicroModule Switch Double is already included into a Z-Wave network. Exclude this MicroModule Switch Double and try to include it again.

Q | Why does the indicator light not work?

A | Check if the MicroModule Switch Double is fully wiring. The indicator light will not work if there is no power supplied to the MicroModule Switch Double.

### ➔ TECHNICAL SUPPORT

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](http://www.zipato.com)

### ➔ CONTACT SUPPORT

E-MAIL: [support@zipato.com](mailto:support@zipato.com)  
(Mon-Fri) 9.00am-05.00pm (CET)

## MODELS AND FREQUENCIES

### ➔ MODELS

|                             |             |
|-----------------------------|-------------|
| EUROPEAN UNION - EU version | wt-mmnds.eu |
| UNITED STATES - US version  | wt-mmnds.us |
| RUSSIA - RU version         | wt-mmnds.ru |
| ISRAEL - IS version         | wt-mmnds.is |
| AUSTRALIA - AU version      | wt-mmnds.au |
| INDIA - IN version          | wt-mmnds.in |

### ➔ FREQUENCIES

|                     |            |
|---------------------|------------|
| EUROPEAN UNION - EU | 868.42 MHz |
| UNITED STATES - US  | 908.42MHz  |
| RUSSIA - RU         | 869.02MHz  |
| ISRAEL - IS         | 916.02MHz  |
| AUSTRALIA - AU      | 921.42MHz  |
| INDIA - IN          | 865.20MHz  |

## 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.

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 ZIPATO'S NEGLIGENCE, OR (II) 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.

### ➔ PRODUCT WARRANTY PERIOD TABLE

| PRODUCT TYPE            | Micromodule Switch Double |
|-------------------------|---------------------------|
| 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](http://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

Tri plus grupa d.o.o.  
Banjaveciva 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



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 applicable requirements of the following documents:

EN 61326 EN 61000-3-3 EN 61000-4-4 EN 61000-4-11  
IEC/EN 55011 EN 61000-6-2 EN 61000-4-5 EN 301 489-1-3  
EN 300 220-2 EN 61000-4-2 EN 61000-4-6 AS/NZS/IEC 60335-2-97  
EN 61000-3-2 EN 61000-4-3 EN 61000-4-8 EN 60335-1

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  
01.09.2012

Changes or modifications not expressly approved 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.

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

### ➔ 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. Once this product has reached the end of its life, please take it to a collection point (recycle facilities) 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.

### ➔ COPYRIGHT

© 2012 Tri plus grupa d.o.o. All Rights Reserved.

No part of this manual may be reproduced or transmitted in any form without the expressed, written permission of Tri plus grupa d.o.o.