

ZIPABOX KNX MODULE

QUICK INSTALLATION GUIDE v1.2

⊖TRADEMARKS

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\bigcirc NOTICE

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⊖ 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.

G 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).

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.

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When installing a wall plate, the distance between the cover's fixing brackets or screws and the connections of the flush - mounted MicroModule Switch Single 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. Top right angle

INTRODUCTION

- The Zipabox KNX Module serves as a simple integration solution for KNX devices.
- The device supports the BAOS protocol for accessing data points. This allows KNX devices to be fully integrated into a Zipato network via standard KNX bus.

⇒ COMPATIBILITY

This expansion module is designed to work only with Zipabox.

Do not drop, knock or shake the module. Rough handling can break internal circuit boards and connectors.

ENVIRONMENT

Do not expose the module to excessive heat or cold, as it can damage or shorten the life of electronic circuit boards.

If possible, dispose this module at a recycling center. Do not dispose of this module with the household waste.

SPECIFICATION

⊖ ELECTRICAL SAFETY

PROTECTION CLASSIFICATION (EN 60529)	IP 20
SAFETY EXTRA LOW VOLTAGE	SELV DC 30 V
GALVANIC ISOLATION	2,5 kV DC

Complies with EN 50090-2-2 and EN 50491-5-2 CE norm Complies with the EMC regulations (residential and functional buildings) and low voltage directive Certification

AMPIENT TEMP OPERATING

AMBIENT TEMP. OF ERATING	- J - + 4J (
AMBIENT TEMP. NON-OP.	- 25 ~ + 70 °C
REL. HUMIDITY (NON-CONDENSING)	5 % ~ 93 %

→ PACKAGE CONTENT

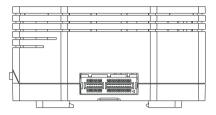
1PC	KNX	Expansion	Modu
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1PC User manual

MECHANICAL DATA

- Housing: Plastic
- DIN rail mounted device, width: 18 mm
- Weight: approx. 45 g Indicator
- Signal-LED (green) for KNX-Connection Power supply





The device is supplied by KNX bus. Current consumption: ca. 10 mA

Current consumption: ca. It

CONNECTORS KNX: KNX connector

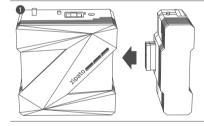
- → PROTOCOL
- Frame Format: FT1.2 (IEC 870-5-1 and 870-5-2)
- Protocol telegrams: EMI2
- Protocol Data points: BAOS Binary V1
- Up to 250 group objects and 250 parameters
- _____

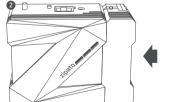
○ CONNECTING DEVICE TO THE ZIPABOX

1 | Disconnect Zipabox from power;

2 | Align connector of KNX expansion module to expansion Slot 2 of Zipabox (or to module connected into Slot 2);

3 Join module and Zipabox together until gap between them is completely closed.





⊖ CONNECTING TO KNX NETWORK

Connect to the KNX network by using standard KNX bus (there is a reverse polarity protection)

⊖ETS

E . / E . .

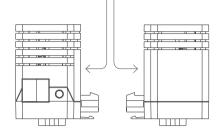
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ETS [Engineering Tool Software] is a manufacturer independent configuration tool software to design and configure intelligent home and building control installations with the KNX system. It is also necessary for configuring the Zipato KNX expansion module. ETS

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Left side



runs on computers using the Microsoft Windows System. It can be downloaded from the KNX download page2. Version 4 suits fine for working which the BAOS Module. A license is also necessary to run ETS. The demo license allows only 3 devices per project. If more are needed, we recommend to do the eCampus3 training to get a Lite license which allows up to 20 devices.

■ VIA ETS THE FOLLOWING PARAMETERS CAN BE SET:

DATA POINTS

It's possible to parameterize up to 250 data points. Every data point can be allocated with a group address to send to bus. For receiving, more group addresses can be allocated per object. TYPE OF DATA POINTS

For every data point the type can be set. The following data point types are selectable:

- DPT 01 Binary 1 bit
- DPT 02 Binary controlled 2 bits
- DPT 03 Dim up/down 4 bits
- DPT 04 Character 1 byte
- DPT 05 Scaling 1 byte
- DPT 06 Signed value 1 byte
- DPT 07 Unsigned value 2 bytes
 DPT 08 Signed value 2 bytes
- DPT 09 Float value 2 bytes
- DPT 10 Time 3 bytes
- DPT 11 Date 3 bytes
- DPT 12 Unsigned value 4 bytes
- DPT 13 Signed value 4 bytes
- DPT 14 Float value 4 bytes
- DPT 15 Access data 4 bytes
 DPT 17 Scene 1 byte
- DPT 18 Scene controlled 1 byte
- DPT Unknown 1 bit
- DPT Unknown 2 bits
- 🔲 DPT Unknown 4 bits
- DPT Unknown 6 bits
- 🔲 DPT Unknown 1 byte
- DPT Unknown 2 bytes
- DPT Unknown 3 bytes
- DPT Unknown 4 bytes

DPT – Unknown – 6 bytes

DPT - Unknown - 8 bytes

DPT - Unknown - 10 bytes

PARAMETER BYTE

PARAMETER

ADDITIONAL TYPES FOR DATA POINTS 1 TO 32
 DPT 16 - Character string - 14 bytes

DPT – Unknown – 14 bytes KNX Serial BAOS 870 (REG)

KNX Serial BAOS 870 has 250 free programmable bytes, which can be

read via UART-Interface. The interpretation is performed by the client.

For each one of the 250 bytes a value between 0 and 255 is possible.

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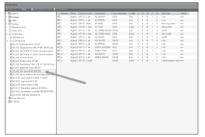
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O DESCRIPTION OF PARAMETER BYTE

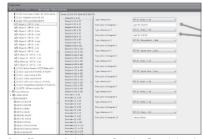
For each parameter byte there is a label, which is not downloaded in the device.



Import product database by using the link: http://www.weinzierl.de/ download/products/870/82x_87x_KNX_BAOS_ETS4.zip and add KNX BAOS module 820/870 from the list of devices to your network



Select the KNX BAOS module 820/870 in the "topology list", to see all the associated objects



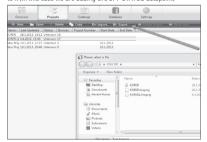
Select "Parameters" tab to manage Datapoints. For each datapoint choose Type and add some description which will be helpful for the later maintenance.



Select GROUP address which you would like to associate to the Zipato network and add appropriate BAOS 820 DATAPOINT to it (in this case we are adding ON/OFF datapoint)



Select GROUP address which you would like to associate to the Zipato network and add appropriate ZIPATO BAOS 820 DATAPOINT to it (in this case we are adding ON/OFF STATUS datapoint)



Export your project into a file which you can use to import associated Endpoints to the Zipato KNX importer tool

Light application that extracts group addresses and names associated to the BAOS 820 datapoints. Download this tool at www.zipato.com

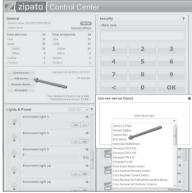


Select FILE/OPEN, and chose KNX project file from which you would like extract ZIPATO BAOS 820 datapoints.

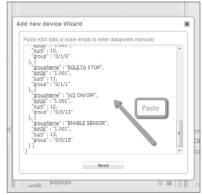
File Edit Help				
Data Copy	DPT ID	Group Address	Group Name	
Objekt 1	1.001	0/0/6	W1 ON/OFF	
Objekt 2	1.001	0/0/7	W1 STATUS	
Objekt 3	3.007	0/0/4	D1 DIMM	
Objekt 4	5.005	0/0/5	D1 VALUE	
Objekt 5	1.001	0/0/10	D1 STATUS ON/OFF	
Objekt 6	5.005	0/0/9	D1 STATUS VALUE	
Objekt 7	1.001	0/0/3	D1 ON/OFF	
Objekt 8	1.001	0/0/13	W2 ON/OFF	
Objekt 9	1.001	0/0/14	W2 STATUS	
Objekt 10	1.001	0/1/0	ROLETA UP/DOWN	
Objekt 11	1.001	0/1/1	ROLETA STOP	
Objekt 12	1.001	0/0/13	W2 ON/OFF	
Objekt 13	1.001	0/0/15	ENABLE SENSOR	

Select EDIT/COPY to copy data to the clipboard, as you will PASTE it to the Zipato dashboard to finish the proces of the integration.

Zipato dashboard is the main configuration tool for the Zipato network. Go to my.zipato.com and login to your account by using your username and password.

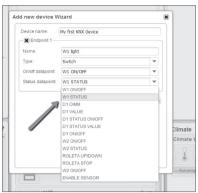


Open "ADD DEVICE" wizard and select KNX Device from the list

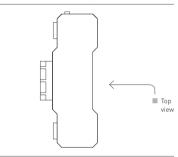


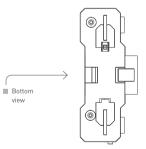
In the text field PASTE the date from the clipboard. If you lost the datapoints from the clipboard, repeat the proces with the KNX IMPORTER TOOL.

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Create Zipato endpoints by using appropriate datapoints. For each Zipato ENDPOINT you need to select right BAOS endpoint. This way, the newly createt Endpoint will communicate with the KNX group addresses which are associated with those Enpoints. After you finish adding the enpoints, press SAVE button and all your new endpoints will be available within the Zipato network.





Do not attempt to repair this product. There are no user-serviceable parts inside.

→ WATER-RESISTANCE

This product is not water-resistant. Keep it dry. Moisture will corrode the inner electronics.

CLEANING

Use a dry cloth to clean this product. Do not use harsh chemicals, cleaning solvents or strong detergents.

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ZIPABOX **KNX MODULE**

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zbm.knx

MODELS AND REGIONS

ALL COUNTRIES

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

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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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

7IPATO 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 7IPATO 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	Zipabox KNX Module
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

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 KNX Module (zbm.knx)

CE

In accordance with the following Directive(s): 2004/108/EC The Low Voltage Directive, 2006/95/EC is in conformity with the applicable requirements of the following documents:

EN 60950-1:2007+A11:2009+A12:2011 EN 301 489-17 V2.1.1:2010 EN 301 489-3 V1. 4.1:2003 EN 301 489-1 V1.8.1:2008 EN 300 328 V1.7.1:2008 EN 50130-4:1977+A1:2000+A2:2004 EN 300 220-1 V2.1.1:2006 EN 300 220-2 V2 1 2-2008

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: Sebastian Popovic, CEO 07.09.2015

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



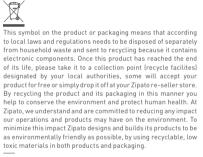
THIS DEVICE COMPLIES WITH PART 15 OF THE ECC BUILES. Operation is subject to the following two conditions: 1 I this device may not cause harmful interference, and 2 | this device must accept any interference received, including interference that may cause undesired operation.

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.



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