REAL SMART HOME

REAL SMART HOME GmbH

APPMODULE

iRoom KNX Connect

Smarthome App Documentation

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1 INTRODUCTION

Thank you for your trust, and the purchase of the iRoom KNX Connect Smarthome App for the BAB **APP**MODULE. iRoom offers Apple® certified intelligent docking stations with programmable keypads and intelligent charging management. With «iRoom KNX Connect» you can now easily connect the stylish products from iRoom with KNX and other IoT components.

This documentation will help you get started with the Smarthome App and aims to improve your setup experience.

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IMPORTANT INFORMATION ON THE OPERATING INSTRUCTIONS

We reserve the right continually improve the product. This entails the possibility that parts of this documentation might be out-of-date. You will find the latest information at:

www.bab-appmarket.de

This Smarthome App is an independent product, with no legal ties to other manufacturers. Neither **BAB** APPMARKET GmbH nor the developer of this Smarthome App take any claim in the trademarks owned by named brands.

2 IROOM KNX CONNECT FUNCTIONAL OVERVIEW

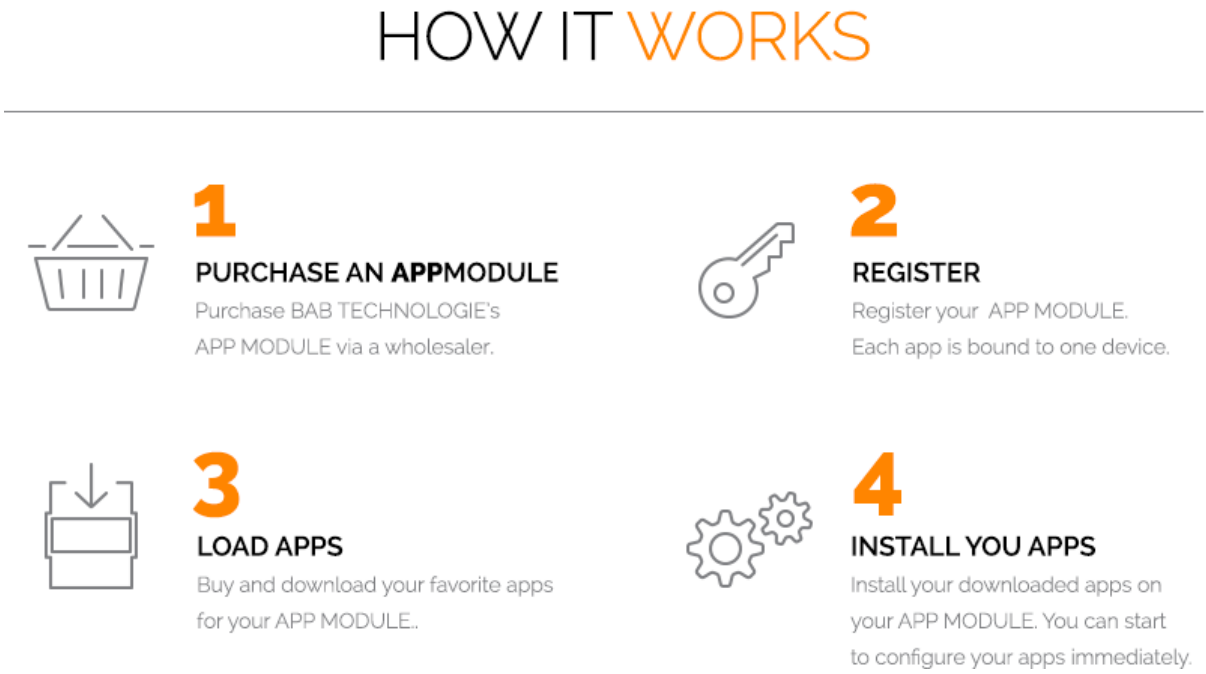
iRoom offers Apple® certified intelligent docking stations with programmable keypads and intelligent charging management. With «iRoom KNX Connect» you can now easily connect the stylish products from iRoom with KNX and other IoT components. With the Quick Buttons of iRoom you can control any KNX participant. Control lighting, shading or KNX scenes with iRoom products. Vice versa, you can use KNX to control for example the locking, audio parameters, the internal switching relay and receive status feedback on the motion sensor, the digital inputs or the docking status.

Highlights:

- Compatible with iTop, iTopOnWall, touchDock, iBezel, iDock and miniDock4
- KNX control with freely programmable buttons
- Wake up iPad via KNX
- Evaluating the motion sensor
- Media control via KNX
- Locking and unlocking via KNX

3 THE INNOVATIVE, MODULAR SMARTHOME APP-CONEPT FOR THE BUILDING AUTOMATION

The innovative, modular Smarthome App concept for building automation. The **APP**MODULE brings the innovative, modular Smarthome App concept into building automation. You can mix and match any of the diverse applications that are available to ingrate third-party solutions. With these Smarthome Apps from the dedicated **BAB** APPMARKET, the **APP**MODULE becomes a tailor-made integration unit for your building automation.



Manufacturer of the **APP**MODULE BAB TECHNOLOGIE GmbH

Distribution of all Smarthome Apps for the **APP**MODULE BAB APPMARKET GmbH

Smarthome App developer REAL SMART HOME GmbH

3.1 INFORMATION ABOUT THE APPMODULE

Please refer to the separate product documentation of the **APP**MODULE for a detailed product description and setup instructions.

http://www.bab-tec.de/index.php/download_de.html

Product variants:
The **APP**MODULE is available in three variants:

- **APP**MODULE KNX/TP – for stand-alone use on KNX/TP Bus
- **APP**MODULE EnOcean – for stand-alone use in the EnOcean wireless network
- **APP**MODULE IP – for use in an IP-based KNX installation (KNXnet/IP) or as extension for an EIB**PORT**

4 SMARTHOME APP INSTALLATION / UPDATE

Please proceed as follows to install a Smarthome App.

1. Open the **APP**MODULE web page: Enter <IP Address of **APP**MODULE > into your browser's address bar and press Enter. The **APP**MODULE web interface will appear.

2. Log in with your user credentials. Please refer to the **APP**MODULE documentation for login details.

3. Click on the menu entry "App Manager"

4. You are now on the page where already installed Smarthome Apps are listed. The list will be empty if no Smarthome Apps have been installed. Click "Install App" in order to install a new Smarthome App.

5. Now click on "Select App"; a file selector window will appear. Choose the Smarthome App » **iRoom KNX Connect** « and click "OK".

The Smarthome App » **iRoom KNX Connect** « must first be downloaded from the **BAB** APPMARKET (www.bab-appmarket.de).

After the message "Installation successful" appears, click "OK". You are ready to configure the Smarthome App.

To update a Smarthome App manually you have to proceed as follows

1. To update an already installed Smarthome App, click on the App icon in the "App Manager".

2. The detail view of the Smarthome App appears. Click on "Update App" to select the Smarthome App package and start the update. The update version must be downloaded from the **BAB** APPMARKET.

After the message "Installation successful" appears, click "OK". The Smarthome App has been updated. Your instance configurations will remain unchanged.

The Smarthome App can also be updated directly in the web interface. Without having to download the Smarthome App from the **BAB**APPMARKET first.
In the “App Manager” available Smarthome App updates are reported

Information
To configurate the Smarthome App please use Google Chrome.

5 SMARTHOME APP SETTINGS

iRoom offers Apple® certified intelligent docking stations with programmable keypads and intelligent charging management. With «iRoom KNX Connect» you can now easily connect the stylish products from iRoom with KNX and other IoT components.

5.1 IROOM KNX CONNECT

Note:
After inactivity of 60 minutes the browser session is automatically closed. Unsaved changes will be lost.

As soon as the Smarthome App is installed, you can create so called “Instance”. An Instance is one of several objects of the same class.

In order to create an instance, click on the symbol "Create Instance".

Instance Name:

Choose a name for this new instance.

Comment:

Insert a description what this instance does.

5.2 CONNECTION SETTINGS

IP Address

Insert the IP address of your device.

Port (0–65535)

Insert the communication port of your device.

Connection status (EIS 1)

Insert the group address for the device connection status (0: device cannot be reached, 1: device can be reached).

5.3 HOME BUTTON

Button Press

Insert the group address where a telegram is going to be sent to when the Home Button is pressed.

Button Press Value

Insert the value which is going to be sent as a telegram when the Home Button is pressed.

Value Data Type

Select the data type of the value.

- EIS 1: 1 Bit
- EIS 14u: 1 Byte (0-255)

LED Brightness Control (EIS 6 0–100%)

Insert the group address for the Home Button LED brightness control.

LED Brightness (EIS 6 0–100%)

Insert the group address for the Home Button LED brightness feedback.

5.4 "QUICK BUTTON" 1 (UP TO 8)

Button Press

Insert the group address where a telegram is going to be sent to when "Quick Button" 1 (up to 8) is pressed.

Button Press Value

Insert the value which is going to send as a telegram when "Quick Button" 1 (up to 8) is pressed.

Value Data Type

Select the date type of the value.

- EIS 1: 1 Bit
- EIS 14u: 1 Byte (0-255)

LED Brightness Control (EIS 6 0–100%)

Insert the group address for the "Quick Button" 1 (up to 8) LED brightness control.

LED Brightness (EIS 6 0–100%)

Insert the group address for the "Quick Button" 1 (up to 8) LED brightness feedback.

5.5 "QUICK DIGITAL" INPUTS

Input 0: State Callback (EIS 1)

Insert the group address for the "Quick Digital" input 0 switch state callback (0: opened, 1: closed).

Input 1: State Callback (EIS 1)

Insert the group address for the "Quick Digital" input 1 switch state callback (0: opened, 1: closed).

Input 2: State Callback (EIS 1)

Insert the group address for the "Quick Digital" input 2 switch state callback (0: opened, 1: closed).

Input 3: State Callback (EIS 1)

Insert the group address for the "Quick Digital" input 3 switch state callback (0: opened, 1: closed).

Input 4: State Callback (EIS 1)

Insert the group address for the "Quick Digital" input 4 switch state callback (0: opened, 1: closed).

Input 5: State Callback (EIS 1)

Insert the group address for the "Quick Digital" input 5 switch state callback (0: opened, 1: closed).

Input 6: State Callback (EIS 1)

Insert the group address for the "Quick Digital" input 6 switch state callback (0: opened, 1: closed).

Input 7: State Callback (EIS 1)

Insert the group address for the "Quick Digital" input 7 switch state callback (0: opened, 1: closed).

Input 8: State Callback (EIS 1)

Insert the group address for the "Quick Digital" input 8 switch state callback (0: opened, 1: closed).

5.6 AUDIO

Relative Volume Control (EIS 1)

Insert the group address for the relative volume control (0: down, 1: up).

Absolute Volume State (EIS 6 0–100%)

Insert the group address for the absolute volume state feedback.

Mute (EIS 1)

Insert the group address for the mute control (o: unmute, 1: mute).

Playback Control (Play/Pause) (EIS 1)

Insert the group address for the playback control. Default behaviour: send "1" to resume or begin playback and send"0" to pause playback. If the checkbox "Invert Playback Control" below is checked, "1" will pause and §0" will resume or begin playback.

Invert Playback Control

If this option is active, the values on the "Playback Control (Play/ Pause)" address will be interpreted differently. Sending "1" will pause, while sending "0"will resume or begin playback. This setting is e.g. necessary when integrating this app with Alexa.

Track Browse Control (EIS 1)

Insert the group address for the track brows control (0: previous track, 1: next track).

5.7 RELAY

Relay Control (EIS 1)

Insert the group address for the relay control (0: open, 1: close).

Relay State (EIS 1)

Insert the group address for the relay state feedback (0: opened, 1: closed).

5.8 "QUICK MOTION" SENSOR

Sensor Event

Insert the group address where a telegram is going to be sent in case of a sensor event.

Sensor Event Value

Insert the value which will be sent in case of a sensor event.

Value Data Type

Select the data type of the value.

- EIS 1: 1 Bit
- EIS 14u: 1 Byte (0-255)

IR Value (EIS 14 0–255)

Insert the group address for the IR value feedback.

5.9 OTHER CONTROLS

Trigger "Beep" (EIS 14 1–100)

Insert the group address for triggering a “Beep”. The duration of the “Beep” is one tenth of the telegram value in seconds. Example: send a 25 to this group address a 2.5 second long “Beep”.

"Beep" Feedback (EIS 1)

Insert the group address for the “Beep” feedback (0: “Beep” off, 1: “Beep” on).

Wake iPad (EIS 1)

Insert the group address for waking the docked iPad.

Lock/Unlock iPad Holder (EIS 1)

Insert the group address for locking and unlocking iPad holder (0: unlock, 1: lock).

iPad Docking State (EIS 14 0–3)

Insert the group address for the iPad docking state feedback (0: undocked, 1: docked, 2: undocking, 3: docking).

"Plug Drive" State (EIS 14 0–3)

Insert the group address for the “Plug Drive” state feedback (0: undocked, 1: docked, 2: undocking, 3: docking).

"Clack Drive" State (EIS 14 0–3)

Insert the group address for the “Clack Drive” state feedback (0: open, 1: closed, 2: opening, 3: closing).

6 ATTACHMENT

6.1 DATAPOINT TYPES

function	EIS type	DPT	typical function	typical values	data	identifier
PriorityPosi-tion	EIS1	DPT 1*	Wind alarm	1=high and inhibit	1 Bit	1-bit
Switch	EIS1	DPT 1*	Light switching	0=Off; 1=On	1 Bit	1-bit
DimControl	EIS2	DPT 3*	Dimming	0=Off; 1=On xxxx=relative dimming 0-255=absolute dimming	1Bit 4Bit 8Bit	3-bit controlled
Time	EIS3	DPT 10*	Time	hh:mm:ss	3Byte	Time
Date	EIS4	DPT 11*	Date	dd:mm:yyyy	3Byte	Date
Value	EIS5	DPT 9*	Float Vaue IEEE	[-671088.64 ... 670760.96]	1Byte	2-byte float value
DimValue	EIS6	DPT 5*	Percent	0...100%	1Byte	8-bit unsigned value
DriveBlade Value	EIS6	DPT 5*	Angle value	0...100%; 0...255	1Byte	8-bit unsigned value
DriveShutter Value	EIS6	DPT 5*	Position value	0...100%; 0...255	1Byte	8-bit unsigned value
Position	EIS6	DPT 5*	Control value Heating	0...100%; 0...255	1Byte	8-bit unsigned value
DriveMove	EIS7	DPT 1*	Move shutter	0=up; 1=down	1Bit	1-bit
DriveStep	EIS7	DPT 1*	Adjusting the slat	0=up; 1= down; 0 or 1 during movement=stop	1Bit	1-bit
PriorityCont-rol	EIS8	DPT 2*	Priority	0,1 switch; 3=forced off; 4=forced on	2Bit	1-bit controlled
FloatValue	EIS9	DPT 14*	IEEE	Floating-point value	4Byte	4-byte float value
Counter 16bit	EIS10	DPT 7*	Counter 16 bit	0 ... 65.535	2Byte	2-byte unsigned value
Counter 16bit	EIS10	DPT 8*	Counter 16 bit signed	-32.768 ... 32.767	2Byte	2-byte signed value
Counter 32bit	EIS11	DPT 12*	Counter 32 bit	0 ... 4.294.967.295	4Byte	4-byte unsigned value
Counter 32bit	EIS11	DPT 13*	Counter 32 bit signed	-2.147.483.648 ... +2.147.483.647	4Byte	4-byte signed value
Access Control	EIS12	DPT 15*	Access control	Card number	4Byte	Entrance access
Char	EIS13	DPT 4*	ASCII characters	Character	1Byte	Character
Counter 8bit	EIS14	DPT 5*	Value	0 ... 255	1Byte	8-bit unsigned value
Counter 8bit	EIS14	DPT 6*	Value signed	-128 ... 127	1Byte	8-bit signed value
String	EIS15	DPT 16*	String	max. 14 characters	14 Byte	Character string

EIB/KNX devices exchange fixed prescribed data formats with each other. These are defined in types.
The old designations of the types are EIS (EIB Interworking Standard)
The new designations are DPT (Data Point Type)