



REAL SMART HOME

REAL SMART HOME GmbH

APPMODULE

KNX Connect for Panasonic TV

Smart Home App Documentation

Version: 1.3.0

Type: Application

Article No.: BAB-060

Documentation version IV

Actual state 02/2026

Date: 2. February 2026

EN



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1 INTRODUCTION

Thank you for your trust and the purchase of the **KNX Connect for Panasonic TV** -Smart Home App for the BAB **APPMODULE**. With **KNX Connect for Panasonic TV** Smart Home App you get Integrate Panasonic TVs into your Smart Home based on KNX, EnOcean and IP. The seamless connection with »KNX Connect for Panasonic TV« enables control with all Smart Home components and building visualisations.

This documentation will help you get started with the 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 This entails the possibility that parts of this documentation might be out-of-date.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 app is an independent product, with no legal ties to Panasonic Corporation. Neither **BAB APP MARKET** GmbH nor the developer of this app take any claim in the trademarks owned by Panasonic Corporation.

2 KNX CONNECT FOR PANASONIC TV – FUNCTIONAL OVERVIEW

The seamless KNX connection with « **KNX Connect for Panasonic TV** » enables the control of a maximum of 2 TV sets with all Smart Home components such as wall switches and building visualizations. Integrate your Panasonic TV into Smart Home scenes – at the push of a button the blinds are lowered, the ambient lighting is activated and the TV is switched on with the desired source selection and volume. In addition to the basic functions such as switching on and off, volume control or channel selection, you can display individual text messages on your TV using KNX commands. For example when the doorbell rings at the front door or a window is opened. With the Panasonic TV remote control you can now even control KNX components or scenes. Your TV doesn't get smarter!

2.1 HIGHLIGHTS

- Integrate up to 2 TVs
- Wake-On-Lan support
- All basic functions can be controlled via KNX
- Individual, animated text messages on the TV
- KNX control via TV remote control (HbbTV keys)

(See appendix for compatible models)

2.2 SMART SCREENS



This Smart Home App is suitable for »Smart Screens«

»Smart Screens« is an application for iOS® or Android® that allows you to control applications installed on the **APPMODULE** directly and on one interface via the touchscreen of your smartphone or tablet.

The setup takes only a few minutes and does not require any additional components.

»Smart Screens« is available free of charge in the Apple® AppStore® and on Google® Play.

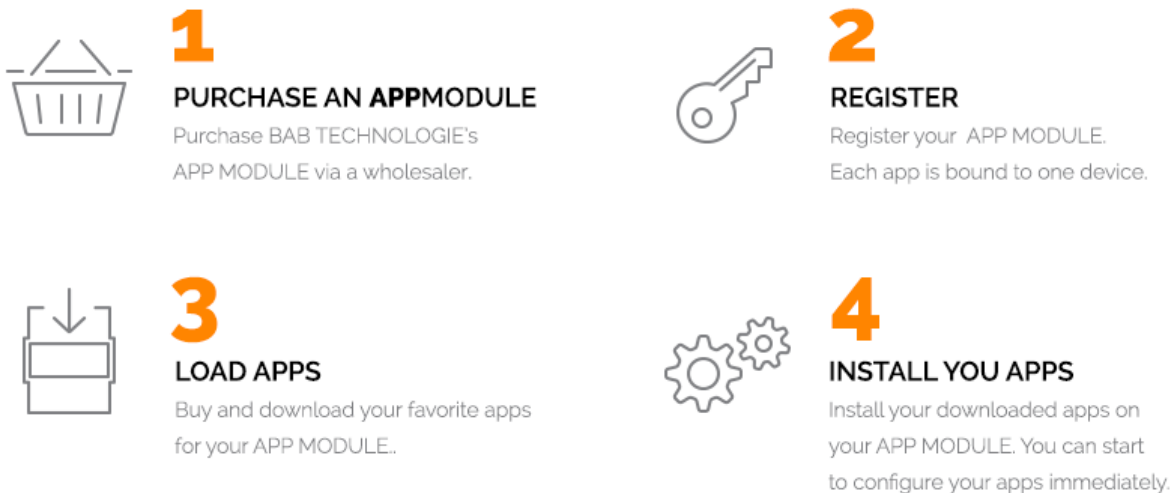
Further information on »Smart Screens« at [Smart Screens APP - BAB TECHNOLOGIE GmbH](https://bab-technologie.com/products/smart-screens-app/?lang=en)
(<https://bab-technologie.com/products/smart-screens-app/?lang=en>)



3 THE INNOVATIVE, MODULAR SMART HOME APP CONCEPT FOR THE BUILDING AUTOMATION

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

HOW IT WORKS



Manufacturer of the **APPMODULE** [BAB TECHNOLOGIE GmbH](#)

Distribution of all Smart Home Apps for the **APPMODULE** [BAB APPMARKET GmbH](#)

Smart Home App developer [REAL SMART HOME GmbH](#)

3.1 INFORMATION ABOUT THE APPMODULE

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

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

Product variants:

The **APPMODULE** is available in three variants:

- **APPMODULE KNX/TP** – for stand-alone use on KNX/TP Bus
- **APPMODULE EnOcean** – for stand-alone use in the EnOcean wireless network
- **APPMODULE IP** – for use in an IP-based KNX installation (KNXnet/IP) or as extension for an EIBPORT.

4 SMART HOME APP INSTALLATION / UPDATE

Please proceed as follows to install a Smart Home App.

1. Open the **APPMODULE** web page: Enter <IP Address of **APPMODULE**> into your browser's address bar and press Enter. The **APPMODULE** web interface will appear.
2. Log in with your user credentials. Please refer to the **APPMODULE** documentation for login details.
3. Click on the menu entry "App Manager"
4. You are now on the page where already installed Smart Home Apps are listed. The list will be empty if no Smart Home Apps have been installed. Click "Install App" in order to install a new Smart Home App.
5. Now click on "Select App"; a file selector window will appear. Choose the Smart Home App » **KNX Connect for Panasonic TV** « and click "OK".

The Smart Home App » **KNX Connect for Panasonic TV** « 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 Smart Home App.

To update a Smart Home App manually you have to proceed as follows

1. To update an already installed Smart Home App, click on the App icon in the "App Manager".
2. The detail view of the Smart Home App appears. Click on "Update App" to select the Smart Home 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 Smart Home App has been updated. Your instance configurations will remain unchanged.

The Smart Home App can also be updated directly in the web interface. Without having to download the Smart Home App from the **BAB APPMARKET** first.

In the "App Manager" available Smart Home App updates are reported

Information

To configure the Smart Home App please use Google Chrome.

5 SMART HOME APP SETTINGS

Integrate Panasonic TVs into your Smart Home based on KNX, EnOcean and IP. The seamless connection with » KNX Connect for Panasonic TV « enables control with all Smart Home components and building visualizations.

5.1 KNX CONNECT FOR PANASONIC TV

To create an instance, please click on the following symbol "+Create instance".
One instance is required for the integration of one Panasonic TV and contains a list of functions. Please note that 2 instances (10 instances in the "pro" - version) can be created.

Instance Name:

Choose a name for this new instance.

Comment:

Insert a description what this instance does.

5.2 DEVICE SELECTION

IP Address of the TV:

List of existing devices.

MAC Address:

MAC-Address of the selected TV.

Please turn your TV on for searching

Please switch on your TV.

Device Connection Status (EIS 1):

Insert the group address for the connection status to the TV controlled by this instance.
(0: no connection to the device, 1: connection established).

5.3 BASIC FUNCTIONS

Standby On/Off (EIS 1):

Enter the group address for activating and deactivating the standby function. If '1' is transmitted, switch standby off (TV on); if '0' is transmitted, switch standby on (TV off).

Query Power Status (EIS 14 0-2):

Enter the group address for querying the power status. With the value „0“ the TV is switched off, with value „1“ it is switched on and with the value „2“ the TV is in standby.

Channel up/down (EIS 1):

Enter the group address to jump one channel forward or backward on your device. With '1' the device jumps forward, with '0' the device jumps backward

Set channel (EIS 10 1-9999):

Enter the group address for channel setting. You can use values between 0-9999.

5.4 VOLUME CONTROL

With these addresses you can regulate the volume.

Mute toggle (EIS 1):

Enter the group address for toggle the mute status of your device. You can send values between 0-1.

Mute Status (EIS 1):

Enter the group address to query the mute status of your device. If the value is 1, the mute is switched on. At value 0 the mute is switched off.

Volume up/down (EIS 1):

Enter the group address for increasing or decreasing the volume of your device. With '1' you increase the volume, with '0' you decrease the volume.

Set volume (EIS 6 0%...100%):

Enter the group address for setting the volume of your device. You can use values between 0-100%.

Current volume status (EIS 6 0%...100%):

Enter the group address to query the volume value of your device.

5.5 TV MODES

With these addresses you can switch between the TV modes

LastView mode (EIS 1):

Enter the group address to switch on the LastView mode. A sending value is not necessary.

Types of reception (EIS 14 1-6):

Choose between different reception types. You can use values between 1-6.

- 1 = Analogue
- 2 = DVB-T
- 3 = DVB-S
- 4 = Freesat
- 5 = DVB-C
- 6 = SAT-IP

Please turn your TV on for searching

Please switch on your TV.

5.6 TV INPUTS

With this address you can switch between the TV inputs.

Inputs AV and Component (EIS 14 1-3):

Enter the group address to choose between the AV and component inputs. You can use values between 1-3.

- 1 = AV1
- 2 = AV2
- 3 = Component1

Inputs HDMI and Display Port (EIS 14 1-5):

Enter the group address to choose between the HDMI and DisplayPort inputs. You can use values between 1-5.

- 1 = HDMI1
- 2 = HDMI2
- 3 = HDMI3
- 4 = HDMI4
- 5 = DisplayPort1

5.7 MEDIA CONTROL

With these addresses you can control media

Media play/pause (EIS 1):

Enter the group address to start or pause your media. With '1' the device plays your media, with '0' the device pause your media.

Media stop (EIS 1):

Enter the group address to stop your media. A sending value is not necessary.

Media forward/rewind (EIS 1):

Enter the group address for fast forwarding and rewinding your media. With '1' your media fast forward, with '0' your media rewinds.

Media skip forwards/backwards (EIS 1):

Enter the group address to skip your media forward or backward. With '1' your media skip forwards, with '0' your media skip backwards.

5.8 DISPLAY CONTENT

Please note the information on the compatibility of the HBBTV function. FireOS TV models do not support this function.

Global TV input for messages

Some TV inputs (e.g. HDMI) do not support to display for messages. With this option you can choose which input should be used for your message. Please note that the input type must be available on your device.

- DVB-T
- DVB-S
- Freesat
- DVB-C

Group address text display (EIS 14 1-25)

Enter the group address for displaying a text. You can use values between 1 and 25.

Create text display

This feature allows you to assign integer numbers up to 25 text displays. Send this number to the group address of the text display to show the text on your TV.

Id

A specific identity for your text display.

Name

The name of the text display.

Assigned integer (1-25)

The text is displayed on the TV when this number is sent as the content of telegram.

Display Text

The text that should be displayed on your TV.

Background color

You can change the background color of your text display.
(Black, White, Gray, Green, Blue, Yellow, Red, animated background).

Text color

You can change the text color of your text.
(Black, White, Grey, Green, Blue, Yellow, Red)

Text size

For the text size you can choose Big, Small and Normal.

Change TV input automatically

Some TV inputs (e.g. HDMI) do not support the display of messages. If this option is selected, the TV automatically switches to the selected global TV input. Please note that the input type must be available on your device.

Hide automatically (seconds)

Enter the seconds when your text should automatically be hidden. If you enter a 0, your text will not disappear automatically.

Button settings

Defined buttons and the associated actions for your message.

Red Button – Name

Enter name for the red button. This button will be displayed on the TV.

Red Button – Group address (EIS)

Enter the group address that you want to trigger using the red button on your remote control.

Red Button – Group address value (0-1)

Enter a value (0 or 1) to be sent to the group address.

Green Button – Name

Enter name for the green button. This button will be displayed on the TV.

Green Button – Group address (EIS)

Enter the group address that you want to trigger using the green button on your remote control.

Green Button – Group address value (0-1)

Enter a value (0 or 1) to be sent to the group address.

Yellow Button – Name

Enter name for the yellow button. This button will be displayed on the TV.

Yellow Button – Group address (EIS)

Enter the group address that you want to trigger using the yellow button on your remote control.

Yellow Button – Group address value (0-1)

Enter a value (0 or 1) to be sent to the group address.

Blue Button – Name

Enter name for the blue button. This button will be displayed on the TV.

Blue Button – Group address (EIS)

Enter the group address that you want to trigger using the blue button on your remote control.

Blue Button – Group address value (0-1)

Enter a value (0 or 1) to be sent to the group address.

Group address video display (EIS 14 1-25)

Enter the group address for displaying a video. You can use values between 1-25.

Create Video Display

This feature allows you to assign integer numbers up to 25 video displays. Send this number to the group address for of the video display to show the video on your TV.

Name

The name of the video display.

Assigned integer (1-25)

The video is displayed on the TV when this number is send as the content of the telegram.

Video URL

The URL of the video to be displayed on your TV. Please note that RTSP streams are not supported.

Background color

You can change the background color of your text display.
(Black, White, Gray, Green, Blue, Yellow, Red, animated background).

Change TV input automatically

Some TV inputs (e.g. HDMI) do not support the display of video. If this option is selected, the TV automatically switches to the selected global TV input. Please note that the input type must be available on your device.

- Yes
- No

Hide automatically (seconds)

Enter the seconds when your text should automatically be hidden. If you enter a 0, your text will not disappear automatically.

Button settings

Defined buttons and the associated actions for your message.

Red Button – Name

Enter name for the red button. This button will be displayed on the TV.

Red Button – Group address (EIS)

Enter the group address that you want to trigger using the red button on your remote control.

Red Button – Group address value (0-1)

Enter a value (0 or 1) to be sent to the group address.

Green Button – Name

Enter name for the green button. This button will be displayed on the TV.

Green Button – Group address (EIS)

Enter the group address that you want to trigger using the green button on your remote control.

Green Button – Group address value (0-1)

Enter a value (0 or 1) to be sent to the group address.

Yellow Button – Name

Enter name for the yellow button. This button will be displayed on the TV.

Yellow Button – Group address (EIS)

Enter the group address that you want to trigger using the yellow button on your remote control.

Yellow Button – Group address value (0-1)

Enter a value (0 or 1) to be sent to the group address.

Blue Button – Name

Enter name for the blue button. This button will be displayed on the TV.

Blue Button – Group address (EIS)

Enter the group address that you want to trigger using the blue button on your remote control.

Blue Button – Group address value (0-1)

Enter a value (0 or 1) to be sent to the group address.

5.9 CUSTOMIZATIONS FOR SMART SCREENS

Channel List (Favorites)

You can create a list of SMART SCREENS with all your favorite channels, as an alternative or addition to a numerical channel number input. This list provides convenient access to the included channels. Specify the channel names and channel numbers (1-9999).

Channel Name

Set up the name for the channel.

Channel Number (1-9999)

Enter the channel number.

Custom TV Mode list

By default SmartScreen offers a TV mode selection with theoretically possible modes:

- 1 = Analogue
- 2 = DVB-T
- 3 = DVB-S
- 4 = Freesat
- 5 = DVB-C
- 6 = SAT-IP

You can create your own List here, if you want fewer options, or want to change the input names.

Name

Set up the name of the input.

Value (1-6)

Enter a valid value between 1 and 6.

- 1 = Analogue
- 2 = DVB-T
- 3 = DVB-S
- 4 = Freesat
- 5 = DVB-C
- 6 = SAT-IP

Custom AV and Component input list

By default, SMART SCREENS offers an AV and Component input selection with theoretically possible inputs:

- 1 = AV1
- 2 = AV2
- 3 = Component1

You can create your own list here, if you want fewer options, or want to change the input names.

Name

Set up the name of the input.

Value (1 - 3)

Enter value between 1 and 3:

- 1 = AV1
- 2 = AV2
- 3 = Component1

Custom HDMI and Display Port input list

By default, SMART SCREENS offers an HDMI and Display Port input selection with theoretically possible inputs:

- 1 = HDMI1
- 2 = HDMI2
- 3 = HDMI3
- 4 = HDMI4
- 5 = DisplayPort1

You can create your own list here, if you want fewer options, or want to change the input names.

Name

Set up the name for the input.

Value (1 – 5)

Enter a valid value between 1 and 5.

- 1 = HDMI1
- 2 = HDMI2
- 3 = HDMI3
- 4 = HDMI4
- 5 = DisplayPort1

6 APPENDIX

6.1 COMPATIBLE PANASONIC TVS

- Compatibility with TV sets from 2024/2025:
 - • TV series W90A, W93A, W93B, W95A, W95B, Z85A, Z90A, Z90B, Z93A, Z95A, Z95B
NOTE: These models (with FireOS TV) do not support HBBTV.
- Compatibility with TV sets from 2021:
 - TV series JZW2004, JZW1004, JZW984, JXW944, JXW854, JZ*150*, JX*97*, JX*88*, JZC2004, JZC1505, JZC1004, JZC984
- Compatibility with TV sets from 2020:
 - TV series HZW2004, HZW1004, HZW984, HXW944, HXW904, HXW804, HZ*150*, HX*97*, HX*88*, HZC2004, HZC1505, HZC1004, HZC984
- Compatibility with TV sets from 2019:
 - TV series GZW2004, GZW1004, GZW954, GXW945, GXW904, GXW804, GZ*150*, GX*93*, GX*88*, GZC2004, GZC1505, GZC1004, GZC954, FSW504, FSW404, FS*60*
- Also works with older models, for example:
 - 2015 Series larger CS600
 - 2016 Series larger DS600
 - 2017 Series equal to or greater ES400
 - 2018 Series equal to or greater FS400

Compatibility with 2019 TV sets: new OLED-TV-Series GZW2004, GZW1004, GZW954 and UHD-LED-TVs GXW804, GXW904, GXW945.

KNX Connect for Panasonic TV version 1.0.0 works also with older models, for example:

2015 Series greater CS600

2016 Series greater DS600

2017 Series greater/equal ES400

2018 Series greater/equal FS400

6.2 DATAPOINT TYPES

Function	EIS type	Data point type	Typical value	Data	Identifier
Switching	EIS 1	DPT 1.yyy	[0] = Off FALSE; [1] = On TRUE	1 Bit	1-bit
Relative Dimming	EIS 2	DPT 3.yyy	„Dimming steps“: [[0],[2...7]] Darker [2, 4, 8, 16, 32, 64] -Steps and [[1],[2...7]] Brighter [2, 4, 8, 16, 32, 64]-Steps „Start/Stop Dimming“: [0,8] Stop; [1] Darker und [9] Brighter	4 Bit	4-bit
Time	EIS 3	DPT 10.yyy	hh:mm:ss	3 Byte	Time
Date	EIS 4	DPT 11.yyy	dd:mm:yyyy	3 Byte	Date
Floating point number (short)	EIS 5	DPT 9.yyy	-671 088,64 ... 670 433,28	2 Byte	2-byte float value
Percent, Position, Brightness, ...	EIS 6	DPT 5.yyy	0 ... 100%	1 Byte	8-bit unsigned value
Blinds Drive/adjust	EIS 7	DPT 1.yyy	[0] = up; [1] = down When driving [0,1] = stop	1 Bit	1-bit
Priority	EIS 8	DPT 2.yyy	[0], [1] Switch on, off; [3] = Forced off; [4] = Forced on	2 Bit	1-bit controlled
IEEE Floating point number (long)	EIS 9	DPT 14.yyy	4-Octet float value; IEEE 754	32 Bit	4-byte float value
Counter 16 Bit Unsigned	EIS 10u	DPT 7.yyy	0 ... 65.535	16 Bit	2-byte unsigned value
Counter 16 Bit Signed	EIS 10	DPT 8.yyy	-32.768 ... 32.767	16 Bit	2-byte signed value
Counter 32 Bit Unsigned	EIS 11u	DPT 12.yyy	0 ... 4.294.967.295	32 Bit	4-byte unsigned value
Counter 32 Bit Signed	EIS 11	DPT 13.yyy	-2.147.483.648 ... 2.147.483.647	32 Bit	4-byte signed value
Access control	EIS 12	DPT 15.yyy	Access data	4 Byte	Entrance access
ASCII Character	EIS 13	DPT 4.yyy	Char	1 Byte	Character
Counter 8 Bit Unsigned	EIS 14u	DPT 5.yyy	0 ... 255	8 Bit	8-bit unsigned value
Counter 8 Bit Signed	EIS 14	DPT 6.yyy	-128 ... 127	8 Bit	8-bit signed value
String	EIS 15	DPT 16.yyy	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)