



**BAB**  
**TECHNOLOGIE**  
**2014**





*simply - safe - everywhere*

*everywhere at home*

**b.a.b-technologie GmbH**

Inhouse Dortmund  
Rosemeyerstrasse 14  
44139 Dortmund, Germany

**Phone:** +49 231 476425-30

**Fax:** +49 231 476425-59

**E-mail:** [info@bab-tec.de](mailto:info@bab-tec.de)

**Internet:** [www.bab-tec.de](http://www.bab-tec.de)

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production status of the devices.

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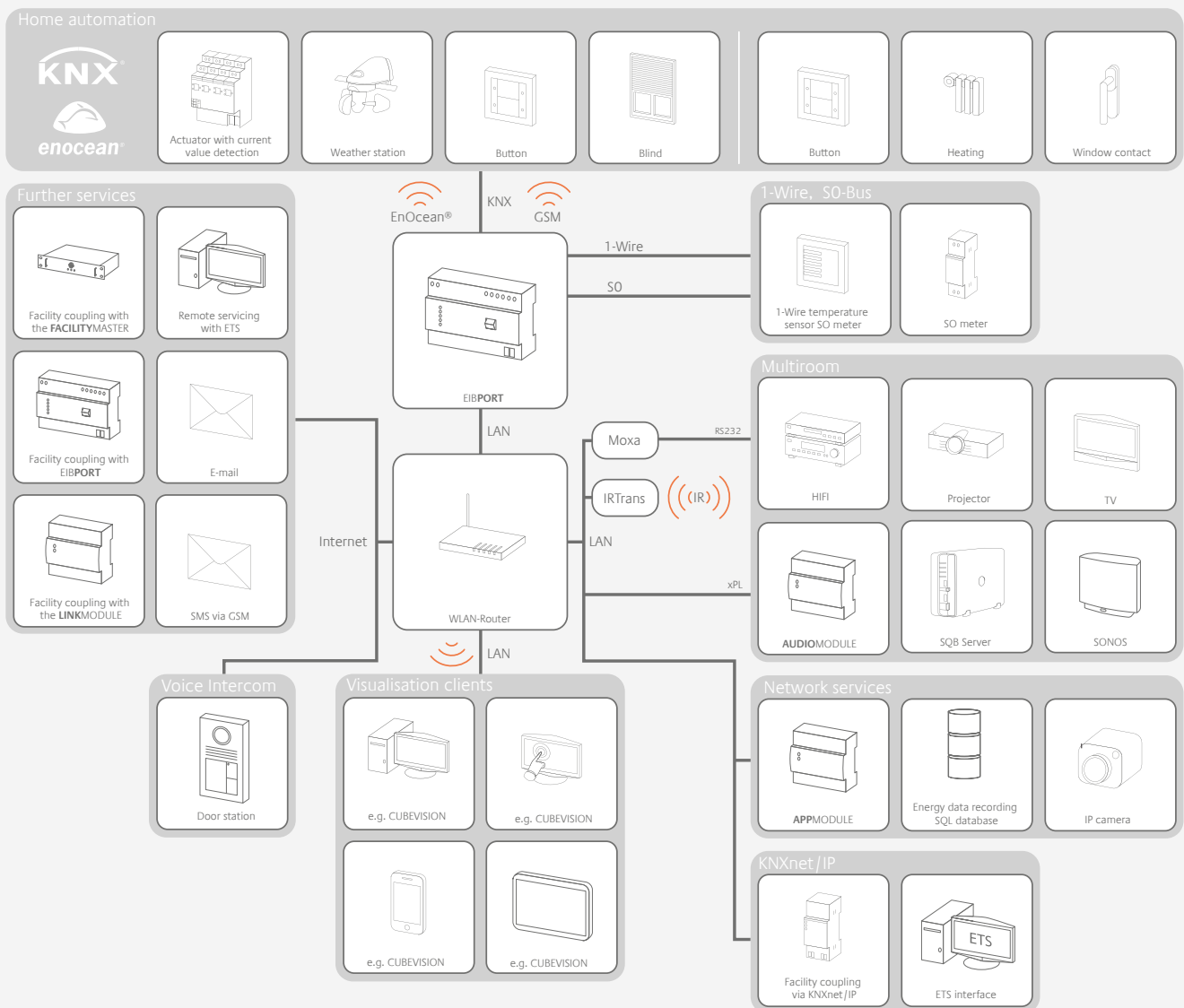
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# GATEWAYS EIBPORT LAN Version 3

Connects KNX® TP, KNXnet/IP, EnOcean®, 1-Wire, GSM®,  
Powernet KNX® and SO with the Ethernet

## EIBPORT Functional survey



The use of the EIBPORT considerably extends the functionality of KNX®/EnOcean® automation. The connection to the Ethernet network makes numerous further applications possible. The use of IR-Trans enables any consumer electronics devices to be included in the building control system. For example, when the conference room is darkened, the beamer is automatically switched on. For even more convenient multi-room functionality, Sonos® components or the brand new **AUDIOMODULE** can now be operated via the KNX®/EnOcean® button. The KNX® bus data can be transferred via the Ethernet to high-volume data storage units for energy









data analysis and subsequent evaluation. Any operator clients, such as smartphones and tablet PCs, can access the KNX®/EnOcean® nodes and control them. CUBEVISION (patent applied for) allows uniform, consistent operation on the respective interface. If desired, an e-mail or text message is sent in the event of a fault. The network camera provides an insight into what is happening on-site. Cost-efficient commissioning and fast support are possible via the Internet by means of remote servicing. With the aid of the Intranet or Internet it is also possible to link several buildings and integrate them into a central "facility management".

# GATEWAYS EIBPORT LAN Version 3

## EIBPORT in 8 versions

The new EIBPORT Version 3 offers space for two communication modules. In the standard versions KNX®, EnOcean® or Powernet KNX® the device is equipped with one Module in each case.

In this way, the device can be adapted exactly to the customer requirements. In connection with the new GSM® module, this produces the following possible combinations:

|         |           | VERSIONS  |   |  |
|---------|-----------|---|---|--|
|         |           | KNX® TP   | EnOcean®  | Powernet KNX®  |
| MODULES | Basic LAN | <br>LAN KNX<br>Art. no.: 10104           | <br>LAN EnOcean<br>Art. no.: 13104       | <br>LAN Powernet<br>Art. no.: 11104           |
|         | GSM®      | <br>LAN KNX+GSM<br>Art. no.: 10304     | <br>LAN EnOcean+GSM<br>Art. no.: 13304 | <br>LAN Powernet+GSM<br>Art. no.: 11304      |
|         | EnOcean®  | <br>LAN KNX+EnOcean<br>Art. no.: 10504 |   | <br>LAN Powernet+EnOcean<br>Art. no.: 11504 |

### Optional GSM®:

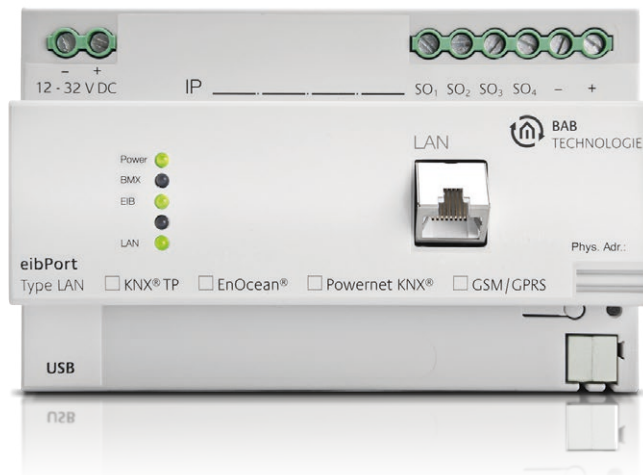
The GSM® module enables you to access your building automation, even where no Internet connection is available. Alternatively, the GSM® module can also serve as a fallback solution (in cooperation with mdex) if the Internet (for example via DSL) should fail sometime. Needless to say, it is also suitable for sending or receiving texts.

### 1-Wire:

The EIBPORT USB connection can be used together with the 1-Wire USB adapter to access the low-cost sensor technology of the 1-Wire range.

### S0 interface:

The EIBPORT series version has four S0 inputs for consumption data recording. S0 meters (e.g. for electricity, gas or water) can be connected to the inputs.



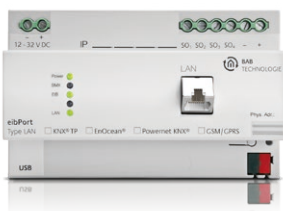
## Basic functionalities

- Integrated visualisations:  
Java visualisation, CONTROL **L** (Ajax), CUBEVISION, CUBEVISION MOBILE, CONTROL **S**
  - Visualisation editor based on graphics editing programs
  - Gesture control
  - Dialogue pages
  - Encrypted user authentication
  - Integration of IP network cameras
  - Synchronization to NTP servers
  - RSS feeds
  - Integrated VPN servers
  - Import of addresses from the ETS
  - Bus monitor and data recording
  - Address status table
  - No data point limitation
  - Storage of 500,000 telegrams
  - Multi-user visualisation (no licence costs)
- Integrated services
- Web server
  - Weekly and annual time switches, special day switch
  - Simple and complex astronomical clock
  - Staircase function, time-delays
  - Logics, lighting scenarios
  - Comparators, threshold switches, hysteresis, multiplexers
  - Time and date fields
  - E-mail, text via e-mail
- Text transmission and receipt (GSM module)
  - Processing of error messages
  - Infrared connection via UDP
  - RS 232 connection via UDP
  - UDP receiver
  - UDP transmitter
  - Cyclic transmitter
  - ekey® connection
  - DALI® monitor
  - Multimedia connection, UPnP (Sonos), xPL
  - Logging in SQL databases
  - ETS remote programming
  - KNXnet/IP server
  - Room temperature control
  - Camera archive
  - HTTP request with response evaluation using regular expressions
  - Mathematics module, integrator
  - Meter, pulse counter
  - Wake on LAN
  - Systems coupling
  - 1-Wire sensor recognition
- Other software
- DATAWAREHOUSE 2 for data and consumption analysis
  - Control via allocation plan (CONTROL **R**)
  - Control via widget (CONTROL **W**)

# GATEWAYS EIBPORT LAN Version 3

## Possible combinations

### EIBPORT LAN KNX® TP



- Basic functionalities (page 9)
- KNX® TP connection via bus terminal
- Administration of all 32766 KNX® group addresses
- Virtual group addresses
- Import of addresses from the ETS
- MDRC 8 MW

Art. no. 10104

### EIBPORT LAN EnOcean®



- Basic functionalities (page 9)
- EnOcean® via an external SMA antenna
- Range: 300 m in open / 30 m in buildings (dependent on construction materials)
- Input properties: any number
- Output properties: 128
- Numerous preset EnOcean® profiles
- Can be used as a repeater
- Latest STM 300 transceiver module
- External antenna: 2.50 m cable, magnetic base and SMA plug
- MDRC 8 MW

Art. no. 13104

### EIBPORT LAN Powernet KNX®

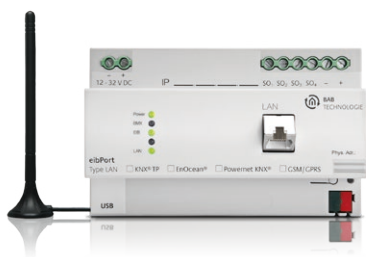


- Basic functionalities (page 9)
- Powernet KNX® connection via screw-type terminal on the network coupler
- Administration of all 32766 KNX® group addresses
- Virtual group addresses
- Import of addresses from the ETS
- MDRC 9.5 MW

Art. no. 11104

## Possible combinations

### EIBPORT LAN KNX® TP + GSM®



- Basic functionalities (page 9)
- KNX® TP connection via bus terminal
- Administration of all 32766 KNX®-group addresses
- Virtual group addresses
- Import of addresses from the ETS
- 4-band modem
- Internet connection via GSM®
- Fallback
- Send and receive text messages directly
- External antenna: 2.50 m cable, magnetic base and SMA plug
- MDRC 8 MW

Art. no. 10304

### EIBPORT LAN EnOcean® + GSM®



- Basic functionalities (page 9)
- EnOcean via external SMA antenna
- Range: 300 m in open / 30 m in building (dependent on construction materials)
- Input properties: any number
- Output properties: 128
- Numerous preset EnOcean® profiles
- Can be used as a repeater
- Latest STM 300 transceiver module
- 4-band modem
- Internet connection via GSM®
- Fallback
- Send and receive text messages directly
- 2 external antennas: 2.50 m cable, magnetic base and SMA plug.

Art. no. 13304

### EIBPORT LAN Powernet KNX® + GSM®



- Basic functionalities (page 9)
- Powernet KNX® connection via screw-type terminal on the network coupler
- Administration of all 32766 KNX®-group addresses
- Virtual group addresses
- Import of addresses from the ETS
- 4-band modem
- Internet connection via GSM®
- Fallback
- Send and receive text messages directly
- External antenna: 2.50 m cable, magnetic base and SMA plug
- MDRC 9.5 MW

Art. no. 11304

# GATEWAYS EIBPORT LAN Version 3

## Possible combinations

### EIBPORT LAN KNX® TP + EnOcean®



- Basic functionalities (page 9)
- KNX® TP connection via bus terminal
- Administration of all 32766 KNX® group addresses
- Virtual group addresses
- Import of addresses from the ETS
- EnOcean® via an external SMA antenna
- Range: 300 m in open / 30 m in buildings (dependent on construction materials)
- Input properties: any number
- Output properties: 128
- Numerous preset EnOcean® profiles
- Can be used as a repeater
- Latest STM 300 transceiver module
- External antenna: 2.50 m cable, magnetic base and SMA plug
- MDRC 8 MW

Art. no. 10504

### EIBPORT Powernet KNX® + EnOcean®



- Basic functionalities (page 9)
- Powernet KNX® connection via screw-type terminal on the network coupler
- Administration of all 32766 KNX® group addresses
- Virtual group addresses
- Import of addresses from the ETS
- EnOcean® via an external SMA antenna
- Range: 300 m in open / 30 m in buildings (dependent on construction materials)
- Input properties: any number
- Output properties: 128
- Numerous preset EnOcean® profiles
- Can be used as a repeater
- Latest STM 300 transceiver module
- External antenna: 2.50 m cable, magnetic base and SMA plug
- MDRC 9.5 MW

Art. no. 11504

## Technical data

- Power supply: 12–30 V DC
- Power input: ≤ 5 VA
- Bus voltage: via the KNX®
- Operating system: Embedded Linux
- X86 600 MHz CPU, 256 MB RAM, 4 GB flash
- Environmental conditions: EN 50090-2-2
- Ambient temperature: 0 to 40 °C
- Storage temperature: –20 to + 70 °C
- Relative humidity (non-condensing): 5% to 80%

#### Mechanical data:

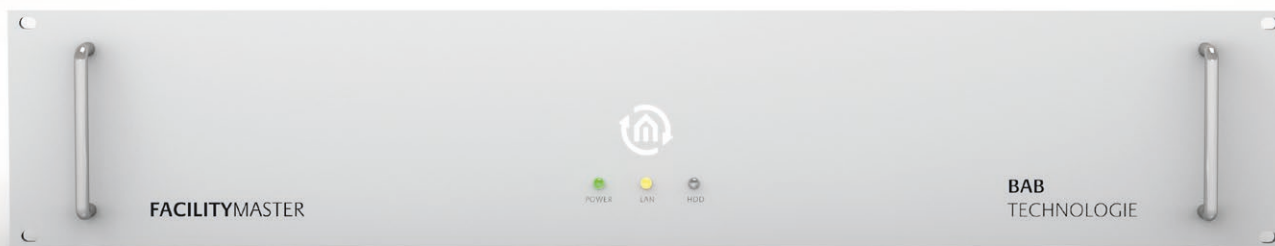
- Installation: MDRC 8 MW
- Dimensions (W x H x D) in mm: 144 x 90 x 64.5

- Housing: Plastic
- Weight: approx. 0.4 kg
- Protection class: IP20 (according to EN 60529)

#### Interfaces (depending on version):

- KNX® via bus terminal (twisted pair)
- Ethernet via RJ45 socket
- 1-Wire via USB
- 4 SO interfaces
- EnOcean® via external SMA antenna
- GSM® via external GSM® antenna
- Powernet KNX® via screw-type terminal

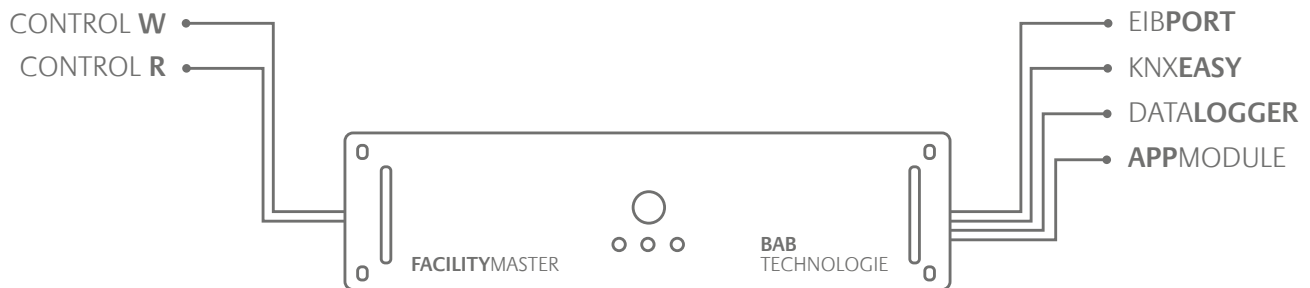




## FACILITYMASTER NEW DIMENSIONS.

The **FACILITYMASTER** is the **EIBPORT**'S big brother. It incorporates all the functionalities of the **EIBPORT**, but is designed for use in large-scale projects. In addition, individual applications such as **DATALOGGER**, **APPMODULE** and **KNXEASY** are incorporated. Thanks to its option of accommodating connections to the **EIBPORT** or **LINKMODULE**, however, it is also ideally suited to property management. 256 simultaneous connections to all visualisations (except Java Control) are possible. **CONTROL W** even allows up to 2000 connections. The room allocation plan (**CONTROL R**) enables as many as 256 rooms to be automated. More than 2000 jobs can be entered in one device. The **DATALOGGER** enables internal

data recording of 500 million datasets. Some applications can be added without any difficulties using the integrated **APPMODULE**. They work in a separate virtual machine within the **FACILITYMASTER** so that they do not influence other processes. The integration of third-party software using the integrated **KNXEASY** is also possible. The pre-installed Logitech™ Media Server makes the **FACILITYMASTER** the control centre of all the music zones. Thanks to the new failure management, the **FACILITYMASTER** becomes a central alarm information system with logged user accesses.



## Technical data

- Operating voltage: 230 V AC
- Processor: Intel® Core™ i3 Processor 3.4 GHz
- Main memory: 4 GB 1600 MHz DDR3
- HDD: 2 x 500 GB SATA RAID 1

### Mechanical data

- Installation: 19 inch slide-in module 2 HE
- Front panel: 3 mm anodised aluminium
- Chassis: Hot-galvanised sheet steel, RAL 9006 white aluminium

### Interfaces

- KNX® via KNXnet/IP
- LAN: 2 x Gigabit Ethernet
- Serial: COM 1

### Operating system

- Linux® OS with Xen VM



## DATALOGGER ANALYSE. CONTROL. OPTIMISE.

The **DATALOGGER** is a high-performance DIN rail device for recording KNX® telegram data based on MySQL in real-time. It receives the data either via KNX/TP or KNXnet/IP. All important configuration steps can be taken directly at the device using the two-line LCD and six keys. The detailed configuration is made via a user-friendly Web interface. Thanks to its integrated KNXnet/IP server, the **DATALOGGER** fulfils two functions simultaneously:

It functions as an IP router for KNX® while at the same time recording telegram traffic. All data is recorded in an internal database (8 GB) or – for larger data quantities – in an external MySQL database. The ETS4 project information is used to structure the database automatically. Data is exported manually to a USB stick or by e-mail using a previously set cycle. Thanks to CSV or XLS format, the data can be used immediately.

## Technical data

- Operating voltage: 12–32 V DC
- Typical power input: 400 mA at 12V DC
- Power input: ≤ 5W
- Connection: Power over Ethernet (PoE) or power supply via pluggable screw terminal
- Environmental conditions: EN 50090-2-2
- Ambient temperature: –5 to +35 °C
- Storage temperature: –10 to +60 °C
- Relative humidity (non-condensing): 5% to 80%

### Mechanical data:

- Installation: MDRC 8 MW
- Dimensions (W x H x D) in mm: 140 x 90 x 63
- Casing: Plastic
- Protection class: IP20 (according to EN 60529)
- Display: 2-line LCD controllable by means of 6 keys

### Interfaces:

- KNX® via pluggable screw terminal (twisted pair)
- EnOcean® available soon
- Ethernet via RJ45 socket
- USB for exporting the internal database

### Features:

- 8 GB internal flash memory
- Power supply PoE-capable
- Configuration via Web interface or directly on the device

### Software requirements:

- Operating system: any
- Communication: Network interface
- Browser: current standard browser



## KNXEASY PARLEZ VOUS ASCII?

The **KNXEASY** converts KNX® telegrams to ASCII code and vice-versa, making it extremely easy to connect third-party applications. The device transmits the data via both TCP and UDP protocol. Thanks to the simple structure of the **KNXEASY** protocol, (ASCII commands), its integration is as simple as conceivably possible. A KNX/TP connection as well as fully-fledged KNXnet/IP server ensure the connection to KNX®. The number of data points is unlimited. The values of all group addresses are stored in an address status table.

Different KNX environments with the same group addresses can be distinguished by a system ID. Thanks to the use of the identifier and data types, the upload of the ETS4 project data simplifies the creation of the ASCII commands. Furthermore, the **KNXEASY** can also be used as a programming interface for the ETS. Configuration takes place via a Web interface and is platform-independent.

## Technical data

- Operating voltage: 12–32 V DC
- Typical power input 400 mA at 12 V DC
- Power input: ≤ 5W
- Connection: Power over Ethernet (PoE) or power supply via pluggable screw terminal
- Environmental conditions: EN 50090-2-2
- Ambient temperature: –5 to +35°C
- Storage temperature: –10 to +60 °C
- Relative humidity (non-condensing): 5% to 80%

### Mechanical data:

- Installation: MDRC 8 MW
- Dimensions (W x H x D) in mm: 140 x 90 x 63
- Housing: Plastic
- Protection class: IP20 (according to EN 60529)
- Display: 2-line LCD controllable by means of 6 keys

### Interfaces:

- Ethernet via RJ45 socket
- EnOcean® in work
- USB (not supported)

### Features:

- Power supply PoE-capable
- Configuration via Web interface or directly on the device
- Basic commissioning possible directly on the device possible

### Software requirements:

- Operating system: any
- Communication: Network interface
- Browser: current standard browser

# GATEWAYS DUODMX GATEWAY



## GATEWAY BETWEEN KNX® OR ENOCEAN® AND DMX

DMX (alongside Dali) is the standard for theatrical and lighting technology. It is also a digital bus, but operates at 250 kbit/s (KNX: 9.6 kbit/s). Up to 512 channels can be controlled in one line. The technology is widely used and therefore reasonably priced. DMX is also frequently used for controlling RGB-LED lamps. Thanks to the DUODMX GATEWAYS, therefore, it is now also possible to call up different moods with coloured lights and sequences using KNX® pushbutton sensors. Likewise, it is possible to switch and dim individual lights. The gateway has two separate outputs, each with 512 DMX channels, and enables two DMX universes to be controlled independently of one another. In addition, the outputs can be used on request either as a DMX-Master or a DMX-Slave, i.e. transmitting or receiving (Version SR).

The EnOcean® version is ideally suited as a retrofit. For this reason, the device is designed as concealed ceiling-mounted version and can easily be installed through the hole of a (former) LV halogen spot lamp. Using the optional DIN rail clip, the device can also be installed in the distribution unit. The tabs on the device are simply snapped off for this purpose. The free “DMX-Configurator” software is used for programming the sequences. To this end, individual steps are set up using virtual slider controls and stored consecutively.

If the lamp(s) is (are) connected to the gateway, these steps can also be set up online. Individual lighting scenarios are combined into sequences and can be triggered by a group address or an EnOcean® profile. For the assignment of the group addresses, the ETS data export (esf file) is imported into the software. In the KNX and Extension versions, new DPT data types can also be used, in addition to absolute and relative dimming, in order to control RGB and RGBW devices directly with just one telegram. The device can also be used in conventional electrical installations without building automation. The device communicates readily on request via WLAN and is directly controlled by means of a smartphone app.

The software also serves to assign the IP parameters. The configuration data is either transmitted to the device conveniently via the existing network connection, or by means of an SD card. One further handy feature is the power supply by means of Power over Ethernet (PoE). This avoids the nuisance and expense of wiring and offers advantages for both retrofits and new installations. By this inconvenient wiring effort is been prevented and offers as well advantages for retrofitting as also for reinstalling.



## Technical data

- Operating voltage: 12–30 V DC
- Power input:  $\leq 1.2$  VA
- Connection: Power over Ethernet (PoE) or power supply via terminal
- Environmental conditions: EN 50090-2-2, Category 3K5
- Ambient temperature:  $-5$  to  $+45$  °C
- Storage temperature:  $-10$  to  $+60$  °C
- Relative humidity (non-condensing):  $< 95\%$

### Mechanical data:

- Installation: Ceiling installation or via DIN rail adapter EN 50022 –  $35 \times 7.5$
- Dimensions (W x H x D) in mm: without fastening lugs:  $116 \times 50 \times 26$  with fastening lugs:  $146 \times 50 \times 26$
- Housing: Plastic
- Weight: approx. 120 g
- Protection class: IP20 (according to EN 60529)

### Interfaces (model-dependent):

- KNX®: Twisted pair via terminal ( $\leq 1.5$  mm)
- Ethernet: RJ45 connection
- EnOcean®: external SMA antenna
- WLAN: 802.11 b (compatible with b/g/n)
- 2 x DMX 512: Terminal ( $1.5 \text{ mm}^2$ )

### Features:

- Power supply: PoE
- Programming: SD card / network
- Configuration: “DMX configurator” (professional DMX software)
- DMX: 2 x 512 channels
- External antenna: 2.50 m cable, magnetic base and SMA plug.

### System requirements (DMX configurator):

- Operating system: Current Windows® desktop systems
- Communication: Network interface
- Hard disk memory: 5 MB
- Optional: Card reader device for SD cards

|                |                             |  |
|----------------|-----------------------------|--|
| Art. no. 12000 | DUODMX GATEWAY Extension    |  |
| Art. no. 12010 | DUODMX GATEWAY KNXnet/IP    |  |
| Art. no. 12020 | DUODMX GATEWAY KNX/TP       |  |
| Art. no. 12030 | DUODMX GATEWAY EnOcean      |  |
| Art. no. 12040 | DUODMX GATEWAY Standalone   |  |
| Art. no. 12100 | DUODMX GATEWAY Extension SR |  |
| Art. no. 12110 | DUODMX GATEWAY KNXnet/IP SR |  |
| Art. no. 12120 | DUODMX GATEWAY KNX/TP SR    |  |
| Art. no. 12090 | DIN rail adapter            |  |

# ADD-ON MODULES **AUDIOMODULE**

---



## **AUDIOMODULE** MULTI-ROOM IN OUR OWN STYLE.

The **AUDIOMODULE** is a network streaming client which is optionally available with a line-out or speaker output. As a DIN-rail device, it is installed in the distribution board. It is easily configured via a Web interface. Based on the proven Squeezebox™ technology, it is integrated into the KNX® or EnOcean® system in connection with the Logitech™ media server and EIBPORT. The uncomplicated system architecture and easy configuration ensure that it is ideal for multi-room

functionality. As well as the opportunity to play music from the local server, it is also possible to use Internet radio stations.

As an additional highlight the **AUDIOMODULE** can also be used as Media-Server in stand-alone operation. In doing so the control happens by the smartphone with an UPnP-App. The music data is located on a local connected USB-stick.

## Technical data

### AUDIOMODULE Speaker

- Power supply: 24 V DC / 3A
- Power input: max. 72 W
- Connection: Pluggable screw terminal
- Environmental conditions: EN 50090-2-2
- Ambient temperature: -5 to +35°C
- Storage temperature: -10 to +60 °C
- Relative humidity (non-condensing): 5% to 80%

#### Mechanical data:

- Installation: MDRC 4 MW
- Dimensions (W x H x D) in mm: 70 x 90 x 63
- Housing: Plastic
- Protection class: IP20 (according to EN 60529)

#### Interfaces:

- Ethernet via RJ45 socket
- Loudspeaker connection: 2 x 20 W at 4 Ω  
Pluggable screw terminal up to 3.6 mm<sup>2</sup>
- USB 2.0: 2 USB sticks, each up to 8 GB (audio data)
- SD card slot (card must remain inserted)

#### Features:

- Can be used both as a streaming client or as a server
- xPL package (xPL hub and ExPL plug-in) for connecting the audio module to the EIBPORT and dynamic cover display

#### Software requirements:

- Operating system: any
- Communication: Network interface
- Browser: current standard browser

### AUDIOMODULE line

- Operating voltage: 12 – 32 V DC
- Typical power input 350 mA at 12 V DC
- Power input: ≤ 5 W
- Connection: Pluggable screw terminal
- Environmental conditions: EN 50090-2-2
- Ambient temperature: -5 to +35°C
- Storage temperature: -10 to +60 °C
- Relative humidity (non-condensing): 5% to 80%

#### Mechanical data:

- Installation: MDRC 4 MW
- Dimensions (W x H x D) in mm: 70 x 90 x 63
- Housing: Plastic
- Protection class: IP20 (according to EN 60529)

#### Interfaces:

- Ethernet via RJ45 socket
- Audio line out: 2 V<sub>rms</sub> at 10 kΩ  
Pluggable screw terminal up to 3.6 mm<sup>2</sup>
- USB 2.0: 2 USB sticks, each up to 8 GB (audio data)
- SD card slot (card must remain inserted)

#### Features:

- Can be used both as a streaming client or as a server
- xPL package (xPL hub and ExPL plug-in) for connecting the audio module to the EIBPORT and dynamic cover display

#### Software requirements:

- Operating system: any
- Communication: Network interface
- Browser: current standard browser

|                |                            |  |
|----------------|----------------------------|--|
| Art. no. 10510 | <b>AUDIOMODULE Speaker</b> |  |
| Art. no. 10520 | <b>AUDIOMODULE Line</b>    |  |

# ADD-ON MODULES CUBEVISIONMODULE



## CUBEVISIONMODULE GREAT TECHNOLOGY IN A HANDY FORMAT.

The entry into the world of building automation has never been easier: The **CUBEVISIONMODULE** offers all the essential functions of a high-grade visualisation, while being simplicity itself to set up and operate. The implemented CUBEVISION visualisations and the CUBEVISION MOBILE based on Web app technology facilitate a consistent user interface on almost any input device. This means that smartphones and tablets etc. become handy and mobile control centres for the home. The intuitive CUBEVISION Editor is integrated and can be called up and operated using any standard browser. The num-

ber of control elements such as multimedia controllers, RGBW colour selectors, IP cameras etc., is unlimited. The opening of doors is made more secure and convenient by means of the intercom function with video and audio. The embedded multi-room functionality permits the control of Sonos® players and our **AUDIOMODULE**. By implementing the KNXnet/IP protocol, the device can also be used as an IP router and thus becomes a fully-fledged node in the KNX® network.

## Technical data

- Operating voltage: 12–32 V DC
- Typical power input 300 mA at 12 V DC
- Power input: ≤ 5 W
- Connection: Power supply via screw type terminal
- Environmental conditions: EN 50090-2-2
- Ambient temperature: -5 to + 35 °C
- Storage temperature: -10 to + 60 °C
- Relative humidity (non-condensing): 5% to 80%

### Mechanical data:

- Installation: MDRC 4 MW
- Dimensions (W x H x D) in mm: 70 x 90 x 63
- Housing: Plastic
- Protection class: IP20 (according to EN 60529)

### Interfaces:

- Ethernet via RJ45 socket
- SD card slot: The card must remain inserted
- KNX®/TP connection
- EnOcean® available soon

### Special features:

- Automatic generation of visualisations

### Software requirements:

- Operating system: any
- Communication: Network interface
- Browser: current standard browser

Art. no. 10560 | CUBEVISIONMODULE

# CUBEVISION

The simplest visualisation ever from  
BAB TECHNOLOGIE. Now in every EIBPORT.



In the past sophisticated visualisations were time-consuming and thereby cost-intensive. This changes with the new CUBEVISION from BAB TECHNOLOGIE. The "Cube" generates itself fully automatically. Simply create the building structure, link the groupaddresses, that's it. The rest is done by itself. Becoming curious? Then discover a new world of building automation:

[www.cubevision.info](http://www.cubevision.info)



Discover the  
CUBEVISION video:



- + Component of the EIBPORT
- + Component of the FACILITYMASTER
- + Component of the CUBEVISIONMODULE

 CUBEVISION™

# ADD-ON MODULES **APPMODULE**



## APPMODULE UNDREAMED-OF POSSIBILITIES.

The **APPMODULE** opens up new possibilities for you. Similar to a smartphone, the module provides the opportunity to load apps which are available from the BAB **APPSTORE**. Whether the connection to a non-KNX® system or specific automation solutions is required – you can combine several APPs and customise the device for your projects. Building automation has

never been so flexible. Simply load the necessary functions from the BAB **APPSTORE** and benefit from the continuously increasing range of products. Link your APPs with CUBE-VISION – one of the most innovative visualisations – and control multimedia, network services, alarm systems or proprietary systems via one single interface.

## Technical data

- Operating voltage: 12–32 V DC
- Typical power input 300 mA at 12 V DC
- Power input: ≤ 5 W
- Connection: Power supply via pluggable screw terminal
- Environmental conditions: EN 50090-2-2
- Ambient temperature: -5 to + 35 °C
- Storage temperature: -10 to + 60 °C
- Relative humidity (non-condensing): 5% to 80%

### Mechanical data:

- Installation: MDRC 4 MW
- Dimensions (W x H x D) in mm: 70 x 90 x 63
- Housing: Plastic
- Protection class: IP20 (according to EN 60529)

### Interfaces:

- Ethernet via RJ45 socket
- SD card slot: The card must remain inserted
- KNX®/TP and EnOcean® connection available soon

### Special features:

- Free selection of functions and expandability in the BAB **APPSTORE**
- Development of own applications

### Software requirements:

- Operating system: any
- Communication: Network interface
- Browser: current standard browser

Art. no. 10500 | **APPMODULE**



# ADD-ON MODULES LINKMODULE



## LINKMODULE THE SECURE CONNECTION.

In addition to the KNXnet/IP router functionality, the **LINKMODULE** incorporates the proven BAB facility coupling protocol. This uses Unicast transmission and communicates effortlessly via routers and the Internet. Specific measures, such as those required for normal IP routers which use Multicast, are not necessary. Furthermore, the **LINKMODULE** communicates via BAB **SECURELINK** (a specially encoded facility grouping

protocol) which enables secure transmission to other BAB devices. The module is capable not only of accepting an encoded connection, but also of establishing an encoded connection, for example to the **FACILITYMASTER**. The **LINKMODULE** can also be used as a programming interface for the ETS due to its integrated KNXnet/IP server.

## Technical data

- Operating voltage: 12–32 V DC
- Typical power input 300 mA at 12 V DC
- Power input: ≤ 5 W
- Connection: Power supply via screw type terminal
- Environmental conditions: EN 50090-2-2
- Ambient temperature: -5 to + 35 °C
- Storage temperature: -10 to + 60 °C
- Relative humidity (non-condensing): 5% to 80%

### Mechanical data:

- Installation: MDRC 4 MW
- Dimensions (W x H x D) in mm: 70 x 90 x 63
- Housing: Plastic
- Protection class: IP20 (according to EN 60529)

### Interfaces:

- Ethernet via RJ45 socket
- SD card slot: The card must remain inserted

### Special features:

- Encrypted facility grouping with Unicast

### Software requirements:

- Operating system: any
- Communication: Network interface
- Browser: current standard browser



## ELMMODULE EMERGENCY LIGHTING MONITORING.

The **ELMMODULE** serves, as extension for the **EIBPORT**, for the surveillance and record of the Emergency lighting together with the ABB DGNS 1.16.1. It facilitates the manual/automatic triggering of emergency lighting tests for DALI emergency lighting ballasts. Further it captures the results of these tests and enables the user to view, download and print the most recent results of selected areas of the building.

The triggered tests are available for DALI emergency luminaires are as follows:

- Function test
- Partial Duration test
- Full Duration test
- Battery test

## Technical data

- Operating voltage: 12–32V DC
- Typical power consumption: 300 mA at 12 V
- Power consumption:  $\leq 5$  W
- Connections: Power over Ethernet (PoE) or power supply via pluggable screw terminal
- Climate resistant: EN 50090-2-2
- Ambient temperature:  $-5$  bis  $+35$  °C
- Storage temperature:  $-10$  bis  $+60$  °C
- Relative humidity (non-condensing): 5 % bis 80 %

### Mechanical Data:

- Mounting: MDRC 4 MW
- Dimensions (W x H x D) in mm: 70 x 90 x 63
- Housing: Plastic

- Protection type: IP20 (acc. to EN 60529)

### Interfaces:

- Ethernet via RJ45 connector
- SD-Card-Slot: Card has to be plugged in permanently

### Features:

- Limited to 35 ABB DGNS 1.16.1 gateways

### Software requirements:

- Operating system: any
- Communication: network interface
- Browser: current standard browser

# ADD-ON MODULES **PV**MODULE



## PVMODULE USING ENERGY INTELLIGENTLY.

The **PVMODULE**, in combination with the **EIBPORT**, is capable of assuming control of a photovoltaic (PV) system within a KNX bus system. The functional method is simple: The system uses the surplus PV energy that is normally fed back into the power grid to heat your building. To do this, the currently available output of the PV generator is determined and converted directly into heat by means of a thyristor controller and the heating element. The heat store is monitored by means of temperature sensors so that the energy feed can be shut off when a preset limit is reached. The **PVMODULE** assu-

mes the complete regulation of the thermal energy recovery. It takes into consideration the demand and the environmental conditions, such as summer or winter operation, standby mode, automatic lowering of night-time temperature etc. It can be used for controlling the provision of domestic hot water or to supplement the heating system. The **PVMODULE** can also be integrated into existing structures, thereby helping to improve your own energy consumption and reduce heating bills. In interaction with the **EIBPORT**, consumption and yield graphs can clearly be displayed.

## Technical Data

- Operating voltage: 12–32 V DC
- Typical power input 300 mA at 12 V DC
- Power input:  $\leq 5$  W
- Connection: Power supply via screw type terminal
- Environmental conditions: EN 50090-2-2
- Ambient temperature: -5 to + 35°C
- Storage temperature: -10 to + 60°C
- Relative humidity (non-condensing): 5% to 80%

### Mechanical data:

- Installation: MDRC 4 MW
- Dimensions (W x H x D) in mm: 70 x 90 x 63
- Housing: Plastic
- Protection class: IP20 (according to EN 60529)

### Interfaces:

- Ethernet via RJ45 socket
- SD card slot: The card must remain inserted

### Software requirements:

- Operating system: any
- Communication: Network interface
- Browser: current standard browser

Art. no. 10581

**PVMODULE**



# VISUALISATIONS CUBEVISION



CUBEVISION™

- + Component of the EIBPORT
- + Component of the FACILITYMASTER
- + Component of the CUBEVISIONMODULE

## The simplest visualisation ever from BAB TECHNOLOGIE.

What if building visualisation were easy to create and intuitive to operate? If building visualisation could be set up almost automatically? Would it then still be individual and sophisticated? A contradiction perhaps, but we have the solution:

It is called CUBEVISION. A visualisation that eliminates the apparent contradictions between “sophisticated and simple” or “individual and automatic”. The “Cube” generates itself automatically, creating a completely new form of visualisation. The building is mapped as a cube and profiles itself by means of a completely intuitive kind of navigation. In order to switch to different floors, the cube is simply slid up or down, while to switch rooms it is simply rotated to the right or left.

The shape of the cube – i.e. the number of its sides and the number of floors – is determined automatically from the building structure.

The menu guidance of the CUBEVISION is also ahead of its time: the control elements no longer have to be laboriously constructed and arranged, but they create and arrange themselves. The menu structure is generated automatically and guides users clearly and intuitively through the operation of their building. Each side of the cube only displays the key functions, while a complete overview is only ever a click away. Elements that require an expanded view make this view available automatically and present it clearly without any further configuration.



CUBEVISION live and as a video at  
[www.cubevision.info](http://www.cubevision.info)

# VISUALISATIONS CUBEVISION MOBILE



## CUBEVISION™ MOBILE

- + Component of the EIBPORT
- + Component of the FACILITYMASTER
- + Component of the CUBEVISIONMODULE

For smartphones and devices with narrower displays, CUBEVISION Mobile is also available. With an innovative operating concept and optimized design, the interface is specially adapted to the needs of mobile devices. The visualisation scales itself automatically to the respective display size.

In doing so, CUBEVISION Mobile uses the configuration data of the existing CUBEVISION project and requires no special configuration. In this way, an integrated visualisation for all operating clients is automatically created from a single database.

# VISUALISATIONS CONTROL L

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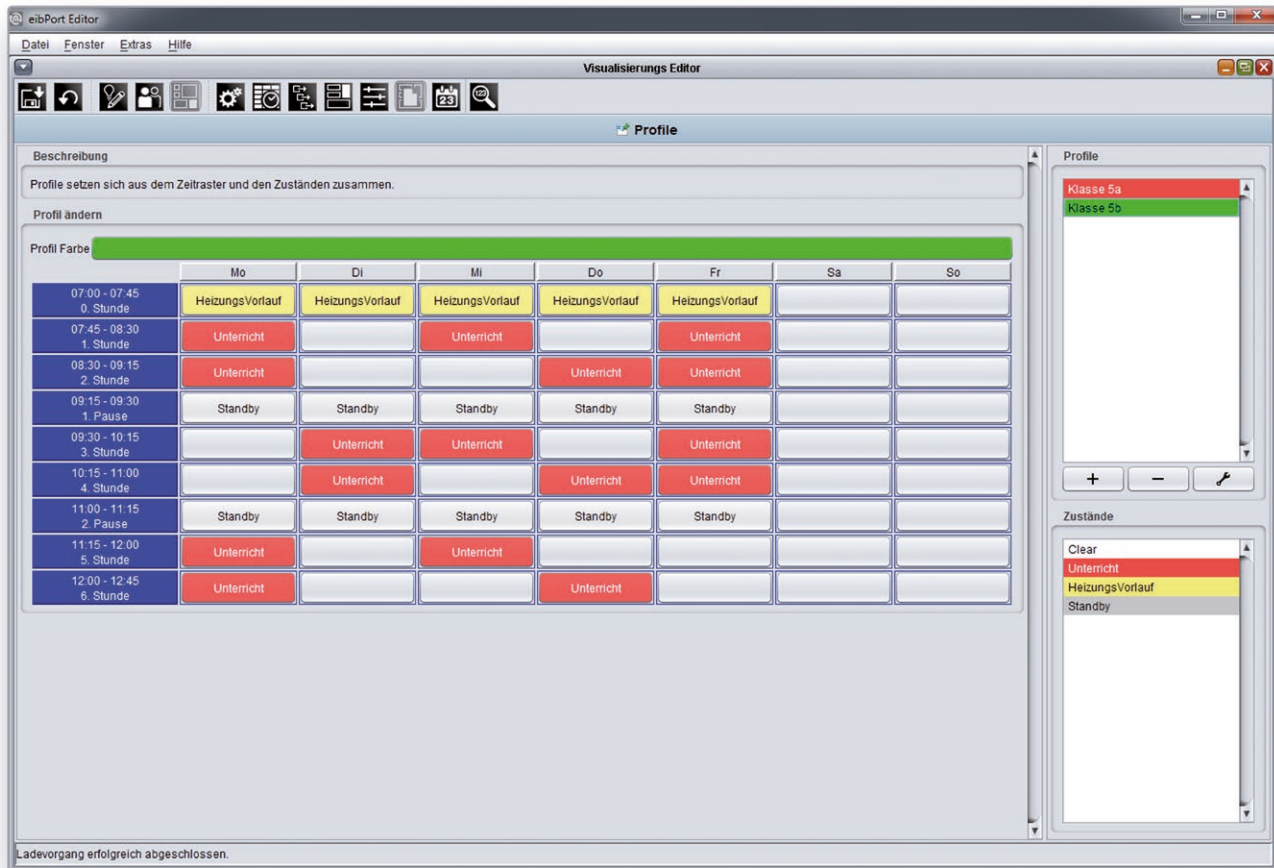
## CONTROL L

- + Component of the **EIBPORT**
- + Component of the **FACILITYMASTER**

CONTROL L (large) is the **EIBPORT** visualisation for the iPad® or tablets from Samsung®, HP®, HTC® etc. It is independent of manufacturer and operating system.

Display options on user interface:

- All elements from the **EIBPORT** visualisation editor
- Supports gesture control such as slide and zoom
- The layout design is not permanently assigned
- Master pages can be defined
- Supports CSS 3 and HTML 5
- No limitation of group addresses or pages



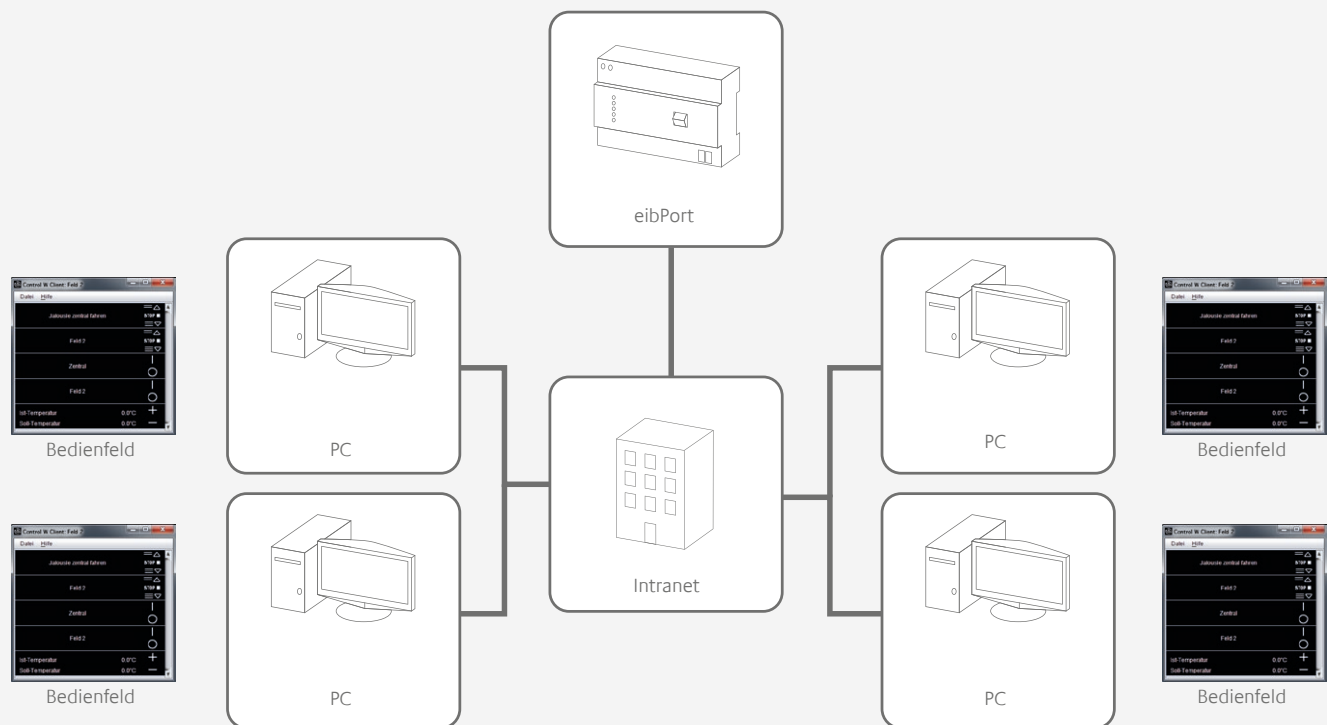
## CONTROL R Component of the FACILITYMASTER

CONTROL R (Room Allocation Plan) is the automatic control of the EIBPORT for allocated/unallocated rooms according to the plan.

CONTROL R is a module in the EIBPORT and pre-installed in the FACILITYMASTER for graphically displaying and controlling the status of individual rooms. One scenario for using such a module is for buildings that always have the same or very similar room design. Good examples of this would be schools, conference rooms or hotels.

The CONTROL R module is part of the visualisation editors. All settings are made by means of its own configuration mask. After successful configuration all necessary switching points for the defined period will be calculated in advance.

# VISUALISATIONS CONTROL W



## CONTROL W Component of the FACILITYMASTER

**CONTROL W** (Window) – is a server-client application for convenient operation of the room and with energy-saving potential

**CONTROL W** is a server-client application for the **EIBPORT** / **FACILITYMASTER**. The software permits the local operation of the KNX components from the PC; as many as 100 workplace visualisations can be configured per **EIBPORT**. **CONTROL W** offers the user the convenient control of lighting, shading and room temperature, thereby permitting more efficient operation under individual conditions. For the building operator there is potential for making savings, because individual room controllers such as pushbutton sensors can be replaced by **CONTROL W** and are no longer necessary. In contrast to other

software solutions, no project data is held on the office PCs apart from the client application for the visualisation. All data is stored centrally in the **EIBPORT**.

### Multifunctional pushbutton sensor

Thanks to the graphical user interface, the laborious editing of configuration files with a text editor is not necessary. In addition, the import of ETS data simplifies the assignment of addresses. By adapting the software – instead of installing new controls and cabling – a quick response can be made to changes in use in the building without any additional installation costs. Access is protected by means of a username and password.

### Component of the **FACILITYMASTER** / AddWare for **EIBPORT**

- Creation of PC pushbutton sensors
- Library with switches, dimmers, sunblind switches, and room temperature controllers
- Up to 100 PCs can access on **EIBPORT**
- Up to 2000 PCs can access on **FACILITYMASTER**
- Communication via LAN
- All project data is stored in the **EIBPORT** / **FACILITYMASTER**
- Called via tray icon



# ACCESSORY Power Supply PSM2



## POWER SUPPLY PSM2/18.12

These power supplies are constructed on the flyback converter principle. The output voltage remains steady in event of line voltage fluctuations and load variations within a tolerance of  $\pm 3\%$ . No minimum load is necessary. The output voltage remains stable in the load range from 0-100%. No hiccup-mode function. The devices also start reliably with heavy loads (DC/DC) converters, motors. The maximum constant current is also maintained on overload and short circuit, without shutting off the devices. High stability (due to high value of the phase margin and large bandwidth with open control loop), so that no “ringing” or “overshoot” can occur

in the event of fast load fluctuations. The switched-mode power supplies are equipped with an LED that indicates the operating state.

These switched-mode power supplies can also be supplied with DC voltages (input voltage):

- Input voltage range 280 V DC - 350 V DC (for devices with 230 V AC input voltage).
- Input voltage range 130 V DC - 350 V DC (for devices with wide range input voltage (100 - 240 V AC)).

## Technical data

- Safety standard EN60950 – UL508
- EMC standard EN55022/B - EN61000-4
- European Directives (CE) CE 2006/95/ECC - 89/336
- Protection class IP 20
- MTBF (MIL HDBK217) ~ 100,000 hours
- Operating temperature -10°C / +50°C
- Relative humidity (non-condensing) 5% – 90%
- Rated input voltage 100 – 240 V AC
- Nominal frequency 48 - 63 Hz
- No-load power 0.4 – 0.5 W
- Rated output voltage 12 V DC
- Output voltage tolerance  $\pm 3\%$
- Output voltage adjustable 12 - 14 V DC
- Rated output current 1.5 A
- Nominal output 18 W
- Output current limit 1.9 A
- Short-circuit current 2.5 A
- Efficiency 80 - 85 %
- Surge protection / short circuit protection / overvoltage protection: electronic
- LED operating state indicator
- Housing MDRC 2 MW
- Colour Grey RAL 7035

### Accessory:

#### AKKU ADP9/12V4Ah

Battery for emergency power supply to the EIBPORT for min. 6.5 hours with a load of 5 W.

Art. no. 35411



## AKKU ADP9 / 12V4AH

Battery for emergency power supply to **EIBPORT** on power failure/ voltage interruption for min. 6.5 hours at a load of 5 W. The ADP9/18.12 battery is optimised for the PSM2/18.12 power supply and designed for DIN rail mounting (Housing REG 9 pitch).

Due to the connections, the battery can be connected directly to the PSM2/18.12 power supply. The battery has a fuse for protection.

## Technical data

- Output voltage 12 V DC
- Battery 4.0 Ah (hermetically sealed lead-acid battery from Panasonic)
- Safety standards / EMC standards EN60950 / EN55022B / 2006-95-ECC 89-336
- Relative humidity 5 – 90 %
- Ambient temperature -10°C / +40°C
- LED function indicators
- Housing MDRC 9 MW
- Colour Grey RAL 7035
- The PSM2/18.12 power supply unit is required for charging

### Accessory:

PSM2/18.12 power supply  
DIN rail power supply unit 12-14 V DC/1.5 A  
Art. no. 35421

# SOFTWARE DATAWAREHOUSE 2

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## DATAWAREHOUSE 2

EIBPORT DataWarehouse Client Software

- Accesses the MySQL database recording of any EIBPORTs
- Data analysis by period, group addresses or physical addresses
- Database statistics
- Data export to CSV file

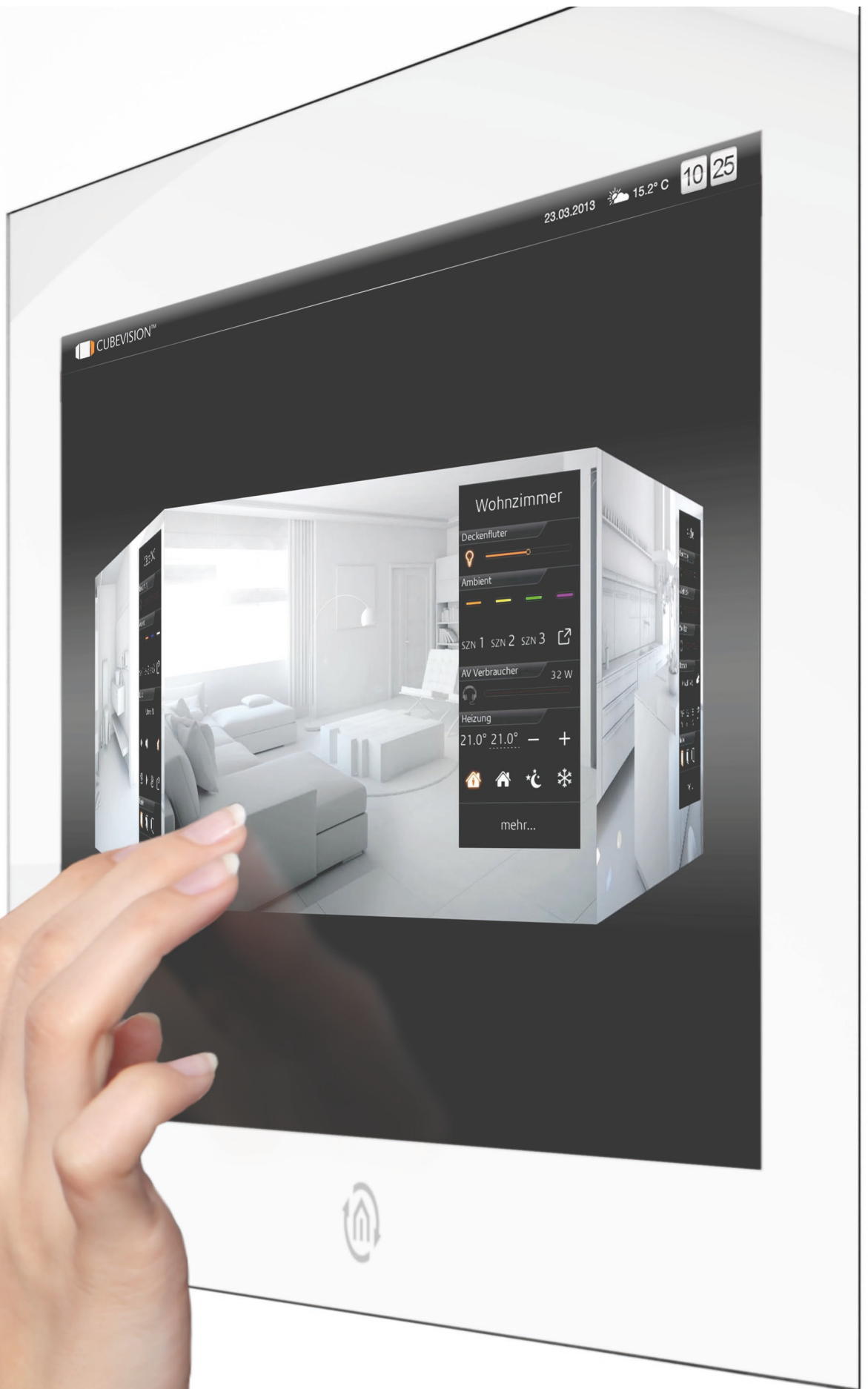


## CONTROL T

CONTROL T (Terminal) is a free software program that integrates any Web pages into a user interface.

The CONTROL T software is the information centre of your house. Using this, you can call up the visualisation of the house automation as well as the control of multi-room audio/video systems. Furthermore, you can store links to Internet pages, e-mail accounts or camera streams that can be opened by means of a user-friendly interface. The integrated UPnP Control Point facilitates the dynamic retrieval of your DVD and MP3 collection, including cover art.

Whether you use a touch-display on the wall or a WebPad (Win 7) on the sofa – you always have instant access to the required information. This means a fast switchover between different menu options without having to reload the content. Using CONTROL T you retain all the freedom of your usual Internet browsers. By means of an on-screen keyboard, any Internet pages can be called up. You can set up CONTROL T by means of a simple WYSIWYG editor to suit your individual preferences.



# TOUCH PANELS UP-Touch Panel 4.0

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## ELEGANT DESIGN AND HIGH AVAILABILITY

This touch panel PC features fanless, low-energy technology, industrial standard hardware, high performance and integrated microphone with speakers.

The panel PC is equipped with microSD flash memory. Android is available as the operating system. The software integrates building visualisation, Internet, e-mail, multimedia control and intercom with video and audio function all on one interface.

A further highlight is offered by the version with capacitive touch display and an installation kit for flush wall mounting. In the capacitive version the frame is integrated directly into the screen, creating a full-width glass surface.

A special installation kit is attached to the UP box to allow flush wall mounting. Available for both the capacitive version and the version with the conventional additional frame.

# TOUCH PANELS UP-Touch Panel 4.0 150



## UP-Touch Panel 4.0 150 | 15 inch LED (38.4 cm)

- Panel PC with **resistive** touch surface
- TFT colour LCD with LED backlight
- Visible picture W x H (in mm): 304 x 228
- Mounting frame W x H (in mm): 370 x 298
- Mounting depth: 85 mm
- Resolution: 1024 x 768
- Processor: i.MX6 1.0 GHz Quad Core
- Memory: microSD card
- Main memory: 1 GB DDR3
- Ports:
  - 1 x RJ-45 LAN Gigabit LAN
  - 24 V power connector
- Back: 1 x USB 2.0
- Audio:
  - 2 x 2 W stereo broadband speakers
  - Microphone: 1 x handsfree functionality integrated
- Power supply: 24 V, 2.5 A
- Power input with monitor OFF: 15 W
- Power input max.: 26.9 W
- Weight: 4.35 kg

### Accessories:

#### UP-box 150

Flush-mounting box for UP-Touch Panel DP 150 for installation in walls and cavity walls with 3D fine adjustment  
Dimensions H x W x D (in mm): 290 x 360 x 85  
Art. no. 04821

#### Frame DP 150 aluminium

Dimensions H x W x D (in mm): 311 x 387 x 14  
Art. no. 04850

#### Frame DP 150 stainless steel

Dimensions H x W x D (in mm): 311 x 387 x 14  
Art. no. 04851

#### Frame DP 150 glass, black

Dimensions H x W x D (in mm): 311 x 387 x 14  
Art. no. 04855

#### Frame DP 150 glass, white

Dimensions H x W x D (in mm): 311 x 387 x 14  
Art. no. 04856

#### DP 150 flush-mounting frame

Dimensions H x W x D (in mm): 323 x 399 x 14.5  
Art. no. 04831

# TOUCH PANELS UP-Touch Panel 4.0 CAP 104



## UP-Touch Panel 4.0 CAP 104 | 10.4 inch LED (26.4 cm)

- Panel PC with **capacitive** touch surface
- Full-width glass surface with black or white margin (no frame necessary)
- TFT colour LCD with LED backlight
- Visible picture W x H (in mm): 211 x 158
- Mounting frame W x H (in mm): 278 x 229
- Glass surface W x H (in mm): 295 x 242
- Mounting depth: 85 mm
- Resolution: 1024 x 768
- Processor: i.MX6 1.0 GHz Quad Core
- Memory: microSD card
- Main memory: 1 GB DDR3
- Ports:
  - 1 x RJ-45 LAN Gigabit LAN
  - 24 V power connector
- Back: 1 x USB 2.0
- Audio:
  - 2 x 2 W stereo broadband speakers
  - Microphone: 1 x handsfree functionality integrated
- Power supply: 24 V, 2.5 A
- Power input with monitor OFF: 15 W
- Power input max.: 25.5 W
- Weight: 2.97 kg
- Housing: Stainless steel

### Accessories:

#### UP-box 104

Flush-mounting box for UP-Touch Panel DP 104 for installation in walls and cavity walls with 3D fine adjustment  
Dimensions H x W x D (in mm): 221 x 263 x 85  
Art. no. 04820

#### DP 104 flush-mounting frame

Dimensions H x W x D (in mm): 254 x 307 x 14.5  
Art. no. 04830

|       |                |                            |  |
|-------|----------------|----------------------------|--|
| Black | Art. no. 04810 | UP-Touch Panel 4.0 CAP 104 |  |
| White | Art. no. 04815 | UP-Touch Panel 4.0 CAP 104 |  |

# TOUCH PANELS UP-Touch Panel 4.0 CAP 150



## UP-Touch Panel 4.0 CAP 150 | 15 inch LED (38.4 cm)

- Panel PC with capacitive touch surface
- Full-width glass surface with black or white margin (no frame necessary)
- TFT colour LCD with LED backlight
- Visible picture W x H (in mm): 304 x 228
- Mounting frame W x H (in mm): 370 x 298
- Glass surface W x H (in mm): 387 x 311
- Mounting depth: 85 mm
- Resolution: 1024 x 768
- Processor: i.MX6 1.0 GHz Quad Core
- Memory: microSD card
- Main memory: 1 GB DDR3
- Ports:
  - 1 x RJ-45 LAN Gigabit LAN
  - 24 V power connector
- Back: 1 x USB 2.0
- Audio:
  - 2 x 2 W stereo broadband speakers
  - Microphone: 1 x handsfree functionality integrated
- Power supply: 24 V, 2.5 A
- Power input with monitor OFF: 15 W
- Power input max.: 26.9 W
- Weight: 4.35 kg
- Housing: Stainless steel

### Accessories:

#### UP-box 150

Flush-mounting box for UP-Touch Panel DP 150 for installation in walls and cavity walls with 3D fine adjustment  
Dimensions H x W x D (in mm): 290 x 360 x 85  
Art. no. 04821

#### DP 150 flush-mounting frame

Dimensions H x W x D (in mm): 323 x 399 x 14.5  
Art. no. 04831

|       |                |                            |  |
|-------|----------------|----------------------------|--|
| Black | Art. no. 04811 | UP-Touch Panel 4.0 CAP 150 |  |
| White | Art. no. 04816 | UP-Touch Panel 4.0 CAP 150 |  |

# TOUCH PANELS UP-Touch Panel 4.0 CAP 185



## UP-Touch Panel 4.0 CAP 185 | 18.5 inch LED (47 cm)

- Panel PC with capacitive touch surface
- Full-width glass surface with black or white margin (no frame necessary)
- TFT colour LCD with LED backlight
- Visible picture W x H (in mm): 410 x 230
- Mounting frame W x H (in mm): 478 x 300
- Glass surface W x H (in mm): 493 x 313
- Mounting depth: 85 mm
- Resolution: 1366 x 768
- Processor: i.MX6 1.0 GHz Quad Core
- Memory: microSD card
- Main memory: 1 GB DDR3
- Ports:
  - 1 x RJ-45 LAN Gigabit LAN
  - 24 V power connector
- Back: 1 x USB 2.0
- Audio:
  - 2 x 2 W stereo broadband speakers
  - Microphone: 1 x handsfree functionality integrated
- Power supply: 24 V, 2.5 A
- Power input with monitor OFF: 15 W
- Power input max.: 32.6 W
- Weight: 6.7 kg
- Housing: Stainless steel

### Accessories:

#### UP-box 185

Flush-mounting box for UP-Touch Panel DP 185 for installation in walls and cavity walls with 3D fine adjustment  
 Dimensions H x W x D (in mm): 292 x 468 x 85  
 Article no. 04822

#### DP 185 flush-mounting frame

Dimensions H x W x D (in mm): 325 x 505 x 14.5  
 Art. no. 04832

|       |                |                            |  |
|-------|----------------|----------------------------|--|
| Black | Art. no. 04812 | UP-Touch Panel 4.0 CAP 185 |  |
| White | Art. no. 04817 | UP-Touch Panel 4.0 CAP 185 |  |

# TOUCH PANELS UP-Touch Panel 4.0 CAP 215



## UP-Touch Panel 4.0 CAP 215 | 21.5 inch LED (54.6 cm)

- Panel PC with capacitive touch surface
- Full-width glass surface with black or white margin (no frame necessary)
- TFT colour LCD with LED backlight
- Visible picture W x H (in mm): 475 x 263
- Mounting frame W x H (in mm): 541 x 336
- Glass surface W x H (in mm): 558 x 349
- Mounting depth: 85 mm
- Resolution: 1920 x 1080
- Processor: i.MX6 1.0 GHz Quad Core
- Memory: microSD card
- Main memory: 1 GB DDR3
- Ports:
  - 1 x RJ-45 LAN Gigabit LAN
  - 24 V power connector
- Back: 1 x USB 2.0
- Audio:
  - 2 x 2 W stereo broadband speakers
  - Microphone: 1 x handsfree functionality integrated
- Power supply: 24 V, 2.5 A
- Power input with monitor OFF: 15 W
- Power input max.: 43.7 W
- Weight: 8.4 kg
- Housing: Stainless steel

### Accessories:

#### UP-box 215

Flush-mounting box for UP-Touch Panel DP 215 for installation in walls and cavity walls with 3D fine adjustment  
Dimensions H x W x D (in mm): 329 x 533 x 85  
Art. no. 04823

#### DP 215 flush-mounting frame

Dimensions H x W x D (in mm): 361 x 569 x 14.5  
Art. no. 04833

|       |                |                            |  |
|-------|----------------|----------------------------|--|
| Black | Art. no. 04813 | UP-Touch Panel 4.0 CAP 215 |  |
| White | Art. no. 04818 | UP-Touch Panel 4.0 CAP 215 |  |



# TOUCH PANELS AP-Touch Panel

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## AP-Touch Panel FT 12", 15", 19"

Thanks to their VESA brackets, the panels can be quickly mounted and are immediately ready for use. The rugged, stainless steel enclosure offers IP 65 degree of protection. Despite this, it is only 6 cm deep. The device is fanless and equipped with a TFT LCD screen. It is intended for use in warehouses, builders' merchants and industrial buildings. The uncomplicated Windows® 7 Professional operating system is preinstalled in an SSD drive.

## AP-Touch Panel PC wide 15.6", 18.5", 21.5"

These panels catch the eye with their high-grade piano-black finish. The touch surface covers the full width and is held in a solid aluminium chassis. At just 48 mm deep, they are ultra-low profile. The narrow white (or black) outline is barely visible on the wall. Despite this, the touch screen offers IP 65 protection. The display is a wide-screen LED LCD. The touch panel is designed as a True Flat projected capacitive device and is therefore suitable for gesture control. An Intel® Dual Core is used as the processor. Applications include reception, sales rooms, hospitals, but also the SmartHome.

# TOUCH PANELS AP-Touch Panel FT



## Visualisation client for EIBPORT

- Flat panel PC with resistive touch surface
- TFT colour LCD
- Dimensions (W x H x D) in mm:
  - 331 x 265 x 55 (12")
  - 386 x 308 x 60 (15")
  - 449 x 374 x 60 (19")
- Resolution: 1024 x 768 (12"/15")/ 1280 x 1024 (19")
- Backlighting (in cd/m2):
  - 370 (12")/ 350 (15") / 300 (19")
- Processor: Intel® Dual Core
- Hard disc: SSD
- Main memory: 2 GB
- Ports:
  - 1 x RJ-45 10/100/1000 Base-T Ethernet port
  - 1 x mic-in, 1 x line-out
  - 4 x USB port
  - 4 x COM port RJ 45 (RS-232 x 3, RS-232/485 x 1)
  - 1 x parallel port
  - 1 x PCI express, 1 x mini-PCI
  - 1 x 2.5" HDD bay
- Speakers:
  - 1 x 3 Watt (12")
  - 2 x 3 Watt (15"/19")
- Power supply: 19 V DC (included in scope of delivery)
- Operating system: Windows® 7 Professional DE
- Additional software: CONTROL T preinstalled
- Front: Stainless steel
- Optional: Bracket: 100 x 100 mm VESA Standard

|     |                |                              |  |
|-----|----------------|------------------------------|--|
| 12" | Art. no. 04622 | AP-Touch Panel FT            |  |
| 15" | Art. no. 04625 | AP-Touch Panel FT            |  |
| 19" | Art. no. 04629 | AP-Touch Panel FT            |  |
|     | Art. no. 04620 | AP-Touch Panel FT Wall mount |  |

# TOUCH PANELS AP-Touch Panel PC wide



## Visualisation client for EIBPORT

- Extremely flat panel PC with True Flat projected capacitive Multi Touch
- TFT colour LCD
- Dimensions (W x H x D) in mm:  
396 x 245 x 48 / 464 x 284 x 48 / 536 x 328 x 48
- Resolution: 1366 x 768 / 1920 x 1080 (21.5")
- Backlighting (in cd/m2): 250 cd/m2
- Processor: Intel® Dual Core
- Hard disc: 160 GB HDD
- Main memory: 2 GB
- Ports:
  - 1 x RJ-45 10/100/1000 Base-T Ethernet port
  - 1 x mic-in, 1 x line-out (15.6"/18.5"),
  - 1 x line-in, 1 x line-out (21.5")
- 4 x USB port
- 4 x COM port RJ 45 (RS-232 x 3, RS-232/485 x 1)
- 1 x parallel port, 1 x PCI express, 1 x mini-PCI
- 1 x 2.5" HDD bay
- Speakers: 2 x 3 Watt
- Camera: 2 MP webcam
- Power supply: 19 V DC (included in scope of delivery)
- Fan: Fanless (15.6"/18.5"), low-noise fan (21.5")
- Operating system: Windows® 7 Professional DE
- Additional software: CONTROL T preinstalled
- Front: Glass, optionally with black or white housing
- Optional: Bracket: 75 x 75 mm VESA Standard

|       |                |                 |                                   |  |
|-------|----------------|-----------------|-----------------------------------|--|
| 15.6" | White          | Art.-Nr. 04635w | AP-Touch Panel PC wide            |  |
| 15.6" | Black          | Art.-Nr. 04635s | AP-Touch Panel PC wide            |  |
| 18.5" | White          | Art. no. 4639w  | AP-Touch Panel PC wide            |  |
| 18.5" | Black          | Art. no. 04639s | AP-Touch Panel PC wide            |  |
| 21.5" | White          | Art. no. 04641w | AP-Touch Panel PC wide            |  |
| 21.5" | Black          | Art. no. 04641s | AP-Touch Panel PC wide            |  |
|       | Art.-Nr. 04640 |                 | AP-Touch Panel PC wide Wall mount |  |



# CONNECT B iPad wall frame

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## BASALTE EVE WALL FRAME FOR iPad®

There are many mounting systems for the iPad available on the market; some are practical and simple, others are well designed. The EVE iPad wall frame from Basalte gives you both.

EVE complements the design of the iPad without concealing it. The EVE installation kit consists of two parts: the actual frame and the front border. The iPad attached magnetically to the frame. The charging connector of the iPad is hidden by the front border and is available either with sharp or rounded corners. Versions are also available with an integral anti-theft device.

The EVE frame is simply mounted on the wall. The complete product line is only 3 mm (0.12") deeper than the iPad itself. It enables permanent attachment of the iPad to the wall, turning the iPad into a wall-mounted touchscreen.

EVE can be used in combination with the Apple iPad charger or the Basalte "Puck" USB 12-24 V charger. No unsightly cables or connections are visible.

The colour options are matt brushed aluminium, brushed black and satin white for both the frame and the front border. A special version is also available with a polished aluminium frame and a front border in nickel.

The front border can be combined with a frame of any colour.

[www.connectb.de](http://www.connectb.de)

# CONNECT B Multimedia accessory

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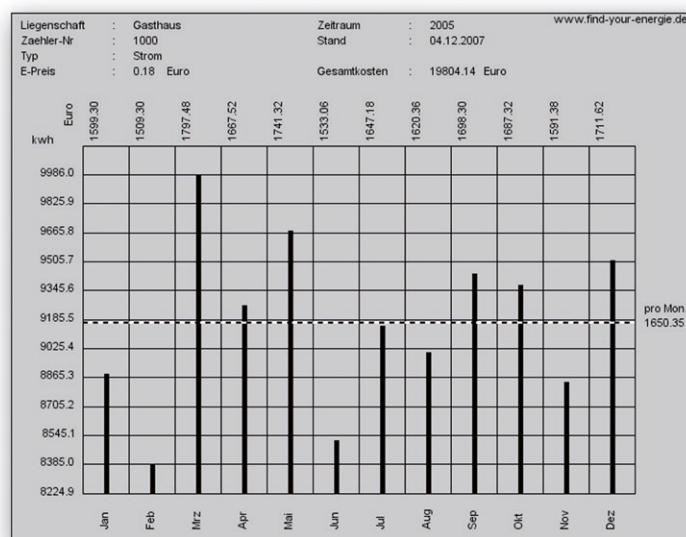
## MULTIMEDIA ACCESSORIES

EIBPORT enables devices from the IP world to be integrated into the visualisation and control. In this way, a multi-room solution which leaves nothing to be desired can be set up with a few simple operations using the Sonos multi-room system. The Synology® disc station provides a noiseless, low-energy audio and video server. The necessary software is preinstalled on the devices.

The network cameras that can be directly integrated into the visualisation ensure that you always have the latest information for greater security. You can purchase these and other devices directly from our Online Shop (connect b GmbH). Register today at:

[www.connectb.de](http://www.connectb.de)

# FIND YOUR ENERGY



## INTERNET PORTAL FOR THE COLLECTION OF DATA

- Recording of meter data
- Recording of values (temperature, humidity ...)
- Transparency of consumption data
- Data available at all times
- Intuitive operation
- Graphical presentation of consumption data
- Weekly CSV data extract for licence holders

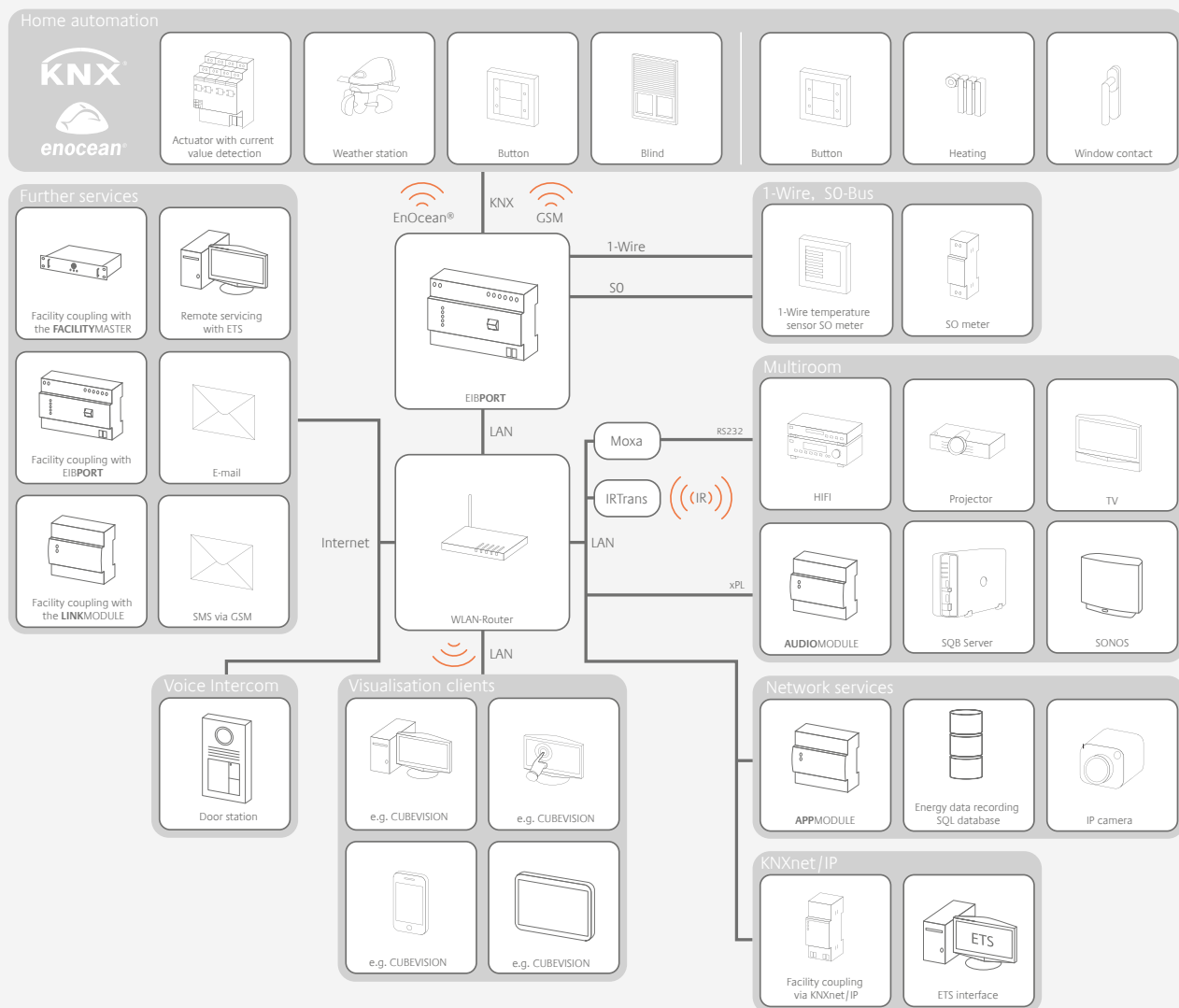
For further information, visit: [www.find-your-energie.de](http://www.find-your-energie.de)



## EIBPORT –

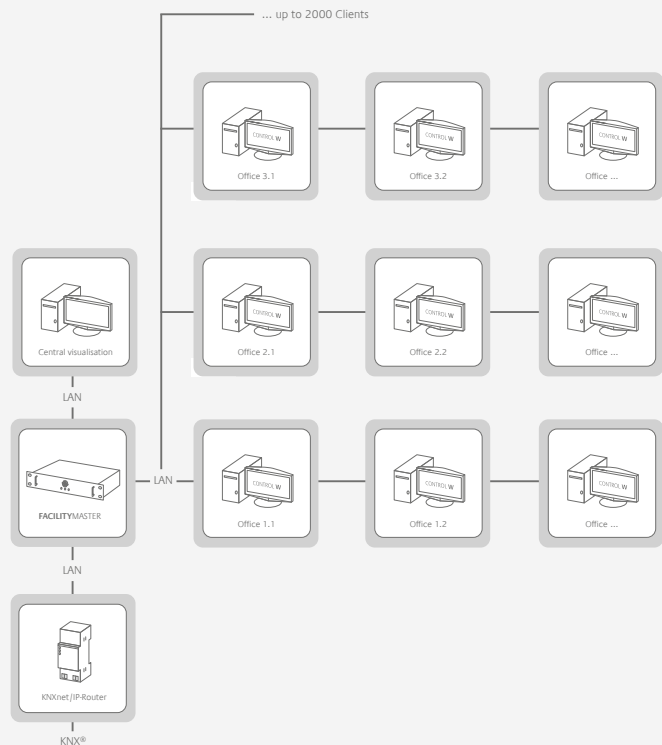
### OVERVIEW OF FUNCTIONS

The use of the EIBPORT considerably expands the KNX®/EnOcean® automation. The connection to the Ethernet network makes numerous further applications possible. The use of IR-Trans enables any consumer electronics devices to be included in the building control system. For example, when the conference room is darkened, the beamer is automatically switched on. For even more convenient multi-room functionality, Sonos® components or the brand new **AUDIOMODULE** can now be operated via the KNX®/EnOcean® button. The KNX® bus energy data analysis can be transferred via the Ethernet to high-volume storage for energy data analysis and then be evaluated. Any operator clients, such as smart-phones and tablet PCs, can access the KNX®/EnOcean® nodes and control them. CUBEVISION (patent applied for) allows uniform, consistent operation on the respective interface. If desired, an e-mail or text message is sent in the event of a fault. The network camera provides an insight into what is happening on-site. Cost-efficient commissioning and fast support are possible via the Internet by means of remote servicing. With the aid of the Intranet or Internet it is also possible to link several buildings and integrate them into a central “facility management”.



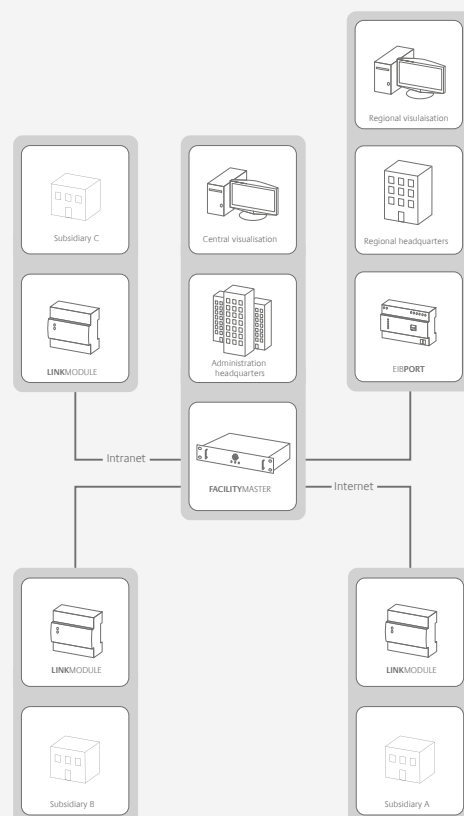
## FACILITYMASTER – USE IN COMMERCIAL PROPERTY

The **FACILITYMASTER** is installed centrally in the network and manages the Control **W** visualisations of all connected clients (up to 2000 units). The high-performance hardware reliably performs up to 2000 services. Central visualisation that depicts the global system status is also available. **FACILITYMASTER** is connected to KNX® via the network and KNXnet/IP.



## FACILITYMASTER – CONNECTING PROPERTIES

The **FACILITYMASTER** is located at the company's headquarters as a central manager. The properties are connected using communication technology via the Internet or the Intranet. Thanks to encrypted Unicast communication, data transfer is secure and can be established without any additional measures. For larger properties where in-house services and visualisation are demanded, the **EIBPORT** is used as a coupler. The **LINKMODULE** is used for smaller properties (e.g. warehouses, etc.).

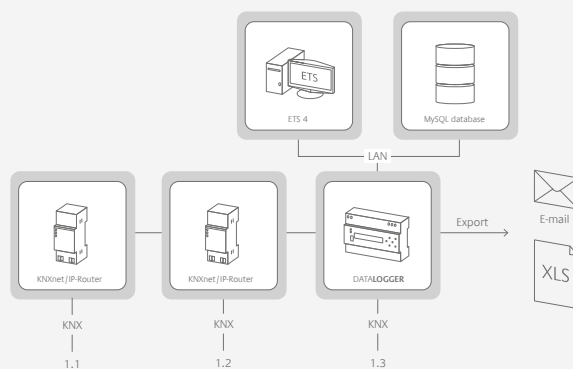


# EXAMPLES **DATALOGGER**

## DATALOGGER

### AS IP ROUTER

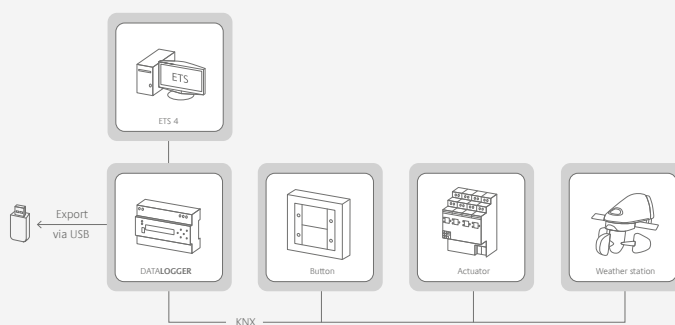
Equipped with a fully-fledged KNXnet/IP server, the **DATALOGGER** serves as an IP router at the same time. It collects the data via KNXnet/IP routing and from its line and stores it on an external MySQL server. The required data is exported automatically on a daily, weekly or monthly basis in XLS or CSV format. At the same time, the datalogger is also the programming interface for the ETS, thanks to KNXnet/IP tunnelling.



## DATALOGGER

### AS KNX/TP NODE

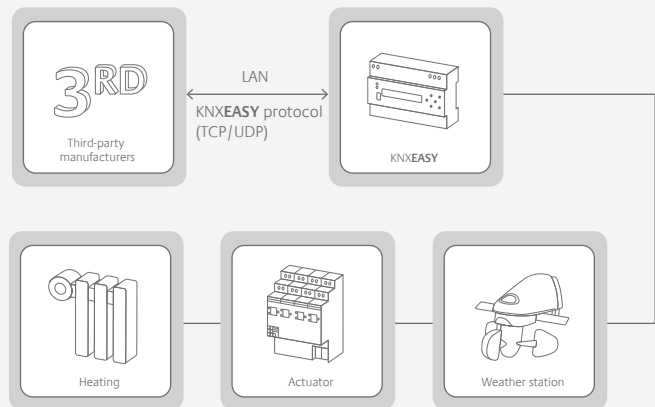
Connected to the twisted pair bus, the datalogger records all required KNX® telegrams and saves them in its internal MySQL database. The data is exported to a USB stick in CSV or XLS format. It is not necessary to access the Web interface for export – this is initiated simply by using the keys and the LCD on the device. Due to its function as a KNXnet/IP server, the datalogger also serves as an interface to the KNX® bus for the ETS.



## KNXEASY –

### KNX/TP

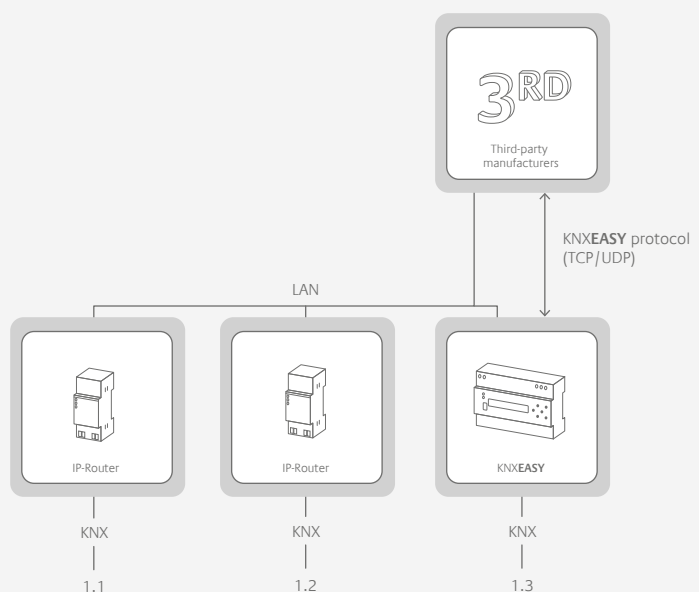
KNXEASY is connected to the twisted pair bus as an additional KNX node. The third-party application communicates bidirectionally via the network (TCP or UDP) with KNXEASY once the KNXEASY protocol has been implemented. This grants the third-party application full access to the KNX system and vice-versa.



## KNXEASY –

### KNXNET/IP

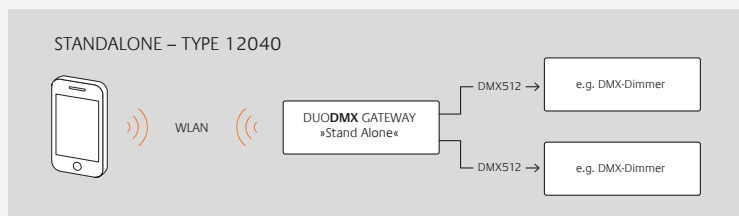
In larger installations, the KNXEASY replaces an IP router with the integrated KNXnet/IP server. Using the KNXEASY protocol, party applications are connected bidirectionally to the entire system. This combines the advantages of both worlds with just a little extra effort.



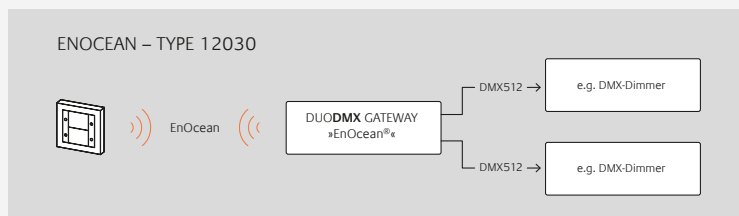
# EXAMPLES DUODMX GATEWAY

## THE DUODMX GATEWAY IN USE

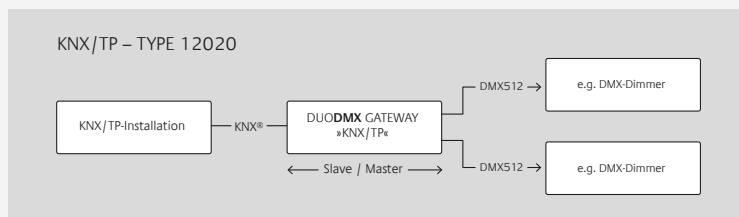
The smartphone and the DUODMX GATEWAY log on to the local WLAN router. The smartphone application sends the control command to the gateway via WLAN. The control command is forwarded to the DMX dimmers.



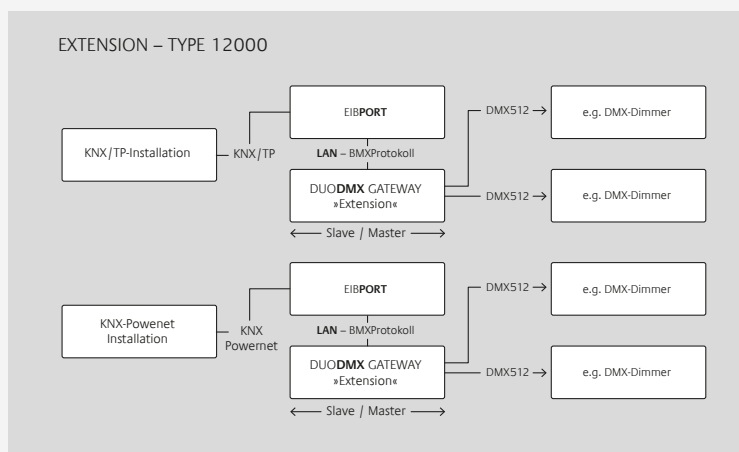
The DUODMX GATEWAY receives the control command via "EnOcean® wireless". The EnOcean® signals are converted into DMX packets and forwarded to the DMX dimmers.



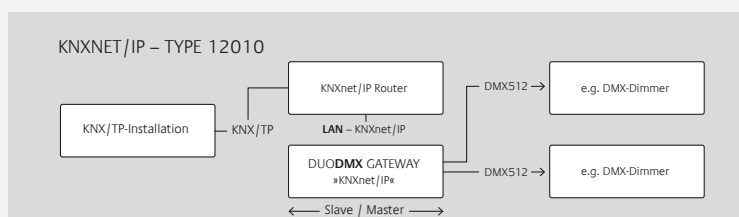
The DUODMX GATEWAY is connected to the KNX® bus (twisted pair) by means of a screw-type terminal. It therefore receives its commands directly via the KNX® bus and forwards them to the DMX dimmers as transformed DMX packages.



As an extension, the DUODMX GATEWAY receives the control commands from the EIBPORT via the BMX protocol. As a result, the DMX packages for the dimmers are triggered. Operating in Slave mode the data received on the DMX-side will be transferred to the KNX/TP | Extension | KNXnet/IP installation.



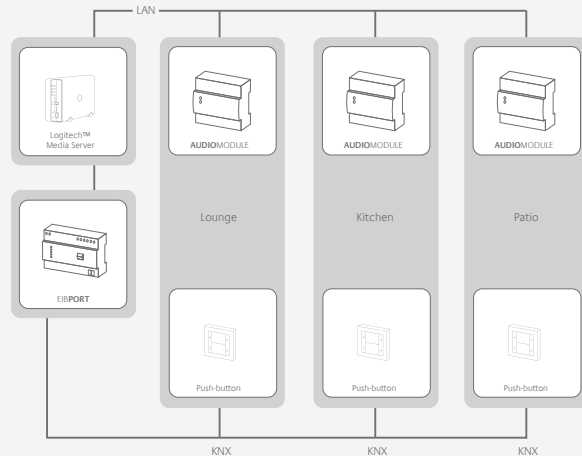
In this variant, the DUODMX GATEWAY receives its control commands via KNXnet / IP routing. As a result, the DMX packages for the dimmers are triggered.



## AUDIOMODULE

### AS CLIENT

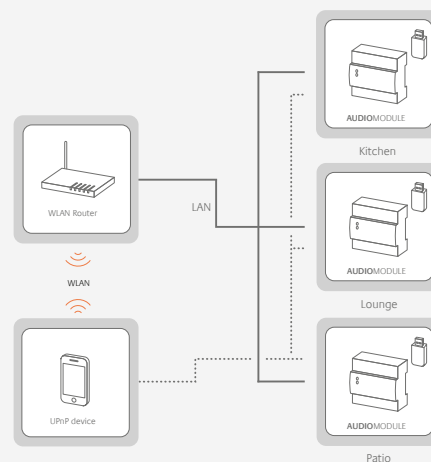
The **AUDIOMODULE** works as a squeeze slave (client) and automatically logs on to the Logitech™ media server. The server transfers the music from its hard disk to the modules via the network. Control can take place via the visualisation of the **EIBPORT** or via **KNX®** or **EnOcean®** sensors.



## AUDIOMODULE

### STAND ALONE

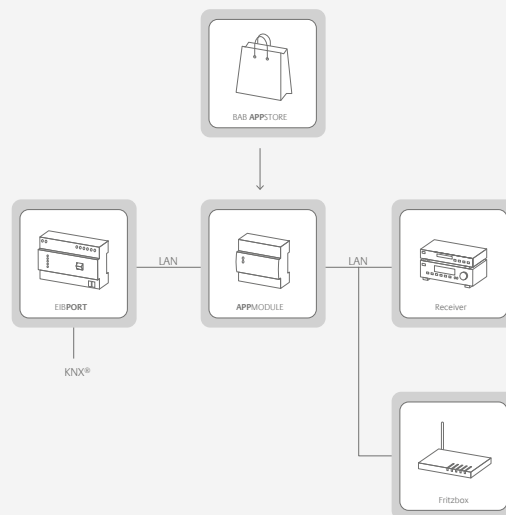
The **AUDIOMODULE** works as a Logitech™ media server. The music is stored on a locally connected USB stick or is available on the network. Any smartphone or tablet with the UPnP application can control the music transfer from its source to the **AUDIOMODULE**. Depending on the application, the music can also be played from the smartphone.



# EXAMPLES **APPMODULE**

## **APPMODULE**

Using the APPs from the BAB **APPSTORE**, third-party applications can easily be integrated into the control system. Simply download the APP and load it to the **APPMODULE**.



## **APPMODULE** –

### CREATING AND MARKETING APPS

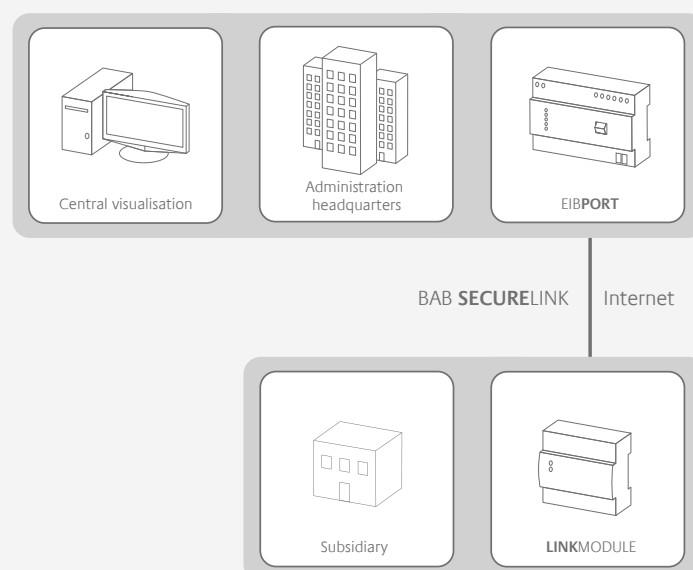
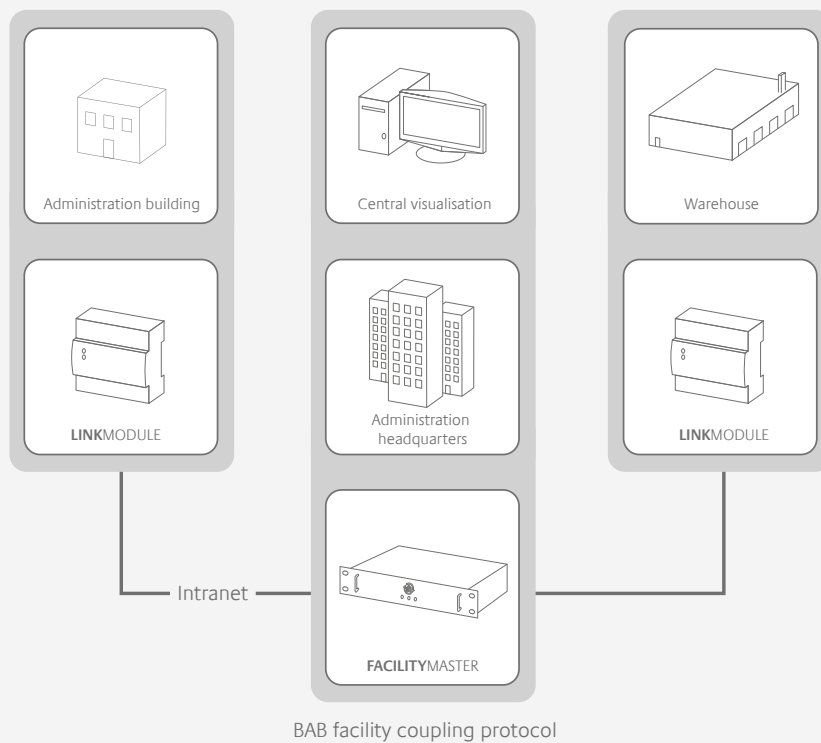
Users with programming skills use the software developer kit (SDK) to create their own APPs. If desired, these APPs can be marketed in the BAB **APPSTORE**. Simply send the APP to BAB Technologie, stipulate the price, and we will put the application into the BAB **APPSTORE**.



## LINKMODULE

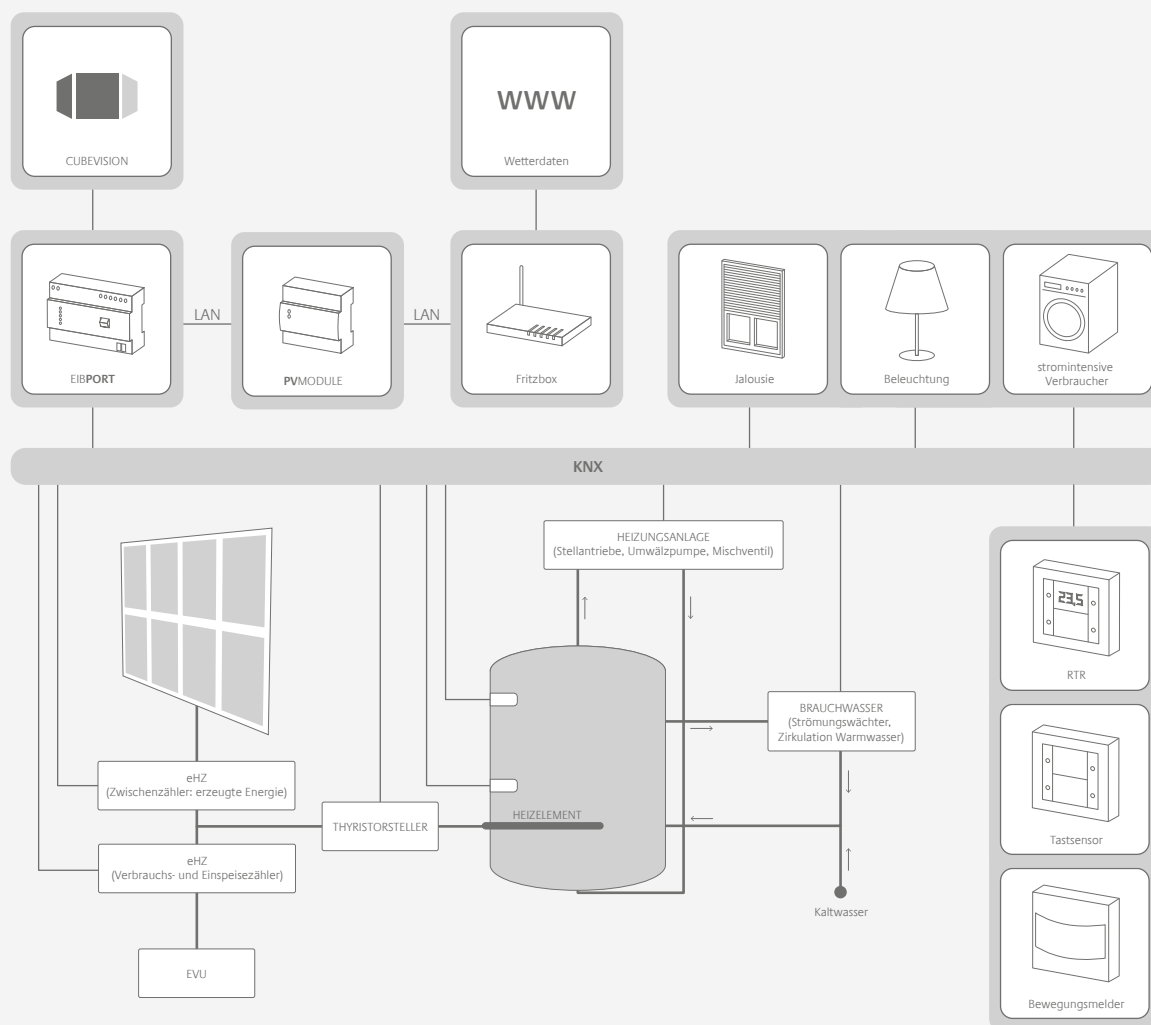
### AS FACILITY COUPLER

The conventional BAB facility coupling protocol is suitable for facility coupling on the Intranet.  
A secure connection is established via the Internet using BAB **SECURELINK**.



# EXAMPLES **PV**MODULE

## PVMODULE



The **PV**MODULE, in combination with the **EIBPORT**, is capable of assuming control of a photovoltaic (PV) system within a KNX bus system. The functional method is simple: The system uses the surplus PV energy that is normally fed back into the power grid to heat your building. To do this, the currently available output of the PV generator is determined and converted directly into heat by means of a thyristor controller and the heating element. The heat store is monitored by means of temperature sensors so that the energy feed can be shut off when a preset limit is reached. The **PV**MODULE assumes the complete regulati-

on of the thermal energy recovery. It takes into consideration the demand and the environmental conditions, such as summer or winter operation, standby mode, automatic lowering of night-time temperature etc. It can be used for controlling the provision of domestic hot water or to supplement the heating system. The **PV**MODULE can also be integrated into existing structures, thereby helping to improve your own energy consumption and reduce heating bills. In interaction with the **EIBPORT**, consumption and yield graphs can clearly be displayed.



*everywhere at home*





**b.a.b-technologie GmbH**

Inhouse Dortmund  
Rosemeyerstraße 14  
44139 Dortmund  
Germany

**Phone:** +49 231 476425-30

**Fax:** +49 231 476425-59

**E-mail:** [info@bab-tec.de](mailto:info@bab-tec.de)

**Internet:** [www.bab-tec.de](http://www.bab-tec.de)