



Smart home and building solutions.
Global. Secure. Connected.

JOURNAL 2024



First KNX IoT devices are out now
The evolving landscape of ETS6 in 2024
New KNX Security Check Tool
KNX Hackathon demonstrates sustainability

ETS6 ONE TOOL. ALL YOU NEED.



ETS6 is the only tool available able to integrate 8000+ products offered by +500 manufacturers in the world of Smart Homes and Buildings.

Plan, design, and commission all in one tool. Save time by easy programming with the new ETS Professional. Open to integrate all possible applications in one solution, ready for IoT.

Why should you get or upgrade to ETS6 for your smart home and building projects?

- ✓ Innovative User Interface: ETS6 introduces an interface that has been developed specifically for more efficient and intuitive operation.
- ✓ Time-Saving Tools: The new breadcrumb navigation and improved workflows make your work easier and faster.
- ✓ Improved Overview: The new “Groups” container in the sidebar provides a better overview and facilitates the management of complex projects.
- ✓ Personalised workbench: Design your working environment individually with the panel selector.
- ✓ Higher Quality and Stability: Benefit from extensive improvements in quality and stability, making your work more efficient and reliable.

Which version is right for you?

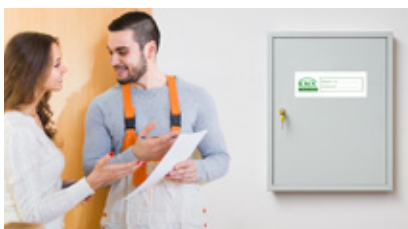
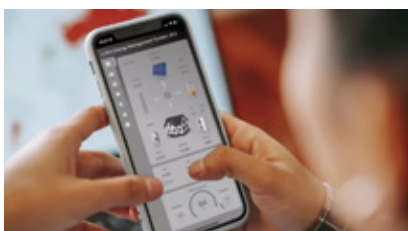
ETS Lite if you have up to 20 devices.

ETS Home if you only have 1 project with up to 64 devices.

ETS Professional, for full flexibility.

Visit store at: <https://my.knx.org>

INDEX



EDITORIAL

KNX - One for All	3
-------------------	---

IN THE SPOTLIGHT

First KNX IoT devices are out now!	4
KNX wins Global Technology Innovation Leadership Award	6
KNX still on top in the smart home industry	7
What are end-customers looking for in a KNX smart home?	8

PROJECTS

KNX Hackathon finalists demonstrate sustainability	10
Developing an AI-assisted smart energy manager	12

SYSTEM AND TOOLS

The evolving landscape of ETS6 in 2024	14
New online KNX security check tool	19
All-in-one KNX toolkit for professionals	20

NEW PRODUCTS

22

COMMUNITY

New KNX Members	40
New KNX Professionals / Userclubs	42
New KNX Training Centres	44
New KNX Scientific Partners	45
The future of education: KNX NextGen	46
KNX National Groups	48

FAIRS & EVENTS

Upcoming events	50
-----------------	----

WEBINARS & VIDEOS

52

Switch design:
Busch-art linear®



The latest generation of
smart sensor technology
ABB Trevion®

A touch of perfection

Design and functionality have never been so in sync! ABB Trevion®'s display and control elements match many of our switch design ranges. With its innovative swipe - and rotation functions, animated light guide, and customizable display and control elements, it adds a touch of perfection to any home! solutions.abb/trevion

Let's write the future. Together.



KNX — One for All

**“Everyone works
together towards the goal.
All for one - KNX”.**

The logician, mathematician, cryptanalyst and computer scientist Alan Mathison Turing (1912-1954), who laid the foundations for modern information and computer technology, is considered one of the most influential theorists of early computer science. He became famous for the so-called Turing machine and the Turing test, which is still used today to test the existence of artificial intelligence (AI). In the past year, AI has become a veritable hype.

Intelligence, including artificial intelligence, is defined as a characteristic that enables it to act appropriately and proactively in its environment with the ability to process and react to information, solve problems and achieve predefined goals.

In this sense, KNX is the technology that can set up an intelligent system with KNX IoT as a sustainable solution for smart homes and smart buildings.

Moreover, KNX is the connecting element between other intelligent systems in order to realise goals that go beyond smart homes and buildings. These include high functionality, sustainability, security, interoperability and reliability.

We have more than 30 years of experience with smart home and smart building technology, in interaction with other, independent systems, each with their own structures, functions and dynamics. For example, energy management and eStorage with KNX IoT technology form a system that reacts proactively and appropriately to its environment - in the true sense of technological intelligence.

The eStorage system in combination with photovoltaics and communication via KNX enables intelligent, economical charging. Heat pumps and integration into the smart grid via smart metering and KNX are

the key for safety and sustainability. Without KNX IoT technology, all of this would remain incomplete. We are ready for the All - Electric - Society.

We pass every Turing test.

Being recognised with the Technology Innovation Leadership Award 2023 is just the logical consequence.

KNX IoT combines different technologies and systems to create intelligent solutions. Meaningful, flexible, targeted and future-orientated communication is what intelligence is all about.

Everyone works together towards the goal.

All for one - KNX.



Heinz Lux
CEO, KNX Association

The KNX universe is expanding: first KNX IoT devices are out now!



Interest in KNX IoT is growing among manufacturers and developers, while THREAD-partnership opens new opportunities.

With the very first KNX IoT devices introduced and the latest system components already in use, KNX IoT has reached the next milestone and gained momentum in shaping the world of the Internet of Things (IoT). Several manufacturers and developers around the globe have already joined the KNX community to create the most efficient, secure and innovative IoT solutions and products for the home and building automation market, making KNX the largest development landscape of its kind. The most recent are HPE Aruba Instant On and Nordic Semiconductor ASA, which recently became KNX members. Moreover, endless new opportunities are arising thanks to the strong partnership between KNX and THREAD.

Interoperability and security at the highest level

The launch of KNX IoTech was a ground-breaking development that combines all the key benefits of KNX IoT – such as IPv6-supported interoperability at the highest level, the newest physical/network layers demanded by the market and the highest security embedded by design. From development to manufacturing to integration, it provides all the necessary resources for all stages of a product lifecycle and enables manufacturers to build the best IoT devices, solutions and services for every conceivable use case in smart homes and buildings. With the ETS Tool you can easily integrate and configure all available KNX devices and solutions into any KNX IoT project, regardless of their manufacturer or physical layer, via a modern user interface.

Next milestone reached!

While system components for KNX IoT are already in use and have been a very significant contribution to its success, the recent market launch of the first KNX IoT devices marks a new milestone in the evolution of the pioneering KNX technology. Several prestigious KNX Members are already offering KNX IoT devices, like Siemens (Room Sensors), Passiv Energie (Heating Recovery Ventilation system), Cascoda (Chili2 SMARTRange). With the IoT update of the certification procedure and testing tools, more products and solutions from different manufacturers sure to follow and expand the KNX IoT portfolio. An overview of all available currently KNX IoT products can be found in our new KNX IoT Devices flyer.

Endless opportunities and growing interest

All these new devices have one thing in common: they use THREAD. This new and popular IPv6 communication network was added to the KNX development landscape, which also includes TP and RF. The strong partnership between KNX and THREAD leads to endless opportunities for the development of new KNX IoT solutions. This kind of continuous technological advancement of the KNX IoT technology makes it more and more interesting and well-known among manufacturers. With HPE Aruba Instant On and Nordic Semiconductor ASA, KNX proudly welcomes two new KNX members that are set on enriching the IoT landscape with their own KNX IoT devices. For more information about KNX IoT, the newest KNX IoT devices and solutions, you can consult our new KNX IoT devices brochure by scanning the QR code.

GIRA

Smart Home.
Smart Building.
Smart Life.

partner.gira.com

Integrating charging stations the smart way.



With the Gira Eco, you can easily integrate up to five charging stations into your Smart Home, regardless of the manufacturer. ETS configuration makes start-up reliable and reproducible to enable planning, and dynamic or static load management prevents your home connection from being overloaded.

Gira / **Smart Energy**

Frost & Sullivan grants KNX the 2023 Global Technology Innovation Leadership Award



KNX is recognised for its superior and revolutionary Smart Home and Building Technology by world-renowned organisation

Frost & Sullivan has been world-renowned for its role in helping investors, corporate leaders, and governments navigate economic changes and identify disruptive technologies, Mega Trends, new business models, and companies to action, resulting in a continuous flow of growth opportunities to drive future success. Frost & Sullivan recently researched the smart home and buildings communication protocol industry and, based on its findings, recognizes KNX with the 2023 Global Technology Innovation Leadership Award. KNX delivers advanced solutions for smart homes and buildings, leveraging an open and globally recognized standard that ensures seamless interoperability and compatibility between products from different manufacturers.

KNX, a global technology innovation leader

Each year, Frost & Sullivan presents the Global Technology Innovation Leadership Award to the company that has developed a product with innovative features and functionality that is gaining rapid acceptance in the market. The award recognizes the quality of the solution and the customer value enhancements it enables. "Receiving this Award from such a highly regarded firm is a great honour. It is yet another confirmation of the reliability and long-standing innovative spirit KNX is known for. KNX Association and its KNX Members will always thrive to be one step ahead of the latest trends in smart home and building technology," explains Franz Kammerl, President of KNX Association.

"KNX's dedication to open standards and interoperability sets it apart from proprietary systems, fostering a strong community of developers and manufacturers and contributing to its growth and adaptability. The organization's focus on international standardization enables it to maintain a global presence in the smart home and building industry, catering to diverse markets such as architecture, planning, construc-

tion, electrical installations, homes, buildings, offices, eCommerce, and manufacturing," said Mia Martinez-Palacios, best practices research analyst at Frost & Sullivan.

Revolutionising Automation: KNX's Impact on Smart Homes and IoT

With its customer-oriented strategy, KNX brings the latest technology to the market with a portfolio of over 8,000 certified KNX devices. By embracing emerging technologies such as Internet of Things (IoT) KNX has already released the KNX IoT technology used by its members in their newest KNX IoT devices, the company enables customers to rapidly adopt cutting-edge innovations with a wide range of benefits, including future-proof solutions, endless customization, excellent energy efficiency, and high comfort levels.

Furthermore, KNX is deeply committed to driving innovation by constantly exploring new ways to enhance the functionality and usability of its home and building automation products. As a result, the company's creativity and forward-thinking approach have positioned KNX as a major player in the ever-evolving field of smart homes and buildings, earning it Frost & Sullivan's 2023 Global Technology Innovation Leadership Award.

"From commercial buildings, educational institutions, and healthcare facilities to residential spaces, KNX's technology showcases its ability to optimize energy usage, enhance occupant comfort, and promote sustainability. Whether implementing smart lighting, HVAC controls, security systems, or intelligent energy management, the KNX standard meets the diverse needs of different building types and sizes," noted Viswesh Vancheeshwar, industry principal at Frost & Sullivan.

The complete writeup from Frost & Sullivan on why KNX was recognised with the Global Technology Leadership Innovation Award can be found here:

<https://www.frost.com/wp-content/uploads/2023/11/KNX-Award-Writeup.pdf>

HiddenWires Survey: KNX holds its top position in the fast-evolving smart home industry



In the dynamic and rapidly evolving world of smart home technology, KNX continues to stand out as the preferred standard for home and building automation. The latest industry survey conducted by HiddenWires, which compared data from 2021 and 2023, underscores the sustained growth and changing preferences in the smart home industry, reaffirming KNX's dominant position. According to the survey, KNX is included in smart home projects by 63% of all industry professionals surveyed. The 2023 HiddenWires survey, which gathered insights from 5000 professionals, mainly European, with notable participation from other regions, indicating a diverse and global reach of the smart home market.

KNX: still on top in Smart Home Automation

Just like in the 2021 survey, KNX has maintained its top position both in terms of awareness and practical application. The 2023 survey indicates a notable increase in the use of KNX, further solidifying its status as the industry standard. The continued preference for KNX by 63% of the integrators and installers, who form the backbone of the industry, underscores its reliability and interoperability. KNX is used significantly more frequently than even Wi-Fi (52%) or Bluetooth (30%) in the automation of homes and buildings, and three times more often than technologies from direct competitors.

KNX Energy Management, the perfect fit to the Evolving Preferences of customers

Lighting is still considered as the primary smart home application (71%), followed closely by temperature control (64%) and blinds (52%). This is closely followed by an increased interest in home energy management, with now 50% of the smart home projects having automated energy management functions. KNX fits perfectly in this evolving landscape with needs for a sustainable technology, offering energy management solutions and increasing energy efficiency through smart automation.

An increased enthusiasm for Smart Homes

The survey reveals a remarkable increase in interest in smart homes, with almost half of the respondents noting that interest had doubled over the past five years. This rising interest from homeowners, combined with the dominant use of KNX technology by professionals, foreshadows a further expansion of KNX smart homes in the coming years.

Conclusion: A Resilient and Forward-Looking Industry

The smart home industry, led by KNX, demonstrates resilience and adaptability, even during times of economic uncertainties. Homeowners are looking for automation solutions that link all aspects of their homes to facilitate a simpler, smart living experience while also saving energy and KNX meets these requirements ideally. KNX remains the top choice for professionals as an innovative, secure and sustainable technology - providing standardised and interoperable solutions for an ever-growing and changing market.

You can find the HiddenWires survey report here: <https://www.hiddenwires.co.uk/news/article/sharp-insights-into-smart-homes>

What are end-customers looking for in a smart home with KNX?

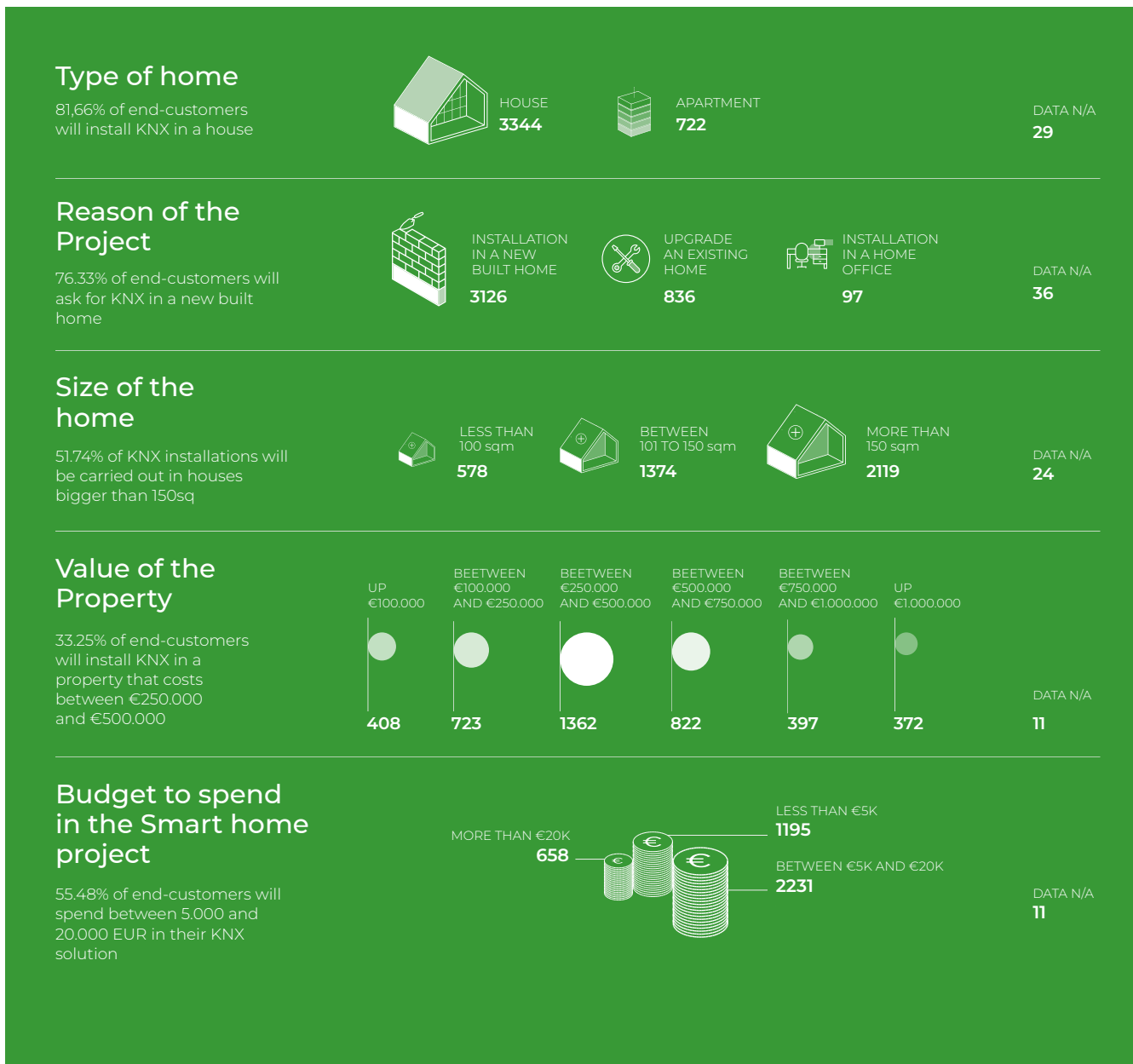
Keeping a finger on the pulse of the market is an important part of any trade association's activities, so it's good to know that KNX Association has been doing just that. Via its KNX Planning Guide online tool that is aimed at helping end-customers to work out their requirements and priorities, KNX Association has made a study of over 4000 people, and gathered some interesting market data.

The real estate

Based on 4095 responses during 2023, the typical customer owns a new-build house larger than 150sqm that is valued between EUR250k – 500k, and their budget for smart home technology is between EUR5k – 20k. In more detail, nearly 82% own a house rather than apartment, and over 76% are involved in a new build project rather than an upgrade of an existing instal-

lation. Just over 51% of homes were of the larger size, namely more than 150sqm, and of the property value price bands, the most popular (33%) fell in the middle range of EUR250k – 500k. More than half (55%) also had a budget in the middle range of between EUR 5k – 20k.

The infographic below gives further details:

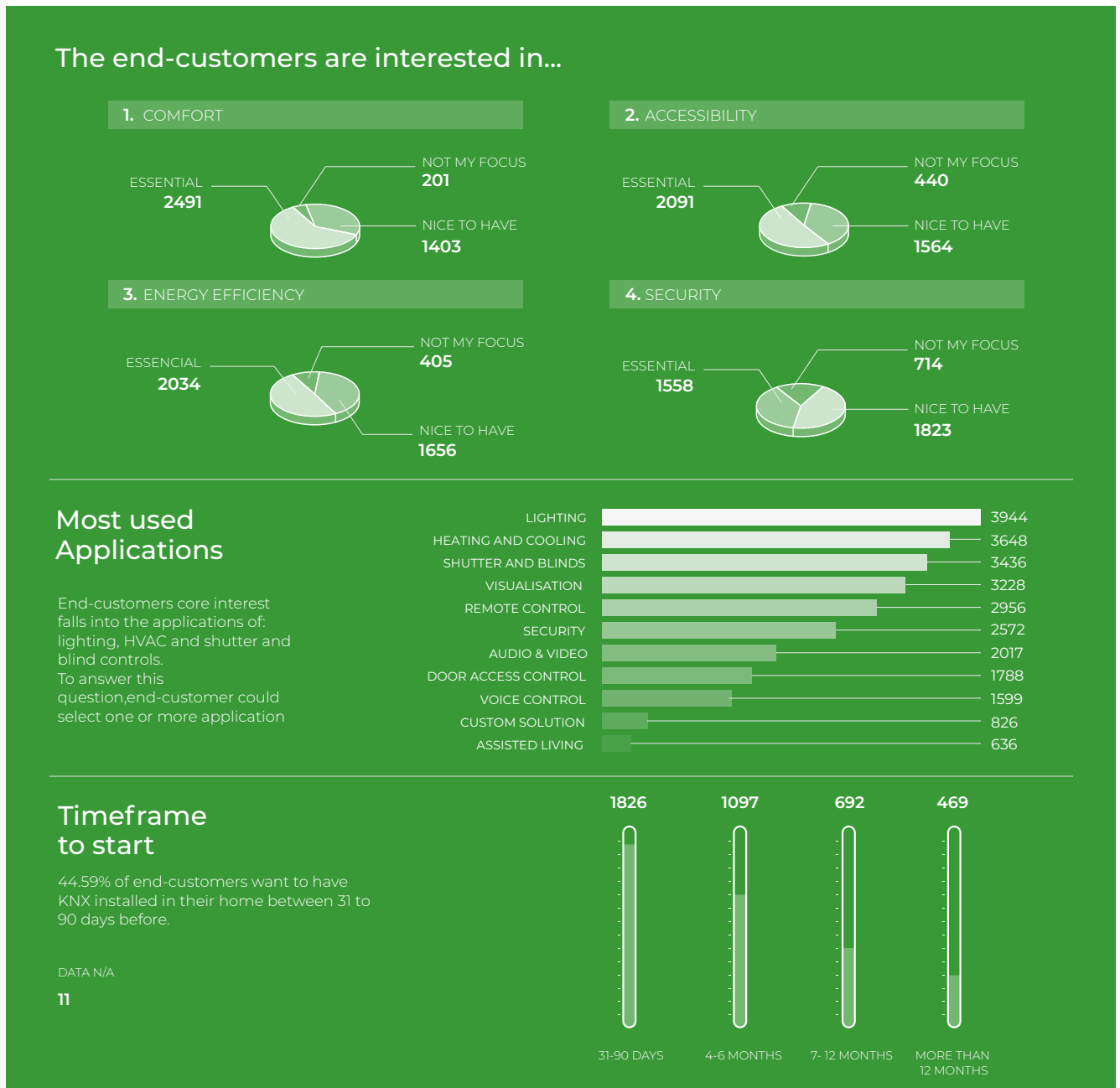


Applications and Interests

The top priority for customers is comfort, followed by accessibility (means of control), energy efficiency and security. The application they are most interested in is lighting, followed by HVAC, shutter and blinds control, visualisation, remote control, security, AV, door access,

voice control, custom solutions and assisted living. The most popular timeframe to get the work started in was within 31 – 90 days.

The infographic below gives further details:



Conclusion

Although this market data only deals with residential projects (including the burgeoning requirement for home offices), it is exciting to know that there are thousands upon thousands of people keen to engage with KNX and get their projects off the ground in the very near future. Perhaps understandably, new-build projects are the

most popular type of project, but there is a lot of interest in retrofitting smart technology too, providing opportunities for KNX TP, RF and IoT solutions. Comfort, control and energy efficiency are up there as clear selling points, with security following close behind. These are all key strengths of KNX, and it's good to know that the message is getting through.

KNX Hackathon finalists demonstrate sustainability with KNX at KNXperience 2023



Climate change is a pressing issue that affects us on a global scale. In a world that is facing increasing environmental challenges and energy crises, KNX technology has the power to be a positive catalyst in achieving a more sustainable world and a reduced carbon footprint. The KNX Community is continuously proving itself to be very competent in using KNX in numerous ways, by carrying out remarkable KNX projects worldwide, and creating innovative KNX solutions and products. By opening applications for the KNX Hackathon, the bright minds of the KNX Community could enter excellent ideas, solutions and products to show proof on how useful KNX can be to achieve increased energy efficiency in homes and buildings. 5 finalists were selected to present their entry at KNXperience 2023. Luc Vercruyssen of CDI projects won the KNX Hackathon with his Luka Energy Manager.

KNX Hackathon winner: Increasing Self-consumption to 90% using KNX and the LUKA Energy Manager

In times of energy shortage, gas plants are fired up causing enormous amount of CO₂ emissions, whilst in times of renewable energy excess, wind and solar farms are shut down in order to avoid grid overload. If energy usage in buildings can be optimised through intelligent systems, we can avoid a huge amount of energy from being wasted and reduce our carbon footprint.

Tangible savings

When using a PV system, annual energy costs can be reduced further by adding a home battery; then further still by using energy management to increase peak shaving; and yet more by using energy management to take full advantage of dynamic tariffs.

Using a KNX installation comprising a charging station, heat pump and home battery, all managed by the CDI-Projects LUKA Energy Manager, CDI Projects could make total savings for an average household of around EUR1000 per year by:

- Increasing self-generated energy usage from 70% to 90%.
- Decreasing peaks in grid usage by 100%.
- Reducing the cost of grid energy usage by 30%.

The advantages of KNX

LUKA connects to the KNX network via a KNX/IP router, and takes advantage of KNX switch actuators and KNX gateways in order to measure energy flows and to control technical installations such as EV chargers, PV arrays, heat pumps, home batteries and other appliances. It also uses web services such as weather forecasts and electricity tariffs to collect all of the information required to optimise energy flows.

Using KNX to communicate with smart home components ensures a future-proof, flexible and reliable system. Indeed, by using standard off-the-shelf KNX interfaces, no software development is necessary to control these devices.

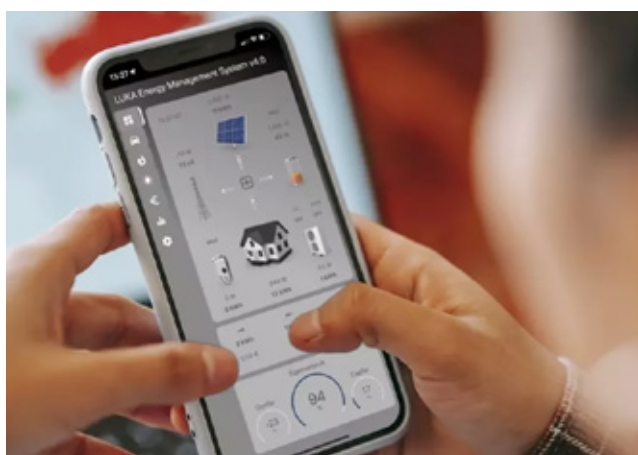
Practical demonstration

A practical KNX installation comprising a Mennekes charging station connected via the ise SMART CONNECT KNX e-charge II gateway was set up; a Daikin heat pump connected via the Zennio KLIC-DA v2 gateway; an AlphaESS home battery connected via the ABB Modbus KNX Gateway; and the LUKA connected via the MDT IP Interface. They showed that significant savings could be made through increasing self-consumption, performing peak shaving, and balancing electricity production and demand by reacting to dynamic (time-of-use) electricity tariffs. Using

KNX to communicate with smart home components ensures a future-proof, flexible and reliable system. Indeed, by using standard off-the-shelf KNX interfaces, no software development is necessary to control these devices.

Conclusion

Through simulations and practical installations that optimise self-generated energy, perform peak shaving, and make the best use of dynamic electricity tariffs, they have proved that a KNX-based energy management system can result in significant energy savings, resulting in reduced costs and carbon footprint. The return on investment is already good, and at scale, would increase even further.



A summary of the finalist entries

xxter Smart Energy Manager by xxter

xxter developed the KNX-based Smart Energy Manager (SEM) that not only monitors energy usage and production, but smart-manages it too. Based on the energy production forecast, which can be automatically predicted with impressive accuracy based on factors such as the weather forecast, dynamic pricing information and the customer's typical needs, the best schedule is created to minimise energy consumption from the grid, thereby reducing costs and the carbon footprint. An example of such scheduling would be to charge an electric car when there is a lot of solar energy available, or when the spot (hourly) electricity prices from the supplier, are low. The xxter SEM can also manage home batteries automatically in order to further improve the efficiency of self-produced energy.

EMergy'nX: Energy Management Merging KNX & IoT for Planetary Emergencies to Reduce CO2 by Can'nX

Can'nX presented a tailored solution using PV panels and storage combined with their Can'nX Emerge'nX

energy optimisation software. Hybrid inverters for PV panel production, combined with energy storage batteries were integrated into the existing KNX installation comprising hot water tanks, HVAC, pool filtration, pool heat pumps and electric vehicle charging stations. The energy optimisation software allows automatic control of major power consumers to be finely tuned, with priority orders chosen by the occupant, all without compromising their comfort. Based on fluctuating energy costs and PV production levels, it finely manages battery charge and discharge cycles and automatic operation of necessary equipment to create energy surplus, thereby minimising usage during periods of high electricity pricing.

Energy Efficiency Through Innovative BA Concept implemented with Eisbaer Software by René Rieck

LOCAL+ is an initiative involving architectural students from Aachen University of Applied Sciences. Its design challenge was to develop a building that produces excess energy through innovative and forward-looking systems: a so-called plus-energy house that is almost self-sufficient. A central hydrogen system, interacting with other components, was specified as the main source of energy, promising up to 65% self-sufficiency. Other components include an underground ice store, PVT collectors and a heat pump. In practice, the hydrogen system was dispensed with due to a short service life, and the ice storage facility was reduced in size due to underground construction constraints. Apart from these site-related limitations, the system was implemented in line with the plans and uses KNX devices connected via KNX IP Secure to the EisBaer Software PV Manager. In this project, EisBaer software provides the overall control solution for all of the services, including the HVAC, water temperature and energy management.

Project Sharlynsland by Lynn Bayer & Sharon Rischard

In 2019, the mission was to create a self-sufficient home. This was a gradual process that involves monitoring and analysing energy usage, integrating smart home technologies and using renewable energy sources such as solar panels. A crucial part of this project was using KNX automation and monitoring systems to improve how energy was used. By continuously exploring and expanding the automation and monitoring capabilities, they have transformed their home into a smart and efficient living space. This journey towards more specific automations and monitoring has empowered them to take greater control of energy usage and sustainability efforts.

Videos on all finalists' projects can be found on the [KNX Association YouTube channel](#).

Energy Management: developing an AI-assisted smart energy manager



Thomas More University of Applied Sciences is the largest university for applied sciences in Flanders, Belgium, and is spread across eight locations. At Campus De Nayer in Sint-Katelijne-Waver, they have courses in Electromechanics, Automotive Technology, Design and Production Technology and Electronics/ICT. Thomas More is a KNX-certified Training Centre as well as a KNX Scientific Partner, and do research and development in different areas including embedded systems, such as KNX. With their AI-assisted smart energy manager, Thomas More University of Applied Sciences won the 2023 KNX Scientific Award.

A few years ago, the Flemish energy distribution operator decided to replace the traditional analogue energy meters with digital meters. Although these meters are called 'smart meters', they only have a communication port that allows for digital retrieval of metering data. Readily-available products to make these meters actually smart and to manage energy flows are almost all monitoring systems that only make consumption visible - they are not true energy management systems. Therefore, there is a need for real energy management systems, complemented by AI, that make these meters truly smart and self-learning. And since energy management requires a good communication system between sensors, actors and controllers, KNX is the obvious technology of choice.

Scope of the project

The ultimate goal is to arrive at an AI Assisted Smart Energy Manager that makes it possible to control as many technologies and devices as possible in a residential environment. This manager should be self-learning and should support the user in achieving rational energy consumption without much worry. The intention is to be able to integrate this in both new and existing situations without the need for many modifications to the installation and without much financial impact. In addition, the project is not limited only to electrical energy flows, because a lot of energy can also be buffered and channelled at the thermal level. Caption - The aasem (AI Assisted Smart Energy Manager) developed by Thomas More University of Applied Sciences.



Design and implementation

For communication with the KNX bus, the design was equipped with a chip developed in Belgium, namely the ONSEMI NCN5130. The KNX stack was therefore developed in-house.

The intention is to be able to visualise and control all applications already present in the home. Examples include the solar inverter, solar water heater, heat pump, smart plugs, and so on, without requiring much additional investment.

They chose to work with custom-made Linux distribution on reliable industrial hardware. For reliability and durability reasons, solutions with Raspberry Pi or Arduino are not the best options. Bare Metal and Docker image were used for robust and dynamic integration, whilst programming is possible via Node Red, data logging is based on Influx, and Grafana is used for visualisation. This allows every conceivable integration.

Advantages of AI

The use of AI allows the home to be made smart without the need for additional programming or human intervention. The hardware on board is AI-ready, which means that there's no Internet connection required for the processing of the AI. Only the weather forecast and the prediction of the power generation of the solar panels require an Internet connection. The AI part is still in development and needs to be tested further, but they are already achieving good results via Node Red.

Test cases

Three test cases were developed. The first concerns a pretty large new nearly-energy-neutral house. Here the PV panels and the heat pump were integrated, as well as a battery for energy storage. In this instance,

the focus is on optimising energy flows and especially on limiting consumption peaks because the tariffing in Flanders partly depends on the capacity tariff.

For the time being, during last September and October together, there was an energy cost saving of about EU370 due to the energy management and increase of self-consumption, and another saving of about EU10 per month due to peak shaving and avoidance of the capacity tariff.

The second test case concerns an older house where PV panels were installed, as well as a wood pellet system for heating and domestic hot water and a battery for energy storage. Control is via the aasem device, combined with the KNX installation. There currently aren't enough figures for this installation to publish what the cost savings are, but they are expected to be impressive over the year.

The third test case concerns the KNX training and research lab, which was equipped with PV panels combined with a 7.5kWh battery and an EV charging station. By controlling it, the lab is self-sufficient.

Besides energy savings and comfortable control, the three test cases provide a mass of data that allows further training and optimisation of the AI.

Conclusion

The result of using the aasem device is very satisfactory both in terms of operation and data capture. The mass of data that was and still will be captured allows the AI part to be optimised even more. The design of the module allows easy integration into a standard distribution board and consumes very little power. In terms of future developments, the Thomas More University of Applied Sciences are thinking of expanding the device even further with KNX RF and implementing the KNX Secure stack.



Caption - The small PCB factory at Thomas More University of Applied Sciences, Campus De Nayer.



Redefining KNX project management: the evolving landscape of ETS6 in 2024

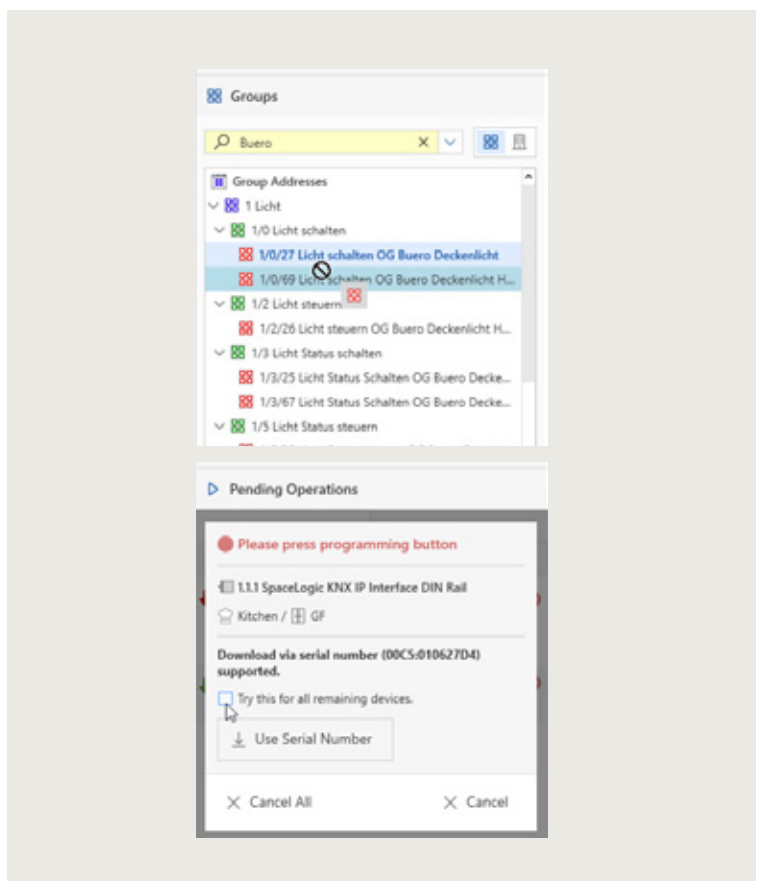
ETS, known for its seamless integration of over 8000 KNX products from more than 500 manufacturers, continues to redefine the landscape of smart home and building automation. ETS6 was released in 2021, and since then, it has been KNX Association's mission to continuously work on further development of new features to make the tool even smarter and easier to use. With the recent release of ETS6.1.1 and the releases of ETS 6.2 and 6.3 in 2024, we take a closer look at some revolutionary new functions that take ETS to the next level.

ETS6.1.1: increased efficiency in assignment and filtering

ETS 6.1.1 saw its release in November 2023 and next to functional improvements, it introduced two new handy features that will save you time while working on your KNX projects:

The Groups Sidebar in ETS6 introduces an enhanced filter function, significantly simplifying the process of linking groups to objects. This feature is particularly beneficial for users working on smaller screens, where managing complex configurations can be challenging. This new feature offers more efficient navigation and organization of groups and objects, making it an essential tool for precise KNX project management.

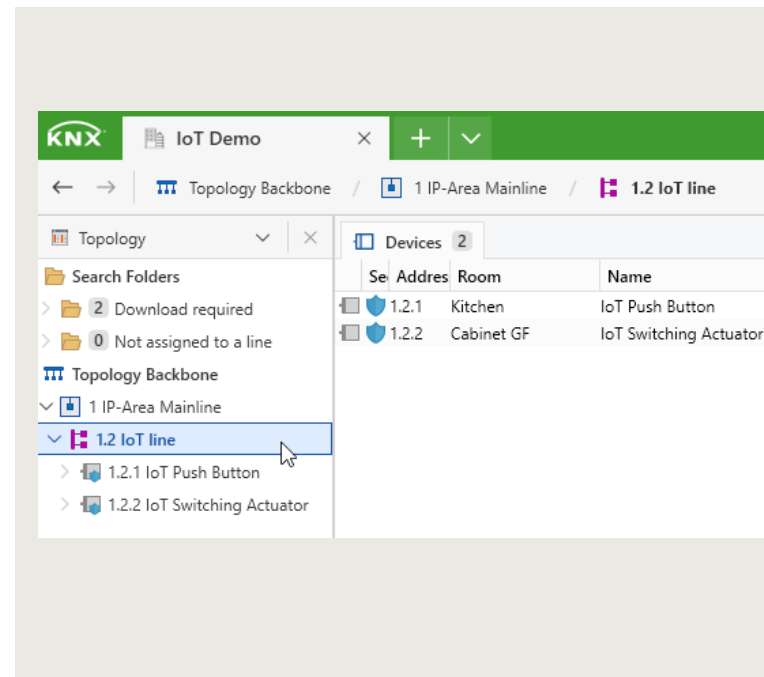
The assignment of individual addresses via serial number has been introduced to allow the automatic adoption of new devices without having to press the programming button anymore. ETS now suggests this option when it knows the serial number of a specific device in your project, relieving you from having to press the programming buttons on devices manually.



ETS6.2: KNX IoT as a new medium

The new release of ETS6.2 introduces a significant technological development for configuring KNX installations in the future: the integration of KNX IoT. This greatly expands the possibilities of what you will be able to include in KNX installations. KNX IoT brings native IPv6 support as a new medium type and as a new class of devices that are to enter the market soon. This means that you can now connect certified IoT devices to devices from any other medium type supported by ETS. This integration is designed to be interoperable and backward compatible, ensuring that new IoT devices can work seamlessly with your existing installations.

Furthermore, the introduction of KNX IoT will increase the security of your KNX installations. KNX IoT is intrinsically secure and to support this, ETS6.2 includes enhanced diagnostic tools that are capable of directly supporting the decoded IPv6 CoAP (Constrained Application Protocol) communication.



ETS6.3: Smart Linking & Cloud Functionality

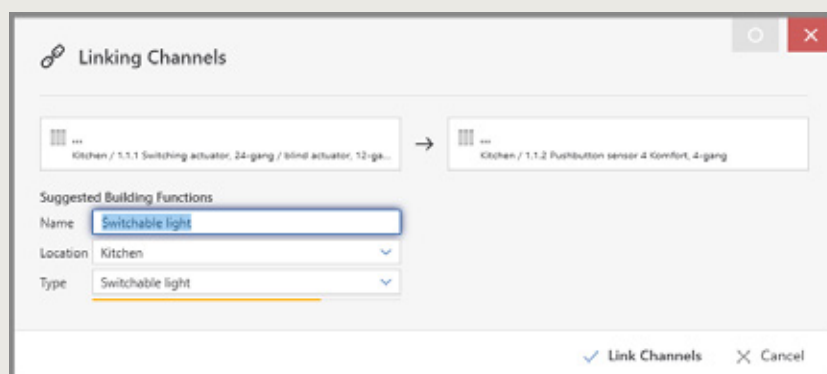
ETS6.3 has a planned release in the summer of 2024 and will truly make your tool software even more 'smart, open and secure'. The main new ETS6.3 feature will be Smart Linking. With this handy new feature, you will be able to intuitively drag a device channel, like a push button rocker, onto another, such as an actuator channel. ETS6 will then smartly suggest appropriate functions for you to create, add the necessary groups and will link them to the correct objects of both devices. This is made possible by using the semantic annotation of certified KNX devices by manufacturers, according to the KNX Information Model. This will not only save you time but also simplifies the setup of interconnected devices. After the release of ETS6.3, KNX devices will start supporting this right away.

The Cloud Interface Functionality is the next evolu-

tionary step for the KNX Interface. The Cloud Interface Functionality will allow seamless remote access to KNX Installations directly from within ETS without any unnecessary configuration steps for you to take.

ETS6.3 will be able to remember your project passwords when you are logged in and have this option enabled. In this way, you do not have to deal with the hassle of repeatedly re-entering passwords. These passwords will be securely saved and KNX Association will have no knowledge of these passwords.

2024 is looking bright for ETS6 users. If you already have an ETS6 license, all these updates will be available for you on release free of charge. If you have an older ETS version or no license yet, you can benefit from all these new features by ordering your ETS6 license at <https://my.knx.org>





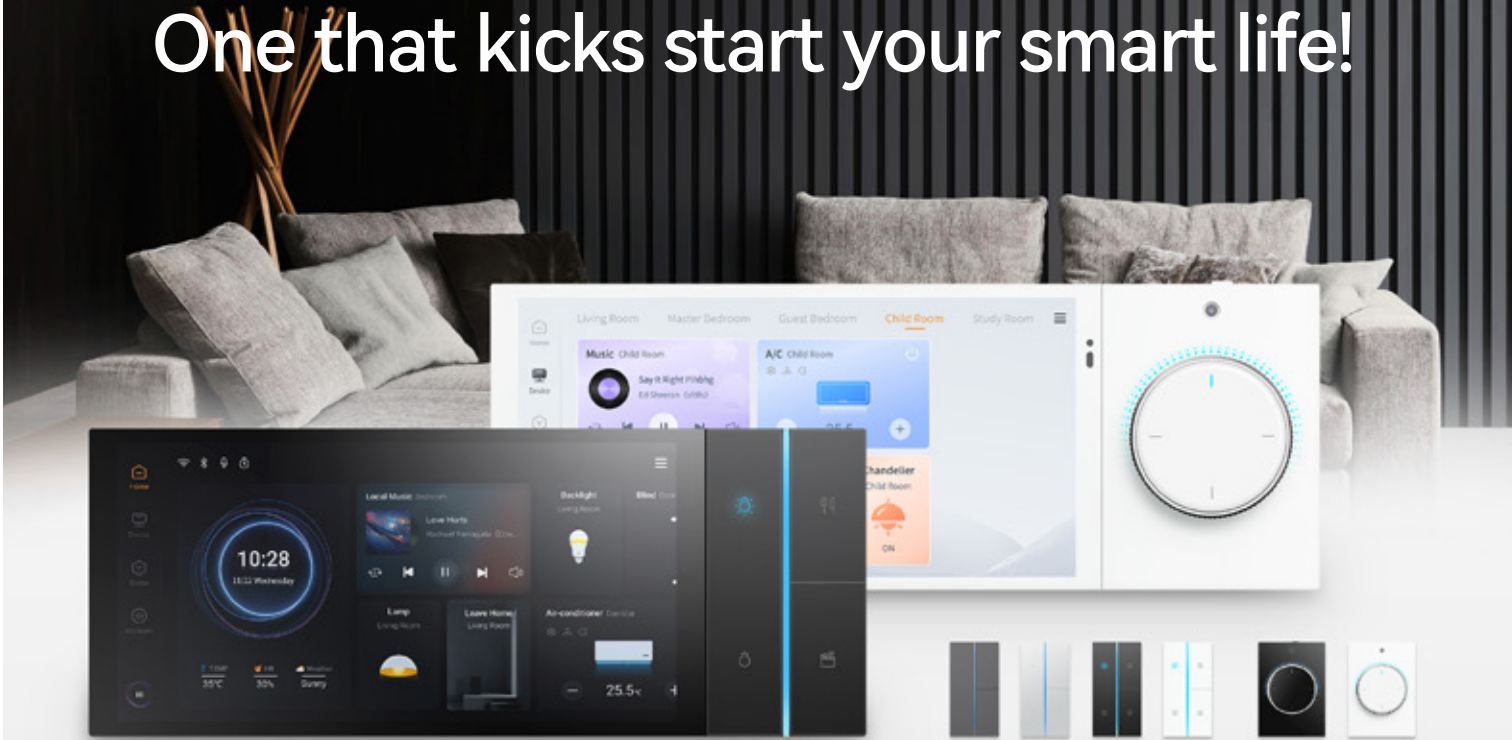
GVS®

BSE Stock Code: 870976

The **KNX** Smart Touch **S7**.



One that kicks start your smart life!



A well-integrated ALL-IN-ONE touch panel of KNX & SIP functions with great variants and flexible ways of control.

KNX Smart Touch S7

- 7" IPS HD screen, resolution 1440*720
- Multi-interactive control by touch, button, knob & APP
- Innovative KNX + SIP Intercom
- Abundant free DIY functions
- 1+X Modular design
- KNX Secure supported

Hall 9 / Stand D57, 2024 Frankfurt L&B

www.gvssmart.com

© 2024 GVS Smart. All Rights Reserved for disclosed products & functions above.
GVS and K-BUS are trademarks and property of GVS Smart and its affiliated companies.



Scan the QR code to get to know more

GVS - To make life smart, and smart simple !



Highest security for smart buildings: KNX extends KNX secure with a free online security check tool

In the age of smart living, homes and buildings become more and more connected. The global demand for innovative building automation solutions based on KNX is increasing rapidly, with countless applications and equipment available. But like any other communication technology, smart homes and buildings can become a target for hackers. For years, KNX Association has been delivering the state-of-the-art solution to secure building automation systems at the highest level: KNX Secure. The mission: Protecting the most sensitive data from the most sensitive spaces, our homes and buildings!

Highest security with KNX: Protecting all types of communication from TP to IP (IPv4/IPv6) at internal data level and external IP level

KNX is designed to meet the highest security requirements thanks to KNX Secure and KNX IoT. On the one hand, KNX Secure supports the most secure encryption standards according to ISO 18033-3, such as AES 128 CCM encryption, to effectively prevent attacks on the digital infrastructure of buildings. It secures the IP communication between KNX Secure devices by extending the IP protocol in such a way that all the exchanged data are completely encrypted. At the same time, KNX Secure protects user data against unauthorised access and manipulation by means of encryption and authentication. On the other hand, KNX IoT implements the strongest protocols to secure IoT devices and solutions with the adoption of the new OSCORE messaging protocol using CoAP and CBOR. OSCORE has been optimised for resource constrained communications and is utilised to encrypt all types of messages end-to-end between endpoints.

KNX Security check: Verify your KNX installation's protection online!

With the KNX Security check, KNX intensifies its efforts to provide the best security environment for building automation solutions and devices. Thanks to this new online tool, KNX professionals and users can check whether their KNX installation is protected against contacts over the Internet. With a simple click on a button, they can find out if the setup of their KNX installation is truly secure. The easy-to-use KNX Security check is also part of MyKNX and available for free after login.

For more information and an overview of all the security features of KNX, please visit <https://secure.knx.org>.

Enhance your KNX installation security with the MyKNX online training. This concise, 30-minute course titled "How to Prevent Access to KNX Installations" equips KNX professionals with advanced protective strategies. Freely available for MyKNX users, it's an essential step before the KNX Basic Course and ETS eCampus, culminating in an official certificate upon completion.



All-in-one KNX toolkit for professionals

The KNX smart home technology has many advantages that enhance homeowners' daily lives. Still, you might face hurdles in informing and convincing your customers about the benefits of a KNX smart home. After looking into the challenges you might face when connecting with your customers and promoting your services, we've developed a solution to address these needs.

With our toolkit, we provide you with a mix of handy instruments - ranging from branded flyers to a video you can add to your website – to facilitate communication with your (potential) customers, while also encouraging your growth as a KNX installer. The KNX toolkit for professionals is completely free for KNX Professionals and can be downloaded via your MyKNX account.

What does the KNX toolkit include?

KNX leaflet: Give potential customers a brief introduction to KNX with this printable handout. You do not need to create your own material that list the main benefits of a KNX system for homeowners, you can easily download the 1 page leaflet and hand it to your customer.

KNX installation unit sticker - the new KNX Inside logo: With the installation unit sticker, KNX inside, you can include the project ID and your name for future reference. Your customers will more easily be able to contact you as your details are on the electrical cabinet. The KNX label identifies the smart home installation brand and serves as a seal of quality. Furthermore, when new occupants move into the smart home, they instantly know who to contact to customise the installation to their needs...you!

KNX objection handling manual: Potential customers might have misconceptions about or reservations towards smart home systems or KNX specifically. In this handy manual, we've listed the most common objections along with effective counterarguments to clear any doubts.

Checklists on project management: The first checklist provides a guideline at the start of a residential automation project, you can fill in the checklist together with your customer to identify their specific needs and residential spaces in their home. The second checklist helps navigate a handover of a project between professionals (if necessary).

Security checklist: It is indispensable that you create secure installations to leave your customers wor-

ry-free. This list provides a handy overview of final checks you should apply for each project to make sure the installation is properly secured.

Best practices: Are you about to start a new project? If so, then review the best practices form with your customer to make sure that the highest standards recommended by KNX Association are followed.

Guide on embedding our KNX branded video to your website: Emerge potential customers into a KNX smart home with a professionally edited video on your personal website.

Guide to uploading a project to myKNX: Uploading your projects offers you more visibility as an installer, as your project and contact information will be shared in the professional database of KNX.

Web content for professionals: We prepared the main explanations and benefits of KNX for you. All there is left for you to do is add the content for homeowners on your website.

Social media video: Are you professionally active on social media? KNX provides you with a ready-to-post social media video to use on your channels.

In conclusion, the all-in-one KNX toolkit for professionals is a comprehensive and invaluable resource for anyone involved in the KNX smart home industry. It addresses the critical aspects of communication, marketing, and project management, ensuring that you can confidently and effectively engage with your customers. You can access it by logging in to your MyKNX account and clicking on 'Account' > 'Marketing Content'.

iX10 - 10.1" KNX Touch Panel Full Screen



Main Functions:

- All Control from a Single Point
- Slim and Modern Design
- Two Main With Frame/Full Screen Models
- With Frame Desired Color Options
- Feedback function with RGB leds
- Easy and Modern Mechanical Installation
- Hey Interra! AI Offline Voice Assistant
- Cloud-Based Secure Mobile Control
- Thermostat Control
- New Modular Powerful Hardware Structure
- Integration with Building Management, Hotel Management and 3rd Party Systems

iX4 - 4" KNX Touch Panel



Main Functions:

- Black and White color option
- ETS Configuration (No External Configurator Needed)
- Software Update via USB
- Suitable for Standard EU Junction Box
- Easy Assembly with Monoblock Design
- Configurable Main Screen (1x2 1x4 2x4)
- All KNX-Based Controls
- Screen Saver as Analog or Digital Clock
- Dry Contact Signal Output for DND Modules
- Password Access & Temporary Screen Lock for Cleaning
- Up to 128 control points: 16 Function Pages include 8 Different Functions for Each

iX3 - 4" KNX Touch Panel



Main Functions:

- 6 Different Pages, Up to 44 Control Points
- Full Control of Illumination
- Special Thermostat Page
- Built-in Temperature, Humidity, Brightness and Air Quality Sensor
- 13 Different Language Options
- 2xExternal input: Both can be used as digital and/or analog
- Voice Feedback
- Black - White, Monoblock Design and Easy Assembly

iX2 - 2" KNX Touch Panel



Main Functions:

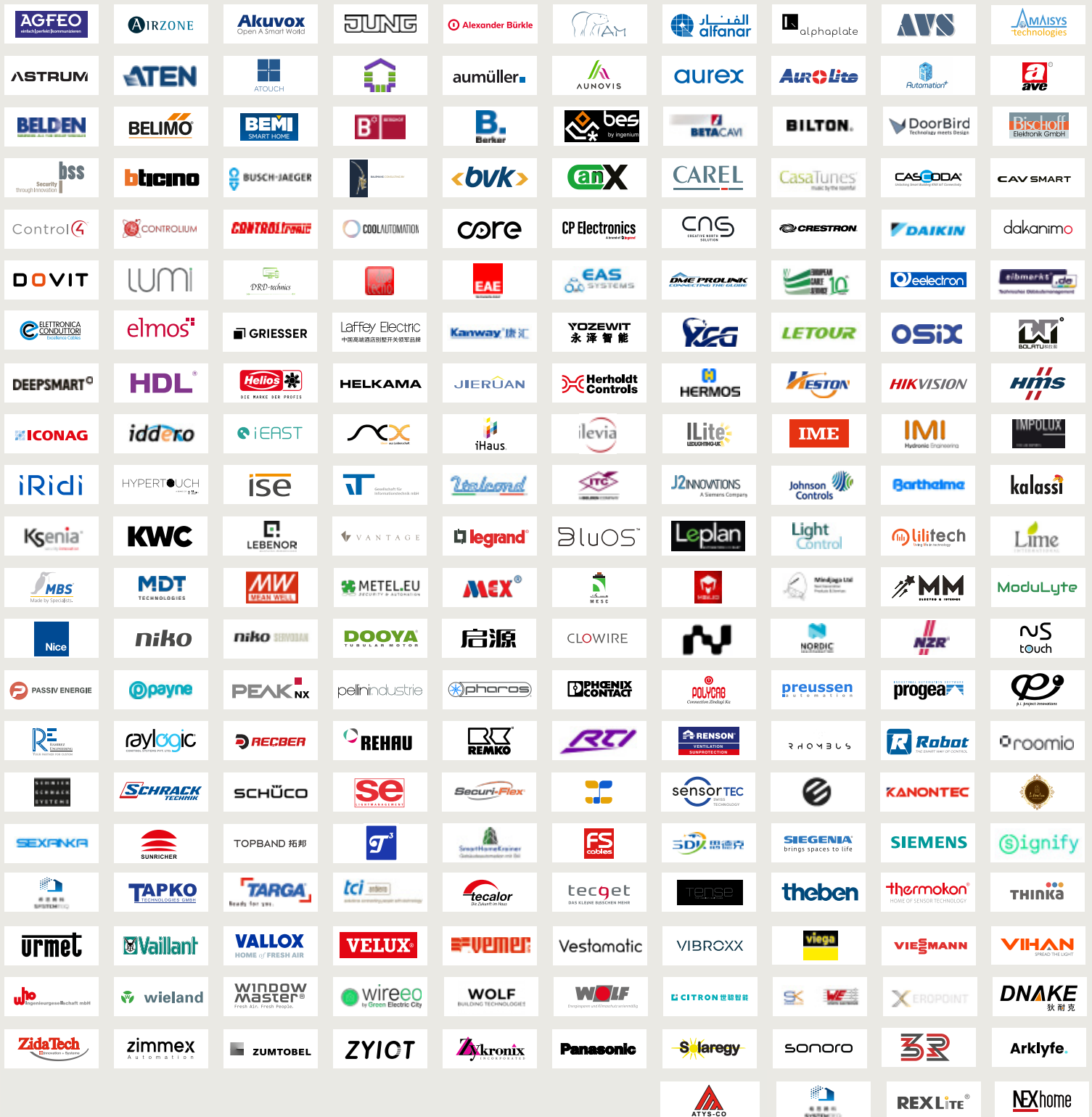
- Built-in Temperature, Humidity, Brightness and Air Quality Sensor
- Black - White, 4 Main Models with and without Screen
- 2 Adjustable Input (Digital/Analog)
- Easy Assembly with Monoblock Design
- Master / Slave Thermostat Feature
- Error Monitoring via LCD Screen
- Dim and Curtain Control with Slider in Model Without Screen



Smart home and building solutions.
Global. Secure. Connected.

+500 Members in 45 Countries

1HOME	3ATEL comunicaciones	4ba for building automation	安·玛·思 ZAMATEC	ABB	ABUS Quality from Germany	ACCORDIA CABLES BEYOND STANDARD	Acematic	advancis	Agentilo GmbH
ambiHome	ampio SMART HOME	ANDAS®	Apricum	arbonia	arcus-edS ARCHITECTURE - ENERGY - AUTOMATION	ardomus	ARMO SOFTWARE LIVE	Arklyfe.	arlight
AWAG	AYPRO PURE LIFE EXPERIENCE	Automation und Steuerungstechnik GmbH	B3 Technological	BAB TECHNOLOGIE	basalte	BECKER	beecontrols Upgrade your life to the next level!	Hysine®	Belcom
B&B HOME	black nova	BlueRange	blumotix TECHNICAL	Building Management Systems Engineering & Consulting	EOKE	rexroth A Bosch Company	BOSCH	B.E.G.	BRUMBERG THE ART OF CONNECTION
CD	G	Anlips 安和立斯	CIAT	cdc systems	CM security GmbH & Co. KG	CODESYS	comfort click	CONDEV	CONSOLINNO ENERGY
DALITEK 昕奇光电	DART Digital Automation & Remote Technology	DEHN	DELTA	DGA Deutsche Gebäude Automation	HOME COCKPIT	DINUY Brighten up your day	DIVUS Show & Control	DOMOTICA LABS	dorbas
eekey EON KEY	ekinex	myGEKKO Building Intelligence	ElabNET	ELAN CABLE & BATTERIE	elausys	ELDAT	EGI	ELEK	e l e r o
SEAWIN Electrical	SUMSIR	Santron	GVS®	:hager	BINTHEN® 两申智能	BroadLink	EASEMORE 艺盟	Feishelec	JADELITE 钰朗
Intesis®	Honeywell THE POWER OF COMFORT	HORMANN Tore • Türen • Zargen • Antriebe	Hoval	aruba Instant On	müller ENERGY CONTROL SYSTEMS	CON 冠顿照明	Ferten 冠腾物联	Idea	ib company INTELLIGENT BATH DESIGN
inohom	INSPINIA	INSTA	InstaLighting	INTEGRA METERING	'INTERRA Division of Exponent	inventronics	inyx	IOLOGY	IPAS
KAMDMANN Genus mehr Klima	KERMI	科岩电源	KLUG Gebäude Systeme GmbH	KNXES	knypressso	KNX SIMULATOR	KOAER	kordz Connectivity Assured	sontec®
Lingg 聆晶 Janke	Lithoss	LOYTEC Lithium-Ionen-Druck	Lunatone	i.luxus	MAICO VENTILATOREN	MAKEL Lighting solutions	masterpiece Audio Visual Education	-weishaupt-	PROLED®
moorgen	MOX	maintronic	mySmart INTELLIGENT ENVIRONMENT	dn	OHOSURE	SHUFAN	NANOTECO Technology	NETX AUTOMATION	neuberger.
NVC 雷士照明	NEA ELECTRONICS	onsemi Intelligent Technology. Better Future.	onework	ontrol	Opternus Energy-efficient	optimus doruk	ORBIS Energy Intelligence	MESSUNG ASSISTED PEOPLE	Panasonic
PRO KNX	PROLITE CONTROLS	prolux	thinknx	Qbic	Qbus	Q-SYS	Radiocrafts Embedded Wireless Solutions	ramcro	
ROTTMANN CENTRO	rutec	SSS SIEDLE	SABIANA ELECTRO-ACCUMULATOR	SAMSON ABLE SECURITY APPROPRIATE	Safel®	SAUTER Creating Sustainable Environments	SBR SYSTEM	Schenker Storen	Life is On Schneider ENERGY
LAZZEN	NOKE 诺科那保科技	enthouse	EASTKAME	EXC 爱克	G	合广测控	三江荣恒科技	merrytek®	MICHOI
STIEBEL ELTRON	stiliger	STI Elektronik	STORK ELEKTRO & AUTOMASJON	STUHL REGELSYSTEME	STV ELECTRONIC	SUMAMO	HOMY CLOUD 智能家居	AE 艾斯科技	SYMC 众N
merrytek® KREAT POWER	TOTAL SOLUTION	TREBOR	TRIDIUM	TRILUX SMART LIGHTING	trivium® smart multiroom	Tyba	urLUX	U-C Enhance the Experience.	uponor
VIMAR energia positiva	VIVALDI	VOKA VORSTÄNDLICHE KABELFAHRE SYSTEME	VOLTUS	WAGO	华尔永盛 WALL PERM	warema	webro	WEINZIERL	W
盈盛科技 Intretech	xx:ter	XYTE	always with you	Zennio	ZE	moorgen ACCENT	7 TABLE	D'onei	SATION

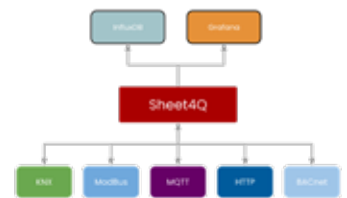


NEW KNX PRODUCTS

Sheet4Q - Connecting KNX networks

4ba GmbH - Sheet4Q is the solution for merging heterogeneous KNX networks via KNXnet/IP and coupling other protocols with KNX. This also works across properties. The previously supported protocols (ModBus, MQTT, HTTP, etc.) are extended to include BACnet. Data from all sources can be easily filtered, converted and linked together. In addition to the multi-protocol functionality, all fieldbus devices and IP devices can be monitored in future. Project planning via spreadsheet enables efficient and convenient commissioning through the use of formulas and macros.

Contact: <https://4ba-gmbh.de/sheet4q/>



Blind / Shutter Actuators

ABB - Facade automation increases the functionality, comfort, security of a building, while improving energy efficiency and reducing maintenance costs. With the new ABB i-bus® KNX Blind / Shutter Actuators, ABB offers the perfect device for every shading application. The new portfolio contains variants for 24V DC and 230V AC drives (with and without travel detection). The portfolio contains devices with 2 binary inputs, for the connection of conventional switches or push buttons to directly control the hanging. Additionally, ABB is offering a special variant: The devices can be used for blinds with 3-end-position-switches and feature an additional down contact to control the drives.

Contact: www.abb.com/knx



KNX cable B2ca-s1,d1,a1

ACCORDIA SA - At ACCORDIA we are happy to present the newest addition to our KNX certified cable range: A low fire hazard, two pair TP1 cable with CPR classification B2ca-s1,d1,a1. This cable is fully compliant with KNX specification and EN 50090 and is tested and certified by KNX Association in respect of its electrical, mechanical and environmental properties. Furthermore, it is CPR certified, achieving the highest Euroclass B2ca-s1,d1,a1. Therefore it is ideal for high fire risk installations, escape routes and wherever the best possible resistance to fire is required.

Contact: www.accordia.gr



Aidoo KNX Inverter/VRF

Airzone allows management and integration of individual units into KNX TP-1 control systems. Easily configurable from ETS, Aidoo KNX allows control of Inverter/VRF units. Control of any unit connected in a KNX system. Control of the different settings of the unit. KNX control and KNX standard data. 3 configurable digital inputs. Detection of errors in communication. KNX certified product.

Contact: <https://www.airzonecontrol.com/eu/en/control-solutions/aidoo/knx/>



Small is Beautiful

Apricum d.o.o. - Under this motto, Apricum is giving its devices a slimming cure. The latest versions of our proven system devices will feature a 1-unit housing. The reduction to just one standard unit combines optimum economy with maximum flexibility. This makes effective use of the valuable space in the distribution cabinet and multiplies the functionality of the entire system - a step forward in terms of sustainability. We are pleased to present the latest Apricum product range at our booth L&B2024, Hall 9.0, E15.

Contact: www.apricum.com



CUBIK-TLR: Custom sliding thermostat

BES KNX - Ingenium - CUBIK-TLR, the vertical and capacitive touch button with 8 customizable gangs and in-built thermostat, now supports manual fan speed control. This new feature has been added to already supported controls like on/off, set point through a circular slider with LED indicators or function mode for cooling/heating. Thanks to the built-in humidity sensor, it is also possible to define dew point measurement according to relative humidity and temperature. Like rest of CUBIK push buttons and thermostats family, it is also possible to customize 100% the frontal glass, having the option to define icons, labels, logos, etc. via the online tool <https://cubik.besknx.com/>.

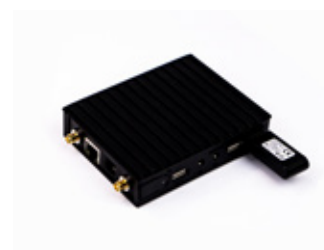
Contact: <https://besknx.com/website/en/products/cubik-tlr/>



BlueRange Gateway (KNX)

BlueRange GmbH - Introducing the BlueRange Gateway, our latest innovation in intelligent building automation compatible with KNX systems. It bridges the KNX and IoT worlds, offering remote access, encrypted communication and user-friendly setup. By increasing the reliability and coverage of mesh networks, this gateway becomes indispensable for sophisticated smart building applications. It marks a new era in building technology with its seamless integration and advanced design.

Contact: www.bluerange.io





'INTERRA
Developer of Uniqueness

Each **Interra product** is designed to be **unique**



BX-RO16/24 - 16/24 CH Multifunctional Actuator

Blumotix srl - BX-RO16/24 is a 16/24-channel multifunctional actuator for DIN rail mounting for independent switching of loads using dry contacts. The output switching can also be managed by the buttons located on the front panel. A green LED indicates the channel status. It is equipped with 16 A bistable relays with contacts connected directly to the terminals, with no phase sharing. The screw terminals can accommodate cable sections up to 5mm². The relays used can withstand an inrush current of up to 320A in the first 2MS, therefore they are particularly suitable for driving inductive loads typical of fluorescent or neon lamps.

Contact: <https://blumotix.it/en/actuators/multifunction-actuators/>



BB03 LED recessed spot set, DALI dimmable, incl. connection box 41463073

Brumberg Leuchten GmbH & Co. KG - Brumberg BB03 41463073. LED recessed spot set, DALI dimmable, incl. connection box, Round. Toolless ceiling installation by installation springs. Ceiling cut-out Ø 68 mm, Installation depth 36 mm, Outer diameter 82 mm, Weight 0,247 kg. Reflector silver with rotations symmetrical, deep, wide distributed light intensity. optimal light distribution due to a polycarbonate clear cover. Luminous flux 630 lm, Power 1 x 6 W, Light colour warm white, Correlated color temperature (CCT) 3.000 K, Colour rendering index CRI > 80, Rated lifetime L80/B20 at 25 °C: 50.000 h, Housing material: Aluminium / Plastic, Colour: White, Permissible ambient temperature (ta).

Contact: <https://www.brumberg.com>



BSMART Infinite Touch Interface Switches

BSMART - Elevate your user experience with infinite touch interface switches. A Design and Innovation Masterpiece. Discover sophistication with three colors – black, silver, and brown. The 480 x 480 resolution, 10-page display, and integrated multifunction, including dimming, switch, scene, curtain, and air conditioning control, redefine user interaction. Customize text, leverage the built-in temperature and humidity sensor, and enjoy laser functionality and human body sensing. Encased in a high-grade aluminum frame, these switches, measuring 85 x 95 x 36mm, seamlessly blend style and functionality.

Contact: <https://www.bsmart-knx.com>



Infini KNX: Elevated Rotary Control

Can'nX - Infini KNX offers a blend of vintage charm with future technology through rotary buttons. Each module integrates up to 4 rotative buttons to KNX standards. It has functionalities such as Remote Switch On/Off, LED Output (4V - 2, 5mA), Dimming : On / Off 1 bit, 4 - bit, Blind Control : Up / Down, Stop, Object Transmission: 1 or 2 bytes, Scene : Calling and Recording. Infini collaborates with renowned brands to ensure a sophisticated metallic finish. Infini redefines KNX standards with flawless performance and unique style, elevating control for lighting, climate, entertainment, and more...

Contact: <https://can-nx.com/en/infini-knx-rotary-button/>



Speak'nX: Smart KNX Chime

Can'nX - Speak'nX is an integrated KNX chime. This device can broadcast pre-recorded voice messages (50 customizable melodies via KNX datagrams), providing clear alerts. This innovative KNX device comes with two binary inputs and temperature and humidity sensors that transmit data via KNX, enabling comprehensive environmental monitoring. Speak'nX has also been proven efficient in KNX technical alarm systems. We collaborate with renowned brands like Meljac to offer custom finishes (55 x 55 or 80 x 80) with Standard box depth: 50 mm). Speak'nX redefines KNX installations with innovation and functionality.

Contact: <https://can-nx.com/en/speaknx-speaker-knx-iot-customizable/>



6-stream KNX Music Server with Audio Distribution System control

CasaTunes - The CasaTunes Plus Music Servers provide 2-6 streams of pre-amplified, line level, high definition audio (5 analog streams plus 1 digital stream). Each stream works as an independent, standalone music player. You can listen to disc music, networked music, Internet radio and music, as well as stream music via Apple AirPlay. CasaTunes Plus Music Servers can be used standalone, as a streamer or in combination with a CasaTunes or 3rd party audio distribution system. CasaTunes provides out-of-the-box support for KNX control systems, providing whole house control of your music through KNX panels and devices. Experience the future of audio with the latest CasaTunes Plus music servers for KNX.

Contact: <https://casatunes.com/partners/knx>



ComfortClick Hotel Features

ComfortClick - ComfortClick is proud to announce its new feature: automated check-in for small hotels & Airbnbs! This latest addition simplifies the check-in process, offering hassle-free automation of check-in procedures. With language customisation options, it ensures personalised guest interactions, making it ideal for international clientele. The system also includes automated email notifications, providing guests with seamless login details and enhancing overall communication. This feature is perfect for hospitality businesses looking to improve efficiency and guest satisfaction through advanced technology.

Contact: www.comfortclick.com



New KNX/DALI Gateway

DINUY S.A. - DINUY introduces its new KNX/DALI Gateway with 1 addressable channel. Thanks to Wi-Fi and LAN connectivity, along with a user-friendly and simple Web Interface, DALI commissioning becomes a less daunting task than usual. Web Server functions: it can be accessed via the LAN or WLAN network, or even via Wi-Fi AP, using a PC or Tablet. Commissioning requires 2 tools: Web Interface for DALI addressing and ETS® for the parameterization and Scenes setting. Up to 64 DALI ECGs can be managed in 16 different groups. Manual broadcast switching/dimming via control buttons on the device. Quick replacement function for 1 defective ECG. Compatible with: DT0, DT4, DT6, DT7 & DT8 (TW and RGBW).

Contact: www.dinuy.com



Q20

Dobnel - Here is the new series of our Q devices. Elegant and minimalist, it will look great in any room. Its main feature is the advanced option of vertical and horizontal configuration of the keys. The keys in the button can be set up in several ways, with each key corresponding to a different functionality (including blinds, music, temperature etc.). The eight LED colours make it easy to identify each function. The elegant and timeless finish made of natural materials (aluminium, steel) adds value to the whole experience.

Contact: www.dobnel.com



Q20LCD

Dobnel - The version with a display screen has with similar configuration options and quality, with almost 300 icons to choose from. Each icon can be displayed in one of the eight colours, and individual key description offers almost infinite configuration options. Button programming is extremely quick and simple thanks to the intuitive ETS interface. The buttons feature the highest quality IPS matrix display with 480x854 resolution and 16.7M colour range.

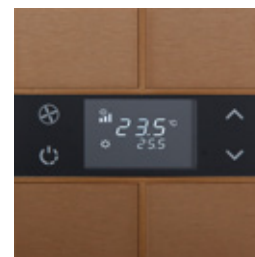
Contact: www.dobnel.com



Rosa Metal Touch

EAE TECHNOLOGY - Rosa Metal Thermostats and Switches has 7000 series 4mm aluminium material. Device is touch-operated and has frameless design. Anthracite, natural aluminium, bronze and gold colours are available. In order to complete the range, Rosa products has same colour and material options for frames which is suitable for BS, EU and modular standards. Up to 6 buttons available for switches, up to 4 buttons available for thermostats. Short/long/double press functions are available for each of the buttons. There are feedback LEDs on edges and a navigation LED on the button of the device. Built-in temperature and humidity sensors on thermostats and switches make it possible to control heating-cooling systems.

Contact: <https://www.eaetechnology.com/en/rosa-product-families/>



OL - U range | better living solution

Eelectron SpA - OL-U is a cutting-edge KNX device range for wall installation, featuring switches, thermostats, and socket frames. Switches offer 8 mechanical buttons (16 channels), while thermostats/humidistats have 4 (8 channels) with vibrant RGB LEDs for visual feedback. The iconic RGB bar, now capacitive, introduces innovative interaction gestures like swipes and taps, enabling limitless scenarios. With 32 logic blocks, OL-U allows simple or complex expressions, including proportional controls for temperature, humidity, or dew point. The "Virtual Holder Logic" enhances presence detection in hotel rooms, using a magnetic sensor on the door.

Contact: www.eelectron.com



Delégo Supervision

EKINEX spa - Delégo is a system for the supervision and control of a KNX standard system, based on a compact server device, directly exposed to the Internet and connected to WoT (Web of Things) services via the Ekinex cloud. Delégo is the ideal solution suitable for light, climate, motorisation and energy control of a modern building. You can control the system with your smartphone, tablet and PC/Mac with a dedicated App or directly via the touch-screen panels of the Delégo-Panel series, or through voice command. Delégo is also a particularly suitable solution for service sector buildings, thanks to the integration capabilities of peripherals with the Modbus communication protocol.

Contact: <https://www.ekinex.com/en/delego/delego-home.html>



Universal KNX Actuator System

ELAUSYS - The Universal KNX Actuator System is a fully modular actuator system where extension modules can be added to extend the number of channels as needed. Up to 72 channels can be combined for switching, shutter or blind, heating, dimming, analog 0-10V, LED drivers and DALI bus with various size and power. The system includes advanced logic functions including weekly calendar, sequences, math, logic gates, triggers and temperature controllers. The actuators can be automatically preconfigured using ElauPro, our online KNX project management platform. Centralise and automate your KNX projects configuration, share documentation with customers and third parties and generate reports.

Contact: elausys.be



Jardana irrigation system

Elsner Elektronik GmbH - The Jardana control system helps to save resources and time when watering gardens and greenhouses. Four zones can be watered individually four times a day. Soil moisture sensors ensure plant-appropriate and water-saving distribution. The system is set up and operated via the Jardana app. The controller itself can generate a WLAN for communication and is therefore also suitable for extensive, remote gardens. With KNX, the irrigation functions can be expanded with data and logic from the system: Wind alarm, for example, blocks the lawn sprinkler, while KNX displays and buttons are used for display and operation.

Contact: www.elsner-elektronik.de



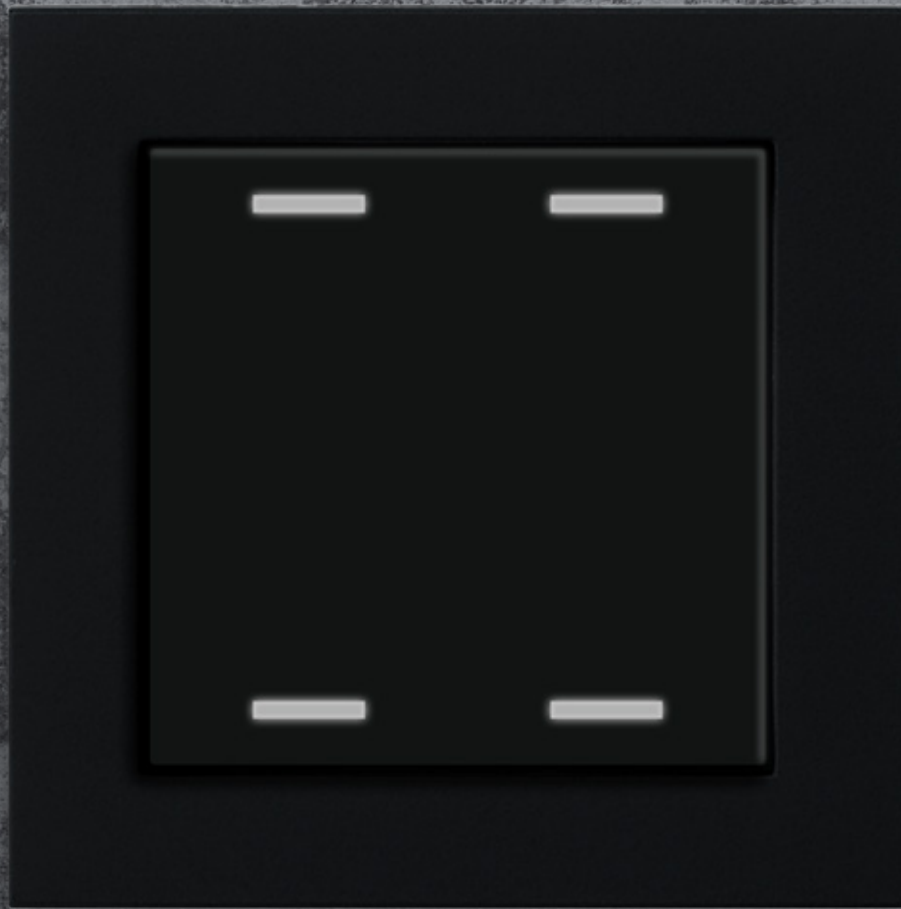
Enertex ENA²

Enertex Bayern GmbH - The ENA² offers Remote access without "Cloud". The device is configured only with your Web browser. The optional "Relay server" forwards your VPN connections to be independent of the internet connection type (IPv4, IPv6, DS-Lite) and Router configuration without lowering security. VPN data still can only be decrypted by the user. The ENA² can manage a "Protected Network" to prevent "Cloud" IoT-devices from accessing the building automation. All KNX telegrams are stored into an integrated database. The device website visualizes telegram data in time-value-charts and offers error analysis.

Contact: www.enertex.de



MDT
TECHNOLOGIES



Smart in black

The elegant side of KNX

www.smartinblack.com/en

Black mini detector

ESYLUX - High-contrast accents are just as much a part of the current colour trends in interior design as anthracite to black ambiances. In order to match its intelligent sensor technology to this, ESYLUX has expanded its portfolio to include black-coloured variants. This includes the PD-C 360i/8 mini KNX ceiling presence detector from the COMPACT MINI series. With a diameter of just 33mm, it remains unobtrusive and realises energy-efficient presence and daylight-dependent constant light control with a total detection range of 8m in diameter. Additional KNX functions include alarm, twilight switch, brightness detection, light-dependent motion detection, snooze function and scene telegram via object.

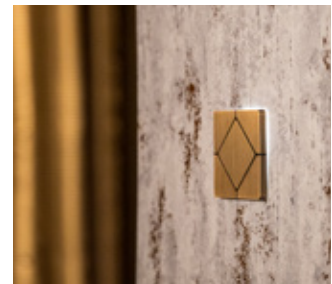
Contact: <https://www.esylux.com>



TAP5 - ORE

Faradite - Faradite is thrilled to announce the launch of their incredible new switch range, the TAP5 - ORE! This gorgeous 5-gang capacitive touch switch is made with 8mm thick solid brass, designed and manufactured in Britain and expertly hand-finished to create four exquisite finishes. The ORE switches are as technically astounding as they are aesthetically, backed with KNX technology that offers some incredible functionality. With 5 different function types to choose from as well as an integrated temperature sensor, this switch offers an elegant way to control every aspect of the modern KNX smart home.

Contact: www.faradite.com



Gewiss KNX/DALI2 gateway

Gewiss - The new GEWISS KNX/DALI2 gateway GW90873 enables the integration of ordinary and emergency lighting management realised by DALI luminaires into a building control system based on KNX technology. The GW90873 gateway is DALI2 certified and can operate in a DALI context where multiple MASTERS (MULTIMASTERS) are present and supports KNX Secure communication. A single GW90873 gateway can control and power (without additional DALI power supplies) up to 64 DALI luminaires and up to 8 DALI motion detectors or light sensors. Luminaires can be controlled either individually or in groups up to a maximum of 16.

Contact: www.gewiss.com



Gira DALI Gateway Colour

Gira - Create an atmosphere with coloured light. The DALI Gateway Colour for KNX switches and dims reliably and conveniently coloured lighting using the DALI2 standard. The colour temperature is set with DALI Device Type 8 for Tunable White. In addition, the DALI Gateway Colour for KNX now also enables Human Centric Lighting. The HCL technology can dynamically and individually adapt the lighting to the course of the daylight.

Contact: <https://www.gira.com>



TANTRON 1.39" Intelligent Rotary Touch Panel

Guangzhou Tantron Electronics CO., Ltd - Presenting the TANTRON 1.39" Intelligent Rotary Touch Panel – winner of the RedDot 2023 Award. Revolutionizing smart switches with groundbreaking KKDiOne dual-control technology, it seamlessly integrates rotary knob adjustment, press control, and display functions. Boasting an innovative magnetic design, incremental encoder, capacitive touch screen, and a 1.39-inch display, it supports temperature, lighting, and scene control, along with laser distance sensing and customisable lighting options. Elevate your smart home with TANTRON, where cutting-edge innovation meets intuitive design for unparalleled control.

Contact: www.tantron.com.cn



Intesis 700 Series Air

HMS Networks - This new platform combines interfaces for multiple HVAC brands and building automation protocols within the same hardware. Utilizing a late configuration process, the integrators can pair the combination they need for their integration project. The Intesis 700 Series Air adds substantial value and ease of use for building owners and integrators. Providing an estimation of the energy consumption for each indoor unit, empowers users to identify and optimize energy-consuming units, leading to reduced energy bills, lower carbon emissions, and an extended lifespan for HVAC equipment. That's why the Intesis 700 Series Air received The KNX UK Award for innovative product in 2023.

Contact: <https://www.intesis.com/products/700-series/ac/in770-air>



Iddero HOME SERVER 3

Iddero - Iddero HOME SERVER 3 is a compact, DIN-rail mounted KNX server with a powerful, intuitive visualisation, supporting up to 512 custom pages with more than 4000 controls, graphical navigation through maps and zones, and much more. Additional functions include time schedules, scenes, macros, logic expressions, alarms, presence simulation, email and push notifications, thermostats, etc. Control from smartphones and tablets is possible with the Iddero Mobile app (iOS / Android). A web-based user interface also allows access from standard web browsers. Includes 8 multi-function inputs for direct connection of push buttons, sensors, or temperature probes. Compatible with Alexa for voice control.

Contact: www.iddero.com



Ilevia - Ilevia X1 is the server for local and remote management and control via mobile and desktop devices of KNX-based smart installations such as villas, apartments, hotels, offices and factories. Thanks to a new software version with a renewed ETS project import tool, the Ilevia solution reconfirms itself as the absolute fastest system in the world for creating visualisation for KNX systems. What makes the Ilevia system unique is the total lack of limitations for the management of KNX group addresses. Ilevia also supports KNX Secure. In addition, all previously supported systems are still present.

Contact: www.ilevia.com



INSPINIA 4” Room Controller

Inspinia Technology s.r.o. - INSPINIA 4: Flexibility and Control in Smart Living. Engineered for KNX systems, INS4SQ redefines home automation. With flow-based programming and a customisable UI, makes sophisticated automation accessible. Offers control via SkyPlatform, whether online or offline, and can manage up to 2000 data points. Not just a controller; the very central hub for smart environments, is compatible with various systems and adaptable to every need. Its sleek design, available in silver, gold, or black metal frames, seamlessly blends into any home, commercial setting, or hospitality environment, offering a universal appeal.

Contact: www.inspinia.eu



Interra iX4 - 4” KNX Touch Panel

Interra - Interra iX4, a 4” KNX Touch Panel, redefines smart living with flexible in-room control and sleek architectural design. Ideal for residential and commercial use, its customisable interfaces simplify smart building management. iX4 is a comprehensive solution for building automation, with dedicated pages for various actions such as music control, lighting, thermostat, energy monitoring, and much more. Equipped with five sensors for proximity, air quality, temperature, light intensity, and humidity, it provides real-time data and weekly weather forecasts. The proximity sensor enhances energy efficiency.

Contact: <https://interratechnology.com>



ProAV Control Processor Basic

iRidi- New ProAV Control Processor from iRidi. ProAV Control Processor expands the variety of controllers for the iRidi Pro platform. It is a KNX-based solution for integrating professional AV systems with automation equipment. Provides control of automation devices in private homes, offices or conference rooms. Allows flexible customisation of individual scenarios for different use cases. Performs efficient control of audio and video systems in a single automation space. ProAV Control Processor with KNX allows you to create modern systems where the control of lighting, heating, air conditioning and AV systems becomes a unified and easily customisable process.

Contact: <https://iridi.com/landing/Multimedia/>



The next generation KNX radio

ise Individuelle Software und Elektronik GmbH - The KNX RF Multi/TP media coupler or RF repeater from the KNX RF Multi portfolio range enables both the expansion of existing systems and targeted operation in new buildings. It is possible to combine KNX devices with or without Secure in one installation. Existing KNX RF.1 (Ready) products and installations can be easily combined and extended with the media coupler. In order to extend the radio range, the media coupler can be used as a repeater. This means that problems with radio coverage are a thing of the past. The media coupler easily integrates existing devices in a downward-compatible manner. Thanks to the KNX RF Multi standard, future devices are just as easy to integrate.

Contact: <https://www.ise.de/en/knx-rf-multi>



'porta 4.0': the KNX Gateway of Ksenia Security

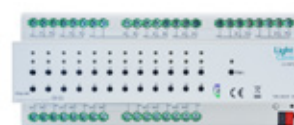
Ksenia Security S.p.A. - porta 4.0 is Ksenia Security's KNX compatible gateway that allows bi-directional integration between KNX devices and the entire family of security and smart home lares 4.0 control panels. Specifically, the bi-directional communication allows the lares 4.0 panel to perform a series of operations and send datagrams to KNX modules when a status change of zones, partitions, outputs occur. porta 4.0 is connected via Ethernet to the control panel and can be powered by PoE or by an external power supply (12/24Vdc). The entire configuration is carried out through the Ksenia SecureWeb interface, locally or remotely, from any mobile device.



Contact: www.kseniasecurity.com/en/

New 24 Channels Actuator

Light Control - The New LC-AMF24 Channels devices can set switch outputs, AC curtain outputs, DC curtain outputs, fan control outputs, and valve control outputs. The output requirements are configured via parameters. Switch outputs: connect some electrical loads, such as lighting, sockets. All channels have the function of the general switch, staircase lighting, light flashing and switch delay, scene, operation hours counter, logic and force operation; Curtain output(AC/DC): connect with motor blinds, awnings, roller blinds, vertical blinds, etc.



Contact: <https://www.lightcontrol-knx.com>

MDT: Smart in black

MDT Technologies GmbH - Functionality and aesthetical design are complementary for MDT. Elegant in design and featuring the well-proven functions, the assortment 55 finished in black is now tailored for any interior design and offers KNX users even more variety in sensor technology. KNX users can rely on the trustworthy functionality of the MDT assortment in white, within the new range in black. This makes the choice of colour an aesthetical design decision. Whether black or white, an equal price in the colour variants of the assortment 55. The new MDT assortment of black Push-buttons tailor fits to switch ranges of leading manufacturers.



Contact: www.smartinblack.com/en

KNX DALI-2 Gateway

MEAN WELL - DLC-02-KN is a KNX to DALI gateway used to connect a digital DALI lighting system to the KNX installation. It enables the room-based lighting control units to be conveniently incorporated into the higher-level KNX building management system. This device transforms switch and dim commands from the connected KNX system into DALI telegrams and status information from the DALI bus into KNX telegrams. DLC-02-KN supports up to 128 DALI-2 devices (part 202/207/208/209) via two independent DALI Bus. The DALI Bus power supply comes directly within DLC-02-KN, so no additional DALI power supply is required.

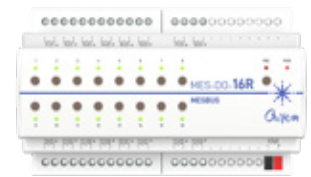


Contact: <https://building.meanwell.com/>

MES-DO-16R (16 Ch Actuator)

Messung Ourican - Messung Ourican's newest KNX offering is a multi-function actuator with 16 relays (16A per channel) that can be used for a wide array of control functions from basic light on/off, shutter control (2 channels per motor), geysers, fan on/off. An Accessory product to this actuator; Ex-CFC-1 (available separately) can be implemented with 4 relays to offer 1 channel ceiling fan control with 5 speed operation.

Contact: www.ourican.com



PEAKnx Control 12

PEAKnx GmbH - The PEAKnx Control 12 sets new standards in performance and durability, featuring innovative sensors such as a brightness sensor, a proximity sensor, and a notification LED on the front glass. It introduces a new concept in heat management and improved energy efficiency. The 11.6-inch, in-house developed, and modularly constructed panel is based on a full-fledged Windows 10 IoT Enterprise LTSC operating system. Thanks to a new hard drive, more efficient RAM, and a more powerful processor, it is up to three times more powerful than its predecessor, the Controlmini. The interchangeable glass covers offer various design options for this elegant touch panel.

Contact: www.peaknx.com



ARAGON for proactive AAL

ProKNX SAS - With the new ARAGON Master, our offline voice assistant can adapt to the resident's behaviour. The events transmitted via KNX, SensFloor (invisible, sensitive floor) and IoT enable: Automatic triggering of notifications (e.g. cooker switched on when leaving the kitchen), spoken reminders (e.g. to take medication), proactive enquiry (e.g. whether the light should be switched off when getting into bed or help should be requested if a fall is detected). Without transmitting or recording personal data, the resident can enjoy the comfort of their home intuitively and unobserved while still being safe.

Contact: <https://heyaragon.com/>



Graphic Display

ROBOTBAS S.A. - The Mallorcan company ROBOTBAS presents its new capacitive colour touch screen. Its minimalist, functional design and glass finish are JUNG series compatible, ensuring consistent aesthetics with existing devices. The set fits any universal switch box and includes an anti-theft. Its main features in brief are: Multizone climate control for fan coil with integrated temperature sensor, 2,6 inches, touch screen, ultra resistant glass, anti-fingerprint treatment, anti-theft system, brightness auto-adjustment and haptic feedback.

Contact: <https://www.robotbas.com/>



Improve your KNX installation security with LogicMachine

SIA Embedded Systems. - Security is one of the most important considerations in the design phase of a KNX system. With LogicMachine, you can encrypt your data, authenticate users and devices, secure your IP backbone and much more!

LogicMachine comes with full support for KNX Data Secure and secure KNX/IP Routing. IP backbone can be secured even further by using the IEEE 802.1X protocol which allows only authenticated devices to be connected to LAN. Many other secure protocols are supported out of the box: HTTPS, FTPS, MQTTS. BACnet secure connect is coming later in 2024. LogicMachine comes with a built-in scripting engine, schedulers, trend logs, visualisation and many other features for making your installation even better.

Contact: <https://www.logicmachine.net>



New Solar protection actuators

Siemens AG. - The new solar protection actuators N 545 and RL 524 are used to control 24V DC drives are designed to be used for windows and interior hangings. They offer a simple start-up due to automatic end position detection, which make manual move time determination and configuration obsolete. Automatic commands from a weather station enable sun tracking control with shade edge tracking. Integrated scene control or four preset hanging settings are used to call up and save defined blind and slat positions. For override due to alarms, such as for wind, rain or frost, defined move behavior can be configured. The maintenance-free terminals enable quick connection and simple looping through of untreated conductors.

Contact: www.siemens.com/knx



Presence Detectors in black

Siemens Schweiz AG. - Our Presence Detectors WIDE UP 258 (with brightness, temperature, humidity and CO2 sensors) and Motion Detectors WALL UP 251 (with brightness, temperature and humidity sensors) just got a new look and both are now available in black and white to fit every room situation perfectly. Get all benefits from a touchless HVAC and lighting control and full flexibility when it comes to design and the preferred mounting option. This creates the optimal ambient conditions room and ensures the precise measurement, monitoring and control of energy consumption – for maximum comfort and the highest energy efficiency.

Contact: www.siemens.com/knx



Blinds actuators for small venetian blinds

SOMFY. - The SOMFY Blinds actuator is specifically designed for tilting small Venetian blinds, utilising the NEW SOMFY DC motors TLW25. This actuator intelligently switches between manual and automatic operation to ensure excellent user-friendliness and energy savings. It enables very precise orientation of slats and/or alignment of load bars. The actuator is upgradable at any time for local control using radio Somfy RTS or EnOcean technology. It includes an integrated 24V DC power supply. For safer and quicker installation, the actuator features spring connectors and tension relief with cable ties. It provides status feedback through LEDs and indicates in case of overload.

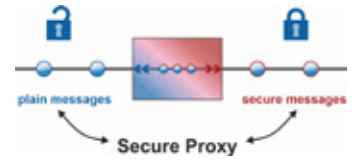
Contact: <https://www.somfy.com>



Slim System Devices and Secure Proxy

TAPKO Technologies is adding functional KNX extensions such as Segment Coupler and Secure Proxy to our valued KNX coupler technology. The Secure Proxy is an easy way to connect unsecure and secure devices using the same group address. Another step in our continuous device improvement is the reduction of the housing size for certain products in the TAPKO OEM range. For more information on our latest KNX devices, please visit us at L&B2024 in Hall 9.0 /E15.

Contact: www.tapko.de



KNX touch panels with hardened Linux

tci Gesellschaft für technische Informatik mbH - The new luna design touch panels from tci are equipped with a particularly secure Linux operating system. The system was developed using the Security-by-Design approach in order to reduce vulnerabilities in networked systems significantly. The kiosk web browser supports HTML5 and is universally applicable. The capacitive multitouch displays, available in sizes of 7, 10, 16, or 22 inches, are exceptionally bright. Thanks to the integrated temperature sensor, the panel can be used as a room controller. A bicolor LED on the front is configurable for various applications, such as indicating a door call in absence. A digital input allows the connection of a doorbell button.

Contact: <https://info.tci.de/en/smart-start>



SERENITY push / VELOCITY toggle switch

TENSE - The Serenity is a mechanical switch with 1,2 or 4 push buttons with a click feedback and can as well be operated by a single, double or multi-click. The Velocity is a mechanical switch with 1,2 or 4 toggle buttons and can as well be operated by a single, double or multi-click. This switch is available in almost all kinds of metal and is ideal for customisations such as engraving, lasering or printing (depending on the material type). These are all handmade products, hence makes every switch unique.

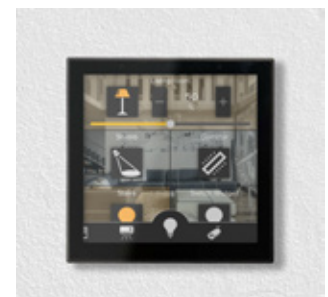
Contact: www.tense.be



THINKNX PICCOLO

THINKNX - Piccolo is a multi-tasking 4" touch controller that can suit multiple scenarios such as residential and both in tertiary and hospitality industry. It can work as client user interface of the Thinknx Pro or Trend Line, otherwise as stand-alone device with the KNX TP native connection. It integrates the most needed functionalities, a simple configuration of the UI and a high level of page customisation. Temperature and humidity sensors allow the use of Piccolo as thermostat. Integrated mic and speaker make it an internal Intercom station. WiFi and ethernet connection permit ubiquitous installation.

Contact: www.thinknx.com



SC340m - KNX Audio System

trivum - The new trivum SC340m is the ideal 4-zone streaming player for AirPlay, Spotify Connect and Internet Radio. Other streaming services are also supported, as is access to music files on the network. By combining it with other trivum multiroom players, projects with up to 64 zones can be implemented. trivum devices are known for their flexible and extensive KNX integration. The SC340m combines everything in one device: 4 streaming sources, 4 stereo amplifiers and the KNX connection via KNX/IP. The free app is available for iOS and Android. In addition to the app, any web browser can also be used for control.

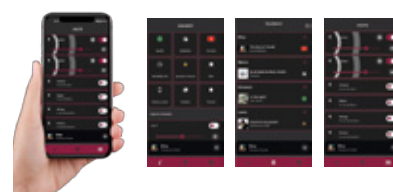
Contact: www.trivum.de/sc340m



TELEMACO audio integrated multiroom.

VIVALDI SRL - Audio multiroom for the KNX-REST.API-MQTT world Multimedia and integration with home automation for increasingly smart buildings and homes, easily managed by APP or PC. TELEMACO's integrated all-in-one multiroom system, complete with amplification and multimedia audio sources) is compatible with KNX, MQTT, REST.API and third-party home automation. Thanks to these management protocols, every room, every building has unlimited home automation possibilities to make the lives of those who live in these environments truly smart. Vivaldi firmly believes in a smart future and wants to help build a future that is ever closer and simpler to those who live in it.

Contact: <https://vivaldigroup.it/en/>



WAREMA KNX converter WMS

WAREMA Renkhoff SE - The WAREMA KNX converter WMS makes it easy to integrate sun shading products that are controlled with the popular WMS radio system into a KNX system. Commands are transmitted to the KNX converter WMS via KNX and forwarded wirelessly to the existing WMS receivers. Thanks to its small size, the converter can be retrofitted in a flush-mounted box with minimal installation effort. It is commissioned using the free WMS studio pro and ETS. Operation and automation are optionally possible with WMS transmitters and WMS sensors. The converter is certified KNX secure and features a clever update function via the bus line.

Contact: <https://smartbuildings.warema.com/en/bus-systems/knx/>



New actuator series from Weinzierl

Weinzierl - The new actuator series with 6 unit width from Weinzierl is characterised by a central power input for all channels. This allows quick and clear wiring as well as monitoring of the mains voltage. The KNX switching actuator 512 has 12 relay outputs, which are optimized for the requirements of LED lights in particular. To avoid current peaks, the KNX switching actuator 512 switches at zero crossing. In addition the application supports a time-shifted switch when switching-on multiple channels in parallel. The KNX blind actuator 522 offers 6 channels for controlling blinds, shutters or other drives with mains voltage. The outputs are each electrically interlocked against double current output.

Contact: <https://www.weinzierl.de/en/products/512>



Seamless integration possibilities with Pairot

xxter - With Pairot voice control you can make a KNX installation available for Apple HomeKit, Amazon Alexa and Google Assistant. We are thrilled to announce that we have seamlessly integrated Matter into Pairot, allowing you to easily use KNX as Matter accessories or incorporate Matter accessories into your KNX setup. Matter compatibility extends to a wide range of devices and systems, and the list is growing. Extend the interoperability of KNX even further by using Pairot. Evolve with the latest technologies and experience the future of smart living with Pairot.

Contact: <https://www.xxter.com/pairot/en/>



xxter Smart Energy Manager

xxter bv - The Smart Energy Manager combines all available data to manage energy smarter in a building or home. By combining user preferences and data like solar production, weather forecast and dynamic pricing, a schedule is made for the energy endpoints. For example, the Smart Energy Manager uses weather forecasts to predict the output of solar panels, dynamic prices to schedule smart charging of your car and much more. By optimising the use of solar panels, smart charging of EV's and running of appliances when energy demand and prices are lowest, the installation is more self-sufficient and energy costs can be reduced by 30%. The Smart Energy Manager is implemented free of charge in every xxter controller.

Contact: <https://www.xxter.com/pairot/en/>



A device designed to make life easier in the safest way

Zennio - How many times have you thought of being able to open a door without the need of a physical key? The new IWAC Out Keypad is a KNX Secure device that allows the door to be opened immediately by entering a numeric code that can be generated in Z50/Z70/Z100. The device has been designed to be installed both indoors and outdoors. In addition, it withstands adverse weather conditions and has a high impact resistance (IP56 and IK7 protection). Its operation is simple and intuitive and improves the experience of both the user who owns the room and the user who visits it. In short, this innovative device allows flexible and autonomous entry in the safest way for both parties.

Contact: <https://www.zennio.com/product/iwac-out-keypad>



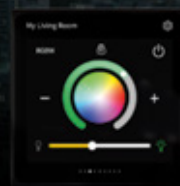
Schneider Electric Offers

KNX SECURE CONNECTIVITY

from Devices to Cloud with SpaceLogic KNX
Lighting Control Solutions for Commercial Buildings

Schneider Electric delivers KNX
Secure devices to control lighting
that guarantee maximum security.
Devices are all part of our
SpaceLogic KNX range:

- IP & Usb Interface
- Coupler & Router
- spaceLYnk Controller
- IP BMS Interface
- Switch & Dimmer Master
- DALI Pro & BroadCast Gateway
- Presence Detector
- Push Button Interface
- Push Button Pro T
- Push Button Dynamic Labelling
- 4" Touch Panel



Scan the QR code
to find out more























se.com

We welcome the following companies to our KNX Community



NEW KNX MEMBERS

 <p>3R Russia http://www.3r.ru</p>	 <p>AA Company Limited China /</p>	 <p>Akuvox Open A Smart World China https://akuvox.com</p>	 <p>Arklyfe Pty Ltd Australia /</p>
 <p>Atouch Winwel Lda Portugal https://atouch.winwel.com</p>	 <p>Atys-co Ltd Hungary www.atysco.hu</p>	 <p>Beijing Hysine Technology Co., Ltd. China www.hysine.cn</p>	 <p>Beijing Systemteq intelligent technology co., LTD China www.systemteq.net</p>
 <p>Bits & Bytes NV Belgium www.bitsbytes.be</p>	 <p>BOKE Drivers Co., Ltd. China www.bokedriver.com</p>	 <p>BSS GmbH Germany https://bss-sdi.com/</p>	 <p>BVBA Balemans Consulting Belgium /</p>
 <p>CAV AUDIO (GUANGZHOU) CO.,LTD China www.cav-sh.com</p>	 <p>Drasis Software Solutions Pvt Ltd India https://lumielectronics.com</p>	 <p>DRD-Technics Belgium www.drd-technics.be</p>	 <p>FISHBONE Design Co., Ltd. Taiwan www.rexlite.com.tw</p>
 <p>Fujian Nexhome Intelligent Technology Co.,Ltd. China www.nexhome.cn</p>	 <p>Guangdong Yozewit Intelligent Technology Co.,Ltd. China www.yozewit.com</p>	 <p>Guangzhou Plato Electric Co., Ltd. China www.bolatudq.com</p>	 <p>Helkama Bica Oy Finland https://helkamabica.com</p>
 <p>Henan jieruan Technology Co., Ltd. China /</p>	 <p>HMS Industrial Networks Pte Ltd Singapore www.hms-networks.com</p>	 <p>Huoteng Wulian (Jiangsu) Co., Ltd China www.horten.com.cn</p>	 <p>ILite ledlighting United Kingdom www.iliteledlighting.com</p>



Inspinia Technology S.R.O

Czechia
www.inspinia.eu



IOLOGY ELEKTRONIK YAZILIM
 DANISMANLIK LTD STI

Turkey
www.iology.com.tr



KNXES COMPANY LIMITED

China - Hong Kong
 /



LePlan P.C.

Greece
www.leplan.gr



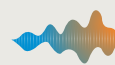
Light Field GMBH

Germany
www.zimmex.eu



LLC NS TOUCH

Ukraine
<https://ns-touch.com>



masterpiece
 Audio, Video & Solutions

Masterpiece Integrated
 Systems LIMITED

Egypt
www.masterpieceav.com



مستك
 MES C

Middle East Specialized Cables
 Co. (MES C)

Saudi Arabia
www.mesccables.com



ModuLyte

United Arab Emirates
www.modulyte.com



MOX CONTROL IT
 (CHINA) LIMITED

China
www.mox.com.cn



NINGBO QIYUAN LIGHTING
 TECH CO.,LTD

China
www.qiyuanlighting.com



Ningbo Xinghong Intelligent
 Technology Co.,Ltd

China
 /



Nordic Semiconductor
 ASA

Norway
www.nordicsemi.com



Panasonic Life Solutions India
 Private Limited

India
 /



Passiv Energie GmbH

Germany
<https://passiv-energie.com>



Payne Technologies Ltd

United Kingdom
www.paynetech.co.uk



QSC, LLC

United States
www.qsys.com



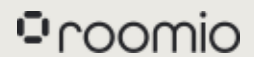
REÇBER KABLO A.S.

Turkey
www.recber.com.tr



Rhombus Europe

Bulgaria
www.rhombus-europe.com



ROOMIO LIMITED

Cyprus
<https://room.io>



SBR System Technical

United Arab Emirates
 /



Securi-Flex Ltd

United Kingdom
www.securiflex.co.uk













Shanghai Liangxin Smart
 Electrical Engineering Co., Ltd.

China
<https://smart.sh-liangxin.com>



Shenzhen EastKame
 Technology Co., Ltd.

China
www.eastkame.cn

 <p>EXC® 爱克</p> <p>Shenzhen EXC-LED Technology Co.,LTD</p> <p>China www.exc-led.com</p>	 <p>Shenzhen Private Home Intelligent Technology Co., Ltd</p> <p>China /</p>	<p>TOPBAND 拓邦</p> <p>Shenzhen Topband Co., Ltd</p> <p>China /</p>	 <p>Shenzhen Turing-Think Intelligence technology Co., Ltd</p> <p>China /</p>
 <p>brings spaces to life</p> <p>SIEGENIA-AUBI KG</p> <p>Germany www.siegenia.com</p>	 <p>Solaregy UG</p> <p>Germany https://solaregy.de</p>	 <p>Sonoro Audio GmbH</p> <p>Germany www.sonoro.com</p>	 <p>VIBROXX-FZCO</p> <p>United Arab Emirates www.vibroxx.com</p>
 <p>华永永盛 WALL YONS</p> <p>Wall Yons</p> <p>China https://wallyons.com</p>	 <p>Xyte Technologies, Inc.</p> <p>Israel www.xyte.io</p>	 <p>Zykronix Incorporated.</p> <p>United States /</p>	

NEW KNX USERCLUBS / PROFESSIONALS



 <p>KNX Userclub Azerbaijan</p> <p>Contact person: Farrukh Orujzade ferrux344@hotmail.com https://knx.az/</p>	 <p>KNX Userclub Egypt</p> <p>Contact person: Mohamed Ali mohamed.ali@knxuserclubegypt.com https://www.knxuserclubegypt.com/</p>	 <p>KNX Userclub Panama</p> <p>Contact person: Martin Boehringer info@codax-int.com http://www.linkedin.com/groups/12908256</p>
--	--	---

theben

Smart Home & KNX Training case How to teach & learn Building automation today!

The training cases from Theben are the professional tool for in-depth specialist training in building technology and are used successfully in the field of smart home, network technology and in KNX certification courses.

The devices included are oriented towards the standard functions of a building (switching & dimming light, shading, heating, sensor technology). The intuitive and clear layout enables focused learning for the participants.

Request a suitcase now!
www.theben.de/knx-case



Building
Automation
since 1921

NEW KNX TRAINING CENTRES



Adeo Group S.r.l.

Italy
www.adeogroup.it



Aldous Systems (Europe) Ltd

United Kingdom
www.aldoussystem.co.uk



Bati-Acces

Switzerland
www.batiaces.ch



CIAS

Centre for Instructor and
 Advanced Skill Training (CIAS)

Malaysia
www.cias.gov.my



Core Smart Home

Turkey
www.core.com.tr



DELPHY[™]
 AUTOMATION
 WAY TO SMART LIVING.

Delphy Automation

India
www.delphyautomation.com



Elektro Graßl GmbH

Germany
www.elektro-grassl.de



شركة النخبة الهندسية
 للمقاولات، التجارة العامة والحلول المخصصة

El-Nukhba Engineering
 Company

Iraq
www.elnukhba.com



EPHEC Formation Continue

Belgium
www.ephec.be



FH-Systemintegration

Germany
www.fh-systemintegration.de



Handwerkskammer Dresden

Germany
www.njumii.de



Handwerkskammer
 Niederbayern-Oberpfalz

Handwerkskammer
 Niederbayern-Oberpfalz

Germany
www.hwkno.de



Hangzhou EaseMore
 Technology Co., Ltd.

China
www.easemore.cn



Iddero

Spain
www.iddero.com



iHomeFuture

United Arab Emirates
www.ihomefuture.com



iHomeFuture Egypt

Egypt
www.ihomefuture.com



Institut Kemahiran Mara
 Seberang Perai Utara

Malaysia
www.facebook.com/ikmseberangperaiutara



Institut Latihan Perindustrian
 Kepala Batas

Malaysia
www.ilpkbpp.gov.my/ms



IntelliMe

Egypt
www.intellime.net



KNX Centar za edukaciju i
 certificiranje Sarajevo

Bosnia and Herzegovina
www.hager.ba



**KOLEJ KOMUNITI
KUALA LANGAT**

Kolej Komuniti Kuala Langat
Malaysia
<https://kkkualalangat.mypolycc.edu.my>



OCHER

Ocher LV Solutions Private Limited
India
www.ocher.co.in



HAWA KREATIVA

Pt. Hawa Kreativa Internasional
Indonesia
www.hawakreativa.com



comet SimeVignuda

SimeVignuda S.p.a.
Italy
<https://gruppocomet.it/simevignuda>



sonepar
Powered by Difference

Sonepar IT
Italy
www.sonepar.it/it-it



TECHNI
POWER

Technipower
Morocco
<https://technipower.ma>



The Square One

The Square One
Korea, Republic of
www.ls990.co.kr



VIMAR
energia positiva

Vimar SpA.
Italy
www.vimar.com



CITRON 世聰智能

Wuhan Citron Intelligent Technology Co., Ltd
China
www.citron-iot.com

NEW KNX SCIENTIFIC PARTNERS



eurecat

Eurecat
Spain
<https://eurecat.org/>



HTW
Hochschule für Technik und
Wirtschaft Dresden
University of Applied Sciences

Hochschule für Technik und
Wirtschaft Dresden
Germany
www.htw-dresden.de



**TECHNISCHE
HOCHSCHULE
LÜBECK**

Technische Hochschule
Lünebeck, Professur Energie
und Gebäudetechnik
Germany
www.th-luebeck.de



KNX introduced the future of education with KNX NextGen!

KNX Association is proud to introduce KNX NextGen, an innovative and exciting educational program available for secondary schools, colleges, and universities, offering non-commercial courses. Educational institutes can now apply to become 'KNX NextGen' and start offering KNX Elementary courses to students. This to make KNX education as accessible as possible for the future generations of KNX installers.

The threshold for schools is very low as well, requiring teachers to only have the KNX Basic Course Certificate to teach KNX Elementary Courses. Only one actuator and sensor is required for demonstration purposes and students can use the freely available KNX Virtual to do their exercises. KNX NextGen has many benefits for schools as well as its students.

Benefits for schools to become KNX NextGen

- You can hand out official KNX Certificates to students after successful exams.
- We offer 1 ETS Professional and 10 ETS Lite cloud-based licenses free of charge.
- Enjoy free access to constantly updated Word versions of the KNX training documentation in multiple languages.
- Display the official KNX NextGen logo on letterheads, business cards, websites, and more.

Benefits for students to attend a KNX Elementary course

- The KNX Elementary course comes at no extra cost. Verify if your vocational school provides KNX Elementary courses.
- When you enroll, you will receive a free ETS Lite cloud-based license.
- After passing the KNX Elementary course, you will be awarded an official KNX Apprentice certificate and the KNX NextGen logo.
- When you complete a KNX Elementary course and decide to follow the KNX Basic Course next to become a KNX Partner, the course duration will be a lot shorter.

If you are a school and are interested in offering non-commercial KNX Elementary Courses, you can easily apply via MyKNX. Only a one-off fee of €250 is charged, making it a no-brainer to elevate your school to the KNX NextGen status. If you need additional practical info and guidelines, please visit:

<https://support.knx.org/hc/en-us/categories/11900079031570-NextGen-educational-institutes>

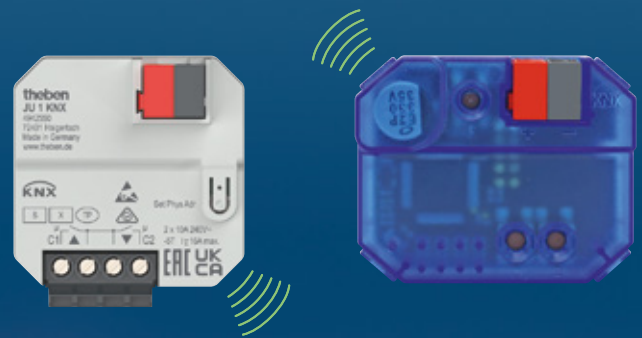
theben

Simply more flexible for retrofitting & renovation KNX RF actuators with Data Secure

RF flush-mounted actuators with KNX Data Secure are available as blind, switching, dimming and heating actuators. Integrated binary inputs enable the connection switches, window contacts and temperature sensors.

Each KNX radio actuator can be used as a repeater to further increase the range. The LBT procedure („listen before talk“) prevents collisions of transmitted commands.

More at www.theben.co.uk



Building Automation since 1921

KNX NATIONAL GROUPS



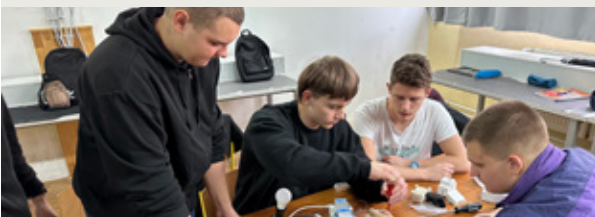
KNX Days Argentina



KNX Roadshow Australia



KNX Model School Workshop - Bosnia & Herzegovina



KNX Days Brazil



GEBT 2023 - China



SIBT 2023 - China



KNX Days Colombia



KNX: The History and Tehnology of Building Automation University Lectures - Croatia



AMPER 2023 - Czechia



KNX-dagen 2023 - Denmark



KNX Tour France



KNX Energy Summit - Germany



Smart Home Expo 2023 - India



KNX Roadshow Japan



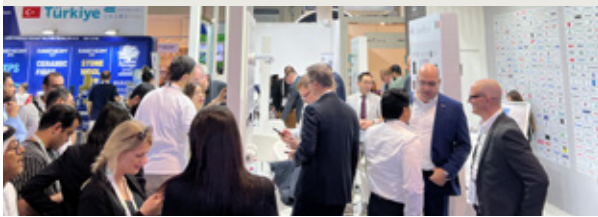
FGT Summerfest 2023 - Luxembourg



Integratec Mexico



BIG 5 Global - Middle East



KNX Network Event - Netherlands



KNX Experts Meeting 2023: IoT Edition - Poland



KNX Romania Awards



WorldSkills ASEAN Singapore



Elfack 2023 - Sweden



KNX UK Conference - Intelligent Buildings Event



Lightfair 2023 - United States



EVENTS & FAIRS - Event Schedule

Below you can find a selection of upcoming events KNX Association and its National Groups will be present. For the complete list, visit <https://www.knx.org/knx-en/newsroom/>

	Frankfurt GERMANY	Light+Building 2024	March 3-8	The world's leading trade fair for lighting and building services technology.	https://light-building.messefrankfurt.com
	Brno CZECH REPUBLIC	AMPER 2023	March 19-21	International technology trade fair	https://www.amper.cz/
	Lissabon PORTUGAL	Tektonica	May 2-5	The largest Portuguese Building and Construction Fair.	https://tektonica.fil.pt/
	Mumbai INDIA	Smarthome Expo 2024	May 2-4	Largest trade show and conference within the smart home technology in India.	https://www.smarthomeexpo.in
	Odense DENMARK	EI & Teknik	May 14-16	The largest electro-technical trade fair in Denmark.	https://www.elogteknikmessen.dk/
	Barcelona SPAIN	IoT Solutions World Congress	May 21-23	The premier event for digital transformation trends and disruptive technologies.	https://www.iotworldcongress.com/
	Santa Clara USA	IoT Tech Expo	June 5-6	The world-leading IoT event series.	https://www.iottechexpo.com
	Guangzhou CHINA	Guangzhou Electrical Building Technology	June 9-12	Asia's premier platform for the electrical engineering, building and home automation markets.	https://guangzhou-electrical-building-technology.hk.messefrankfurt.com/guangzhou/en.html
	Shanghai CHINA	SIBT 2024	September 3-5	China's premier platform for intelligent building technology.	https://shanghai-intelligent-building-technology.hk.messefrankfurt.com/shanghai/en.html
	Lyon FRANCE	WorldSkills 2024	September 10-15	International Championship for young professionals of skills.	https://www.worldskills.org
	Bielsko-Biala POLAND	Energetab	September 24	The largest energy fair in central Europe.	https://energetab.pl/
	ONLINE	KNX Awards 2024	September 25	Celebrations of the smartest home and building projects realized with KNX.	https://awards.knx.org
	Stockholm SWEDEN	Elmässan 2024	October 16-17	The most vibrant meeting place for the electricity sector.	https://www.elmassanstockholm.se
	Porto PORTUGAL	Decor Hotel	October 24-26	Decor Hotel presents news related to hotels, design, services for hotels and restaurants and decoration.	http://exposalao.pt/en/feira/decor_hotel
	Frankfurt GERMANY	belektro	November 5-7	Trade Fair for electronics and lighting.	https://www.belektro.de/
	Madrid SPAIN	Matelec 2024	November 5-8	International trade fair for the electrical and electronics industry.	https://www.ifema.es/en/matelec
	Paris FRANCE	IBS	November 13-14	IBS is one of the leading fairs with focus on the city, intelligent networks and sustainable mobility.	https://www.ibs-event.com/
	Tokyo JAPAN	Smart Home Expo 2024	December 11-13	Specialised show for smart homes.	https://www.japan-build.jp/tokyo/en-gb/about/smart-home.html
	Las Vegas USA	CES 2025	January 7-10	Event where the world's biggest brands do business and the sharpest innovators hit the stage.	https://www.ces.tech
	Barcelona SPAIN	ISE 2025	February 4-7	The world's leading AV and systems integration exhibition.	https://www.iseurope.org/

2024

Meet us here:
warema.com/en/fairs



Intelligent networking with KNX connect & secure:

**Beautiful facades.
With a lot behind them.**

- / AP and REG actuators for 2 to 8 sun shading drives
- / Test and diagnosis via smartphone
- / Highest KNX secure encryption
- / Update function via the bus line
- / Automatic run time detection

Find out more now: www.warema.com/en/knx



Der SonnenLichtManager

VIDEOS & WEBINARS

In this section we highlight some of the most interesting recent videos from KNX association's YouTube channel.



New ETS6 Release: Version 6.1.1

Michael Critchfield, KNX Product Manager, gives an extensive overview of some new functions and features of the new ETS6 Release, version 6.1.1.

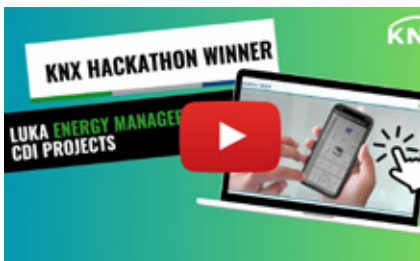
<https://youtu.be/pXcUnaBqi9A?si=893G9oWzMmvsBNkR>



KNX IoT Expands the Ecosystem

As the world of “building control” and the internet gradually merge, today’s borders between the two will disappear. KNX IoT addresses just that. It’s a new world and an expanding KNX ecosystem: and this session explains how to get started and where to access more resources to succeed.

<https://youtu.be/SNkJ0pcAU4s?si=70GalOPaGNAeLSos>



KNX Hackathon Winner: Luka Energy Manager by CDI Projects

The Luka Energy Manager can increase the consumption of self-generated power in a home with a KNX installation to 90%. LUKA connects to the KNX network and takes advantage of KNX switch actuators and KNX gateways to measure energy flows and to control technical installations.

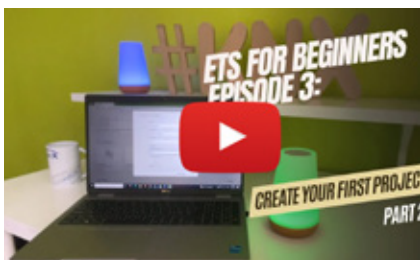
<https://youtu.be/tU6WxQEa4-A?si=0PgIRJ-CiSD67XxI>



Why is KNX the Best Technology for Energy Transition in Smart Homes and Buildings?

KNX is the solution for energy transition, with building blocks proven through the years. This presentation will show why the approach often suggested by competing technologies is usually not the right choice.

<https://youtu.be/GeEtOtquS3w?si=oYFnjHBD00PL2ZYZ>



ETS6 for beginners

In this handy set of videos, we provide you short video tutorials on how to get you started with ETS6 and discover the main steps to get you on your way with your first KNX projects.

https://youtube.com/playlist?list=PL9NWvz0cOjNOboCuten_R6gm-MvKhhO3xZ&si=iEflL9Qe5PTxtwve



Cybersecurity in KNX: Tools and Tips for Secure Installation

Get insights on KNX security measures and discover how advanced technology and tools are employed to guarantee the safety of KNX installations. Join us to gain invaluable insights and best practices for ensuring the utmost security.

<https://youtu.be/72Pv9N4XZBc?si=w3N90bPDGzsVfUyR>



Lighting & shutter control



Safety & security



Heating & cooling



Energy management



SpaceLogic KNX Hybrid Solution: Add wireless capability and enrich your KNX Ecosystem.



From eConfigure to Wiser KNX App, seamlessly integrate KNX & Zigbee for a complete smart home solution. Manage energy, add flexibility, and enjoy peace of mind with Schneider Electric's comprehensive Zigbee device range.



Future proof
Easy retrofit



Economic efficiency
Cost effective upgrade.
Easy and quick installation



Flexibility
Secure and easy to use



Sustainability
Energy monitoring and control



Scalability
Start small. Add more.

Scan the QR code to find out more



se.com



Smart home and building solutions.
Global. Secure. Connected.





Imprint

KNX JOURNAL INTERNATIONAL

The KNX Journal is the international magazine for home and building control based on KNX technology. Experts, practitioners and professionals show the way in applying and developing the KNX standard – from home and building control trends to devices and application projects; from the KNX members and partners to useful information on event stands and publications. Special attention is given to members and activities of the KNX Association International and their national groups.

Distribution

This annual and bilingual Journal (English/German) is distributed as a digital edition only and will only be printed for distribution for special occasions like fairs and events.

Subscribe to our Newsletters

Stay up-to-date on all KNX news by subscribing for our newsletters via <https://my.knx.org>

Online Distribution

The KNX Journal International is posted as a Portable Document Format (PDF) file to www.knx.org

Editor

KNX Association cvba
De Kleetlaan 5 Bus 11
B-1831 Diegem - Brussels, Belgium
Phone: +32 (0) 2 775 85 90
Fax: +32 (0) 2 675 50 28
Email: info@knx.org
URL: www.knx.org

Picture credits

KNX Association cvba, editorial office
and specified companies

Cover:

©iStock: krungchingpixs

Copyright

Reproduction of contributions only with permission of the publishing house under detailed source data. The publishing house does not take any responsibility for unsolicited manuscripts and entries.

The photos are provided by the respective companies. Brands used in this magazine without guarantee that they may be freely employed.

Texts, illustrations and technical data are carefully compiled, nevertheless errors cannot be completely excluded. The publishing house and the authors assume no legal responsibility or liability for incorrect data. KNX® and ETS® are registered trademarks of KNX Association cvba, Belgium.

Follow us





Smart home and building solutions.
Global. Secure. Connected.

One **Standard** (ISO/IEC 14543)
One **Tool** (ETS)
All **Media**

Ethernet (IP)
Twisted Pair (TP)
Radio Frequency (RF)
Powerline (PL)

500 KNX MANUFACTURERS
IN **47** COUNTRIES
8,000 KNX CERTIFIED PRODUCTS

125.000+ KNX PARTNERS IN
173 COUNTRIES

17 TEST LABS
IN **9** COUNTRIES

173 KNXSCIENTIFIC PARTNERS
IN **40** COUNTRIES

24 ASSOCIATED PARTNERS
IN **9** COUNTRIES

500 KNX TRAINING CENTERS
IN **73** COUNTRIES

26 KNX USER CLUBS
IN **21** COUNTRIES

45 KNX NATIONAL GROUPS

