Advantages of KNX

January 2021
KNX is the Standard

**CENELEC**

**EN 50090**
The only European Standard for Home and Building Electronic Systems (HBES) based on KNX.

**CEN**

**EN 13321-1**
The European Standard for Building Automation based on KNX.

**ISO/IEC**

**14543-3**
The World’s only Standard for Home Electronic Systems (HES) based on KNX.

**US STANDARD**

(ANSI/ASHRAE 135)

**GB/T**

**GB/T 20965**
Chinese Standard for Home and Building Control based on KNX.
Advantages of KNX
KNX – Advantage No. 1

KNX is a standard here to stay!

- **CENELEC**
  - KNX \(\rightarrow\) EN50090
  - 2003

- **CEN**
  - KNX \(\rightarrow\) EN13321-1/2
  - 2005

- **ISO/IEC**
  - KNX \(\rightarrow\) ISO/IEC14543-3
  - 2006

- **ANSI/ASHRAE**
  - KNX
  - 2006

- **SAC (P.R. CHINA)**
  - KNX \(\rightarrow\) GB/T 20965
  - 2013

Smart home and building solutions.
KnX – Advantage No. 2

**Guaranteed Interoperability through neutral certification**

- KnX is the only home and building control standard running global certification schemes for
- Products
- Training Centers
- Persons

- Product compliance is checked at neutral third party test laboratories

KnX Logo guarantees interoperability between products of different manufacturers and applications.
KNX – Advantage No. 3

**KNX = High Product Quality**

- KNX Association requires high level production and quality control during all stages of the product’s life.
- All manufacturers have to show compliance to ISO 9001 = prerequisite for product certification.
One Tool – the Engineering Tool Software ETS™!

- One PC software tool for
  - Design
  - Configuration
  - Diagnostics

of KNX all certified products

- Tool is manufacturer, devices and application independent – integrator can combine products of different manufacturers and applications in one installation

- Tool is extendable with customized Apps
KNX – Advantage No. 5

Fit for use in ALL applications in home and building control!

- External Services
- Building Control
- Ventilation
- Lighting
- Renewable energy
- Visualisation
- Air conditioning
- Energy Management
- Shutters and Blinds
- Home appliances
- Irrigation
- Audio & Video
- Heating
- Remote operation per web or telephone
- Smart Metering
- Smoke Detector
- Anti-intrusion
KNX – Advantage No. 6

*Fit for use in all kinds of buildings!*

- New or Existing Buildings
- One family houses or large size buildings
- Easy extendible/adaptable to new needs
KNX – Advantage No. 7

**Support for different transmission media**

- **Twisted Pair**
- **Power Line**
- **Radio Frequency**
- **Ethernet/WIFI**
**Support for different configuration Modes**

- **System Mode**
  - A Configuration with PC (ETS)
  - B Prior basic course training recommended
  - C Any size of installation

- **Easy Mode**
  - Configuration without PC
  - No prior training necessary
  - Small or medium size installations

Smart home and building solutions.
KNX - Advantage No. 9

**Easy coupling to other systems**

- KNX members offer large variety of gateways to couple to other systems

Examples:

- Mapping to BACnet
- Interfacing with DALI
KNX – Advantage No. 10

**KNX is independent from any hard- or software technology**

- KNX manufacturers can develop own protocol solution

1. From scratch
2. On basis of existing certified system components from other KNX members

- KNX is completely FREE of additional royalty fees: No IPR royalties to be paid for KNX standard features used in KNX certified products to other KNX members
Facts & Figures

January 2021
500 KNX Members in 45 countries
More than 8000 certified KNX Devices
504 Training Centres in 72 countries
95323 KNX Partners in 171 countries
22 KNX Userclubs in 20 countries
45 KNX National Groups

Local associations promoting KNX in different regional markets
161 Scientific Partners in 36 countries
24 Associated Partners
Smart home and building solutions.
Smart Home / Light Commercial Market Study 2017
Smart Home/Light Commercial market study 2017

- KNX 56%
- EnOcean 10%
- Z-Wave 4%
- ZigBee 5%
- Others 5%
- Proprietary 15%
- Wi-Fi 3%
- Bluetooth 2%

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Smart Home/Light Commercial market study 2017

Smart Homes / Light Commercial Market
Worldwide Report

- Proprietary: 36%
- KNX: 32%
- Wifi: 4%
- Bluetooth: 4%
- ZigBee: 4%
- Z-Wave: 8%
- EnOcean: 2%
- Others: 10%

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Smart Home/Light Commercial market study 2017

Smart Homes / Light Commercial Market
Worldwide Report

- Z-Wave: 25%
- ZigBee: 15%
- KNX: 34%
- Others: 4%
- Proprietary: 15%
- EnOcean: 1%
- Wifi: 4%
- Bluetooth: 2%

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Smart Home/Light Commercial market study 2017
Smart Home/Light Commercial market study 2017

Smart Homes / Light Commercial Market
Worldwide Report

China

- KNX 42%
- ZigBee 9%
- Z-Wave 1%
- EnOcean 1%
- Others 8%
- Proprietary 38%
- Wifi 1%
- Bluetooth 0%

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More Info Needed?

Visit the KNX Website

Brochures and presentation in our download section

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Buy our eBooks on Amazon

Start@KNX

Enrol in our KNX Webinars

Discover ETS5 via the eCampus

Follow a Certified KNX Course

Join an Online Training Program

Thank you very much for your attention
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