Advantages of KNX

September 2019
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.

**GB/T**
- **GB/T 20965**
  Chinese Standard for Home and Building Control based on KNX

(ANSI/ASHRAE 135)
Advantages of KNX
KNX – Advantage No. 1

KNX is a standard here to stay!

- CENELEC
  - KNX → EN50090

- CEN
  - KNX → EN13321-1/2

- ISO/IEC
  - KNX → ISO/IEC14543-3

- ANSI/ASHRAE
  - KNX

- SAC (P.R. CHINA)
  - KNX → GB/T 20965
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**

1. KNX Association requires high level production and quality control during all stages of the product’s life.

2. All manufacturers have to show compliance to ISO 9001 = prerequisite for product certification.
KNX – Advantage No. 4

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
- Door communication
- 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
KNX – Advantage No. 8

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
KNX – Advantage No. 9

Easy coupling to other systems

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

- Examples
  
  A
  
  Mapping to BACnet

  B
  
  Interfacing with DALI
KNX – Advantage No. 10

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

- KNX manufacturers can develop their 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

September 2019
490 KNX Members in 44 countries
490 KNX Members in 44 countries

Smart home and building solutions.

www.knx.org
More than 8000 certified KNX Devices
17 KNX Test Labs in 9 countries
484 Training Centres in 72 countries
86918 KNX Partners in 166 countries
22 KNX Userclubs in 20 countries
45 KNX National Groups

Local associations promoting KNX in different regional markets
154 Scientific Partners in 36 countries
KNX Projects in more than 190 countries
ETS Sold in 145 countries
Smart Home / Light Commercial Market Study 2017
Smart Home/Light Commercial market study 2017

Smart Home / Gewerblicher Zweckbau
Weltweite Marktstudie

Germany

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

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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

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

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Smart Home/Light Commercial market study 2017

Smart Homes / Light Commercial Market
Worldwide Report

- KNX 27%
- ZigBee 14%
- Z-Wave 13%
- EnOcean 5%
- Others 11%
- Proprietary 20%
- Wifi 7%
- Bluetooth 3%

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Smart home and building solutions.
Smart Home/Light Commercial market study 2017

Smart Homes / Light Commercial Market
Worldwide Report

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

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More Info Needed?

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Join an Online Training Program

Join the Worldwide KNX Community

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Thank you very much for your attention
info@knx.org – www.knx.org