Advantages of KNX

February 2022
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!

- CEN-ELEC
  - KNX → EN50090
  - 2003

- CEN
  - KNX → EN13321-1/2
  - 2005

- ISO/IEC
  - KNX → ISO/IEC14543-3
  - 2006

- ANSI/ASHRAE
  - KNX
  - 2006

- SAC (P.R. CHINA)
  - KNX → 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
  
  A. Products  
  B. Training Centers  
  C. 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.
KNX – Advantage No. 4

One Tool – the Engineering Tool Software ETS™!

- One PC software tool for

  A. Design
  B. Configuration
  C. 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!
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
  - Configuration with PC (ETS)
  - Prior basic course training recommended
  - Any size of installation

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

Smart home and building solutions.

www.knx.org
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 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

February 2022
500 KNX Members in 46 countries
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More than 8000 certified KNX Devices
17 KNX Test Labs in 9 countries
499 Training Centres in 73 countries
103399 KNX Partners in 177 countries
45 KNX National Groups

Local associations promoting KNX in different regional markets
45 KNX National Groups
173 Scientific Partners in 40 countries
24 Associated Partners
KNX Projects in more than 190 countries
ETS Sold in 155 countries
500
KNX Manufacturers
in 45 Countries
8000 KNX Certified Products

103399
KNX Partners
in 171 Countries

499
KNX Training Centres
in 72 Countries

173
KNX Scientific Partners
in 36 Countries

23
KNX Userclubs / Professionals
in 20 Countries

24
Associated Partners

45
KNX National Groups

17
Test Labs
in 9 Countries

ETS
Sold
in 155 Countries
Market Research Study 2021

ORGANISER
Online Magazine: Hiddenwires
IML Group

SCOPE
Worldwide, mostly European study.
Target group: Integrators working in the smart home market

REACH
Database: 60.000
Sample size achieve: 8.012
Conclusions

1. KNX ranked the top 1st communication protocol/ecosystem known by industry professionals present in the smart home market.

2. 62+% Smart Home professionals specify the KNX technology in their integration projects.

3. KNX is 3 times ahead of main competitors present in the smart home market (CSA/Zigbee....)
READ the hiddenwires article here

https://www.hiddenwires.co.uk/features/article/state-of-the-smart-home
More Info Needed?

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