



Smart home and
building solutions.

Global. Secure. Connected

**KNX – The language of free and
future-proof smart building controls**

Learning Outcomes

What is KNX?

What are the benefits of KNX?

Freedom of products

Supply chain advantages

How is the KNX supply chain being managed?

Freedom of design

What does open protocol mean for building design?

Design led solutions

Freedom for the future

Sustainability

Security

What is KNX?

500

Members

8.000

Products

500

Training Centres

190

Countries

100.000

KNX Partners

KNX is an open protocol control system that allows certified products from various manufacturers to work seamlessly together.

It operates on a standardised bus cable with a common language, allowing different products to work together.



What can you control with KNX?

Lighting, shutters, security systems, energy management, heating, ventilation, air-conditioning systems, signalling and monitoring systems, remote control, audio and video control... All these functions work via a common system.

What are the benefits of KNX?

- A future-proof technology
- Endless flexibility and personalisation
- A safe and secure system
- Timesaving and easy installation
- An integrated and future proof solution
- An international community

Freedom of products

The worldwide STANDARD for home and building control

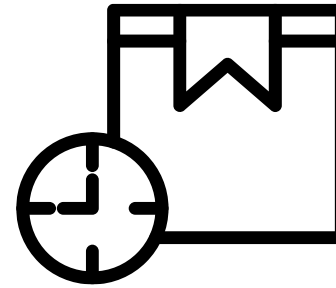


- 500 manufacturers, all working to a minimum specification
- Choice of single or multiple manufacture solutions
- Guaranteed interoperability across all manufactures
- One independent software to program all 500 manufactures products

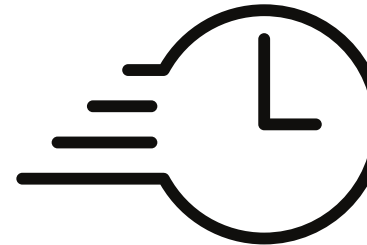
Supply Chain Advantages



Interoperability with open systems and open standards increases supply chain resiliency.



Up to 15 months current lead time on some proprietary systems



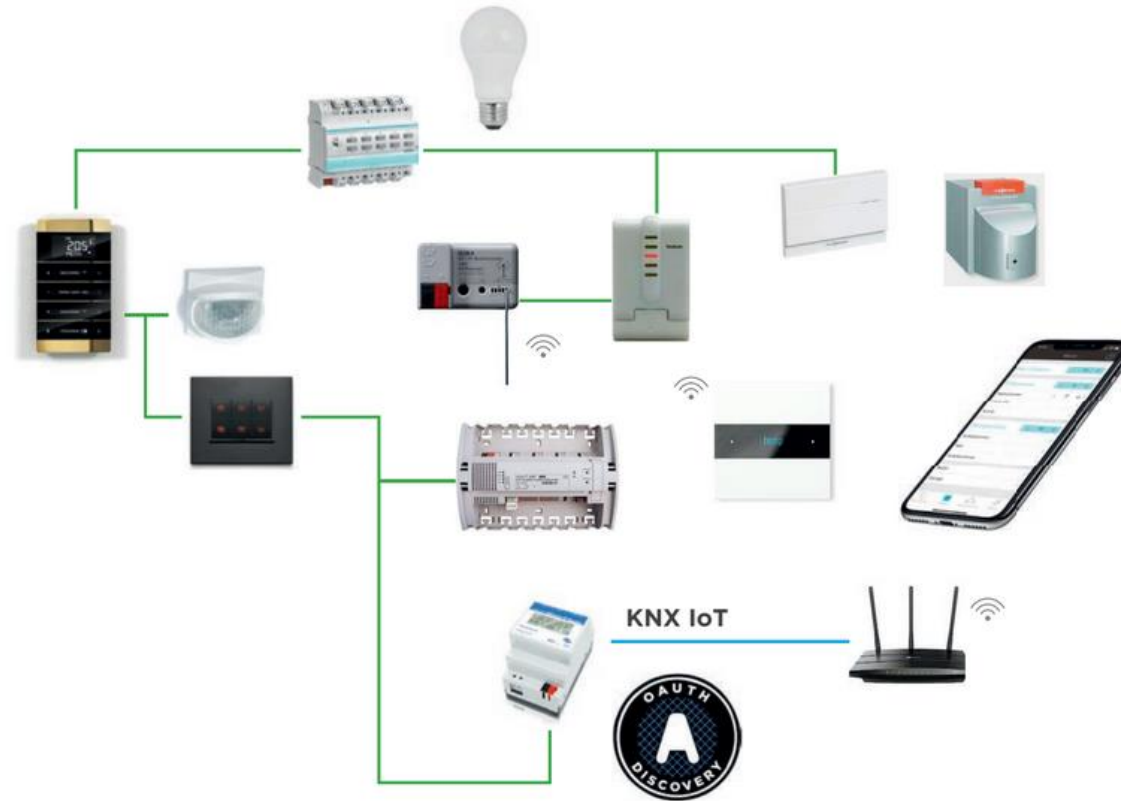
Current longest lead time on KNX products 5 months

How is the KNX supply chain being managed for better efficiency and shorter lead times?

- Multiple vendor choices
- Guaranteed interoperability across all manufactures
- Large UK distributor network
- On continent supply chain
- Change of the production of IC's (integrated circuits) back to mainland Europe

Freedom of design

Interoperability
is key, enabling
a flexible
diverse system



With KNX IoT, the world of IT and Internet of Things can read and manipulate the functions implemented in a KNX installation using standardised semantics, regardless of the manufacturer.

What does open protocol mean for building design?

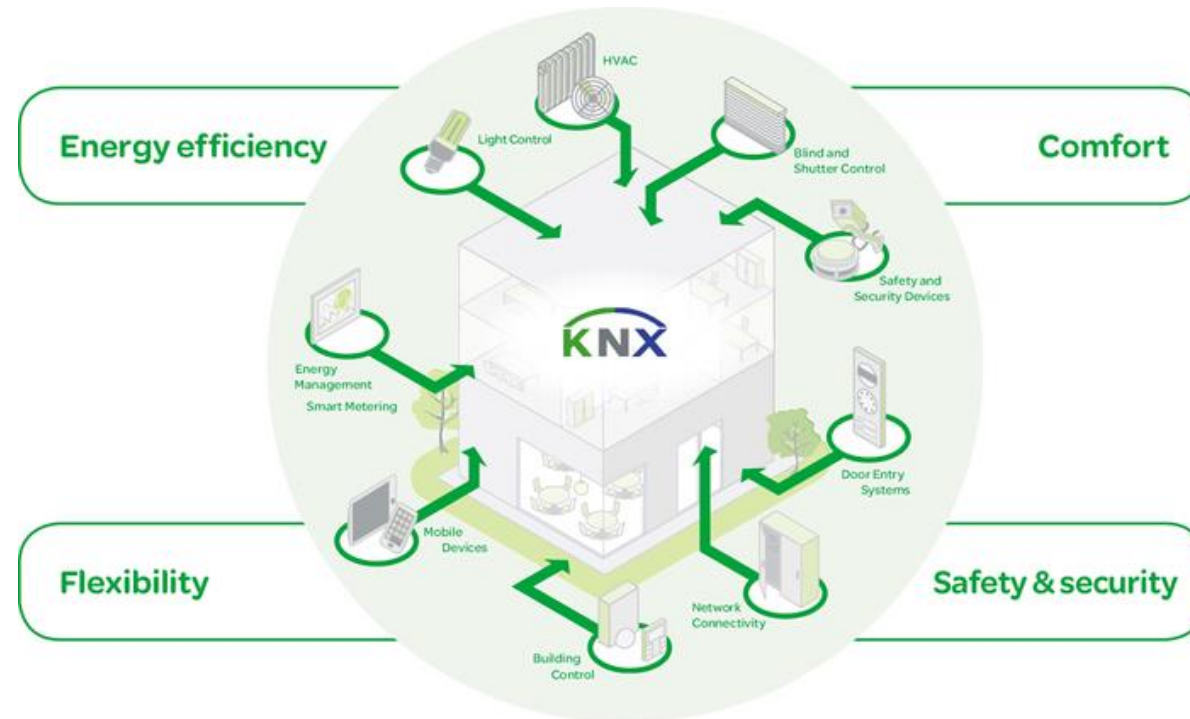
- High end professional results
- No separate containment required for each area
- Not bound to a specific type of products so the solution can be design focused
- When building areas are changed or extended, the technical system will adapt to the changes
- Design led solutions matching finish solutions from switches, sockets and media outlets

Design led solutions

Some of the most technically advanced, with on board additional features, with great design and lustrous finishes, or plain simple white.



Freedom for the future



Guarantee of a future proofed system
working with the life cycle of the building

Sustainability



Energy savings with KNX:

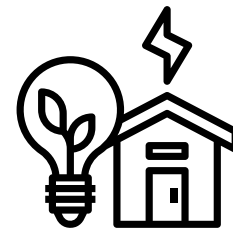
Up to 40% in shading control

Up to 50% in individual room control

Up to 60% in lighting control

Up to 60% in ventilation control

Key Drivers:



Rising energy costs



Changes to building regulations

'Sustainability' is not just how it is made. It is, more importantly perhaps, how long it lasts

- European based manufacturing
- High-tech fully automated factories
- Manufacturers have world class environmental policies
- Manufacturers achieving The Blue Angel Award

Security



No more digital break-ins!

Highest encryption standards.

KNX Secure complies with the
European Standard EN50090-3-4



KNX Secure is a device
that can encrypt or
decrypt KNX telegrams



KNX Secure telegrams
are broken into two
types: KNX IP Secure
and KNX Data Secure.

Thank
you for
joining us

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