Stack Implementation for KNX

The bus system KNX has evolved to one of the most important solutions in the field of home and building electronic systems. Now it is even approved as European (EN) and International (ISO) standard.

The KNX standard is based on a quite complex communication protocol that requires a high effort during implementation and also for certification.

With our KNX stack we offer a fully certified platform to build new bus devices in a very effective way. Compared to legacy solutions you can extremely reduce development time especially for very complex applications.

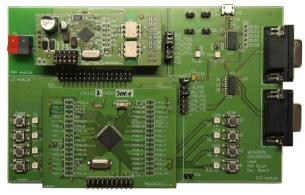
Feature overview

- System software for KNX devices
- Medium: Twisted pair (TP)
- Configuration method: System mode (ETS)
- Device models:
 System B
- Source-Code in "C"
- Evaluation boards
- Software tools
- ETS support
- KNX certified

Hardware architecture

The core of a device is built by a microcontroller that realizes the bus communication as well as the application task. Now a new release is available for

NXP Cortex M0 Series LPC1xxx.



Development board with LPC1227 and KNX UART Transceiver

The bus access to KNX can be realized via a standard KNX UART Transceiver.

Because of this very simple device design the production costs are very low. For a quick start of development we offer different evaluation boards.

Firmware Architecture

The firmware builds a very lean operating system specially designed for the needs of KNX bus devices.

It covers not only the communication stack, but is a complete implementation of standardized device models.

Any memory areas and types of the corresponding device profiles are fully emulated by the firmware. So we achieve compatibility to the ETS software without any restrictions.



Logo of ETS4, Common Commissioning tool for KNX networks

The source code is structured modular, documented in detail and can be part of the delivery.

The application development is based on an **easy to use KNX API**.

Tool Environment

For efficient **debugging** our tool **TraceMon** is included in the package. With our tool environment *Net'n Node* you get a powerful **Busmonitor** that helps you during development and test.

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Screen shot of the tool environment

Net'n Node creates the s37-files you need for the import into the ETS database.

Support

Included in our package is a training workshop for getting started. We will give you advice for your system architecture and of course you will get full support during your development work.

Development services

If you are interested in complete solutions we also offer **application development** including hardware design, programming and test. Based on a broad experience in the development of bus components and systems we are looking forward to find individual solutions for your requirements. Of course also KNX product **certification** is part of our services.

Contact

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How to find us

Tyrlaching is a very small village about 100 km in the south east from Munich, close to the border to Austria.

Member of KNX Association



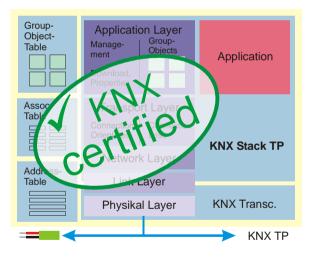
We are certified according ISO 9001



WEINZIERL

KNX Stack for NXP Cortex M0 Series

Development Kit for µC & Transceiver Development-Tools





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