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Z-Wave Embedded Development Kit

For Embedded Z-Wave Software and Hardware Development



Sigma Designs' Z-Wave Embedded Development Kit consists of the hardware and software tools required for Z-Wave embedded product development.

The Z-Wave Embedded Development Kit includes sample embedded applications for quick prototyping, Z-Wave protocol sniffer tools for analyzing and resolving issues, and Z-Wave RF modules for building prototypes.

The Z-Wave Embedded Development Kit is comprised of two hardware kits and an SDK that when combined provide all the necessary tools to develop Z-Wave embedded products. The Base Kit consists of the standard hardware needed for all developers. The Regional Kits provides the hardware with regional frequency dependency. The downloadable Z-Wave Protocol SDK provides all the embedded software components.

All licensees of the Z-Wave Embedded Development Kit are entitled to free online support and training.

KEY FEATURES

- Comes with license to use Z-Wave technology world-wide
- Access to protocol SDK
- All hardware needed to develop embedded Z-Wave applications

BENEFITS

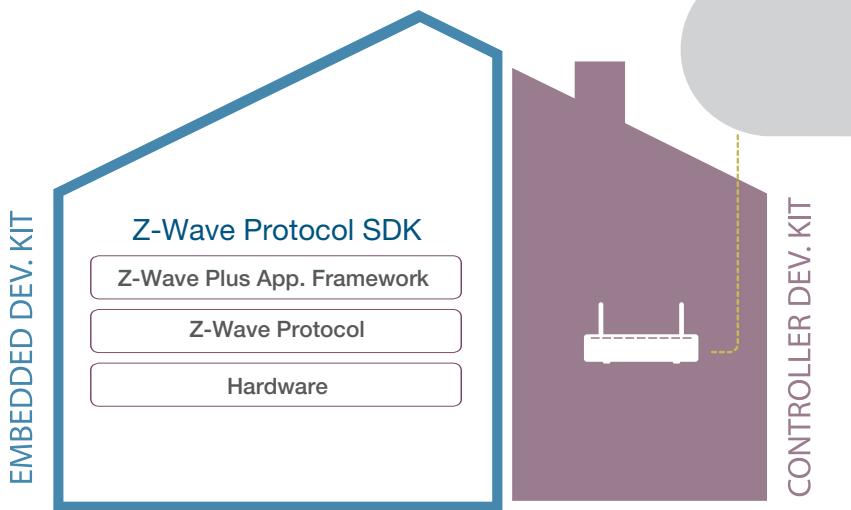
- One kit covers all Z-Wave regions
- Access to download center for complete Z-Wave protocol stack and API function
- Versatile development module for easy hardware prototyping
- Application Framework included for fast application prototyping (Sample Code Libraries)
- Real-time Z-Wave Zniffer included for frame flow
- Developer-friendly technical instructions, user guides, application notes, and more

TARGET APPLICATIONS

- Z-Wave end devices such as door locks, lights, sensors, and thermostats

Z-Wave Embedded Development Kit

Z-Wave Protocol development



Z-WAVE PROTOCOL

- RF solution in single chip
- Sub-1GHz
- Multi-speed: 40...100 kbps
- Low communication latency
- Wireless Mesh Networking
- Every node is a repeater

- Extremely robust
- Self-healing
- Extremely simple setup: Plug & Play
- Versatile support of installation tools
- Ultra low power
- Ideal for battery-powered sensors

- Interoperable
- Proven Device and Command Classes
- Comprehensive certification program
- Some Z-Wave ASIC peripherals may require customer code development

Z-Wave Protocol SDK

The Z-Wave Protocol Developer's Kit (SDK) is intended to help developers creating Z-Wave-enabled products in a fast and cost-effective manner. The software consists of Z-Wave libraries supporting controller and slave devices, as well as sample code for a broad range of home automation applications.

Along with the SDK, licencees get access to network sniffer tools and tools to assist you in assessing and optimizing RF performance.

Z-Wave Plus Application Framework

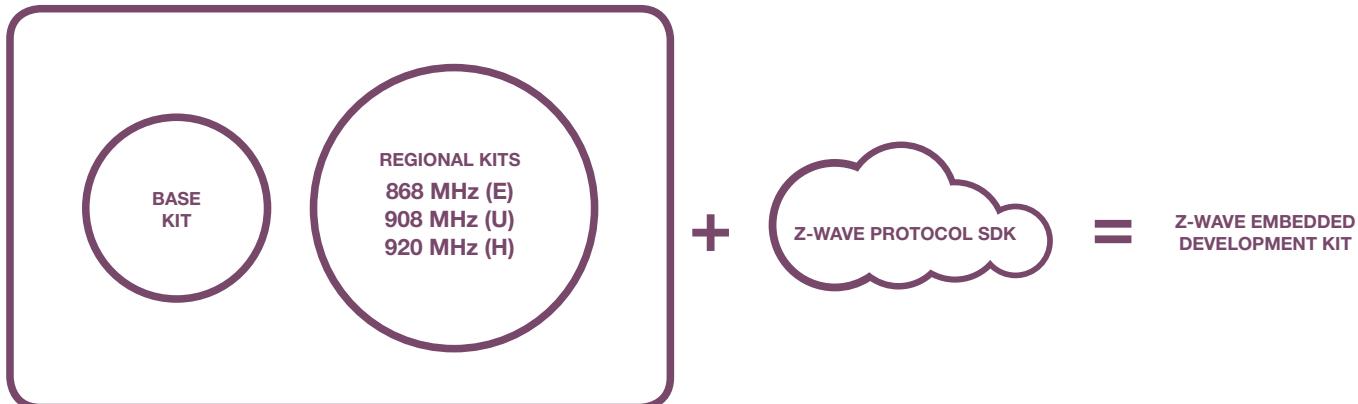
Developing firmware for new Z-Wave products is simpler, thanks to the Z-Wave Plus Application Framework. The Application Framework provides sample code for many common devices, plus a modular library of robust, field-tested code that can be readily re-used. The Application Framework helps eliminate errors and minimizes the need for custom coding. As a result, the process of creating new Z-Wave applications is streamlined, typically taking less than a week or two for most new devices.

MINIMUM REQUIREMENTS

- Windows 7 or higher
- Keil PK51 ver 9.53

Z-Wave® Embedded Developer Kit

Development Kit For Embedded Z-Wave Software and hardware development



BASE KIT

The Z-Wave Base Kit consists of development platform boards, power supply units, cables, etc., that are used to program Z-Wave modules with a Z-Wave application.

REGIONAL KITS

The Z-Wave Regional Kits are available in three frequency variants and consist of Z-Wave ZDB5101, ZDB5202, ZDB5304 reference design modules that are RF-matched for specific regions. The Z-Wave Regional Kits also contain samples for prototype development.

HARDWARE IN THE BASE KIT:

- 4x ZDP03A - Z-Wave development platform
- 4x Flexi antenna - Antennas for ZDB5xxx
- 4x USB cable - To connect to ZDP03A
- 1x Battery pack - To make ZDP03A portable
- 4x Power supply unit - For ZDP03A
- 1x UZB-S - USB stick network-sniffer
- Getting Started Guide
- 4x ZM5101

3 REGIONAL KITS:

- Europe* (E), USA* (U), Japan* (H) each containing:
- 2x ZDB5101
 - 2x ZDB5202
 - 1x ZDB5304
 - 1x UZB - USB stick static controller
 - 4x ZM5202
 - 4x ZM5304

* may be re-programmed to support additional countries (full list available on z-wave.sigmadesigns.com)

Z-WAVE PROTOCOL SDK

The Z-Wave Protocol SDK is available for download on the Z-Wave Technical Site (ZTS); access to the download center is included with the Z-Wave Embedded Development Kit. From the ZTS, developers can access all relevant technical documentation, developer's FAQ, known issues database, etc.

SOFTWARE DEVELOPERS KIT - DOWNLOADABLE :

- Embedded sample applications
- Z-Wave Plus Application Framework

Development tools:

- Z-Wave Programmer
- Z-Wave Zniffer
- Build environments
- All necessary tools to build your Z-Wave application

ABOUT SIGMA DESIGNS

Sigma Designs is a leading provider of system-on-chip (SoC) solutions used to deliver entertainment and control throughout the home:

Media Processing, Smart TV, Video Encoding, Home AV Networking, Video Processing, Home Control

These SoCs are supported with board-level reference designs, sophisticated system software, and technical documentation to form a complete solution for a variety of set-top boxes, smart TVs, consumer electronics, AV network devices, and home control systems.

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