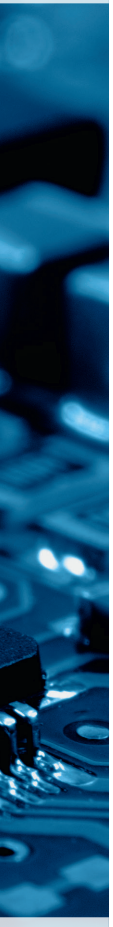

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XDK

The Sensor X-perience

Bosch Connected Devices and Solutions

BOSCH
Invented for life

BOSCH

Start your Sensor X-perience

The Cross Domain Development Kit (XDK) is an all-in-one prototyping platform for any Internet of Things use case that you can imagine! With state of the art sensor technology and ready-to-use software packages it enables you to immediately start an Internet of Things application.

Enjoy our **all-in-one** IoT toolkit for sensor based projects

Why XDK?

XDK was built as an IoT prototyping platform for us to quickly create IoT products with ease. So we asked ourselves why not offer XDK to others to help them build their own application.

Use XDK

You have a great idea for an IoT application and want to prototype it professionally? Show the world, by using the XDK to realize your first prototype in a time and cost effective way.

What‘s **next**

Built your prototype? Great, we will help to get it to the next stage. Along with the XDK comes the right partner. We offer individual options for getting your prototype to series production.

32-bit microcontroller ARM Cortex M3

Bluetooth LE

Wireless LAN

Debug & extension port

Micro SD

Push buttons

Status LEDs

Li-Ion rechargeable battery

Small but **mighty**

Due to its compact form factor, it can be retrofitted to objects of any size. Easily connect the XDK with other devices like your PC or a mobile device via USB, Bluetooth or WLAN. XDK functionality can also be expanded by using the included Extension Board to build in new features.

Accelero-meter

Gyroscope

Magneto-meter

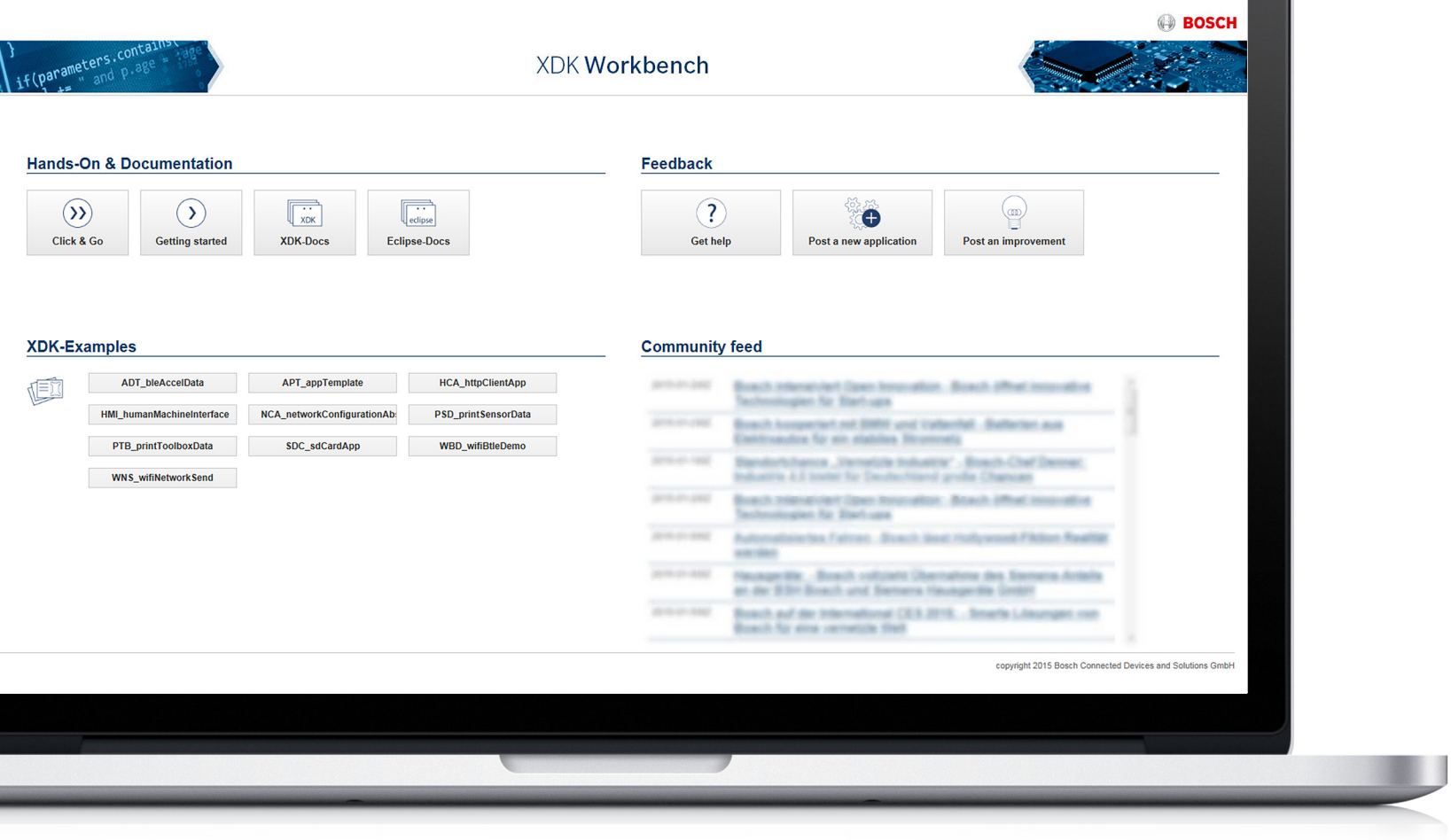
Humidity sensor

Pressure sensor

Temperature sensor

Acoustic sensor

Digital light sensor

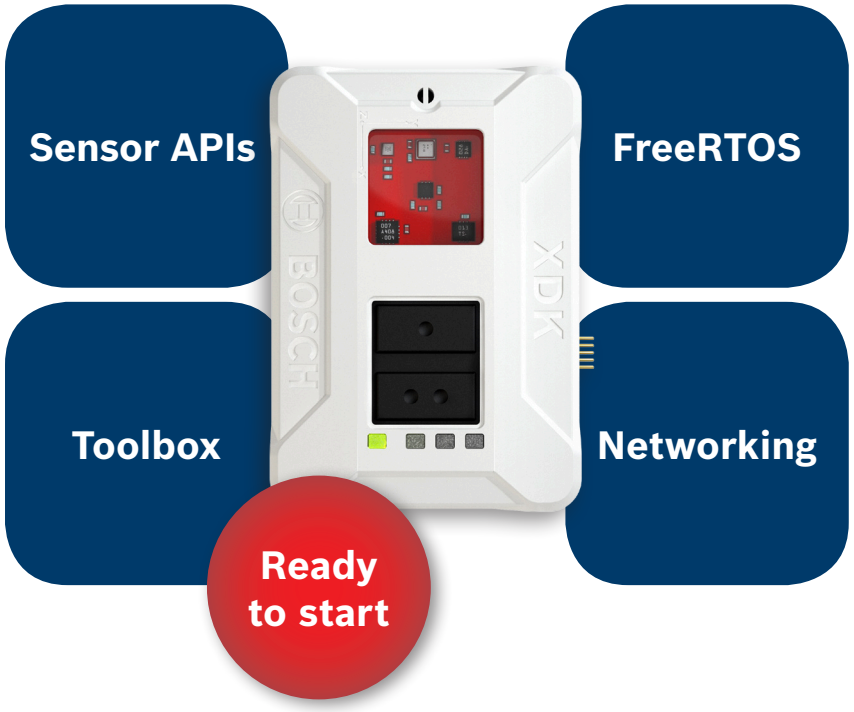


XDK **Workbench**

The software development environment, called XDK Workbench, is your tool to start building your project with the XDK right away. The Workbench is easy to install and automatically updates itself. The XDK comes with a direct interface to our community and access to different API[1]-Layers.

There is no need to program via a debugger, but we have made this possible should you wish to use the standard JTAG connector. Drivers for all system components are included.

[1]API = Application Programming Interface



Powerful Software Development Kit

An operating system, based on the open source operating system FreeRTOS, is already on the XDK and ready to go. With the provided API the development kit enables you the use of all of the hardware components that you desire. Various function blocks and algorithms are contained in the Toolbox.

The networking component offers Bluetooth and WiFi communication as well as LW-M2M communication protocol. So press power and immediately begin building. Realize your real time IoT applications.

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Categories
Community Overview
> Using XDK & Downloads
> Project Exchange
> Community support
> Improvement suggestions
> FAQ
> Bulletin board
Current threads
Most discussed threads
Most read
Most discussed threads
Upload own certificates
created by mario on 21.03.2015, 10:24 PM
Data Logger Demo Application
created by singapore_xdk on 11.05.2015, 08:41 AM
236
21
Last reply from Wolf-Bastian Pöttner on 30.04.2015, 03:28 PM
Sending data via UART
created by juergenschuster on 25.06.2015, 01:44 PM
482
19
Last reply from Florian Harr on 01.07.2015, 06:44 AM
g++/gcc not found in PATH & Invalid project path
created by Philipp Roth on 15.09.2015, 09:02 AM
299
18
Last reply from benwang on 16.07.2015, 04:06 AM
Using I2C extern
created by juergenschuster on 05.08.2015, 12:24 PM
162
15
Last reply from Philipp Roth on 29.09.2015, 08:23 AM
[XDK-Toolbox] Orientation.h, Quaternion and
266
14

Become a part of our **Community!**

Get in touch with other developers to inspire and get inspired. The community serves as a platform for users to actively exchange information and discuss project ideas.

Join the community if you need help or technical support. Furthermore, it offers the best way to share knowledge with excited developers. You can also take part in great competitions and events if you want to prove yourself.

BOSCH

It’s **not over** yet.

Bring your product to market! Bosch Connected Devices and Solutions offers individual options for series production and assists you in moving forward.