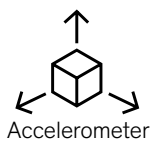# Bosch XDK Sensor: Cross Domain Development Kit

Sensor Prototyping Platform for a Wide-Range of IoT Applications

The Bosch XDK is a universal programmable sensor device and prototyping platform. Embedded with multiple Microelectromechanical systems (MEMS) sensors, it is suitable for a wide variety of IoT applications. This all-in-one sensor kit records and measures a broad range of parameters, making it the perfect choice for remote monitoring and maintenance of assets. Its main advantage is its capability to be programmed and deployed out-of-box without the need for component selection, hardware assembly, or installation of a real-time operating system. Once deployed, it's used to optimize processes making them easier, faster and cheaper. Additional functionality, such as sensors and communication modules, may be easily added through extension ports.

One Platform Infinite Possibilities

Accelerometer

Acoustic Sensor

Digital Light Sensor

Gyroscope

Humidity Sensor

Magnetometer

Pressure Sensor

Temperature Sensor

Benefits of the XDK

> Built-in sensor data fusion for accurate, real-time digital twin applications
> High-level APIs available for standard users and low-level API for power users
> Open source compliant example code
> Small size, fits unique/custom applications
> Online customer community

Use Cases

> Scaling small series production
> Condition monitoring
> Surveillance/security
> Process analysis
> Building management
> Monitoring machine strain
> Rapid prototyping

XDK Package Options

XDK is available in two packages. XDK110 is best suited for prototyping, while the XDK Node is ready for deployment.

XDK110 - Rapid Prototyping Kit:

XDK110 includes an XDK sensor device, an extension board for easy access to additional MCU functionality, a 10cm connector cable, a micro USB 2.0 connector cable, and a mounting plate with screws. Ideal for rapid prototyping of sensor-based products and applications for the IoT while offering users the freedom of programming from a basic to an advanced level.

XDK Node – Professional Bundle:

Bundle of 10 XDK110 devices (without the "XDK Gateway" and the 10 cm connector cables), micro USB 2.0 connector cable, and mounting plate with screws. Ideal for devices with an optimized scope of delivery which enables a cost-effective deployment for larger projects and simplifies the installation.

Features

> Bluetooth 4.0 Low Energy IEEE 802.15.1, Wireless LAN IEEE 802.11b/g/n
> 32-bit microcontroller (ARM® Cortex®-M3), 1MB Flash, 128 kB RAM
> Built-in lithium-ion rechargeable battery
> Development tools for Windows, Linux, and MacOS to simplify the development process
> Drivers for all system components included
> Small form factor (Length 60 mm x Width 40 mm x Height 22 mm; Weight 54 g)
> FreeRTOS included
> Cloud agnostic solution for flexibility

ORDERING INFORMATION

XDK110 - Rapid Prototyping Kit
Part Number: 0.273.600.004-001

XDK Node - Professional Bundle
Part Number: 0273.600.033-001

For a quote, go to arrow.com or contact your local Arrow sales representative

In Person
Please contact your local Arrow account manager or +1 (855) 326-4757

Email
iot@arrow.com

Online
www.arrow.com/IoT