



# XDK LoRa-Extension

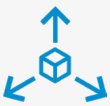
## The low power and long range communication technology

Bosch Connected Devices and Solutions is a member of the LoRa Alliance, an open, non-profit association of members, who believe that the Internet of Things era is right now. It is the fastest growing technology alliance worldwide.

LoRa uses license-free sub-gigahertz radio frequency bands like 169 MHz, 433 MHz, 868 MHz (Europe) and 915 MHz (North America). The technology is presented in two parts - LoRa, the physical layer and LoRaWAN (Long Range Wide Area Network), the upper layers.

The XDK LoRa-Extension is a wireless and secure communication solution that allows for penetrating structures such as buildings. You can exchange your data up to a range of 40km. With the brand new XDK LoRa-Extension you can now connect your XDK to a LoRa network. Take advantage of measuring data with 8 different XDK-sensors and connect the data via LoRa to your backend.

### XDK BUILT-IN SENSORS



Accelerometer



Acoustic sensor



Digital light sensor



Gyroscope



Humidity sensor



Magnetometer



Pressure sensor



Temperature sensor

### APPLICATION ADVANTAGES

- ▶ All-in-one sensor kit: no need for component selection or hardware assembly
- ▶ Small form factor (Length 46mm x Width 40mm x Height 22mm, Weight 33g)
- ▶ Drivers for all system components included
- ▶ Easy integration into preferred backend, e.g. Cayenne, TTN
- ▶ Existing Mita support
- ▶ Existing sample Code in workbench included
- ▶ Public or private LPWANs can be joined or created
- ▶ Saves energy and ensures a long battery lifetime
- ▶ High-level API for the standard user and low-level API for the power user
- ▶ PC and MAC based development tools for Windows, LINUX and MacOS make it an easy to work with tool for any developer
- ▶ CE and LoRaWAN certified | Further on request

### INCLUDED IN DELIVERY

#### XDK LoRa-Extension

- ▶ Device in its housing
- ▶ Link Card to quick start guide at XDK.io
- ▶ Safety Disclaimer
- ▶ External Antenna



