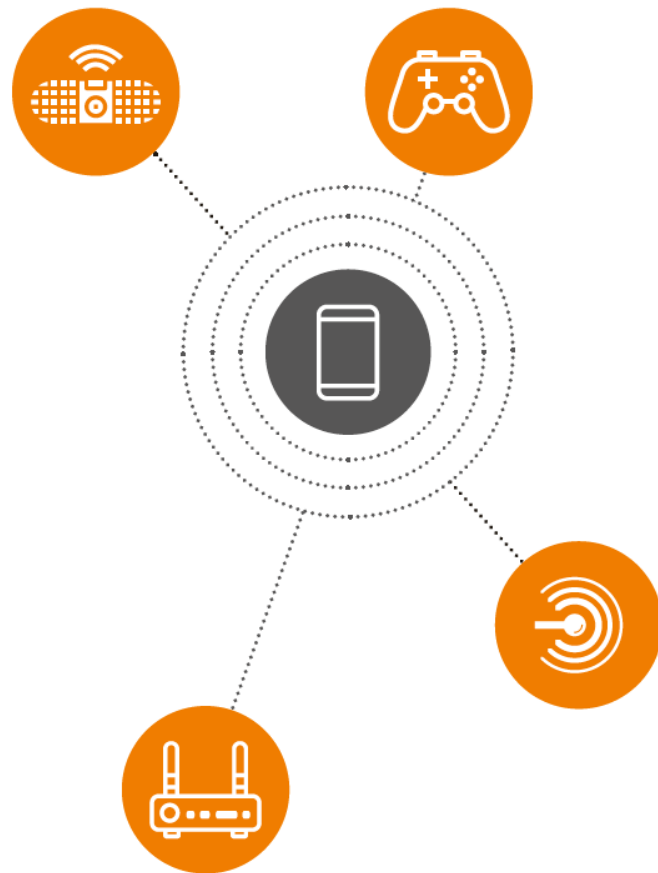


# MK UWB Kit

Mobile edition 2.0

Evaluate UWB  
interoperability with  
**Apple® and Android™**  
mobile devices

Featuring NXP Trimention™ SR150 / SR040



Financiado por  
la Unión Europea  
NextGenerationEU



Plan de Recuperación,  
Transformación y Resiliencia



**UWB technology is rapidly expanding into the IoT ecosystem.**

Smartphones play a significant role in driving the adoption of UWB in the IoT ecosystem as they make the technology intuitive and accessible to a broad user base.



Get ahead of this trend and start evaluating how **NXP's UWB Trimension™** technology interacts with UWB-enabled Apple® and Android devices

# MK UWB Kit

Mobile edition 2.0

## MK UWB Kit Mobile edition 2.0

The first evaluation kit offering **UWB interoperability** against **Apple® and Android mobile devices**.



Experience how to establish a **UWB ranging session** between an **Apple® or Android smartphone** and a **UWB anchor or UWB Tag**.

Leverage on the **background operation mode for mobile devices** to build **handsfree interactions** with nearby smart objects.

Evaluate the performance of **NXP's Trimension™ UWB IoT ICs** with **Apple®** and **Android UWB-enabled devices**.

**Kick-start** the **design** of your innovative applications by leveraging on the **sample iOS and Android applications developed by MobileKnowledge** and unleash UWB ability to create more precise, **spatial-aware application experiences**.

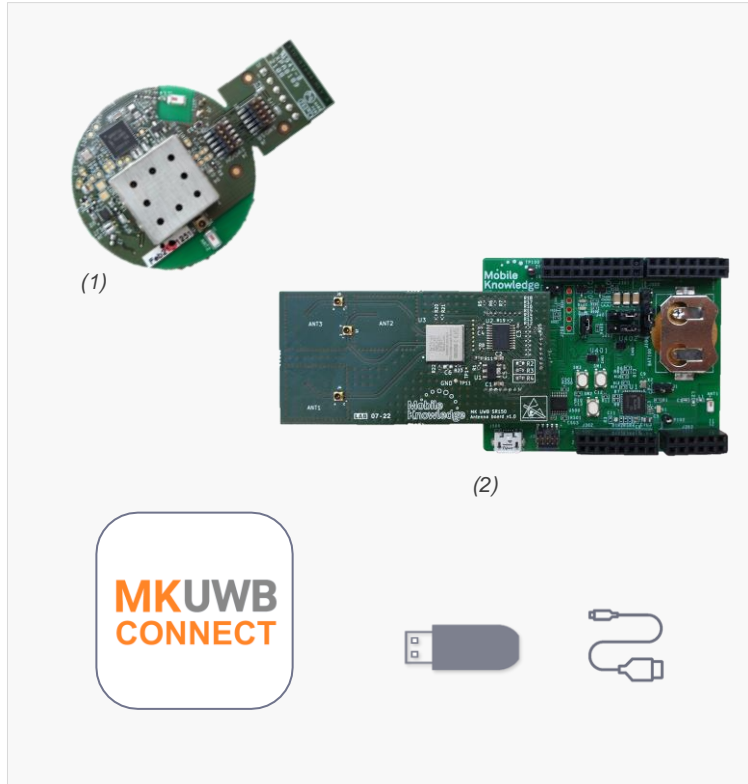
**MK UWB Kit**  
**Mobile edition 2.0**  
*What you'll find in the kit*

# MK UWB Kit

Mobile edition 2.0

Evaluate UWB interoperability with Apple® and Android™ mobile devices

Featuring NXP Trimention™ SR150 / SR040



- **UWB Tag SR040** reference hardware featuring **NXP Trimention™ SR040** (1)
- **MK UWB SR150 Anchor 3D** reference hardware featuring **NXP Trimention™ SR150** (2)
- **MK UWB SR150 Anchor 3D** reference software (source code and binaries) interoperable with Apple Nearby Interaction Accessory Protocol and Android UWB Jetpack libraries.
- **UWB Tag SR040** reference software (source code and binaries) compliant with Apple Nearby Interaction Accessory Protocol and Android UWB Jetpack libraries.
- **MK UWB Connect iOS** source code
- **MK UWB Connect Android** source code
- **MK UWB Kit Mobile Edition 2.0 Quick Start Guide**
- **MK UWB Accessory software User Manual**
- **MK UWB Connect User Manuals for iOS and Android**
- **MK UWB Shield 2 User Manual**
- **UWB Tag SR040 User Manual**

MK UWB Kit  
Mobile edition 2.0  
*Content in detail*

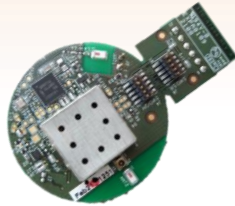
MK  
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## UWB Tag SR040



Autonomous, battery-powered UWB device that features **NXP's UWB Trimention™ SR040 chipset** and a BLE-enabled microcontroller, enabling all kinds of tracking and localization use cases.

## MK UWB SR150 Anchor 3D



Flexible platform to develop customized UWB systems. It features Arduino-compatible expansion headers and **NXP's UWB Trimention™ SR150 chipset** supporting 3D positioning.

## MK UWB Kit Mobile edition 2.0 *Reference Software*

# MK UWB Kit

Mobile edition 2.0

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Featuring NXP Trimention™ SR150 / SR040

## MK UWB Connect application



The **MK UWB Connect application** is available in **Appstore and Play Store** and is delivered as **source code** as part of the kit. These applications will be continuously maintained and improved by MobileKnowledge.

The **iOS application** implements the **Nearby Interaction Protocol\*** supporting **background operation** for hands-free spatial awareness experiences.

The **Android application** implements MobileKnowledge Out of Band protocol through Bluetooth LE for discovery and initialization of UWB ranging session **through Android UWB Jetpack libraries**.

## Anchor-to-Mobile software



The Anchor-to-Mobile software allows to **interoperate** an **NXP Trimention™ SR150 Anchor** against **multiple Apple or Android UWB enabled devices simultaneously**. It is delivered as source code as part of the kit.

## Tag-to-Mobile software



The Tag-to-Mobile software allows to **interoperate** an **NXP Trimention™ SR040 Tag** against **multiple Apple® or Android UWB enabled devices simultaneously**. It is delivered as source code as part of the kit.

Please visit Apple developer site to obtain additional references on Apple's Nearby Interaction Framework <https://developer.apple.com/nearby-interaction/>  
Please visit Android developer site to obtain additional references on UWB Jetpack libraries: <https://developer.android.com/jetpack>

MK UWB Kit  
Mobile edition 2.0  
Reference Software

# MK UWB Kit

Mobile edition 2.0

Evaluate UWB interoperability with Apple® and Android™ mobile devices

Featuring NXP Trimention™ SR150 / SR040

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The iOS application implements the Nearby Interaction Protocol\* supporting background operation for hands-free spatial awareness experiences.

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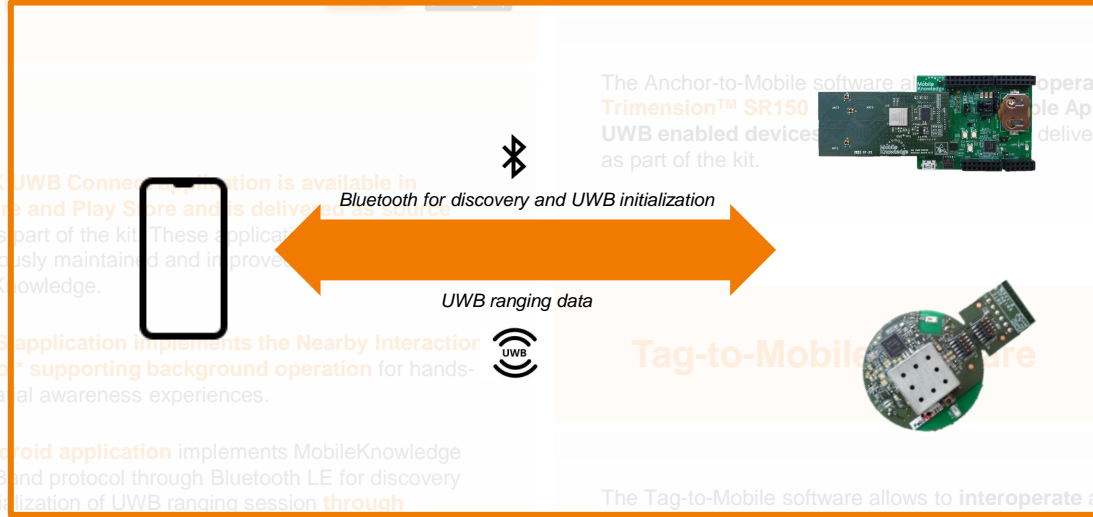
## Anchor-to-Mobile software

The Anchor-to-Mobile software allows to interoperate an NXP Trimention™ SR150 UWB enabled devices against multiple Apple or Android UWB enabled devices simultaneously. It is delivered as source code as part of the kit.



## Tag-to-Mobile software

The Tag-to-Mobile software allows to interoperate an NXP Trimention™ SR040 Tag against multiple Apple or Android UWB enabled devices simultaneously. It is delivered as source code as part of the kit.



Please visit Apple developer site to obtain additional references on Apple's Nearby Interaction Framework <https://developer.apple.com/nearby-interaction/>  
Please visit Android developer site to obtain additional references on UWB Jetpack libraries: <https://developer.android.com/jetpack>

**MK UWB Kit**  
**Mobile edition 2.0**  
*Out-of-the-box experience*

# MK UWB Kit

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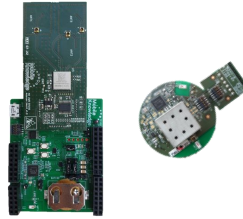
Featuring NXP Trimimension™ SR150 / SR040

MKUWB  
CONNECT



Install the MK UWB Connect application in your Apple® or Android UWB-enabled mobile device

Power up the MK UWB Tag SR040 or the MK UWB SR150 Anchor 3D



Observe real-time ranging between the IoT device and the UWB-enabled mobile device

Kick-start your own mobile-to-IoT UWB use cases





**MK UWB Kit  
Mobile edition 2.0**  
*Ordering details*



Evaluate how NXP's  
UWB Trimention™  
technology interacts  
with Apple® and  
Android mobile  
devices

**650 €**

*Shipping costs not included*

Order the MK UWB Kit Mobile edition at  
MobileKnowledge's website

<https://www.themobileknowledge.com/product/mk-uw-Kit-mobile-edition-2-0>

Want to do more ?

The **MK UWB Kit SR150/SR040** is the most comprehensive **reference design** and **development platform** for UWB-based IoT solutions.

Leverage on UWB technology advanced functionalities and benefit from **NXP Trimention™ SR150 and Trimention™ SR040 UWB IC** capabilities.

Experience UWB technology with ready-to-run **demonstration apps**, **Arduino-connected development boards** and **software libraries** to start prototyping and developing your own UWB applications with minimum effort.

Leverage on our powerful software tools such as the **MK UWB Toolbox Android** application to develop innovative mobile applications, the **MK UWB PC Shell** application to obtain ranging information on any host computer, the **MK UWB Library** which provides a simple but powerful API for your IoT embedded solution and out-of-the-box support for **NXP QN9090 and Nordic nRF 52840 MCUs**.

Visit our website for further information:

<https://www.themobileknowledge.com/product/mk-uwb-kit-sr150-sr040/>

Or contact us:

[contact@themobileknowledge.com](mailto:contact@themobileknowledge.com)

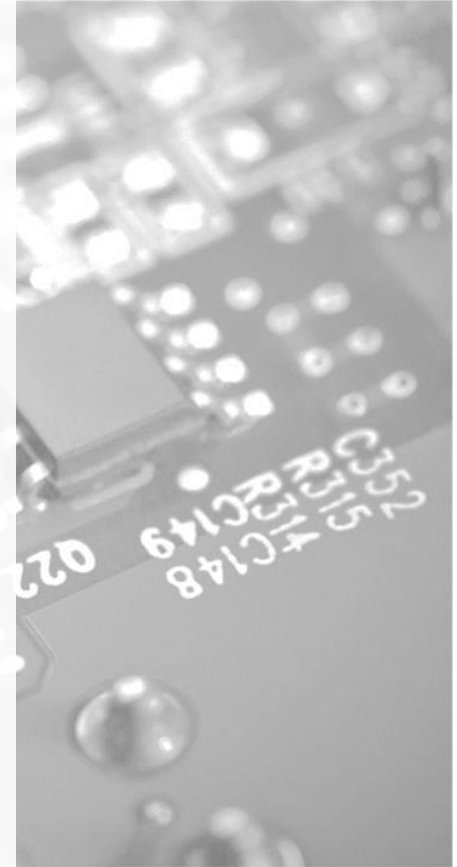


Want to do more ?

Long-standing expertise in UWB technology to help you reduce your time to market and focus on your own UWB solution development

Contact us for further information:  
[contact@themobileknowledge.com](mailto:contact@themobileknowledge.com)

- **Development of customized UWB use cases:** Embedded software development, mobile application software development, back-end integration, system integration,...
- **UWB technology consulting and support services:** Guidance on use case definition and system integration, system architecture, software requirements, Q&A resolution, FIRA related process and use cases,...
- **Design and development of customized antenna board** based on customer requirements and constraints in order to optimize ranging and AoA measurements
- **Porting of MK UWB SDK** into a customer platform, enabling MK UWB SDK software tools and functionalities on any customer platform that meets the SDK requirements
- **Licensing of MK UWB Library**, for an easy integration of UWB technology while accelerating the time to market





# Mobile Knowledge



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