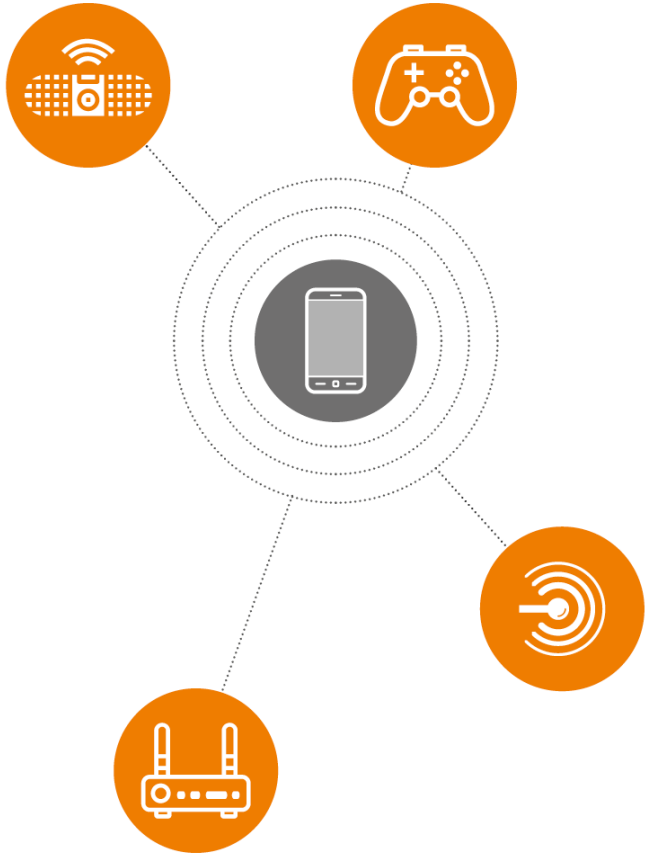
Mobile Knowledge

MK UWB Kit

Mobile edition

Featuring **NXP Trimension™ SR150 / SR040**

Build your UWB IoT solution
to interact with UWB phones



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® products**

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This evaluation kit **is approved by Apple®** for the purpose of **evaluating UWB-enabled accessories** that leverage **Apple's Nearby Interaction framework** in order to **interact with Apple products that include the U1 chip*.**

Experience how to establish a **UWB ranging session** between a **UWB-enabled Apple® product and a UWB anchor or UWB tag**.

Evaluate hardware performance of **NXP's Trimension™ UWB IoT ICs** in connection to a UWB-enabled Apple® products.

Kick-start the **design** of innovative applications that interact with UWB-enabled Apple® products and unleash the ability to create more **precise, directionally aware app experiences**

** U1-enabled iPhone models include iPhone 11, iPhone 11 Pro, iPhone 11 Pro Max, iPhone 12, iPhone 12 mini, iPhone 12 Pro, iPhone 12 Pro Max, Apple Watch Series 6*

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What you'll find in the kit

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Featuring NXP Trimension™ SR150 / SR040
Build your UWB IoT solution to interact with UWB phones

- **UWB Tag SR040** reference hardware featuring **NXP Trimension™ SR040**

NEW

- **MK UWB SR150 Anchor 3D** reference hardware featuring **NXP Trimension™ SR150**

- **MK UWB SR150 Anchor 3D** reference software source code and binaries compliant with Apple Nearby Interaction Accessory Protocol Specification
- **UWB Tag SR040** reference software source code and binaries compliant with Apple Nearby Interaction Accessory Protocol Specification

- **Support documentation**

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Content in detail

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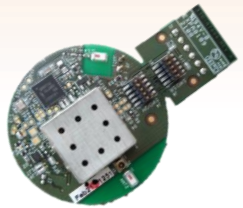
NEW

UWB Tag SR040



Autonomous, battery-powered UWB device that features **NXP's UWB chipset Trimension™ SR040** 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. Arduino-compatible expansion headers and features **NXP's UWB chipset Trimension™ SR150**.

Now supporting 3D positioning!

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Reference Software

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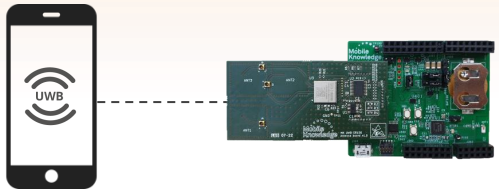
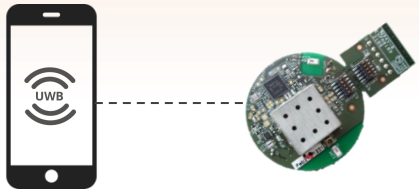
Featuring NXP Trimension™ SR150 / SR040
Build your UWB IoT solution to interact with UWB phones

Mobile-to-Anchor software



The **Mobile-to-Anchor software** showcases how to start a UWB ranging session between a UWB-enabled Apple® product and an IoT anchor equipped with **NXP Trimension™ SR150**

Mobile-to-Tag software



The **Mobile-to-tag software** showcases how to start a UWB ranging session between an UWB-enabled Apple® product and a tag equipped with **NXP Trimension™ SR040**

Please visit Apple developer site to obtain additional references on Apple's Nearby Interaction Framework
https://developer.apple.com/nearby-interaction/

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Out-of-the-box experience

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Featuring NXP Trimension™ SR150 / SR040
Build your UWB IoT solution to interact with UWB phones

Install the mobile application in your UWB-enabled Apple® product

Power up the UWB Tag or the MK UWB Anchor

Observe real-time ranging between the IoT device and the UWB-enabled Apple® product

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

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Ordering details

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 Trimension™ SR150 and Trimension™ 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/

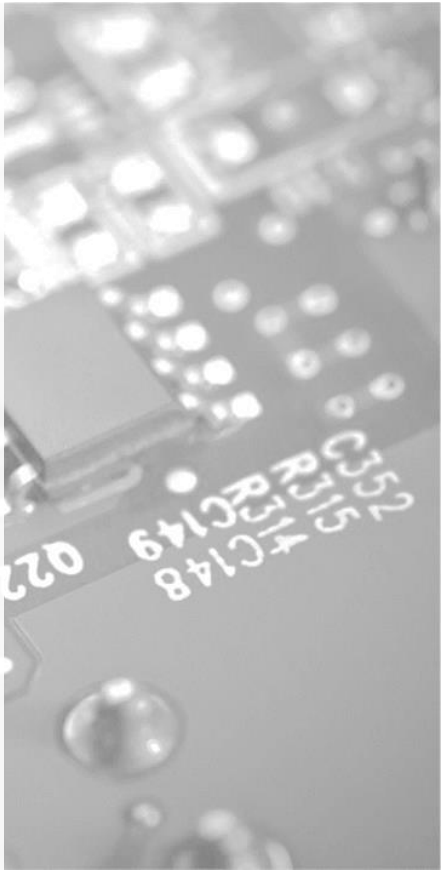
Or contact us:
contact@themobileknowledge.com

Want to do more ?

Contact us for further information:
contact@themobileknowledge.com

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

- **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



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