Trimension SR250 development board

Development board for UWB ranging and radar applications

nxp.com/SR250UWBSHIELD

Ranging and radar RX antennas

Trimension SR250 and surrounding components

Radar TX connector

J1 Arduino® connector

J4 Arduino connector

J2 Arduino connector

J3 Arduino connector

Level shifter

LDO voltage regulator
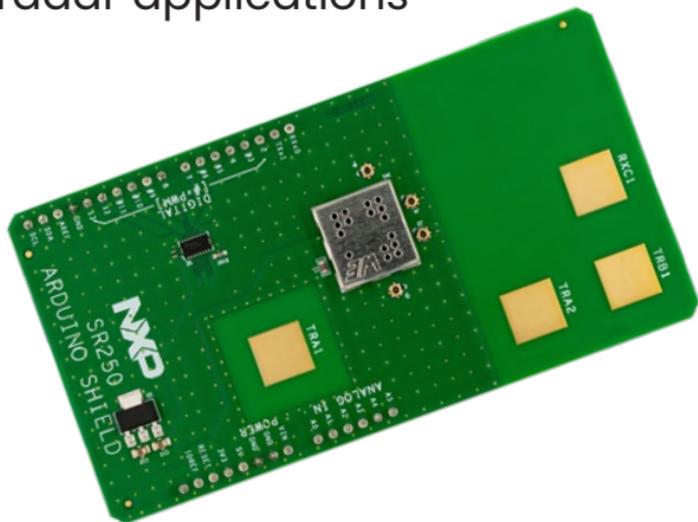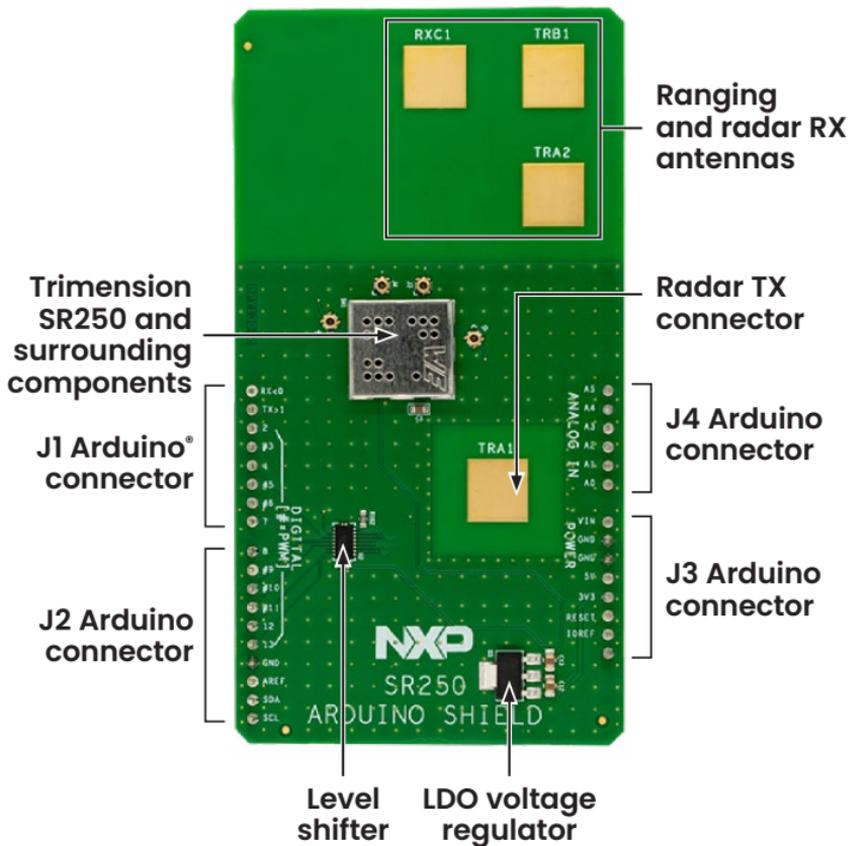
Get to know the Trimension SR250 development board

The Trimension SR250 development board offers a flexible development platform for integrating ultra-wideband (UWB) ranging and radar into consumer and industrial IoT solutions.

Compatible with Arduino headers on boards like i.MX, LPC, MCX, and Kinetis®, it enables an easy integration of Trimension SR250 for presence, location and motion detection, helping improve efficiency and safety.

Harness the full potential of UWB with advanced features like:

- Precise ranging and radar for accurate distance measurement
- Presence and motion detection to enhance safety and efficiency
- Location awareness for smarter living spaces and industrial automation

Whether you're building smart home solutions, industrial IoT systems or next-generation consumer devices, the Trimension SR250 development board delivers the performance and flexibility you need to bring your ideas to life.

⬇ Get started

Download installation software and documentation under "Jump Start Your Design" at **nxp.com/SR250UWBSHIELD**

The following information is provided per Article 10.8 of the Radio Equipment Directive 2014/53/EU:
1. Frequency bands in which the equipment operates.
2. The maximum RF power transmitted.

PN	RF technology	(a) Freq ranges (EU)	(b) Max transmitted power
SR250UWBSHIELD	Ultra-wideband	7987.2 MHz +/- 499.2 MHz	0 dBm

EUROPEAN DECLARATION OF CONFORMITY (Simplified DoC per Article 10.9 of the Radio Equipment Directive 2014/53/EU)

This apparatus, namely SR250UWBSHIELD conforms to the Radio Equipment Directive 2014/53/EU. The full EU Declaration of Conformity for this apparatus can be found at this location: **nxp.com/SR250UWBSHIELD**

Support
Visit **nxp.com/support** for a list of phone numbers within your region.

Warranty
Visit **nxp.com/warranty** for complete warranty information.

Home page
Visit **nxp.com/SR250UWBSHIELD** for more information.