

# Get Started with NXP Trimension™ Ultra-Wideband

Explore NXP's complete guide of Trimension UWB development kits and modules that are available through NXP, certified partners and distributors.

DEVELOPMENT KITS

	<b>UWD200A</b> Development Kit	<b>UWD210A</b> Development Kit	<b>VULKANO</b> Evaluation Kit	<b>SynchronicIT SFM10-KIT</b> UWB Evaluation Kit for Trimension™ OL23D0	<b>MK UWB SR150/ SR040</b> UWB Development Kit for Trimension™ SR150/ SR040	<b>MK UWB Kit Mobile edition 2.0</b> Evaluation Kit for NXP Trimension™ IoT UWB ICs	<b>Weikeng-Sunway UWB EVK-2</b> UWB Evaluation Kit for the Trimension™ SR150-Based UWB Module	<b>Murata Type 2BP EVK</b> Trimension™ SR150 UWB Development Kit	<b>Murata Type 2DK EVK</b> Trimension™ SR040 UWB Development Kit	<b>NCJ29D5</b> Trimension™ Evaluation Board for Automotive Ultra-Wideband <i>Available to selected customers under NDA</i>	<b>OL23D0</b> Trimension™ Evaluation Board for IoT Ultra-Wideband <i>Available to selected customers under NDA</i>
<b>UWB</b>	SR150	SR040	SR150 SR040	OL23D0	SR150 SR040	SR150 SR040	SR150 SR040	SR150	SR040	NCJ29D5	OL23D0
<b>EdgeLock® Secure Element</b>	✓	-	✓	-	✓ (SR150 only)	✓ (SR150 only)	✓ (SR150 only)	✓	-	-	-
<b>Mobile Support</b>	iOS Android	iOS Android	iOS Android	-	iOS Android	iOS Android	iOS Android	iOS Android	-	-	-
<b>Form Factor</b>	Custom	Custom	Arduino® Shield	Custom (35 × 26 mm)	Arduino® Shield Tag (SR040)	Arduino® Shield Tag (SR040)	Arduino®	Custom (80 × 30 mm)	Custom	Custom (90 × 31 mm)	Custom (90 × 31 mm)
<b>Interfaces</b>	UART USB Bluetooth® LE	UART USB Bluetooth® LE	USB Bluetooth® LE UART SPI GPIO I²C SWD	USB UART SPI	USB Bluetooth® LE UART SPI	USB Bluetooth® LE UART SPI	USB Bluetooth® LE UART SPI	USB Bluetooth® LE	UART	UART SPI	UART SPI
<b>Distributor</b>	Avnet Asia	Avnet Asia	Arrow	Future Electronics	-	-	Weikeng-Sunway, Arrow	EBV, Arrow, Future Electronics	-	-	-
<b>Segment</b>	IoT	IoT	IoT	Industrial IoT	IoT	IoT	IoT	IoT	IoT	Automotive	Industrial IoT
<b>AoA Support</b>	3D	-	2D	-	3D	3D	2D	3D	-	-	-
<b>Modules</b>	UWM200A	UWM210A	DCU 150 DCU 040	SFM10-MOD	Murata Type 2BP	Murata Type 2BP	SW-M1000-SR150 SW-M1000-SR040	Murata Type 2BP	Murata Type 2DK	-	SFM10-MOD
<b>Use Case</b>	Indoor Navigation, Access Control, Hands-free Payments	Item Tracking	Indoor Navigation, Access Control, Hands-free Payments	Industrial	Localization, Access Control, Hands-free Payments	Localization, Access Control, Hands-free Payments	Localization, Access Control, Hands-free Payments	Localization, Access Control, Hands-free Payments	Item Tracking	Secure Car Access	Industrial Indoor Positioning

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MODULES

	<b>UWM200A</b>	<b>UWM210A</b>	<b>DCU 040</b>	<b>DCU 150</b>	<b>DCU 023</b>	<b>SFM10-MOD</b>	<b>Type 2DK</b>	<b>Type 2BP</b>	<b>ASMOP1B00N21</b>	<b>ASMOP1C00R1</b>	<b>ASMOP1C00A1</b>	<b>SW-M1000-SR150</b>	<b>SW-M1000-SR040</b>
<b>UWB</b>	SR150	SR040	SR040	SR150	OL23D0	OL23D0	SR040	SR150	SR150	SR040	SR040	SR150	SR040
<b>Size (mm)</b>	13 × 30 × 2.8	13 × 30 × 2.8	15.7 × 16.75 × 2	27 × 27.2 × 1.5	15.7 × 16.75 × 2	24 × 15 × 3	19.6 × 18.2 × 2.3	6.6 × 5.8 × 2.2	10 × 10 × 1.8	13 × 18 × 2.0	13 × 18 × 2.3	13 × 18 × 2.2	13 × 24 × 2.2
<b>V Supply</b>	3.0 – 3.6 V	2.8 – 3.6 V	1.8 – 3.6 V	1.71 – 1.98 V	1.8 – 3.6 V	1.8 – 3.6 V	1.9 – 3.6 V	1.71 – 1.98 V	1.71 – 1.98 V	1.8 – 3.6 V	1.8 – 3.6 V	2.2 – 5.5 V	1.8 – 3.6 V
<b>Switch</b>	Y	-	-	-	-	-	-	Y	Y	-	-	Y	-
<b>Antenna</b>	External	External	Onboard	Onboard	Onboard	Onboard ceramic	Onboard	External	External	Onboard	Connector type = UFL	Connector type = UFL	Onboard
<b>External Components Required</b>	Antenna	Antenna	-	-	-	-	-	Antenna	Antennas	-	Antenna	Antenna	-
<b>Region</b>	Korea, EU	Korea, EU	EU, US	EU, US	EU, US	Worldwide	Worldwide	Worldwide	Worldwide	Europe, Korea	Europe, Korea	Worldwide	Worldwide
<b>Dev Kits</b>	UWD200A Development Kit	UWD210A Development Kit	VULKANO Evaluation Kit	VULKANO Evaluation Kit	VULKANO Evaluation Kit	SynchronicIT SFM10-KIT: UWB Evaluation Kit for Trimension™ OL23D0	Murata Type 2DK EVK: Trimension™ SR040 UWB Development Kit	Murata Type 2BP EVK: Trimension™ SR150 UWB Development Kit	MK UWB SR150/SR040: UWB Development Kit for Trimension™ SR150/SR040	MK UWB SR150/SR040: UWB Development Kit for Trimension™ SR150/SR040	MK UWB SR150/SR040: UWB Development Kit for Trimension™ SR150/SR040	MK UWB SR150/SR040: UWB Development Kit for Trimension™ SR150/SR040	Sunway UWB EVK-2: UWB Evaluation Kit for the Trimension™ SR150-Based UWB Module
<b>Use Case</b>	Indoor Navigation, Access Control, Hands-free Payments	Item Tracking	Item Tracking	Indoor Navigation, Access Control, Hands-free Payments	Industrial	Industrial	Item Tracking	Indoor Navigation, Access Control, Hands-free Payments	Indoor Navigation, Access Control	Item Tracking	Item Tracking	Indoor Navigation, Access Control, Hands-free Payments	Item Tracking
<b>Host Processor (Included)</b>	QN9090 Bluetooth® LE SoC	QN9090 Bluetooth® LE SoC	-	-	-	-	QN9090 Bluetooth® LE SoC	-	-	-	-	-	-