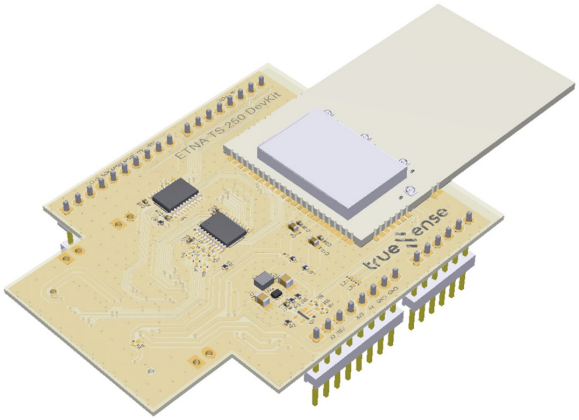
ETNA TS 250 DevKit

Secure Ranging

Radar Sensing

3D AoA, TDOA, RTLS



Ranging & Radar all in One

ETNA TS 250 DevKit is built around the **TSRR 250 UWB Ranging & Radar module**, based on **NXPTrimension™ SR250**, with onboard level translators.

It enables **3D AoA** and **Radar processing for Presence Detection** and **2D preprocessed CIR streaming, supporting advanced ML/AI applications**

Plug it directly into **Arduino UNO compatible boards** such as **NXP FRDM RW612**, or use the two 80 pin high density sockets with **Arduino Portenta C33/H7**.

APPLICATIONS

Industrial IoT & High Precision RTLS

Asset Tracking, Access Control, Visitor Management, Danger Zone Detection;

Smart & Autonomous Home

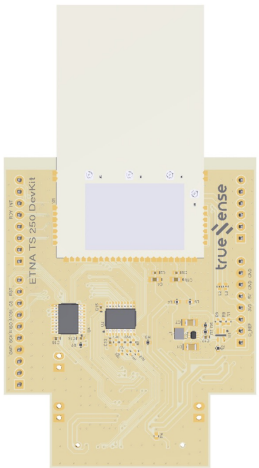
Hands Free Home Access, Home Entertainment, Home Appliances Automation.

Healthcare & Wellness Monitoring

Presence Detection, Breathing &Apnea Monitoring, Behavior Analysis.

TECHNICAL SPECIFICATION

UWB MODULE	TSRR 250
ANTENNAS	3 onboard + 1 external
RADAR MODE	OCPD, CIRs & Off CRP
RANGING MODE	ToF, 3D AoA, TDOA, RTLS
HOST INTERFACES	Arduino UNO + 2 x 80 pin
MAIN CHIP	NXP Trimension™ SR250
CHANNEL	UWB CH 5 & 9
FREQUENCY RANGE	6.24GHz to 8.24GHz
POWER SUPPLY	3.3V / 5V
OVERALL SIZE	101 x 55mm



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