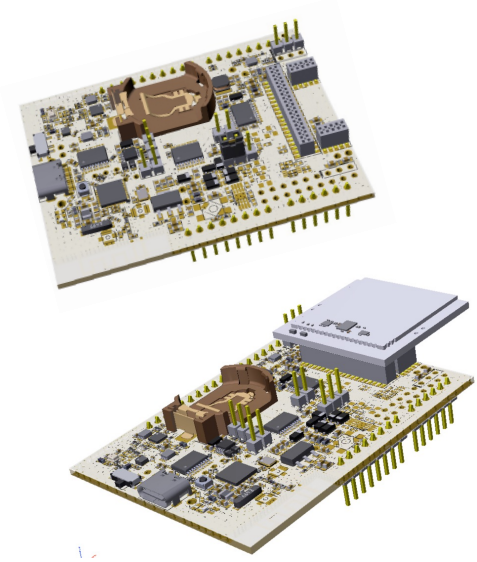
VULKANO Evaluation Kit



VULKANO allows easy development of customers' SW application and product thanks to Its flexible configuration that gives the option to be used as an Arduino Shield.

Stand-alone it can be used with its on board NXP QN9090 (with BLE5.0), NXP SE051 (Secure element), G-sensor and DCU150 & DCU040 modules plug in. Under this configuration the board can also host 3rd party Arduino Shield, and Interfaced to an external MCU via SPI/OS.

Alternatively it can be used as an Arduino Shield with the full variety of 3rd party development boards that are compatible with this popular form factor.

APPLICATIONS:

- Ideal to demonstrate RTLS, Industrial, Smart Home & Consumer applications;
- Smart Home Devices (Point & Trigger) & Access Control (Physical and Logical);

FEATURES:

- Daughterboard plug in with UWB DCU040, or DCU150 module;
- MCU + Bluetooth LE;
- Accelerometer-G Sensor;
- Plug & Trust Secure Element;
- Back up Coin battery connector;
- Arduino connectors;

TECHNICAL SPECIFICATION

MAIN CARRIER BOARD	QN9090 with On-board PCB antenna for Bluetooth LE
	SE051W, Plug & Trust Secure Element
	Digital pressure sensor Goertek SPL006-01
	Acceleration sensor SC7A20
	CR2032 battery & USB-C connectors
	Arduino connector
	A toggle switch for battery power on/off
	DIP Switches for signals switching between external Arduino board and QN9090
	LED, Blue color & Reset button
POWER	USB Type-C connector, to power the board and also with a USB to UART IC in board provided interface that can connect QN9090 UART directly and download program via ISP
DAUGHTERBOARD	DCU 150 Module ADAPTER with connectors
	DCU 040 Module ADAPTER with connectors
MODE SELECTION	QN9090 mode or Arduino mode