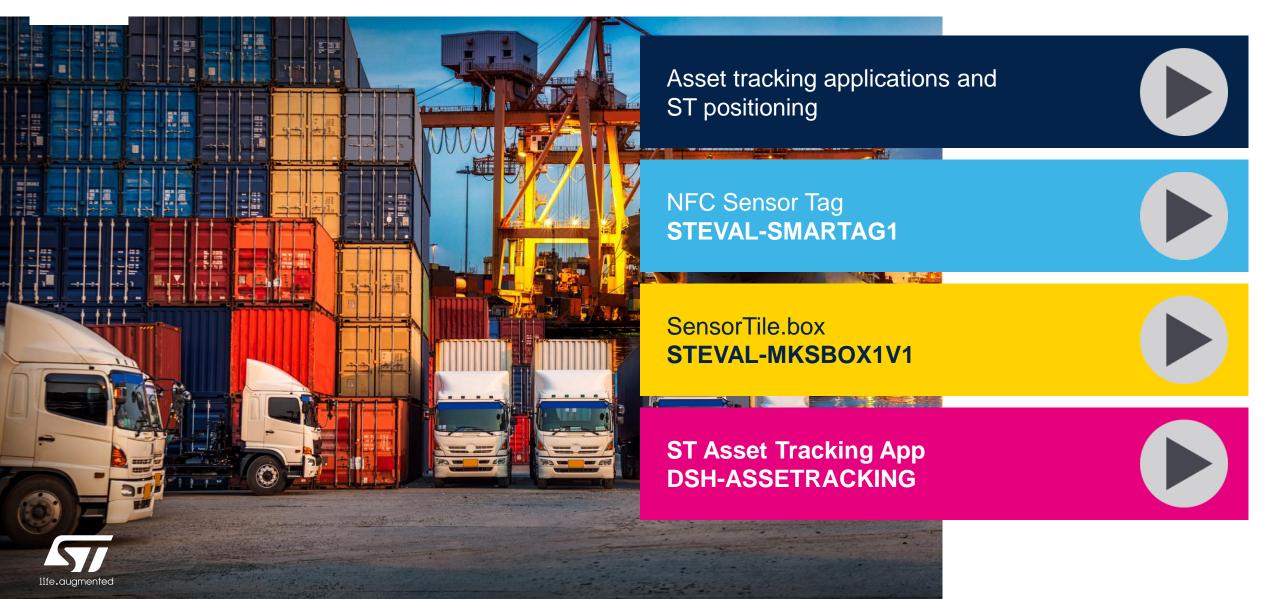
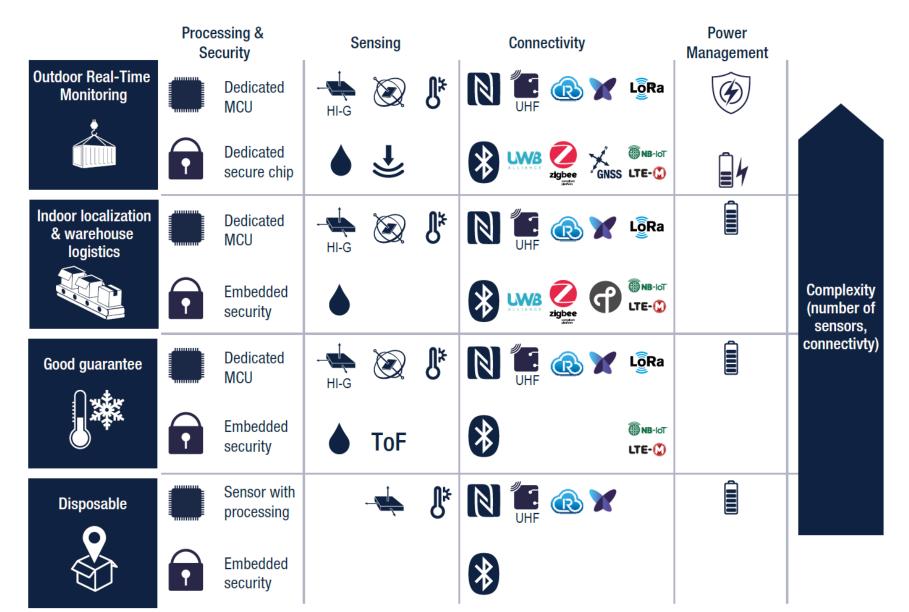


Asset tracking Sensor to cloud applications





Asset tracking application types











ST offering for asset tracking





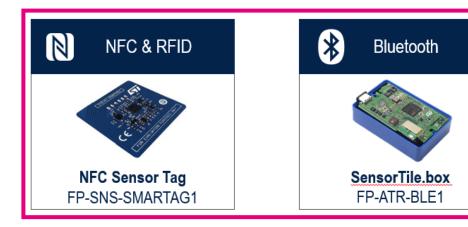








ST offers components and evaluation platforms that are suitable for all asset tracking use cases







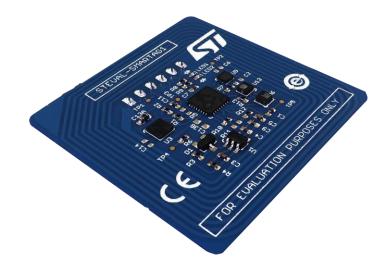






NFC Dynamic TAG for asset tracking with multi sensing capabilities

NFC Sensor Tag: STEVAL-SMARTAG1



Motion and Environmental Sensors













Processing and connectivity

- STM32L031K6 low-power MCU
- ST25DV64K Dynamic NFC Tag





Power Management

STLQ015 Voltage regulator











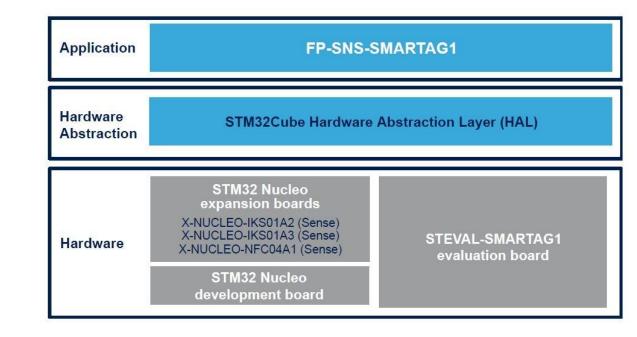
FP-SNS-SMARTAG1

Smart Tag Asset Function Pack

 FP-SNS-SMARTAG1 is an STM32Cube function pack for reading motion and environmental sensor data on your IoT node via an NFC enabled reader such as a mobile phone or a tablet

Key features

- Complete firmware to access data from an IoT node with dynamic NFC tag, environmental and motion sensors
- Compatible with the STAssetTracking application for Android/iOS for reading data logs from the NFC tag and for sending them to the DSH-ASSETRACKING cloud-based dashboard











Bluetooth® Low Energy Sensor Development Kit app for IoT applications

SensorTile.box: STEVAL-MKSBOX1V1



Motion and Environmental Sensors

- LSM6DSOX Low-power 6-axis IMU, with Machine Learning Core
- LIS3DHH & LIS2DW12 High-performance and low power accelerometers
- **LIS2MDL** Magnetometer
- **LPS22HH** Altimeter / Pressure sensor
- STTS751 Accurate temperature sensor
- **HTS221** Humidity sensor
- MP23ABS1 Analog wide-band microphone

Processing and connectivity

- STM32L4R9ZIJ6 Ultra-low-power MCU
- BlueNRG-M2 Bluetooth Low Energy Module

Power Management

STBC02 Battery charger















Play with Sensors Entry Mode

Log data and explore new sensor functionalities



Proof of Concept Expert Mode

Test and validate your ideas by customizing the App



Rapid Prototyping Pro Mode

Customize, write code and make it yours

Get Familiar with Sensors and Speed Up your Development











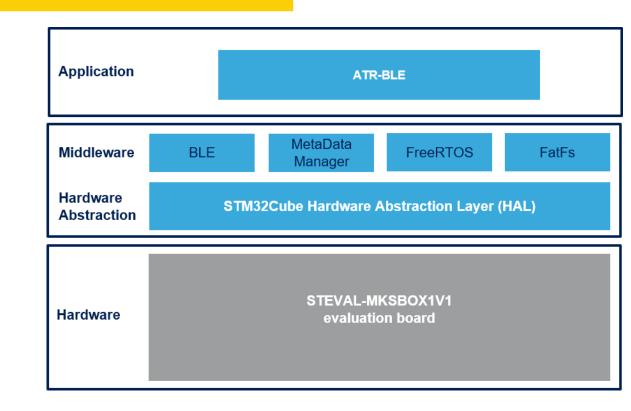
FP-ATR-BLE1

Asset Tracking Function Pack

 The FP-ATR-BLE1 is a STM32Cube Function Pack for low power asset tracking using BLE connectivity for the SensorTile.box

Key features

- Complete sample application on how to create one asset tracking application controlled by BLE connectivity
- microSD DataLogging
- Wake-up, Tilt and Orientation detection by the on-board accelerometer











End to end ST sensors development kits to cloud application

STEVAL-SMARTAG1
with
FP-SNS-SMARTAG1
firmware

















Laptop with DSH-ASSETRACKING dashboard on Chrome browser











STAssetTracking

ST Asset Tracking application for Android and iOS

- The ST Asset Tracking app allows you to remotely configure
 a BLE asset tracking node from a compatible mobile
 device with Bluetooth connectivity. It provides the
 functionality to enable data logging for specific sensors and
 set threshold triggers to start and stop logging activity.
- Mobile device running ST Asset Tracking client application
- Collect and display sensors data:
 - Wake-up, tilt and orientation detection by the on-board accelerometer
 - Environmental sensor data and inertial data saved on SD card











DSH-ASSETRACKING

 DSH-ASSETRACKING cloud application providing intuitive interface tailored for the collection, visualization and analysis of asset tracking position as well as data from motion and environmental from compatible ST devices such as NFC Sensor Tag, SensortTile.box and STWIN



