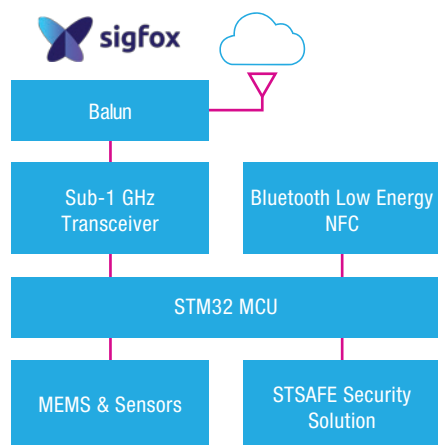# Complete Ecosystem
for Sigfox™ IoT devices

All the solutions you need to develop efficient and secure IoT devices with Sigfox connectivity

ST is your ideal partner to quickly design and develop IoT devices that connect to the Sigfox network. Our broad portfolio of products and pre-integrated solutions addresses key IoT device design challenges - energy consumption, security, affordability, and time to market.

S2-LP SUB-1 GHZ TRANSCEIVERS

Ultra-low-power sub-1 GHz transceivers meeting Sigfox requirements and delivering top-notch RF performance and unparalleled energy efficiency.

STM32 MICROCONTROLLERS

A broad portfolio of STM32 32-bit MCUs, from ultra-low-power and wireless to performance, offering a rich set of analog & connectivity peripherals.

BROAD RANGE OF SENSORS

A range of compact and low-power motion MEMS and environmental sensors, as well as ranging sensors to add sensing capabilities to any application.

CONNECTIVITY SOLUTIONS

Complementary short-range communication technologies such as industry-leading NFC solutions, ST's BlueNRG BLE processor or STM32WB wireless MCU.

STSAFE SECURE ELEMENT

Dedicated secure element with pre-configured Sigfox ID and keys, enhancing the integrity and confidentiality of transmissions over the Sigfox network.

BALUNS

Baluns designed for the S2-LP Sub-1 GHz transceiver, for the BlueNRG BLE processor and for the STM32WB wireless MCU.

A COMPREHENSIVE SET OF DEVELOPMENT AND PROTOTYPING BOARDS

Choose the appropriate STM32 Nucleo development board (MCU) and expansion (X-NUCLEO) boards covering the functionality you need.
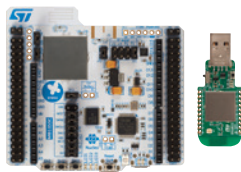
STM32 Nucleo development boards

NUCLEO-64

NUCLEO-144

Wireless MCU

P-NUCLEO-WB55*
* Available in Q1 2019

S2-LP Sub-1 GHz 868 and 915 MHz RF

X-NUCLEO-S2868A1
X-NUCLEO-S2915A1

STSAFE-A optimized secure element

X-NUCLEO-STSAFE-A1SX

Motion and environmental sensors

X-NUCLEO-IKS01A3

STM32 Nucleo Expansion boards (X-NUCLEO)

STM32 Open Development Environment

ST25 Dynamic NFC tag

X-NUCLEO-NFC05A1

BlueNRG Bluetooth Smart

X-NUCLEO-IDB05A1

PRE-INTEGRATED SOFTWARE SOLUTIONS

Speed up your design using Sigfox-compliant SW libraries

STM32 CubeExpansion

FP-ATR-SIGFOX1 FUNCTION PACK

The FP-ATR-SIGFOX1 Function Pack is intended to develop asset tracking applications thanks to low-power device geolocation service provided by the Sigfox infrastructure. The package supports ST Asset Tracking app available on Google Play store, and ST Asset Tracking web dashboard.

STSAFE

STSAFE-A1SX SIGFOX SOFTWARE LIBRARIES

A comprehensive set of software libraries for the X-NUCLEO-STSAFE-A1SX STM32 Nucleo expansion board which integrates a secure element. The secure element is provisioned in ST's secure-personalization center with a device ID and keys that allow plug-and secure connection to the Sigfox network, and ensure data exchange integrity and confidentiality.

CERTIFIED SOLUTION, WORLDWIDE COVERAGE

Sigfox solutions from ST meet the regulatory requirements applicable in territories worldwide, including Europe, Japan, Korea, China and the USA. Our solutions are certified Sigfox Ready and Monarch capable.

sigfox ready

life.augmented