Roundtable





Complete ecosystem offering by ST

All building blocks for IoT devices

Lower barriers for developers getting started

Lower barriers from prototyping to first product Enable product & service commercialization

Integration of Cloud Provider SDKs

Microcontrollers



Secure solutions



Sensors & actuators



Connectivity solutions



Power management



Motor control



Analog components









STM32 Nucleo Development & Expansion Boards

Pre-integrated software for vertical applications







Smart Industry

Development ecosystem

Form-factor boards



Discovery Kit IoT Node



SensorTile Wireless **Industrial Node**



NFC Dynamic Tag SensorTile.box **Sensor Node**



Prototyping software



Development environments



Intelligence toolbox



solutions



and analysis tools



On-line design tools



Partner Program and ST community





SensorTile.box STEVAL-MKSBOX1V1

A ready-to-go IoT Node



Available Software

FP-SNS-STBOX1 FP-AI-SENSING1 FP-ATR-BLE1

Mobile App

ST BLE Sensor ST Asset Tracking







Motion Sensors



Low-power 6-axis IMU, with Machine Learning Core

LSM6DSOX



High-performance and low power accelerometers

LIS3DHH & LIS2DW12



Magnetometer

LIS2MDL

IP54-compliant casing 500 mA-h Li-Po battery

Environmental Sensors



Altimeter / Pressure sensor

LPS22HH



Accurate temperature sensor

STTS751



Humidity sensor

HTS221



Analog wide-band microphone

MP23ABS1

Processing



STM32L4 low-power MCU

STM32L4R9ZIJ6

Connectivity



Bluetooth Low Energy Module

Power management



Battery charger

STBC02

www.st.com/sensortilebox

STWIN STEVAL-STWINKT1

SensorTile Wireless Industrial Node



Available Software

FP-IND-PREDMNT1

Mobile App

ST BLE Sensor



Cloud App

DSH-PREDMNT





Industrial Motion Sensors



High-performance 6-axis IMU, embedding Machine Learning Core ISM330DHCX



Ultra-wide bandwidth, low noise 3-axis digital vibration sensor

IIS3DWB



Ultra-low power, high performance 3-axis accelerometer

IIS2DH



Magnetometer

Environmental Sensors



Altimeter / Pressure sensor LPS22HH



Accurate temperature sensor STTS751



Humidity sensor HTS221



Analog wide-band microphone MP23ABS1



Industrial Digital microphone
IMP34DT05

Processing



STM32L4 low-power MCU STM32L4R9ZIJ6

Connectivity



Bluetooth Low Energy Module



RS485 Transceiver

Connectivity Expansion



Wi-Fi, LTE, Industrial Ethernet

www.st.com/stwin

NFC Sensor Tag STEVAL-SMARTAG1

NFC Dynamic sensor TAG for asset tracking



Mobile App ST NFC Sensor



Motion & Environmental Sensors



Low power accelerometer

LIS2DW12



Altimeter / Pressure sensor

LPS22HH



Humidity and temperature sensor

HTS221

Processing



STM32L0 low-power MCU

STM32L031K6

Connectivity



Dynamic NFC Tag ST25DV64K

Power management



Voltage regulator

STLQ015





www.st.com/smartag

IoT Discovery Kit IoT Node B-L475E-IOT01A and B-L4S5I-IOT01A

Cloud Connected Sensor Node



Available Software

X-CUBE-AZURE

X-CUBE-AWS

X-CUBE-GCP

X-CUBE-WATSON

FP-AI-SENSING1





Sensors



Low-power 6-axis IMU, LSM6DSL

Magnetometer

Time-of-Flight and

gesture-detection sensor

LIS3MDL

VL53L0X



Altimeter / Pressure sensor

LPS22HB



Humidity and Temperature sensor

HTS221



Digital Microphone Microphones (2x)

MP34DT01

Processing

STM32L4S5VIT6



Security (B-L4S5I)



Secure Element STSAFA110S8SPL02

Connectivity



Bluetooth Low Energy Module



802.11 b/g/n Wi-Fi® module ISM43362-M3G-L44



Dynamic NFC Tag ST25DV04K

www.st.com/july14virtual







Sensors Everywhere



SensorTile.box Ready-to-Go IoT Node

ST makes IoT sensing easy with a certified and ready-to-connect device. The SensorTile.box development kit enables users with any level of experience with sensors to learn, prototype and develop IoT sensor nodes embedding our IMUs with Machine Learning core.

Applications: Wearable, Asset tracking, Distributed intelligence

Application boards: STEVAL-MKSBOX1V1

ST parts: LSM6DSO, LIS2DW12, LIS3DHH, LIS2MDL, LPS27HHW, STTS22H, MP23ABS1, FP-ATR-BLE1

- SensorTile.box A Ready-to-Go IoT Node
- SensorTile.box: Basic mode
- SensorTile.box: Expert mode
- SensorTile.box: Pro mode
- Webinar Sensors in action: Exploring new applications with SensorTile.box



Additional Opportunities to Connect



Sensors Innovation Week – July 17th



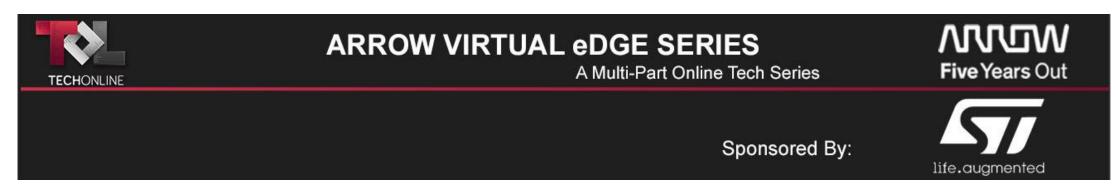


https://www.fiercedigitaltechevents.com/sensors-innovation-week





Webinar – Monday, July 20



How to Bring Power-Efficient Al Applications to the Edge

A Sensor with an embedded Machine Learning Core can improve the overall system efficiency by significantly reducing power consumption while increasing accuracy with contextual awareness.

In this webinar you will learn how to run a classification engine on the Machine Learning Core embedded in an iNEMO™ inertial module, and how to quickly and easily design power-efficient decision trees using the AlgoBuilder Graphical User Interface

Speaker

Attendees will also learn:

- How to program a sensor with a Machine Learning Core without writing a single line of code
- The 5 key steps behind sensors Machine Learning with a practical example
- How to use and benefit AlgoBuilder and Unico GUIs



Thiago ReisProduct Marketing Engineer
STMicroelectronics



Internet of Things World

AUGUST 11 - 13, 2020 | 8:30 AM - 5:30 PM PT



PLATINUM SPONSOR

IoT World Virtual Conference & Expo

- 8 Tracks of Content (ST participation)
- Many Networking Opportunities:
 - Schedule Video meetings
 - Live chat with our product experts
 - Video chat with VIP's in Networking lounges
 - Attend Speaker Roundtables and Q&A Sessions

August 11

- Industrial IoT
- 5G & IoT Connectivity
- Edge Computing & AI
- Developing for IoT

August 12

- IoT Security
- Smart Environments
- Business Resiliency
- Smart Mobility



Thank You!



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BREAK

Q&A will stay active during break

Join us at 2:00 ET for Embedded & Connectivity Sessions

Time (ET)	Title	Presenter
2:00 PM	Welcome to Afternoon Session	Loris Valenti
2:10 PM	Bringing AI to the Edge	Markus Mayr
2:30 PM	Enhancing the User Experience with Graphics	Mike Hartmann
2:50 PM	Securing Connected Devices	Greg Proehl
3:10 PM	Get Connected! Explore Bluetooth, 802.15.4 and SubGHz System On Chip Solutions	Colin Ramrattan
3:30 PM	Contact-Less Connectivity NFC is in your phone and your watch - Where else?	James Barlow
3:50 PM	Closing Remarks	Loris Valenti

