

Compagno Machine Learning Solution Using SensiML Analytics Studio Toolkit for Industrial Edge AI

Overview

Compagno (Italian for “Companion”) is a multi-sensor wireless edge node evaluation board designed by Future Electronics System Design Center. It is designed as a companion board to work with ST Micro’s STWIN (STEVAL-STWINKT1) SensorTile wireless industrial node development kit. Complementary to the sensors on the STWIN kit, the Compagno board provides additional sensing capabilities including CO2, VOC, particulate matter and 8x8 temperature grid imaging.



The simple streaming firmware for the Compagno board enables easy integration with [SensiML Analytics Studio Toolkit](#). The SensiML Analytics Studio Toolkit is a cloud-based software platform that enables application developers to create smart IoT sensor devices with SensiML’s AI routines optimized device-ready predictive model that rapidly reduce data science complexity.

Build Intelligent Endpoints Quickly and Easily — From Start to Finish



SensiML Toolkit Components

Data Capture Lab

- Train/test data collection
- Data labeling and metadata annotation
- Video annotation tools
- Auto segmentation and triggering
- Multi-user project collaboration
- Automated data management
- Windows™ and Android™ versions



SensiML Data Capture Lab Screen

Analytics Studio

- Server based AI code-generation engine
- Classic ML classifiers through xNN algorithm
- Automatic or Directed Feature Engineering
- Simple GUI and Python expert interfaces
- Cloud Service and Private Server options



SensiML Analytics Studio Screen

Test App

- Test tool for model validation on device
- Real-time and logged collection
- Rich visualizations and debug info
- Windows™ and Android™ versions