

# CONNECT edge

Manufacturing Intelligence at the edge of your operations.

**DECIDE4ACTION's** Artificial Intelligence Service starts at the edge... automatically. Now it is easier and simpler for facilities to implement cognitive manufacturing with machine learning and predictive maintenance. **CONNECT**edge devices incorporate NanoEdge AI™, Cartesiam's unique machine-learning technology to understand and exploit data directly where it is generated.

Snap a **CONNECT**edge onto a pump, boiler, motor, blender, grinder, your most important machines, and automatically the process starts analyzing and predicting it's vibrations profile. Eliminate the need for in-house Data Scientists and expensive volumes of historical data.



**CARTESIAM.AI**  
ARTIFICIAL INTELLIGENCE AT THE EDGE

**NANOEDGE AI™**  
BY CARTESIAM

Bluetooth low energy connectivity

- Attaches with built in magnetic mount
- Communicates with the **CONNECT** via Low Energy Bluetooth
- **CONNECT** sends the information to the **DECIDE4ACTION** platform through wired Ethernet, WIFI or optional 4G LTE.

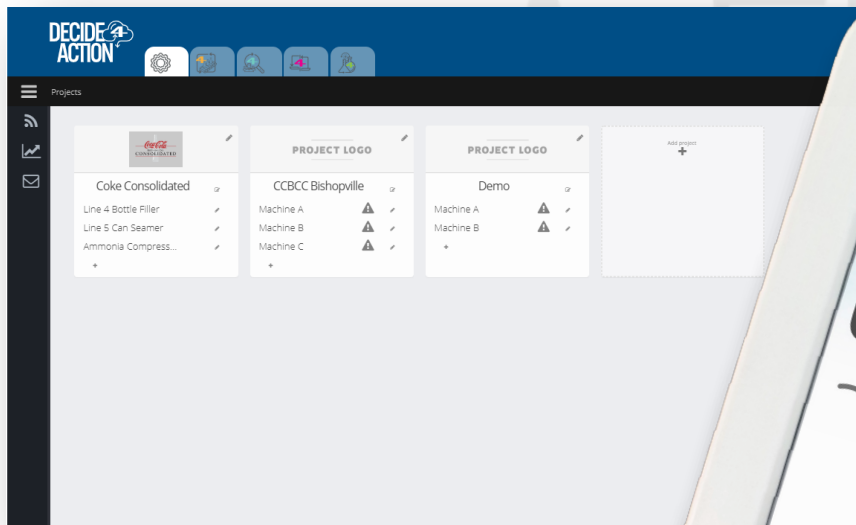
**CONNECT**  
BY **DECIDE4ACTION**  
www.DECIDE4ACTION.com

**CONNECT**  
edge  
www.DECIDE4ACTION.com

**4**

## KEY FEATURES

- Bluetooth low energy connectivity
- Main components:
  - STM32L476JG - 32-bit ultra-low-power MCU with Cortex®M4F
  - LSM6DSM - iNEMO inertial module: 3D accelerometer and 3D gyroscope
  - LSM303AGR - Ultra-compact high-performance eCompass module: ultralow power 3D accelerometer and 3D magnetometer
  - LPS22HB - MEMS nano pressure sensor: 260-1260 hPa absolute digital output barometer
  - MP34DT05-A - 64 dB SNR digital MEMS microphone
  - BlueNRG-MS - Bluetooth low energy network processor
  - BALF-NRG-02D3 - 50  $\Omega$  balun with integrated harmonics filter
  - LD39115J18R - 150 mA low quiescent current low noise LDO 1.8 V
- **CONNECT**edge Enviromentally protected to IP65



  
**CARTESIAM.AI**  
ARTIFICIAL INTELLIGENCE AT THE EDGE



Are you ready to **DECIDE4ACTION**?  
Start the conversation today...

864.458.7587   sales@decide4action.com   www.DECIDE4ACTION.com