N-and Brings onsemi SmartENC Evaluation to edge lab LIVE! @ electronica 2026 — Demystifying Rotary Position Sensing for Developers

N-and Group's integrated hardware-software platform simplifies evaluation of rotary sensors for motor control and industrial automation

[OLTRONA, Italy] — [November 3, 2026] — N-and, a leading technology innovator in human–machine interaction, will demonstrate onsemi SmartENC — an inductive-sensing evaluation kit for motor control and industrial automation — at edge lab LIVE! @ electronica (November 10-13, 2026 in Munich, Germany). Integrating onsemi's dual-inductive rotary position sensor with popular microcontroller and rotor boards, N-and's evaluation kit features a custom Windows application that tracks the sensor signal from the rotating assembly through embedded processing — allowing developers to analyze sensor behaviour before deploying to embedded hardware.

"When you evaluate a rotary sensor, you need to understand how its mechanical setup, electronics and software work together," said Andrea Stradella, embedded engineering manager, N-and. "SmartENC gives engineers a clear view of that complete path. It shows them how movement is measured, allowing them to inspect the data and explore the controls, so they can evaluate the technology before integrating it into a product."

About the SmartENC demonstration

The onsemi SmartENC evaluation kit is an integrated hardware-software platform that allows embedded developers and application engineers to analyze rotary position feedback in applications that require accurate, high-speed tracking of a rotating shaft. These applications include collaborative robots (cobots) and robotic arms, industrial-automation equipment, and more.

N-and was closely involved in designing the evaluation kit, which combines key components:

- Three PCBs — a rotor board coupled to the shaft; a sensing board carrying onsemi's NCS32100 and its coils; and an STM32-based controller board that transfers the sensor data to a PC over USB;
- A Windows application developed by N-and Embedded for Avnet Silica displays angular position, turn count, raw position and speed, and provides calibration and register-access functions. Developers can now easily access these readings, along with the configuration controls, to investigate sensor behaviour before deploying to an embedded target.

For technical information, visit Avnet Silica's SmartENC page.

Meet N-and at edge lab LIVE!

N-and will present the SmartENC demonstration in Hall C5, Stand 100/32, at Messe München, November 10-13, 2026. Visitors can discuss sensor evaluation, embedded hardware and software development, and requirements for their own applications with the N-and team. To arrange a meeting, visit us on the show floor or email info@n-and.com

About edge lab LIVE!

edge lab LIVE! is a multi-faceted program designed for technical leaders and developers in embedded systems, the IoT and edge AI. Jointly hosted by ThroughPut Marketing and Messe München, it takes place November 10-13, 2026 at electronica in Munich, Germany.

For more information, visit electronica's edge lab LIVE! page.

About N-and

N-and is a global technology company specialising in embedded systems and end-to-end product development, from hardware and firmware design to HMI, connectivity, IoT and cloud services. With 30+ years of engineering experience, N-and supports OEMs with highly customisable chip-to-cloud solutions designed to accelerate innovation and time-to-market.

For more information, visit n-andgroup.com | n-andembedded.com and follow N-and on LinkedIn.

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