

EMASS Brings Ultra-Low-Power Edge AI to embedded world 2026

Live demos showcase ECS-DoT across industrial sensing, audio, and vision applications

LOS ANGELES (Feb. 11, 2026) – EMASS, a Nanoveu subsidiary with next-generation semiconductor technology, today announced its participation at embedded world 2026, taking place March 10–12, 2026 in Nuremberg, Germany. At the show, EMASS will showcase its ECS-DoT™ system-on-chip (SoC), a milliwatt-class, on-device AI platform designed for always-on intelligence with ultra-low latency and dramatically reduced power consumption, through application-driven demos at Hall 4, Booth 4-483.

Building on recent ecosystem collaborations and the successful tape-out of its next-generation 16nm platform, EMASS will show how ECS-DoT enables continuous sensing, inference, and decision-making directly on-device, without reliance on the cloud or frequent battery replacement. Live demonstrations include:

- **Predictive Maintenance with Semtech LoRaWAN®**
Demonstrating ultra-low-power, always-on monitoring of vibration, motion, and environmental signals, this demo highlights how ECS-DoT enables real-time equipment health monitoring at the edge. Sensor data is processed on-device and transmitted wirelessly via Semtech LoRaWAN, enabling scalable industrial monitoring without cloud dependency.
- **Audio Security Detection with Semtech LoRaWAN®**
This demo showcases on-device AI that continuously listens for critical acoustic events, such as glass break or intrusion signatures, even in noisy environments. ECS-DoT performs real-time detection at sub-milliwatt power levels, enabling next-generation security devices with extended battery life and low-latency response.
- **Bone-Conduction Audio & Voice Detection Using**
EMASS will demonstrate a novel hearable application using an Inertial Measurement Unit (IMU) to enable bone-conduction audio sensing. ECS-DoT detects voice activity and performs keyword spotting by analyzing jaw movement through the IMU, reducing reliance on always-on microphones and enabling private, low-power voice interaction in compact wearable devices.
- **Vision-Based Smart Meter Retrofit**
This demo highlights a vision-based edge AI application targeting emerging markets. ECS-DoT processes visual data from a camera focused on analog water or gas meters, interpreting dial movement directly on-device. Abnormal usage patterns, such as rapidly increasing consumption, can be detected locally and transmitted wirelessly, enabling cost-effective smart metering without infrastructure replacement.

“As more intelligence moves closer to the physical world, power and latency become fundamental design considerations,” said Mark Goranson, CEO of EMASS. “These demonstrations show how ECS-DoT supports continuous, on-device AI in systems where cloud-based approaches are not practical.”

To schedule a meeting or request a live demonstration during embedded world 2026, please contact Scott Smyser, Vice President of Sales and Marketing, at Scott@nanoveu.com.

EMASS' recent progress, spanning ecosystem collaborations, expanded application validation, and continued platform evolution, underscores growing demand for ultra-low-power, low-latency intelligence at the edge. To learn more, visit nanoveu.com/emass.

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About EMASS

EMASS – a subsidiary of Nanoveu Ltd (ASX: NVU) – is an advanced semiconductor company specializing in ultra-low-power AI system-on-chip (SoC) solutions for edge computing. The company's flagship ECS-DoT chip delivers high-performance AI processing for vision, audio, and sensor data directly on-device, maximizing energy efficiency through its RISC-V architecture and non-volatile memory technologies. This always-on intelligence solution is optimized for power- and space-constrained applications including drones, wearables, healthcare devices and industrial IoT systems. For more information, visit nanoveu.com/emass.

About Nanoveu

Nanoveu is a listed company advancing human-machine experiences at the edge through a portfolio that spans ultra-low-power AI and glasses-free 3D technologies. Its subsidiary EMASS designs advanced system-on-chip (SoC) solutions that deliver efficient, scalable on-device AI for smart devices, IoT applications and 3D content transformation – enhancing Nanoveu's reach across rapidly growing AI, edge computing and 3D content markets. EyeFly3D™ is Nanoveu's end-to-end platform for glasses-free 3D, uniting proprietary screen technology with sophisticated content processing software and, now, EMASS's ultra-low-power SoC to bring immersive 3D to a wide range of devices and industries. The Company also develops and markets an advanced range of self-disinfecting and hydrophobic films and coatings under the Nanoshield™ brand, designed for applications including large-scale CSP and photovoltaic solar installations. Together, Nanoveu's businesses deliver practical innovation that makes devices smarter, environments safer and experiences more immersive.

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